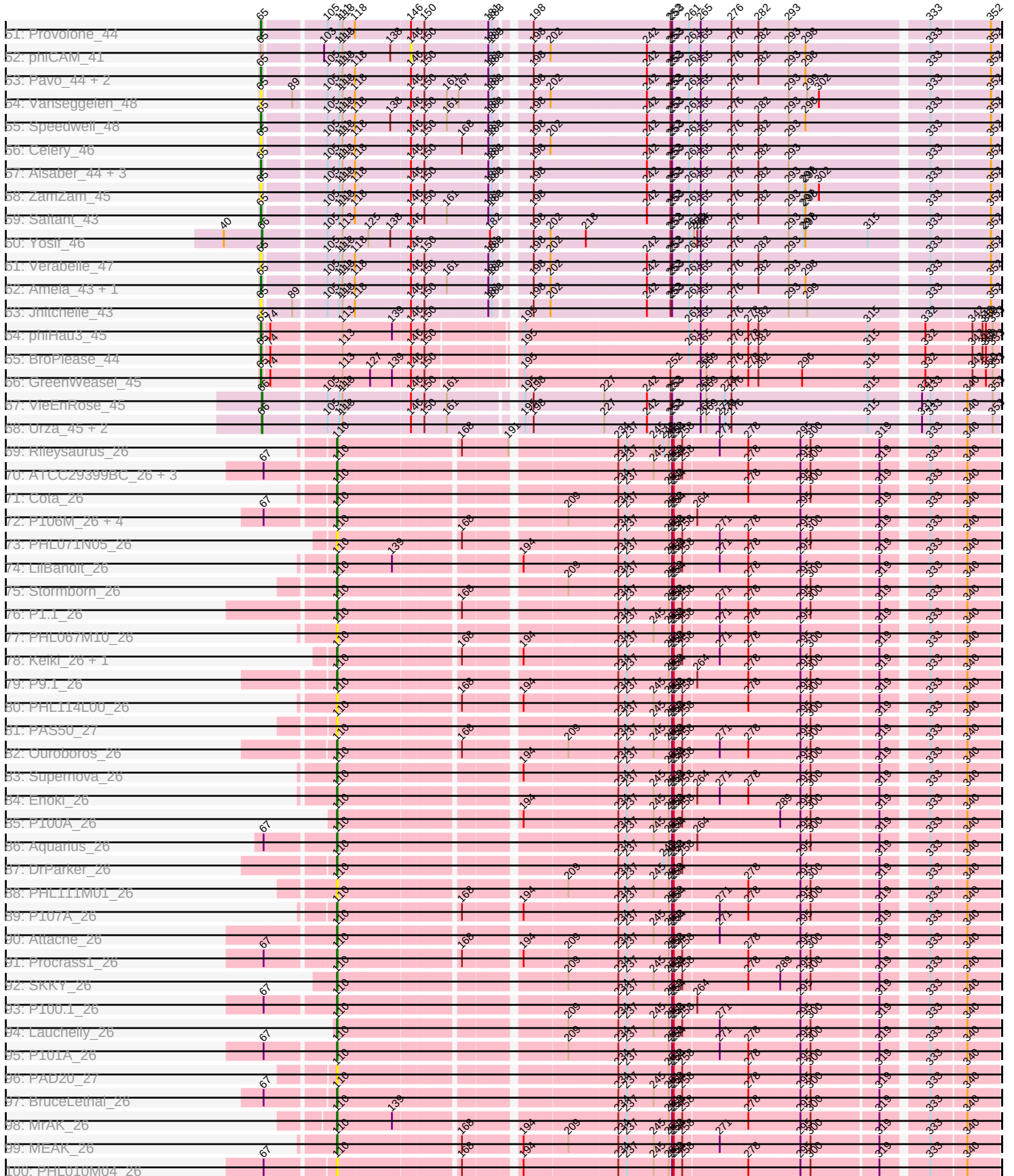


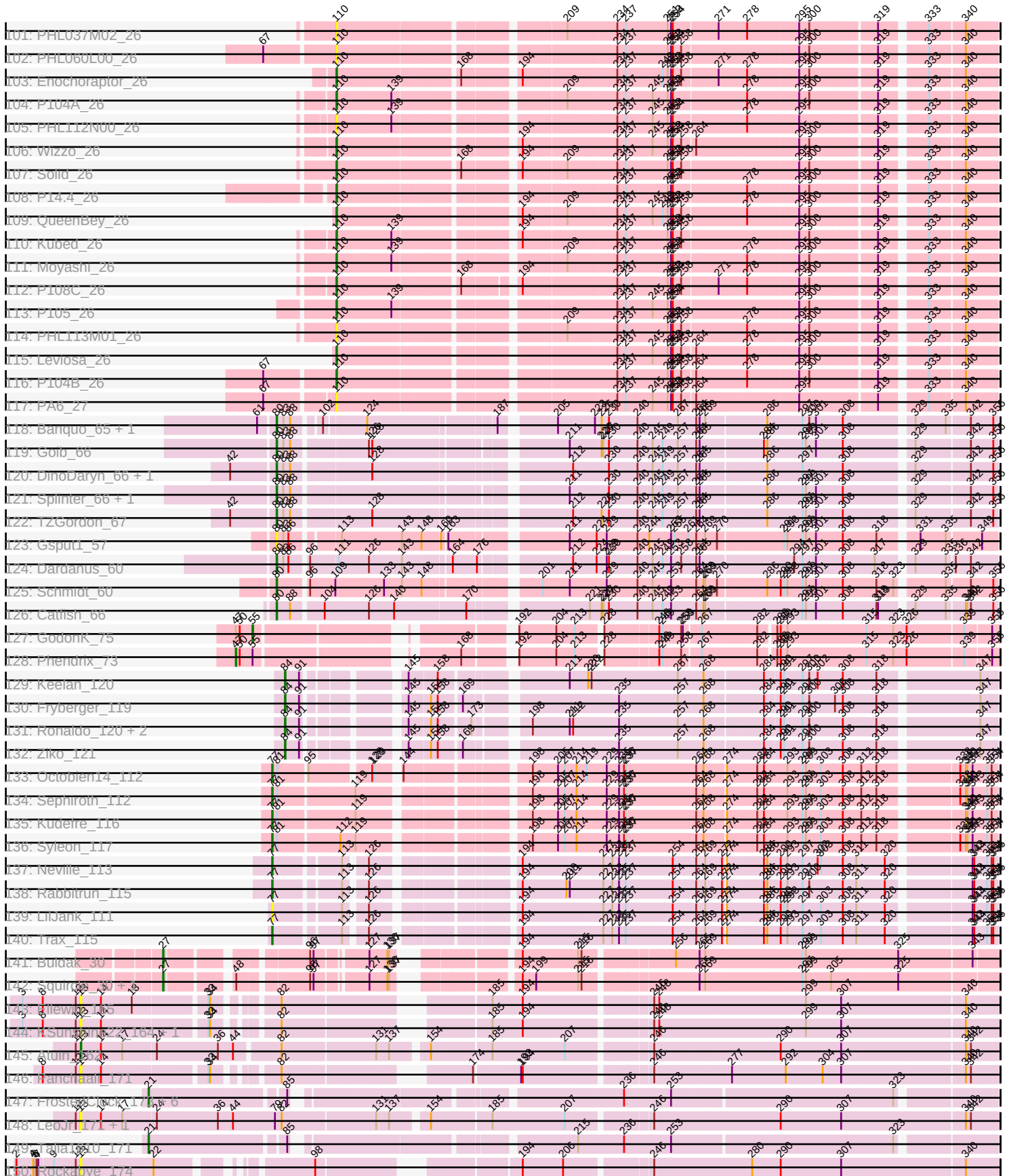
Pham 279973

[illegible]

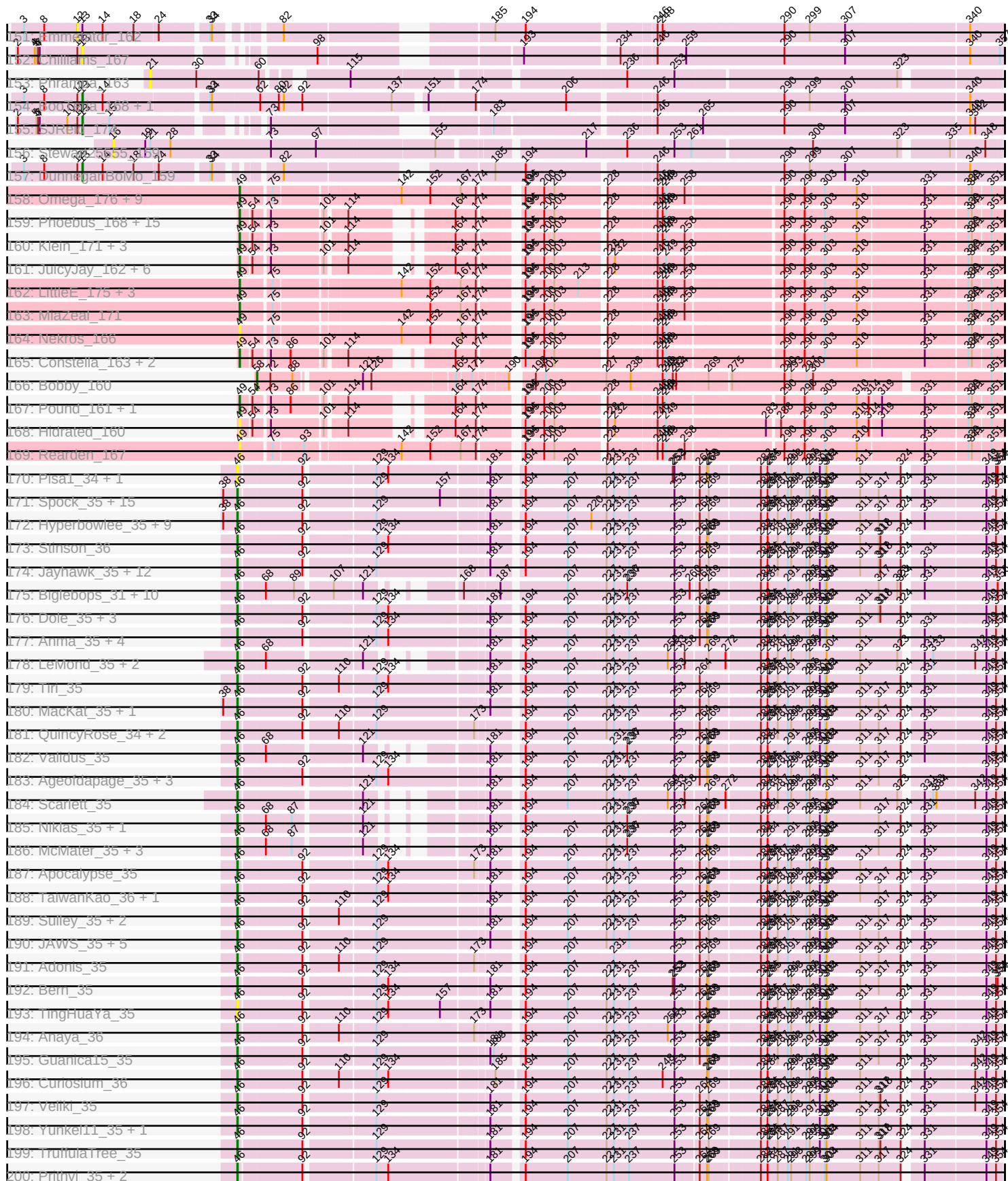
Pham 279973



Pham 279973



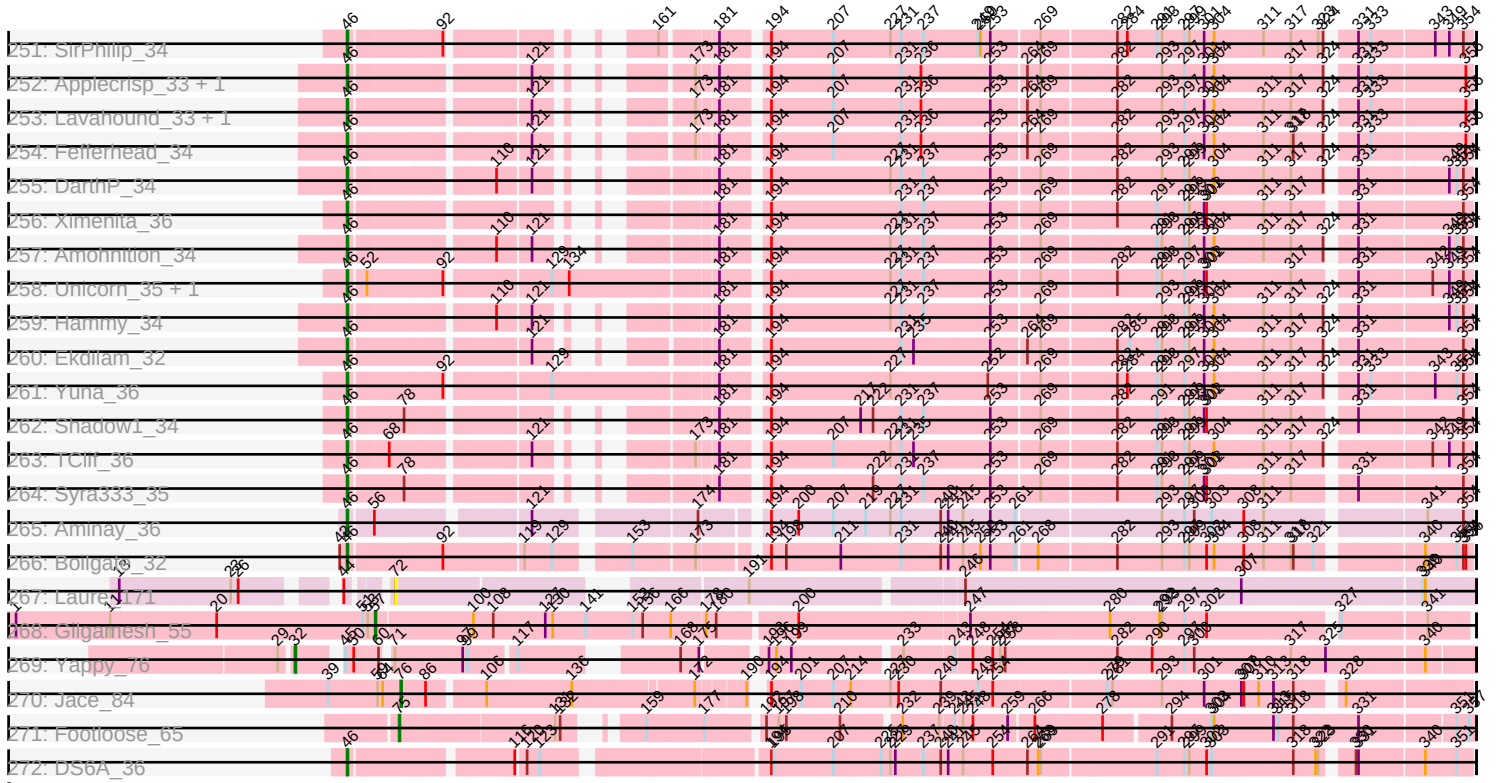
Pham 279973



Pham 279973

[illegible]

Pham 279973



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 279973 Report

This analysis was run 02/07/26 on database version 634.

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

Pham number 279973 has 505 members, 70 are drafts.

Phages represented in each track:

- Track 1 : MalagasyRose_35
- Track 2 : Nergal_31
- Track 3 : Jash_44, Oliynyk_44, Izzy_44, Eddasa_44, BryanRecycles_44, Rusticus_44
- Track 4 : Dwayne_43, Emaanora_46, SarahRose_43, Hippo_43, TagePhighter_45, OzzyJ_44, Chucky_43
- Track 5 : EnochSoames_46
- Track 6 : Maneeekul_43, Ejemplo_42, Yasdnil_43, TuanPN_42
- Track 7 : Asten_43
- Track 8 : Esperer_43, Indigo_42, Nerdos_42, Phettuccine_43, Aaronocolus_43, Leviticus_43, Bovely_43
- Track 9 : Werner_43, BarryBee_46, Dattran_45, Triste_43, Goby_43, Toma_43
- Track 10 : Nanodon_45
- Track 11 : Zemlya_45
- Track 12 : Nabi_44, Rana_44, Lorelei_44
- Track 13 : Ozzie_43, Legacy_43, SunsetPointe_43, Hydra_45
- Track 14 : Unstoppable_43, Caliburn_43
- Track 15 : Brataylor_46
- Track 16 : Whatever_43
- Track 17 : Danzina_45
- Track 18 : Snorlax_43
- Track 19 : Katalie_43, RedBear_44, South40_43
- Track 20 : Sujidade_44, Godpower_44, Lika_43
- Track 21 : BeardedLady_44
- Track 22 : Celeste_44
- Track 23 : Lannister_45
- Track 24 : Caelum_45
- Track 25 : Animus_43, SqueakyClean_43, GirlDinner_43, Janus_44
- Track 26 : Nishikigoi_45, Haizum_45
- Track 27 : TinaBelcher_43, Thestral_45
- Track 28 : Diane_43
- Track 29 : Triumph_46
- Track 30 : Puginator_46

- Track 31 : Omar_46
- Track 32 : R4_45
- Track 33 : Alvy_46, BartholomewSD_46
- Track 34 : Paedore_44, Loofah_45
- Track 35 : Pablito_44
- Track 36 : TrvxScott_42
- Track 37 : Paolo_46
- Track 38 : Zainub_46
- Track 39 : Amethyst_43
- Track 40 : Issmi_45
- Track 41 : Bowden_43
- Track 42 : Hank144_46
- Track 43 : Marav_47
- Track 44 : Axiom_45
- Track 45 : Jevington_46
- Track 46 : ELB20_43
- Track 47 : Tefunt_45
- Track 48 : Superstar_48
- Track 49 : Andris_44
- Track 50 : Daudau_44
- Track 51 : Provolone_44
- Track 52 : phiCAM_41
- Track 53 : Pavo_44, Conan_44, ElGato_44
- Track 54 : Vanseggelen_48
- Track 55 : Speedwell_48
- Track 56 : Celery_46
- Track 57 : Alsaber_44, Dexers_42, Kaine_43, Sudan_44
- Track 58 : ZamZam_45
- Track 59 : Saftant_43
- Track 60 : Yosif_46
- Track 61 : Verabelle_47
- Track 62 : Amela_43, Verse_43
- Track 63 : Jhitchelle_43
- Track 64 : phiHau3_45
- Track 65 : BroPlease_44
- Track 66 : GreenWeasel_45
- Track 67 : VieEnRose_45
- Track 68 : Urza_45, Itza_45, Celia_45
- Track 69 : Rileysaurus_26
- Track 70 : ATCC29399BC_26, ATCC29399BT_26, P100D_26, P107C_26
- Track 71 : Cota_26
- Track 72 : P106M_26, P106A_26, P106I_26, P106C_27, P106L_26
- Track 73 : PHL071N05_26
- Track 74 : LilBandit_26
- Track 75 : Stormborn_26
- Track 76 : P1.1_26
- Track 77 : PHL067M10_26
- Track 78 : Keiki_26, Pirate_26
- Track 79 : P9.1_26
- Track 80 : PHL114L00_26
- Track 81 : PAS50_27
- Track 82 : Ouroboros_26
- Track 83 : Supernova_26

- Track 84 : Enoki_26
- Track 85 : P100A_26
- Track 86 : Aquarius_26
- Track 87 : DrParker_26
- Track 88 : PHL111M01_26
- Track 89 : P107A_26
- Track 90 : Attacne_26
- Track 91 : Procrass1_26
- Track 92 : SKKY_26
- Track 93 : P100.1_26
- Track 94 : Lauchelly_26
- Track 95 : P101A_26
- Track 96 : PAD20_27
- Track 97 : BruceLethal_26
- Track 98 : MrAK_26
- Track 99 : MEAK_26
- Track 100 : PHL010M04_26
- Track 101 : PHL037M02_26
- Track 102 : PHL060L00_26
- Track 103 : Enochoraptor_26
- Track 104 : P104A_26
- Track 105 : PHL112N00_26
- Track 106 : Wizzo_26
- Track 107 : Solid_26
- Track 108 : P14.4_26
- Track 109 : QueenBey_26
- Track 110 : Kubed_26
- Track 111 : Moyashi_26
- Track 112 : P108C_26
- Track 113 : P105_26
- Track 114 : PHL113M01_26
- Track 115 : Leviosa_26
- Track 116 : P104B_26
- Track 117 : PA6_27
- Track 118 : Banquo_65, TinaLin_65
- Track 119 : Goib_66
- Track 120 : DinoDaryn_66, Huffy_66
- Track 121 : Splinter_66, Vendetta_66
- Track 122 : TZGordon_67
- Track 123 : Gspu1_57
- Track 124 : Dardanus_60
- Track 125 : Schmidt_60
- Track 126 : Catfish_66
- Track 127 : GodonK_75
- Track 128 : Phendrix_73
- Track 129 : Keelan_120
- Track 130 : Fryberger_119
- Track 131 : Ronaldo_120, Guey18_123, Volt_123
- Track 132 : Ziko_121
- Track 133 : Octobien14_112
- Track 134 : Sephiroth_112
- Track 135 : Kudefre_116
- Track 136 : Syleon_117

- Track 137 : Neville_113
- Track 138 : Rabbitrun_115
- Track 139 : LilJank_111
- Track 140 : Trax_115
- Track 141 : Buldak_30
- Track 142 : Squircle_30, Olliecat_30
- Track 143 : Ellewin_165
- Track 144 : KSunshine22_164, Artu_161
- Track 145 : Atuin_162
- Track 146 : Panchaali_171
- Track 147 : FrostedClock_173, Patbob_169, GoldenEssence_157, Bloom_174, FloraSnap32_167, Racecar_171, Mimi_170
- Track 148 : LeoJr_171, ReginaGlobina_175
- Track 149 : Talia1610_171
- Track 150 : Rockabye_174
- Track 151 : Emmetator_162
- Track 152 : Chilliamps_167
- Track 153 : Phrampa_163
- Track 154 : BooTeria_168, WaddleDee_155
- Track 155 : SJReid_174
- Track 156 : Stewart25555_159
- Track 157 : DunneganBoMo_159
- Track 158 : Omega_176, Superphikiman_166, Nibley_161, Ariel_168, BronnyJames_163, Courthouse_165, Hannaconda_160, Squint_163, Shaboozey_166, Gonephishing_161
- Track 159 : Phoebus_168, Odette_171, Kalah2_164, Ejimix_158, BAKA_173, Schatzie_162, ThreeRngTarjay_164, Dallas_167, Beem_168, Zelink_160, Optimus_166, Halley_168, Duke13_170, Wanda_165, Minerva_167, Xiaokay_163
- Track 160 : Klein_171, Hughesyang_166, Bagrid_176, EricMillard_165
- Track 161 : JuicyJay_162, Redno2_161, HokkenD_162, Bombitas_154, Dove_154, Yeet_159, NihilNomen_169
- Track 162 : LittleE_175, KashFlow_165, Porcelain_168, Lucky2013_164
- Track 163 : MiaZeal_171
- Track 164 : Nekros_166
- Track 165 : Constella_163, Thibault_151, Marleymoo_154
- Track 166 : Bobby_160
- Track 167 : Pound_161, DmpstrDiver_168
- Track 168 : Hidrated_160
- Track 169 : Rearden_167
- Track 170 : Pisa1_34, Pisa4_34
- Track 171 : Spock_35, Twitch_35, Llorens_35, Homura_35, Joy99_35, Dalmuri_35, Jeckyll_35, Peel_35, CREW_35, Topper_35, Rosmarinus_35, Inky_35, BGlluviae_35, Capricorn_35, CallaLilly_35, Jarvi_35
- Track 172 : Hyperbowlee_35, Padfoot_35, Asayake_35, CaseJules_35, Blizzard_35, BEEST_35, ShiaSurprise_35, Piatt_35, Durfee_35, Boiii_35
- Track 173 : Stinson_36
- Track 174 : Jayhawk_35, Slimphazie_35, Emerson_35, ActinUp_35, BarrelRoll_35, Padpat_35, HedwigODU_35, Atiba_35, Adephagia_35, Tachez_35, Zabiza_35, Beezoo_35, Rapunzel97_35
- Track 175 : Binglebops_31, Torres_31, Nikao_31, LilPharaoh_31, SgtBeansprout_31, Nutello_31, Mdavu_31, Teejan_31, Trice_31, Enkosi_31, Amelie_31
- Track 176 : Dole_35, Devera_35, LaterM_35, Illumine_35
- Track 177 : Anma_35, Urkel_35, SamuelLPlaqson_35, TiniBug_35, DrHayes_35

- Track 178 : LeMond_35, KiSi_35, Oscar_35
- Track 179 : Tiri_35
- Track 180 : MacKat_35, Clipper_35
- Track 181 : QuincyRose_34, MeaningOfLife_35, Ganymede_36
- Track 182 : Validus_35
- Track 183 : Ageofdapage_35, Bella96_35, Murucutumbu_35, DartGoblin_35
- Track 184 : Scarlett_35
- Track 185 : Niklas_35, Shaobing_35
- Track 186 : McMater_35, Richo_35, Dartin_35, Peanam_35
- Track 187 : Apocalypse_35
- Track 188 : TaiwanKao_36, Megsy_35
- Track 189 : Sulley_35, Angelica_35, Deby_35
- Track 190 : JAWS_35, Mynx_35, Zavala_35, Geraldini_35, Ramen_35, Pokerus_34
- Track 191 : Adonis_35
- Track 192 : Bern_35
- Track 193 : TingHuaYa_35
- Track 194 : Anaya_36
- Track 195 : Guanica15_35
- Track 196 : Curiosium_36
- Track 197 : Veliki_35
- Track 198 : Yunkel11_35, Efra2_35
- Track 199 : TruffulaTree_35
- Track 200 : Prithvi_35, LindNT_35, TreyKay_35
- Track 201 : CrimD_35
- Track 202 : LastHope_35
- Track 203 : Chris_35
- Track 204 : Belladonna_35
- Track 205 : CheetoDust_35
- Track 206 : Nibb_34
- Track 207 : LunaHalos_35
- Track 208 : MarkPhew_36
- Track 209 : AlishaPH_35
- Track 210 : BaghaKamala_35
- Track 211 : Chavito_35
- Track 212 : YoureAdopted_34
- Track 213 : Doughnut_35, Mufasa_35
- Track 214 : TM4_36
- Track 215 : DismalStressor_34, Marcoliusprime_34, DismalFunk_34
- Track 216 : Findley_34, Strobilo_34
- Track 217 : ZoeJ_34
- Track 218 : Milly_34
- Track 219 : BoostSeason_35
- Track 220 : Keshu_36
- Track 221 : ShedlockHolmes_36
- Track 222 : Pharb_34
- Track 223 : TribbleTrouble_34
- Track 224 : Hurricane_36
- Track 225 : Lea83_36
- Track 226 : MacnCheese_36
- Track 227 : Pixie_35, TBond007_35
- Track 228 : Mitti_36, Wintermute_36, Cheetobro_36, Eponine_38, Chancellor_36, SamScheppers_36, Slarp_36, Lebo14_36, OmniCritical_36, DanSyl44_39
- Track 229 : YasnayaPolyana_36

- Track 230 : Malthus_37, JF1_36, Ruthiejr_37, Y10_36, Kraw_36, Fionnbharth_36, Y2_36, Juliette_38
- Track 231 : Patt_36, Bobquesha_37, MissDaisy_36, Reptar3000_36
- Track 232 : Taquito_36
- Track 233 : Paola_34, Guillsminger_34, Leston_34
- Track 234 : Collard_34, BananenDer11_34, DoubleChamp_34, InvictusManeo_34, ViviJ_33, Agent47_34
- Track 235 : Psycho_35, Larva_35, Neighly_35, Dadosky_35, AlleyCat_35
- Track 236 : Feyre_34, OkiRoe_34
- Track 237 : Waterfoul_34
- Track 238 : Omnicron_35
- Track 239 : Gengar_34
- Track 240 : SoSeph_34, Heftyboy_34
- Track 241 : Edugator_34
- Track 242 : Thyatira_34
- Track 243 : Rando14_35
- Track 244 : Miryou_34
- Track 245 : Kratio_33
- Track 246 : Krueger_35, Tigress9_36
- Track 247 : Bryler_35, Phrank_35, Tierra_35, Cain_35
- Track 248 : Sunflower1121_34
- Track 249 : November_33
- Track 250 : Marshawn_37
- Track 251 : SirPhilip_34
- Track 252 : Applecrisp_33, Ellie_32
- Track 253 : Lavahound_33, Amgine_33
- Track 254 : Fefferhead_34
- Track 255 : DarthP_34
- Track 256 : Ximenita_36
- Track 257 : Amohnition_34
- Track 258 : Unicorn_35, PhelpsODU_35
- Track 259 : Hammy_34
- Track 260 : Ekdilam_32
- Track 261 : Yuna_36
- Track 262 : Shadow1_34
- Track 263 : TClif_36
- Track 264 : Syra333_35
- Track 265 : Aminay_36
- Track 266 : Boilgate_32
- Track 267 : Laure_171
- Track 268 : Gilgamesh_55
- Track 269 : Yappy_76
- Track 270 : Jace_84
- Track 271 : Footloose_65
- Track 272 : DS6A_36

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

The start number called the most often in the published annotations is 46, it was called in 201 of the 435 non-draft genes in the pham.

Genes that call this "Most Annotated" start:

- ActinUp_35, Adephagia_35, Adonis_35, Agent47_34, Ageofdapage_35, AlleyCat_35, Amelie_31, Amgine_33, Aminay_36, Amohnition_34, Anaya_36, Angelica_35, Anma_35, Apocalypse_35, Applecrisp_33, Asayake_35, Atiba_35, BEEST_35, BGlluvia_35, BaghaKamala_35, BananenDer11_34, BarrelRoll_35, Beezoo_35, Bella96_35, Belladonna_35, Bern_35, Biglebops_31, Blizzard_35, Bobquesha_37, Boiii_35, Boilgate_32, BoostSeason_35, Bryler_35, CREW_35, Cain_35, CallaLilly_35, Capricorn_35, CaseJules_35, Chancellor_36, Chavito_35, CheetoDust_35, Cheetobro_36, Chris_35, Clipper_35, Collard_34, CrimD_35, Curiosium_36, DS6A_36, Dadosky_35, Dalmuri_35, DanSyl44_39, DartGoblin_35, DarthP_34, Dartin_35, Deby_35, Devera_35, DismalFunk_34, DismalStressor_34, Dole_35, DoubleChamp_34, Doughnut_35, DrHayes_35, Durfee_35, Edugator_34, Efra2_35, Ekdilam_32, Ellie_32, Emerson_35, Enkosi_31, Eponine_38, Fefferhead_34, Feyre_34, Findley_34, Fionnbharth_36, Ganymede_36, Gengar_34, Geraldini_35, Guanica15_35, Guillsminger_34, Hammy_34, HedwigODU_35, Heftyboy_34, Homura_35, Hurricane_36, Hyperbowlee_35, Illumine_35, Inky_35, InvictusManeo_34, JAWS_35, JF1_36, Jarvi_35, Jayhawk_35, Jeckyll_35, Joy99_35, Juliette_38, Keshu_36, KiSi_35, Kratio_33, Kraw_36, Krueger_35, Larva_35, LastHope_35, LaterM_35, Lavahound_33, LeMond_35, Lea83_36, Lebo14_36, Leston_34, LilPharaoh_31, LindNT_35, Llorens_35, Lunahalos_35, MacKat_35, MacnCheese_36, MalagasyRose_35, Malthus_37, Marcoliusprime_34, MarkPhew_36, Marshawn_37, McMatr_35, Mdavu_31, MeaningOfLife_35, Megsy_35, Milly_34, Miryou_34, MissDaisy_36, Mitti_36, Mufasa_35, Murucutumbu_35, Mynx_35, Neighly_35, Nergal_31, Nibb_34, Nikao_31, Niklas_35, November_33, Nutello_31, OkiRoe_34, OmniCritical_36, Omnicron_35, Oscar_35, Padfoot_35, Padpat_35, Paola_34, Patt_36, Peanam_35, Peel_35, Pharb_34, PhelpsODU_35, Phrank_35, Piatt_35, Pisa1_34, Pisa4_34, Pixie_35, Pokerus_34, Prithvi_35, Psycho_35, QuincyRose_34, Ramen_35, Rando14_35, Rapunzel97_35, Reptar3000_36, Richo_35, Rosmarinus_35, Ruthiejr_37, SamScheppers_36, SamuelLPlaqson_35, Scarlett_35, SgtBeansprout_31, Shadow1_34, Shaobing_35, ShedlockHolmes_36, ShiaSurprise_35, SirPhilip_34, Slarp_36, Slimphazie_35, SoSeph_34, Spock_35, Stinson_36, Strobilo_34, Sulley_35, Sunflower1121_34, Syra333_35, TBond007_35, TClif_36, TM4_36, Tachez_35, TaiwanKao_36, Taquito_36, Teejan_31, Thyatira_34, Tierra_35, Tigress9_36, TingHuaYa_35, TiniBug_35, Tiri_35, Topper_35, Torres_31, TreyKay_35, TribbleTrouble_34, Trice_31, TruffulaTree_35, Twitch_35, Unicorn_35, Urkel_35, Validus_35, Veliki_35, ViviJ_33, Waterfoul_34, Wintermute_36, Ximenita_36, Y10_36, Y2_36, YasnayaPolyana_36, YoureAdopted_34, Yuna_36, Yunkel11_35, Zabiza_35, Zavala_35, ZoeJ_34,

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

- AlishaPH_35,

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

- ATCC29399BC_26, ATCC29399BT_26, Aaronocolus_43, Alsaber_44, Alvy_46, Amela_43, Amethyst_43, Andris_44, Animus_43, Aquarius_26, Ariel_168, Artu_161, Asten_43, Attacne_26, Atuin_162, Axiom_45, BAKA_173, Bagrid_176, Banquo_65, BarryBee_46, BartholomewSD_46, BeardedLady_44, Beem_168, Bloom_174, Bobby_160, Bombitas_154, BooTeria_168, Bovely_43, Bowden_43, Brataylor_46, BroPlease_44, BronnyJames_163, BruceLethal_26, BryanRecycles_44, Buldak_30, Caelum_45, Caliburn_43, Catfish_66, Celery_46, Celeste_44, Celia_45, Chilliams_167, Chucky_43, Conan_44, Constella_163, Cota_26, Courthouse_165, Dallas_167, Danzina_45, Dardanus_60, Dattran_45, Daudau_44, Dexers_42,

Diane_43, DinoDaryn_66, DmpstrDiver_168, Dove_154, DrParker_26, Duke13_170, DunneganBoMo_159, Dwayne_43, ELB20_43, Eddasa_44, Ejemplo_42, Ejimix_158, ElGato_44, Ellewin_165, Emaanora_46, Emmetator_162, EnochSoames_46, Enochoraptor_26, Enoki_26, EricMillard_165, Esperer_43, FloraSnap32_167, Footloose_65, FrostedClock_173, Fryberger_119, Gilgamesh_55, GirlDinner_43, Goby_43, GodonK_75, Godpower_44, Goib_66, GoldenEssence_157, Gonephishing_161, GreenWeasel_45, Gspu1_57, Guey18_123, Haizum_45, Halley_168, Hank144_46, Hannaconda_160, Hidrated_160, Hippo_43, HokkenD_162, Huffy_66, Hughesyang_166, Hydra_45, Indigo_42, Issmi_45, Itza_45, Izzy_44, Jace_84, Janus_44, Jash_44, Jevington_46, Jhitchelle_43, JuicyJay_162, KSunshine22_164, Kaine_43, Kalah2_164, KashFlow_165, Katalie_43, Keelan_120, Keiki_26, Klein_171, Kubed_26, Kudfre_116, Lannister_45, Lauchelly_26, Laure_171, Legacy_43, LeoJr_171, Leviosa_26, Leviticus_43, Lika_43, LilBandit_26, LilJank_111, LittleE_175, Loofah_45, Lorelei_44, Lucky2013_164, MEAK_26, Maneekul_43, Marav_47, Marleymoo_154, MiaZeal_171, Mimi_170, Minerva_167, Moyashi_26, MrAK_26, Nabi_44, Nanodon_45, Nekros_166, Nerdos_42, Neville_113, Nibley_161, NihilNomen_169, Nishikigoi_45, Octobien14_112, Odette_171, Oliynyk_44, Olliecat_30, Omar_46, Omega_176, Optimus_166, Ouroboros_26, Ozzie_43, OzzyJ_44, P1.1_26, P100.1_26, P100A_26, P100D_26, P101A_26, P104A_26, P104B_26, P105_26, P106A_26, P106C_27, P106I_26, P106L_26, P106M_26, P107A_26, P107C_26, P108C_26, P14.4_26, P9.1_26, PA6_27, PAD20_27, PAS50_27, PHL010M04_26, PHL037M02_26, PHL060L00_26, PHL067M10_26, PHL071N05_26, PHL111M01_26, PHL112N00_26, PHL113M01_26, PHL114L00_26, Pablito_44, Paedore_44, Panchaali_171, Paolo_46, Patbob_169, Pavo_44, Phendrix_73, Phettuccine_43, Phoebus_168, Phrampa_163, Pirate_26, Porcelain_168, Pound_161, Procrass1_26, Provolone_44, Puginator_46, QueenBey_26, R4_45, Rabbitrun_115, Racecar_171, Rana_44, Rearden_167, RedBear_44, Redno2_161, ReginaGlobina_175, Rileysaurus_26, Rockabye_174, Ronaldo_120, Rusticus_44, SJReid_174, SKKY_26, Saftant_43, SarahRose_43, Schatzie_162, Schmidt_60, Sephiroth_112, Shaboozey_166, Snorlax_43, Solid_26, South40_43, Speedwell_48, Splinter_66, SqueakyClean_43, Squint_163, Squircle_30, Stewart25555_159, Stormborn_26, Sudan_44, Sujidade_44, SunsetPointe_43, Supernova_26, Superphikiman_166, Superstar_48, Syleon_117, TZGordon_67, TagePhighter_45, Talia1610_171, Tefunt_45, Thestral_45, Thibault_151, ThreeRngTarjay_164, TinaBelcher_43, TinaLin_65, Toma_43, Trax_115, Triste_43, Triumph_46, TrvxScott_42, TuanPN_42, Unstoppable_43, Urza_45, Vanseggelen_48, Vendetta_66, Verabelle_47, Verse_43, VieEnRose_45, Volt_123, WaddleDee_155, Wanda_165, Werner_43, Whatever_43, Wizzo_26, Xiaokay_163, Yappy_76, Yasdnal_43, Yeet_159, Yosif_46, Zainub_46, ZamZam_45, Zelink_160, Zemlya_45, Ziko_121, phiCAM_41, phiHau3_45,

Summary by start number:

Start 12:

- Found in 14 of 505 (2.8%) of genes in pham
- No Manual Annotations of this start.
- Called 7.1% of time when present
- Phage (with cluster) where this start called: Emmetator_162 (FC),

Start 13:

- Found in 15 of 505 (3.0%) of genes in pham
- Manual Annotations of this start: 4 of 435
- Called 86.7% of time when present

- Phage (with cluster) where this start called: Artu_161 (FC), Atuin_162 (FC), BooTeria_168 (FC), Chilliams_167 (FC), DunneganBoMo_159 (FC), Ellewin_165 (FC), KSunshine22_164 (FC), LeoJr_171 (FC), Panchaali_171 (FC), ReginaGlobina_175 (FC), Rockabye_174 (FC), SJReid_174 (FC), WaddleDee_155 (FC),

Start 16:

- Found in 1 of 505 (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: Stewart25555_159 (FC),

Start 21:

- Found in 10 of 505 (2.0%) of genes in pham
- Manual Annotations of this start: 4 of 435
- Called 90.0% of time when present
- Phage (with cluster) where this start called: Bloom_174 (FC), FloraSnap32_167 (FC), FrostedClock_173 (FC), GoldenEssence_157 (FC), Mimi_170 (FC), Patbob_169 (FC), Phrampa_163 (FC), Racecar_171 (FC), Talia1610_171 (FC),

Start 27:

- Found in 3 of 505 (0.6%) of genes in pham
- Manual Annotations of this start: 3 of 435
- Called 100.0% of time when present
- Phage (with cluster) where this start called: Buldak_30 (EB), Olliecat_30 (EB), Squirrel_30 (EB),

Start 32:

- Found in 1 of 505 (0.2%) of genes in pham
- Manual Annotations of this start: 1 of 435
- Called 100.0% of time when present
- Phage (with cluster) where this start called: Yappy_76 (singleton),

Start 38:

- Found in 34 of 505 (6.7%) of genes in pham
- Manual Annotations of this start: 1 of 435
- Called 2.9% of time when present
- Phage (with cluster) where this start called: AlishaPH_35 (K1),

Start 46:

- Found in 221 of 505 (43.8%) of genes in pham
- Manual Annotations of this start: 201 of 435
- Called 99.5% of time when present
- Phage (with cluster) where this start called: ActinUp_35 (K1), Adephagia_35 (K1), Adonis_35 (K1), Agent47_34 (K5), Ageofdapage_35 (K1), AlleyCat_35 (K5), Amelie_31 (K1), Amgine_33 (K6), Aminay_36 (K7), Amohnition_34 (K6), Anaya_36 (K1), Angelica_35 (K1), Anma_35 (K1), Apocalypse_35 (K1), Applecrisp_33 (K6), Asayake_35 (K1), Atiba_35 (K1), BEEST_35 (K1), BGlluviae_35 (K1), BaghaKamala_35 (K1), BananenDer11_34 (K5), BarrelRoll_35 (K1), Beezoo_35 (K1), Bella96_35 (K1), Belladonna_35 (K1), Bern_35 (K1), Binglebops_31 (K1), Blizzard_35 (K1), Bobquesha_37 (K4), Boiii_35 (K1), Boilgate_32 (K8), BoostSeason_35 (K2), Bryler_35 (K6), CREW_35 (K1), Cain_35 (K6), CallaLilly_35 (K1), Capricorn_35 (K1), CaseJules_35 (K1), Chancellor_36 (K4), Chavito_35 (K1), CheetoDust_35 (K1),

Cheetobro_36 (K4), Chris_35 (K1), Clipper_35 (K1), Collard_34 (K5), CrimD_35 (K1), Curiosium_36 (K1), DS6A_36 (singleton), Dadosky_35 (K5), Dalmuri_35 (K1), DanSyl44_39 (K4), DartGoblin_35 (K1), DarthP_34 (K6), Dartin_35 (K1), Deby_35 (K1), Devera_35 (K1), DismalFunk_34 (K2), DismalStressor_34 (K2), Dole_35 (K1), DoubleChamp_34 (K5), Doughnut_35 (K2), DrHayes_35 (K1), Durfee_35 (K1), Edugator_34 (K5), Efra2_35 (K1), Ekdilam_32 (K6), Ellie_32 (K6), Emerson_35 (K1), Enkosi_31 (K1), Eponine_38 (K4), Fefferhead_34 (K6), Feyre_34 (K5), Findley_34 (K2), Fionnbharth_36 (K4), Ganymede_36 (K1), Gengar_34 (K5), Geraldini_35 (K1), Guanica15_35 (K1), Guillsminger_34 (K5), Hammy_34 (K6), HedwigODU_35 (K1), Heftyboy_34 (K5), Homura_35 (K1), Hurricane_36 (K3), Hyperbowlee_35 (K1), Illumine_35 (K1), Inky_35 (K1), InvictusManeo_34 (K5), JAWS_35 (K1), JF1_36 (K4), Jarvi_35 (K1), Jayhawk_35 (K1), Jeckyll_35 (K1), Joy99_35 (K1), Juliette_38 (K4), Keshu_36 (K3), KiSi_35 (K1), Kratio_33 (K5), Kraw_36 (K4), Krueger_35 (K6), Larva_35 (K5), LastHope_35 (K1), LaterM_35 (K1), Lavahound_33 (K6), LeMond_35 (K1), Lea83_36 (K3), Lebo14_36 (K4), Leston_34 (K5), LilPharaoh_31 (K1), LindNT_35 (K1), Llorens_35 (K1), Lunahalos_35 (K1), MacKat_35 (K1), MacnCheese_36 (K3), MalagasyRose_35 (AG), Malthus_37 (K4), Marcoliusprime_34 (K2), MarkPheW_36 (K1), Marshawn_37 (K6), McMater_35 (K1), Mdavu_31 (K1), MeaningOfLife_35 (K1), Megsy_35 (K1), Milly_34 (K2), Miryou_34 (K5), MissDaisy_36 (K4), Mitti_36 (K4), Mufasa_35 (K2), Murucutumbu_35 (K1), Mynx_35 (K1), Neighly_35 (K3), Nergal_31 (AG), Nibb_34 (K1), Nikao_31 (K1), Niklas_35 (K1), November_33 (K6), Nutello_31 (K1), OkiRoe_34 (K5), OmniCritical_36 (K4), Omnicron_35 (K5), Oscar_35 (K1), Padfoot_35 (K1), Padpat_35 (K1), Paola_34 (K5), Patt_36 (K4), Peanam_35 (K1), Peel_35 (K1), Pharb_34 (K3), PhelpsODU_35 (K6), Phrank_35 (K6), Piatt_35 (K1), Pisa1_34 (K1), Pisa4_34 (K1), Pixie_35 (K3), Pokerus_34 (K1), Prithvi_35 (K1), Psycho_35 (K5), QuincyRose_34 (K1), Ramen_35 (K1), Rando14_35 (K5), Rapunzel97_35 (K1), Reptar3000_36 (K4), Richo_35 (K1), Rosmarinus_35 (K1), Ruthiejr_37 (K4), SamScheppers_36 (K4), SamuelLPlaqson_35 (K1), Scarlett_35 (K1), SgtBeansprout_31 (K1), Shadow1_34 (K6), Shaobing_35 (K1), ShedlockHolmes_36 (K3), ShiaSurprise_35 (K1), SirPhilip_34 (K6), Slarp_36 (K4), Slimphazie_35 (K1), SoSeph_34 (K5), Spock_35 (K1), Stinson_36 (K1), Strobilo_34 (K2), Sulley_35 (K1), Sunflower1121_34 (K6), Syra333_35 (K6), TBond007_35 (K3), TClif_36 (K6), TM4_36 (K2), Tachez_35 (K1), TaiwanKao_36 (K1), Taquito_36 (K4), Teejan_31 (K1), Thyatira_34 (K5), Tierra_35 (K6), Tigress9_36 (K6), TingHuaYa_35 (K1), TiniBug_35 (K1), Tiri_35 (K1), Topper_35 (K1), Torres_31 (K1), TreyKay_35 (K1), TripleTrouble_34 (K3), Trice_31 (K1), TruffulaTree_35 (K1), Twitch_35 (K1), Unicorn_35 (K6), Urkel_35 (K1), Validus_35 (K1), Veliki_35 (K1), ViviJ_33 (K5), Waterfoul_34 (K5), Wintermute_36 (K4), Ximenita_36 (K6), Y10_36 (K4), Y2_36 (K4), YasnayaPolyana_36 (K4), YoureAdopted_34 (K1), Yuna_36 (K6), Yunkel11_35 (K1), Zabiza_35 (K1), Zavala_35 (K1), ZoeJ_34 (K2),

Start 47:

- Found in 2 of 505 (0.4%) of genes in pham
- Manual Annotations of this start: 1 of 435
- Called 50.0% of time when present
- Phage (with cluster) where this start called: Phendrix_73 (DK),

Start 49:

- Found in 50 of 505 (9.9%) of genes in pham
- Manual Annotations of this start: 39 of 435
- Called 100.0% of time when present

- Phage (with cluster) where this start called: Ariel_168 (J), BAKA_173 (J), Bagrid_176 (J), Beem_168 (J), Bombitas_154 (J), BronnyJames_163 (J), Constella_163 (J), Courthouse_165 (J), Dallas_167 (J), DmpstrDiver_168 (J), Dove_154 (J), Duke13_170 (J), Ejimix_158 (J), EricMillard_165 (J), Gonephishing_161 (J), Halley_168 (J), Hannaconda_160 (J), Hidrated_160 (J), HokkenD_162 (J), Hughesyang_166 (J), JuicyJay_162 (J), Kalah2_164 (J), KashFlow_165 (J), Klein_171 (J), LittleE_175 (J), Lucky2013_164 (J), Marleymoo_154 (J), MiaZeal_171 (J), Minerva_167 (J), Nekros_166 (J), Nibley_161 (J), NihilNomen_169 (J), Odette_171 (J), Omega_176 (J), Optimus_166 (J), Phoebus_168 (J), Porcelain_168 (J), Pound_161 (J), Rearden_167 (J), Redno2_161 (J), Schatzie_162 (J), Shaboozey_166 (J), Squint_163 (J), Superphikiman_166 (J), Thibault_151 (J), ThreeRngTarjay_164 (J), Wanda_165 (J), Xiaokay_163 (J), Yeet_159 (J), Zelink_160 (J),

Start 55:

- Found in 2 of 505 (0.4%) of genes in pham
- Manual Annotations of this start: 1 of 435
- Called 50.0% of time when present
- Phage (with cluster) where this start called: GodonK_75 (DK),

Start 57:

- Found in 1 of 505 (0.2%) of genes in pham
- Manual Annotations of this start: 1 of 435
- Called 100.0% of time when present
- Phage (with cluster) where this start called: Gilgamesh_55 (singleton),

Start 58:

- Found in 1 of 505 (0.2%) of genes in pham
- Manual Annotations of this start: 1 of 435
- Called 100.0% of time when present
- Phage (with cluster) where this start called: Bobby_160 (J),

Start 65:

- Found in 104 of 505 (20.6%) of genes in pham
- Manual Annotations of this start: 96 of 435
- Called 99.0% of time when present
- Phage (with cluster) where this start called: Aaronocolus_43 (BD1), Alsaber_44 (BD3), Alvy_46 (BD2), Amela_43 (BD3), Amethyst_43 (BD2), Andris_44 (BD2), Animus_43 (BD2), Asten_43 (BD1), Axiom_45 (BD2), BarryBee_46 (BD1), BartholomewSD_46 (BD2), BeardedLady_44 (BD1), Bovely_43 (BD1), Bowden_43 (BD2), Brataylor_46 (BD1), BroPlease_44 (BD4), Caelum_45 (BD2), Caliburn_43 (BD1), Celery_46 (BD3), Celeste_44 (BD1), Chucky_43 (BD1), Conan_44 (BD3), Danzina_45 (BD1), Dattran_45 (BD1), Daudau_44 (BD2), Dexers_42 (BD3), Diane_43 (BD2), Dwayne_43 (BD1), ELB20_43 (BD2), Ejemplo_42 (BD1), ElGato_44 (BD3), Emaanora_46 (BD1), Esperer_43 (BD1), GirlDinner_43 (BD2), Goby_43 (BD1), Godpower_44 (BD1), GreenWeasel_45 (BD4), Haizum_45 (BD2), Hank144_46 (BD2), Hippo_43 (BD1), Hydra_45 (BD1), Indigo_42 (BD1), Issmi_45 (BD2), Janus_44 (BD2), Jevington_46 (BD2), Jhitchelle_43 (BD3), Kaine_43 (BD3), Katalie_43 (BD1), Lannister_45 (BD1), Legacy_43 (BD1), Leviticus_43 (BD1), Lika_43 (BD1), Loofah_45 (BD2), Lorelei_44 (BD1), Maneekul_43 (BD1), Marav_47 (BD2), Nabi_44 (BD1), Nanodon_45 (BD1), Nerdos_42 (BD1), Nishikigoi_45 (BD2), Omar_46 (BD2), Ozzie_43 (BD1), OzzyJ_44 (BD1), Pablito_44 (BD2), Paedore_44 (BD2), Paolo_46 (BD2), Pavo_44 (BD3), Phettuccine_43 (BD1), Provolone_44 (BD3),

Puginator_46 (BD2), R4_45 (BD2), Rana_44 (BD1), RedBear_44 (BD1), Saftant_43 (BD3), SarahRose_43 (BD1), Snorlax_43 (BD1), South40_43 (BD1), Speedwell_48 (BD3), SqueakyClean_43 (BD2), Sudan_44 (BD3), Sujidade_44 (BD1), SunsetPointe_43 (BD1), Superstar_48 (BD2), TagePhighter_45 (BD1), Tefunt_45 (BD2), Thestral_45 (BD2), TinaBelcher_43 (BD2), Toma_43 (BD1), Triste_43 (BD1), Triumph_46 (BD2), TrvxScott_42 (BD2), TuanPN_42 (BD1), Unstoppable_43 (BD1), Vanseggelen_48 (BD3), Verabelle_47 (BD3), Verse_43 (BD3), Werner_43 (BD1), Whatever_43 (BD1), Yasdnil_43 (BD1), Zainub_46 (BD2), ZamZam_45 (BD3), Zemlya_45 (BD1), phiHau3_45 (BD4),

Start 66:

- Found in 5 of 505 (1.0%) of genes in pham
- Manual Annotations of this start: 5 of 435
- Called 100.0% of time when present
- Phage (with cluster) where this start called: Celia_45 (BD6), Itza_45 (BD6), Urza_45 (BD6), VieEnRose_45 (BD6), Yosif_46 (BD3),

Start 69:

- Found in 7 of 505 (1.4%) of genes in pham
- Manual Annotations of this start: 6 of 435
- Called 100.0% of time when present
- Phage (with cluster) where this start called: BryanRecycles_44 (BD1), Eddasa_44 (BD1), EnochSoames_46 (BD1), Izzy_44 (BD1), Jash_44 (BD1), Oliynyk_44 (BD1), Rusticus_44 (BD1),

Start 72:

- Found in 3 of 505 (0.6%) of genes in pham
- No Manual Annotations of this start.
- Called 33.3% of time when present
- Phage (with cluster) where this start called: Laure_171 (UNK),

Start 75:

- Found in 18 of 505 (3.6%) of genes in pham
- Manual Annotations of this start: 1 of 435
- Called 5.6% of time when present
- Phage (with cluster) where this start called: Footloose_65 (singleton),

Start 76:

- Found in 1 of 505 (0.2%) of genes in pham
- Manual Annotations of this start: 1 of 435
- Called 100.0% of time when present
- Phage (with cluster) where this start called: Jace_84 (singleton),

Start 77:

- Found in 8 of 505 (1.6%) of genes in pham
- Manual Annotations of this start: 7 of 435
- Called 100.0% of time when present
- Phage (with cluster) where this start called: Kudrefre_116 (DU1), LilJank_111 (DU2), Neville_113 (DU2), Octobien14_112 (DU1), Rabbitrün_115 (DU2), Sephiroth_112 (DU1), Syleon_117 (DU1), Trax_115 (DU2),

Start 80:

- Found in 14 of 505 (2.8%) of genes in pham

- Manual Annotations of this start: 11 of 435
- Called 85.7% of time when present
- Phage (with cluster) where this start called: Banquo_65 (CU1), Catfish_66 (CU5), Dardanus_60 (CU3), DinoDaryn_66 (CU1), Goib_66 (CU1), Gsput1_57 (CU2), Huffy_66 (CU1), Schmidt_60 (CU4), Splinter_66 (CU1), TZGordon_67 (CU1), TinaLin_65 (CU1), Vendetta_66 (CU1),

Start 84:

- Found in 6 of 505 (1.2%) of genes in pham
- Manual Annotations of this start: 6 of 435
- Called 100.0% of time when present
- Phage (with cluster) where this start called: Fryberger_119 (DP), Guey18_123 (DP), Keelan_120 (DP), Ronaldo_120 (DP), Volt_123 (DP), Ziko_121 (DP),

Start 110:

- Found in 96 of 505 (19.0%) of genes in pham
- Manual Annotations of this start: 45 of 435
- Called 59.4% of time when present
- Phage (with cluster) where this start called: ATCC29399BC_26 (BU), ATCC29399BT_26 (BU), Aquarius_26 (BU), Attacne_26 (BU), BruceLethal_26 (BU), Cota_26 (BU), DrParker_26 (BU), Enochoraptor_26 (BU), Enoki_26 (BU), Keiki_26 (BU), Kubed_26 (BU), Lauchelly_26 (BU), Leviosa_26 (BU), LilBandit_26 (BU), MEAK_26 (BU), Moyashi_26 (BU), MrAK_26 (BU), Ouroboros_26 (BU), P1.1_26 (BU), P100.1_26 (BU), P100A_26 (BU), P100D_26 (BU), P101A_26 (BU), P104A_26 (BU), P104B_26 (BU), P105_26 (BU), P106A_26 (BU), P106C_27 (BU), P106I_26 (BU), P106L_26 (BU), P106M_26 (BU), P107A_26 (BU), P107C_26 (BU), P108C_26 (BU), P14.4_26 (BU), P9.1_26 (BU), PA6_27 (BU), PAD20_27 (BU), PAS50_27 (BU), PHL010M04_26 (BU), PHL037M02_26 (BU), PHL060L00_26 (BU), PHL067M10_26 (BU), PHL071N05_26 (BU), PHL111M01_26 (BU), PHL112N00_26 (BU), PHL113M01_26 (BU), PHL114L00_26 (BU), Pirate_26 (BU), Procrass1_26 (BU), QueenBey_26 (BU), Rileysaurus_26 (BU), SKKY_26 (BU), Solid_26 (BU), Stormborn_26 (BU), Supernova_26 (BU), Wizzo_26 (BU),

Start 146:

- Found in 116 of 505 (23.0%) of genes in pham
- No Manual Annotations of this start.
- Called 0.9% of time when present
- Phage (with cluster) where this start called: phiCAM_41 (BD3),

Summary by clusters:

There are 29 clusters represented in this pham: singleton, DK, K3, BU, K1, FC, K7, K6, K5, K4, K8, DP, CU5, CU4, CU3, CU2, CU1, BD4, BD6, BD1, BD3, BD2, DU1, DU2, AG, J, EB, UNK, K2,

Info for manual annotations of cluster AG:

- Start number 46 was manually annotated 2 times for cluster AG.

Info for manual annotations of cluster BD1:

- Start number 65 was manually annotated 49 times for cluster BD1.
- Start number 69 was manually annotated 6 times for cluster BD1.

Info for manual annotations of cluster BD2:

- Start number 65 was manually annotated 33 times for cluster BD2.

Info for manual annotations of cluster BD3:

- Start number 65 was manually annotated 11 times for cluster BD3.
- Start number 66 was manually annotated 1 time for cluster BD3.

Info for manual annotations of cluster BD4:

- Start number 65 was manually annotated 3 times for cluster BD4.

Info for manual annotations of cluster BD6:

- Start number 66 was manually annotated 4 times for cluster BD6.

Info for manual annotations of cluster BU:

- Start number 110 was manually annotated 45 times for cluster BU.

Info for manual annotations of cluster CU1:

- Start number 80 was manually annotated 8 times for cluster CU1.

Info for manual annotations of cluster CU3:

- Start number 80 was manually annotated 1 time for cluster CU3.

Info for manual annotations of cluster CU4:

- Start number 80 was manually annotated 1 time for cluster CU4.

Info for manual annotations of cluster CU5:

- Start number 80 was manually annotated 1 time for cluster CU5.

Info for manual annotations of cluster DK:

- Start number 47 was manually annotated 1 time for cluster DK.
- Start number 55 was manually annotated 1 time for cluster DK.

Info for manual annotations of cluster DP:

- Start number 84 was manually annotated 6 times for cluster DP.

Info for manual annotations of cluster DU1:

- Start number 77 was manually annotated 4 times for cluster DU1.

Info for manual annotations of cluster DU2:

- Start number 77 was manually annotated 3 times for cluster DU2.

Info for manual annotations of cluster EB:

- Start number 27 was manually annotated 3 times for cluster EB.

Info for manual annotations of cluster FC:

- Start number 13 was manually annotated 4 times for cluster FC.
- Start number 21 was manually annotated 4 times for cluster FC.

Info for manual annotations of cluster J:

- Start number 49 was manually annotated 39 times for cluster J.
- Start number 58 was manually annotated 1 time for cluster J.

Info for manual annotations of cluster K1:

- Start number 38 was manually annotated 1 time for cluster K1.
- Start number 46 was manually annotated 107 times for cluster K1.

Info for manual annotations of cluster K2:

- Start number 46 was manually annotated 11 times for cluster K2.

Info for manual annotations of cluster K3:

- Start number 46 was manually annotated 9 times for cluster K3.

Info for manual annotations of cluster K4:

- Start number 46 was manually annotated 22 times for cluster K4.

Info for manual annotations of cluster K5:

- Start number 46 was manually annotated 23 times for cluster K5.

Info for manual annotations of cluster K6:

- Start number 46 was manually annotated 24 times for cluster K6.

Info for manual annotations of cluster K7:

- Start number 46 was manually annotated 1 time for cluster K7.

Info for manual annotations of cluster K8:

- Start number 46 was manually annotated 1 time for cluster K8.

Gene Information:

Gene: ATCC29399BC_26 Start: 19311, Stop: 18265, Start Num: 110

Candidate Starts for ATCC29399BC_26:

(67, 19422), (Start: 110 @19311 has 45 MA's), (234, 18876), (237, 18861), (245, 18819), (251, 18792), (253, 18786), (254, 18783), (258, 18768), (278, 18663), (295, 18576), (300, 18558), (319, 18447), (333, 18378), (340, 18318),

Gene: ATCC29399BT_26 Start: 19311, Stop: 18265, Start Num: 110

Candidate Starts for ATCC29399BT_26:

(67, 19422), (Start: 110 @19311 has 45 MA's), (234, 18876), (237, 18861), (245, 18819), (251, 18792), (253, 18786), (254, 18783), (258, 18768), (278, 18663), (295, 18576), (300, 18558), (319, 18447), (333, 18378), (340, 18318),

Gene: Aaronococcus_43 Start: 29213, Stop: 30403, Start Num: 65

Candidate Starts for Aaronococcus_43:

(40, 29150), (Start: 65 @29213 has 96 MA's), (90, 29261), (111, 29327), (138, 29414), (146, 29447), (198, 29630), (218, 29720), (252, 29861), (253, 29864), (257, 29876), (265, 29912), (269, 29921), (271, 29945), (276, 29966), (297, 30089), (298, 30092), (315, 30200), (333, 30290), (352, 30392),

Gene: ActinUp_35 Start: 28362, Stop: 29570, Start Num: 46

Candidate Starts for ActinUp_35:

(Start: 46 @28362 has 201 MA's), (92, 28464), (129, 28575), (181, 28752), (194, 28794), (207, 28869), (227, 28935), (231, 28947), (237, 28974), (253, 29049), (264, 29088), (269, 29103), (282, 29184), (284, 29196), (285, 29199), (287, 29214), (291, 29232), (293, 29238), (297, 29262), (299, 29268), (301, 29286), (303, 29295), (304, 29298), (311, 29355), (317, 29385), (318, 29388), (324, 29424),

(331, 29445), (349, 29547), (354, 29562),

Gene: Adephagia_35 Start: 28359, Stop: 29567, Start Num: 46

Candidate Starts for Adephagia_35:

(Start: 46 @28359 has 201 MA's), (92, 28461), (129, 28572), (181, 28749), (194, 28791), (207, 28866), (227, 28932), (231, 28944), (237, 28971), (253, 29046), (264, 29085), (269, 29100), (282, 29181), (284, 29193), (285, 29196), (287, 29211), (291, 29229), (293, 29235), (297, 29259), (299, 29265), (301, 29283), (303, 29292), (304, 29295), (311, 29352), (317, 29382), (318, 29385), (324, 29421), (331, 29442), (349, 29544), (354, 29559),

Gene: Adonis_35 Start: 28374, Stop: 29582, Start Num: 46

Candidate Starts for Adonis_35:

(Start: 46 @28374 has 201 MA's), (92, 28476), (Start: 110 @28527 has 45 MA's), (129, 28587), (173, 28743), (194, 28806), (207, 28881), (231, 28959), (253, 29061), (264, 29100), (269, 29115), (282, 29196), (284, 29208), (285, 29211), (287, 29226), (291, 29244), (297, 29274), (299, 29280), (301, 29298), (303, 29307), (304, 29310), (311, 29367), (317, 29397), (324, 29436), (331, 29457), (349, 29559), (354, 29574),

Gene: Agent47_34 Start: 28998, Stop: 30212, Start Num: 46

Candidate Starts for Agent47_34:

(Start: 46 @28998 has 201 MA's), (52, 29016), (134, 29229), (147, 29277), (194, 29436), (199, 29460), (211, 29520), (219, 29550), (222, 29559), (227, 29574), (231, 29586), (253, 29691), (254, 29694), (259, 29712), (269, 29745), (274, 29778), (282, 29826), (284, 29838), (291, 29874), (297, 29904), (299, 29910), (302, 29931), (303, 29937), (304, 29940), (311, 29997), (317, 30027), (318, 30030), (340, 30162), (343, 30174), (349, 30189), (351, 30198),

Gene: Ageofdapage_35 Start: 28320, Stop: 29528, Start Num: 46

Candidate Starts for Ageofdapage_35:

(Start: 46 @28320 has 201 MA's), (92, 28422), (129, 28533), (134, 28551), (181, 28710), (194, 28752), (207, 28827), (227, 28893), (231, 28905), (237, 28932), (253, 29007), (264, 29046), (268, 29058), (269, 29061), (282, 29142), (284, 29154), (285, 29157), (287, 29172), (291, 29190), (293, 29196), (297, 29220), (299, 29226), (301, 29244), (303, 29253), (304, 29256), (311, 29313), (317, 29343), (324, 29382), (349, 29505), (354, 29520),

Gene: AlishaPH_35 Start: 28328, Stop: 29560, Start Num: 38

Candidate Starts for AlishaPH_35:

(Start: 38 @28328 has 1 MA's), (Start: 46 @28352 has 201 MA's), (92, 28454), (129, 28565), (181, 28742), (194, 28784), (207, 28859), (220, 28901), (227, 28925), (231, 28937), (237, 28964), (253, 29039), (264, 29078), (269, 29093), (282, 29174), (284, 29186), (285, 29189), (287, 29204), (291, 29222), (293, 29228), (297, 29252), (299, 29258), (301, 29276), (303, 29285), (304, 29288), (311, 29345), (317, 29375), (324, 29414), (331, 29435), (349, 29537), (354, 29552),

Gene: AlleyCat_35 Start: 28929, Stop: 30143, Start Num: 46

Candidate Starts for AlleyCat_35:

(43, 28923), (Start: 46 @28929 has 201 MA's), (52, 28947), (134, 29160), (147, 29208), (168, 29280), (194, 29367), (199, 29391), (211, 29451), (219, 29481), (222, 29490), (227, 29505), (231, 29517), (249, 29607), (250, 29610), (253, 29622), (254, 29625), (259, 29643), (269, 29676), (274, 29709), (282, 29757), (284, 29769), (291, 29805), (297, 29835), (299, 29841), (303, 29868), (304, 29871), (311, 29928), (317, 29958), (340, 30093), (343, 30105), (349, 30120), (351, 30129),

Gene: Alsaber_44 Start: 30909, Stop: 32096, Start Num: 65

Candidate Starts for Alsaber_44:

(Start: 65 @30909 has 96 MA's), (105, 31005), (111, 31026), (113, 31032), (118, 31053), (146, 31146), (150, 31167), (181, 31269), (183, 31275), (198, 31323), (242, 31515), (252, 31554), (253, 31557), (261, 31587), (265, 31605), (276, 31659), (282, 31704), (293, 31758), (333, 31983), (352, 32085),

Gene: Alvy_46 Start: 30775, Stop: 31977, Start Num: 65

Candidate Starts for Alvy_46:

(Start: 65 @30775 has 96 MA's), (125, 30946), (146, 31015), (150, 31036), (181, 31138), (185, 31147), (198, 31201), (221, 31300), (252, 31432), (253, 31435), (261, 31465), (265, 31483), (293, 31636), (315, 31771), (332, 31852), (333, 31861), (342, 31930), (348, 31948), (350, 31954),

Gene: Amela_43 Start: 31710, Stop: 32897, Start Num: 65

Candidate Starts for Amela_43:

(Start: 65 @31710 has 96 MA's), (105, 31806), (111, 31827), (113, 31833), (118, 31854), (146, 31947), (150, 31968), (161, 32004), (181, 32070), (183, 32076), (198, 32124), (202, 32154), (242, 32316), (252, 32355), (253, 32358), (261, 32388), (265, 32406), (276, 32460), (282, 32505), (293, 32559), (298, 32586), (333, 32784), (352, 32886),

Gene: Amelie_31 Start: 27784, Stop: 28920, Start Num: 46

Candidate Starts for Amelie_31:

(Start: 46 @27784 has 201 MA's), (68, 27826), (89, 27871), (107, 27928), (121, 27973), (168, 28060), (187, 28117), (207, 28219), (227, 28285), (231, 28297), (236, 28321), (237, 28324), (253, 28399), (260, 28426), (264, 28438), (269, 28453), (282, 28534), (284, 28546), (291, 28582), (297, 28612), (299, 28618), (301, 28636), (303, 28645), (304, 28648), (317, 28735), (323, 28768), (324, 28774), (331, 28795), (349, 28897), (356, 28915),

Gene: Amethyst_43 Start: 30138, Stop: 31340, Start Num: 65

Candidate Starts for Amethyst_43:

(Start: 65 @30138 has 96 MA's), (125, 30309), (146, 30378), (150, 30399), (182, 30507), (186, 30513), (198, 30564), (252, 30795), (253, 30798), (261, 30828), (265, 30846), (266, 30849), (269, 30855), (276, 30900), (315, 31134), (333, 31224), (348, 31311), (350, 31317), (353, 31329),

Gene: Amgine_33 Start: 28327, Stop: 29460, Start Num: 46

Candidate Starts for Amgine_33:

(Start: 46 @28327 has 201 MA's), (121, 28516), (173, 28621), (181, 28642), (194, 28687), (207, 28762), (231, 28837), (236, 28861), (253, 28939), (264, 28978), (269, 28993), (282, 29074), (293, 29128), (297, 29152), (301, 29176), (304, 29188), (311, 29245), (317, 29275), (324, 29314), (331, 29335), (333, 29350), (356, 29455),

Gene: Aminay_36 Start: 30032, Stop: 31216, Start Num: 46

Candidate Starts for Aminay_36:

(Start: 46 @30032 has 201 MA's), (56, 30059), (121, 30218), (174, 30380), (194, 30437), (200, 30470), (207, 30512), (219, 30551), (227, 30575), (231, 30587), (240, 30635), (241, 30644), (245, 30659), (253, 30692), (261, 30722), (293, 30881), (297, 30905), (300, 30917), (303, 30938), (308, 30977), (311, 31001), (341, 31169), (354, 31208),

Gene: Amohnition_34 Start: 28755, Stop: 29888, Start Num: 46

Candidate Starts for Amohnition_34:

(Start: 46 @28755 has 201 MA's), (Start: 110 @28908 has 45 MA's), (121, 28944), (181, 29073), (194, 29115), (227, 29253), (231, 29265), (237, 29292), (253, 29367), (269, 29421), (291, 29550), (293, 29556), (297, 29580), (299, 29586), (301, 29604), (304, 29616), (311, 29673), (317, 29703), (324, 29742), (331, 29763), (349, 29865), (351, 29874), (354, 29880),

Gene: Anaya_36 Start: 28387, Stop: 29595, Start Num: 46

Candidate Starts for Anaya_36:

(Start: 46 @28387 has 201 MA's), (92, 28489), (Start: 110 @28540 has 45 MA's), (129, 28600), (173, 28756), (194, 28819), (207, 28894), (227, 28960), (231, 28972), (237, 28999), (250, 29062), (253, 29074), (264, 29113), (268, 29125), (269, 29128), (282, 29209), (284, 29221), (285, 29224), (287, 29239), (291, 29257), (293, 29263), (297, 29287), (299, 29293), (301, 29311), (303, 29320), (304, 29323), (311, 29380), (317, 29410), (324, 29449), (331, 29470), (349, 29572), (354, 29587),

Gene: Andris_44 Start: 30403, Stop: 31602, Start Num: 65

Candidate Starts for Andris_44:

(Start: 65 @30403 has 96 MA's), (105, 30502), (146, 30643), (150, 30664), (186, 30775), (198, 30826), (252, 31057), (253, 31060), (261, 31090), (269, 31117), (276, 31162), (302, 31312), (315, 31396), (333, 31486), (348, 31573), (350, 31579), (353, 31591),

Gene: Angelica_35 Start: 28309, Stop: 29517, Start Num: 46

Candidate Starts for Angelica_35:

(Start: 46 @28309 has 201 MA's), (92, 28411), (Start: 110 @28462 has 45 MA's), (129, 28522), (181, 28699), (194, 28741), (207, 28816), (227, 28882), (231, 28894), (237, 28921), (253, 28996), (264, 29035), (269, 29050), (282, 29131), (284, 29143), (285, 29146), (287, 29161), (291, 29179), (293, 29185), (297, 29209), (299, 29215), (301, 29233), (303, 29242), (304, 29245), (317, 29332), (324, 29371), (331, 29392), (349, 29494), (354, 29509),

Gene: Animus_43 Start: 30648, Stop: 31847, Start Num: 65

Candidate Starts for Animus_43:

(Start: 65 @30648 has 96 MA's), (125, 30819), (146, 30888), (186, 31020), (198, 31071), (252, 31302), (253, 31305), (261, 31335), (265, 31353), (269, 31362), (276, 31407), (315, 31641), (332, 31722), (333, 31731), (348, 31818), (350, 31824), (353, 31836),

Gene: Anma_35 Start: 28303, Stop: 29511, Start Num: 46

Candidate Starts for Anma_35:

(Start: 46 @28303 has 201 MA's), (92, 28405), (129, 28516), (134, 28534), (181, 28693), (194, 28735), (207, 28810), (227, 28876), (231, 28888), (237, 28915), (253, 28990), (264, 29029), (268, 29041), (269, 29044), (282, 29125), (284, 29137), (285, 29140), (287, 29155), (291, 29173), (297, 29203), (299, 29209), (301, 29227), (303, 29236), (304, 29239), (311, 29296), (324, 29365), (331, 29386), (349, 29488), (354, 29503),

Gene: Apocalypse_35 Start: 28330, Stop: 29538, Start Num: 46

Candidate Starts for Apocalypse_35:

(Start: 46 @28330 has 201 MA's), (92, 28432), (129, 28543), (134, 28561), (173, 28699), (181, 28720), (194, 28762), (207, 28837), (227, 28903), (231, 28915), (237, 28942), (253, 29017), (264, 29056), (269, 29071), (282, 29152), (284, 29164), (285, 29167), (287, 29182), (291, 29200), (293, 29206), (297, 29230), (299, 29236), (301, 29254), (303, 29263), (304, 29266), (311, 29323), (324, 29392), (331, 29413), (349, 29515), (354, 29530),

Gene: Applecrisp_33 Start: 28749, Stop: 29882, Start Num: 46

Candidate Starts for Applecrisp_33:

(Start: 46 @28749 has 201 MA's), (121, 28938), (173, 29043), (181, 29064), (194, 29109), (207, 29184), (231, 29259), (236, 29283), (253, 29361), (264, 29400), (269, 29415), (282, 29496), (293, 29550), (297, 29574), (301, 29598), (304, 29610), (317, 29697), (324, 29736), (331, 29757), (333, 29772), (356, 29877),

Gene: Aquarius_26 Start: 19072, Stop: 18026, Start Num: 110

Candidate Starts for Aquarius_26:

(67, 19183), (Start: 110 @19072 has 45 MA's), (234, 18637), (237, 18622), (245, 18580), (251, 18553), (253, 18547), (254, 18544), (264, 18508), (295, 18337), (300, 18319), (319, 18208), (333, 18139), (340, 18079),

Gene: Ariel_168 Start: 85565, Stop: 86785, Start Num: 49

Candidate Starts for Ariel_168:

(Start: 49 @85565 has 39 MA's), (Start: 75 @85613 has 1 MA's), (142, 85814), (152, 85865), (167, 85913), (174, 85940), (194, 85997), (195, 86000), (200, 86030), (203, 86048), (228, 86129), (246, 86207), (248, 86216), (249, 86222), (258, 86255), (290, 86414), (296, 86450), (303, 86486), (310, 86543), (331, 86654), (339, 86726), (341, 86732), (351, 86762),

Gene: Artu_161 Start: 110903, Stop: 109476, Start Num: 13

Candidate Starts for Artu_161:

(3, 111005), (8, 110969), (12, 110912), (Start: 13 @110903 has 4 MA's), (14, 110867), (33, 110699), (34, 110696), (82, 110624), (185, 110327), (194, 110276), (246, 110066), (248, 110057), (299, 109808), (307, 109748), (340, 109535),

Gene: Asayake_35 Start: 28393, Stop: 29601, Start Num: 46

Candidate Starts for Asayake_35:

(Start: 38 @28369 has 1 MA's), (Start: 46 @28393 has 201 MA's), (92, 28495), (129, 28606), (181, 28783), (194, 28825), (207, 28900), (220, 28942), (227, 28966), (231, 28978), (237, 29005), (253, 29080), (264, 29119), (269, 29134), (282, 29215), (284, 29227), (285, 29230), (287, 29245), (291, 29263), (293, 29269), (297, 29293), (299, 29299), (301, 29317), (303, 29326), (304, 29329), (311, 29386), (317, 29416), (324, 29455), (331, 29476), (349, 29578), (354, 29593),

Gene: Asten_43 Start: 29548, Stop: 30738, Start Num: 65

Candidate Starts for Asten_43:

(Start: 65 @29548 has 96 MA's), (90, 29596), (111, 29662), (113, 29668), (146, 29782), (198, 29965), (218, 30055), (252, 30196), (253, 30199), (257, 30211), (265, 30247), (269, 30256), (276, 30301), (282, 30346), (293, 30400), (297, 30424), (315, 30535), (333, 30625),

Gene: Atiba_35 Start: 28322, Stop: 29530, Start Num: 46

Candidate Starts for Atiba_35:

(Start: 46 @28322 has 201 MA's), (92, 28424), (129, 28535), (181, 28712), (194, 28754), (207, 28829), (227, 28895), (231, 28907), (237, 28934), (253, 29009), (264, 29048), (269, 29063), (282, 29144), (284, 29156), (285, 29159), (287, 29174), (291, 29192), (293, 29198), (297, 29222), (299, 29228), (301, 29246), (303, 29255), (304, 29258), (311, 29315), (317, 29345), (318, 29348), (324, 29384), (331, 29405), (349, 29507), (354, 29522),

Gene: Attacne_26 Start: 19091, Stop: 18045, Start Num: 110

Candidate Starts for Attacne_26:

(Start: 110 @19091 has 45 MA's), (234, 18656), (237, 18641), (245, 18599), (251, 18572), (253, 18566), (254, 18563), (271, 18488), (295, 18356), (319, 18227), (333, 18158), (340, 18098),

Gene: Atuin_162 Start: 113430, Stop: 111916, Start Num: 13

Candidate Starts for Atuin_162:

(12, 113439), (Start: 13 @113430 has 4 MA's), (14, 113394), (17, 113358), (24, 113304), (36, 113199), (44, 113172), (82, 113103), (131, 112944), (137, 112923), (154, 112866), (185, 112767), (207, 112641), (246, 112506), (290, 112290), (307, 112188), (340, 111975), (342, 111966),

Gene: Axiom_45 Start: 30603, Stop: 31802, Start Num: 65

Candidate Starts for Axiom_45:

(Start: 65 @30603 has 96 MA's), (125, 30774), (146, 30843), (150, 30864), (186, 30975), (198, 31026), (252, 31257), (253, 31260), (261, 31290), (265, 31308), (269, 31317), (276, 31362), (315, 31596), (323, 31644), (332, 31677), (333, 31686), (348, 31773), (350, 31779), (353, 31791),

Gene: BAKA_173 Start: 90543, Stop: 91703, Start Num: 49

Candidate Starts for BAKA_173:

(Start: 49 @90543 has 39 MA's), (54, 90561), (73, 90585), (101, 90669), (114, 90699), (164, 90822), (174, 90858), (194, 90915), (195, 90918), (200, 90948), (203, 90966), (228, 91047), (246, 91125), (248, 91134), (249, 91140), (290, 91332), (296, 91368), (303, 91404), (310, 91461), (331, 91572), (339, 91644), (341, 91650), (351, 91680),

Gene: BEEST_35 Start: 28393, Stop: 29601, Start Num: 46

Candidate Starts for BEEST_35:

(Start: 38 @28369 has 1 MA's), (Start: 46 @28393 has 201 MA's), (92, 28495), (129, 28606), (181, 28783), (194, 28825), (207, 28900), (220, 28942), (227, 28966), (231, 28978), (237, 29005), (253, 29080), (264, 29119), (269, 29134), (282, 29215), (284, 29227), (285, 29230), (287, 29245), (291, 29263), (293, 29269), (297, 29293), (299, 29299), (301, 29317), (303, 29326), (304, 29329), (311, 29386), (317, 29416), (324, 29455), (331, 29476), (349, 29578), (354, 29593),

Gene: BGlluviae_35 Start: 28393, Stop: 29601, Start Num: 46

Candidate Starts for BGlluviae_35:

(Start: 38 @28369 has 1 MA's), (Start: 46 @28393 has 201 MA's), (92, 28495), (129, 28606), (157, 28714), (181, 28783), (194, 28825), (207, 28900), (227, 28966), (231, 28978), (237, 29005), (253, 29080), (264, 29119), (269, 29134), (282, 29215), (284, 29227), (285, 29230), (287, 29245), (291, 29263), (293, 29269), (297, 29293), (299, 29299), (301, 29317), (303, 29326), (304, 29329), (311, 29386), (317, 29416), (324, 29455), (331, 29476), (349, 29578), (354, 29593),

Gene: BaghaKamala_35 Start: 28322, Stop: 29530, Start Num: 46

Candidate Starts for BaghaKamala_35:

(Start: 38 @28298 has 1 MA's), (Start: 46 @28322 has 201 MA's), (92, 28424), (129, 28535), (157, 28643), (181, 28712), (194, 28754), (207, 28829), (227, 28895), (231, 28907), (237, 28934), (253, 29009), (264, 29048), (269, 29063), (282, 29144), (284, 29156), (285, 29159), (287, 29174), (291, 29192), (293, 29198), (297, 29222), (299, 29228), (301, 29246), (303, 29255), (304, 29258), (311, 29315), (317, 29345), (324, 29384), (331, 29405), (349, 29507), (354, 29522), (356, 29525),

Gene: Bagrid_176 Start: 90905, Stop: 92065, Start Num: 49

Candidate Starts for Bagrid_176:

(Start: 49 @90905 has 39 MA's), (54, 90923), (73, 90947), (101, 91031), (114, 91061), (164, 91184), (174, 91220), (194, 91277), (195, 91280), (200, 91310), (203, 91328), (228, 91409), (246, 91487), (248, 91496), (249, 91502), (258, 91535), (290, 91694), (296, 91730), (303, 91766), (310, 91823), (331, 91934), (339, 92006), (341, 92012), (351, 92042),

Gene: BananenDer11_34 Start: 28959, Stop: 30173, Start Num: 46

Candidate Starts for BananenDer11_34:

(Start: 46 @28959 has 201 MA's), (52, 28977), (134, 29190), (147, 29238), (194, 29397), (199, 29421), (211, 29481), (219, 29511), (222, 29520), (227, 29535), (231, 29547), (253, 29652), (254, 29655), (259, 29673), (269, 29706), (274, 29739), (282, 29787), (284, 29799), (291, 29835), (297, 29865), (299, 29871), (302, 29892), (303, 29898), (304, 29901), (311, 29958), (317, 29988), (318, 29991), (340, 30123), (343, 30135), (349, 30150), (351, 30159),

Gene: Banquo_65 Start: 39615, Stop: 40727, Start Num: 80

Candidate Starts for Banquo_65:

(61, 39588), (Start: 80 @39615 has 11 MA's), (83, 39624), (88, 39636), (102, 39672), (124, 39738), (187, 39933), (205, 40011), (223, 40077), (226, 40086), (230, 40098), (240, 40149), (257, 40215), (264, 40245), (265, 40251), (269, 40260), (286, 40359), (297, 40419), (300, 40431), (301, 40443), (308, 40488), (329, 40596), (335, 40647), (342, 40686), (356, 40722),

Gene: BarrelRoll_35 Start: 28345, Stop: 29553, Start Num: 46

Candidate Starts for BarrelRoll_35:

(Start: 46 @28345 has 201 MA's), (92, 28447), (129, 28558), (181, 28735), (194, 28777), (207, 28852), (227, 28918), (231, 28930), (237, 28957), (253, 29032), (264, 29071), (269, 29086), (282, 29167), (284, 29179), (285, 29182), (287, 29197), (291, 29215), (293, 29221), (297, 29245), (299, 29251), (301, 29269), (303, 29278), (304, 29281), (311, 29338), (317, 29368), (318, 29371), (324, 29407), (331, 29428), (349, 29530), (354, 29545),

Gene: BarryBee_46 Start: 29558, Stop: 30748, Start Num: 65

Candidate Starts for BarryBee_46:

(Start: 65 @29558 has 96 MA's), (90, 29606), (111, 29672), (113, 29678), (146, 29792), (198, 29975), (218, 30065), (252, 30206), (253, 30209), (257, 30221), (265, 30257), (269, 30266), (276, 30311), (282, 30356), (293, 30410), (297, 30434), (298, 30437), (315, 30545), (333, 30635), (342, 30704),

Gene: BartholomewSD_46 Start: 30774, Stop: 31976, Start Num: 65

Candidate Starts for BartholomewSD_46:

(Start: 65 @30774 has 96 MA's), (125, 30945), (146, 31014), (150, 31035), (181, 31137), (185, 31146), (198, 31200), (221, 31299), (252, 31431), (253, 31434), (261, 31464), (265, 31482), (293, 31635), (315, 31770), (332, 31851), (333, 31860), (342, 31929), (348, 31947), (350, 31953),

Gene: BeardedLady_44 Start: 29466, Stop: 30656, Start Num: 65

Candidate Starts for BeardedLady_44:

(40, 29403), (Start: 65 @29466 has 96 MA's), (90, 29514), (111, 29580), (138, 29667), (146, 29700), (198, 29883), (218, 29973), (252, 30114), (253, 30117), (257, 30129), (265, 30165), (269, 30174), (271, 30198), (276, 30219), (297, 30342), (298, 30345), (302, 30369), (315, 30453), (333, 30543), (352, 30645),

Gene: Beem_168 Start: 89698, Stop: 90858, Start Num: 49

Candidate Starts for Beem_168:

(Start: 49 @89698 has 39 MA's), (54, 89716), (73, 89740), (101, 89824), (114, 89854), (164, 89977), (174, 90013), (194, 90070), (195, 90073), (200, 90103), (203, 90121), (228, 90202), (246, 90280), (248, 90289), (249, 90295), (290, 90487), (296, 90523), (303, 90559), (310, 90616), (331, 90727), (339, 90799), (341, 90805), (351, 90835),

Gene: Beezoo_35 Start: 28370, Stop: 29578, Start Num: 46

Candidate Starts for Beezoo_35:

(Start: 46 @28370 has 201 MA's), (92, 28472), (129, 28583), (181, 28760), (194, 28802), (207, 28877), (227, 28943), (231, 28955), (237, 28982), (253, 29057), (264, 29096), (269, 29111), (282, 29192), (284, 29204), (285, 29207), (287, 29222), (291, 29240), (293, 29246), (297, 29270), (299, 29276), (301, 29294), (303, 29303), (304, 29306), (311, 29363), (317, 29393), (318, 29396), (324, 29432), (331, 29453), (349, 29555), (354, 29570),

Gene: Bella96_35 Start: 28263, Stop: 29471, Start Num: 46

Candidate Starts for Bella96_35:

(Start: 46 @28263 has 201 MA's), (92, 28365), (129, 28476), (134, 28494), (181, 28653), (194, 28695), (207, 28770), (227, 28836), (231, 28848), (237, 28875), (253, 28950), (264, 28989), (268, 29001), (269, 29004), (282, 29085), (284, 29097), (285, 29100), (287, 29115), (291, 29133), (293, 29139), (297, 29163), (299, 29169), (301, 29187), (303, 29196), (304, 29199), (311, 29256), (317, 29286),

(324, 29325), (349, 29448), (354, 29463),

Gene: Belladonna_35 Start: 28393, Stop: 29601, Start Num: 46

Candidate Starts for Belladonna_35:

(Start: 38 @28369 has 1 MA's), (Start: 46 @28393 has 201 MA's), (92, 28495), (129, 28606), (157, 28714), (181, 28783), (194, 28825), (207, 28900), (227, 28966), (231, 28978), (237, 29005), (253, 29080), (264, 29119), (269, 29134), (284, 29227), (285, 29230), (287, 29245), (291, 29263), (293, 29269), (297, 29293), (299, 29299), (301, 29317), (303, 29326), (304, 29329), (311, 29386), (317, 29416), (324, 29455), (331, 29476), (349, 29578), (354, 29593),

Gene: Bern_35 Start: 28302, Stop: 29510, Start Num: 46

Candidate Starts for Bern_35:

(Start: 46 @28302 has 201 MA's), (92, 28404), (129, 28515), (134, 28533), (181, 28692), (194, 28734), (207, 28809), (227, 28875), (231, 28887), (237, 28914), (252, 28986), (253, 28989), (264, 29028), (268, 29040), (269, 29043), (282, 29124), (284, 29136), (285, 29139), (291, 29172), (293, 29178), (297, 29202), (299, 29208), (301, 29226), (303, 29235), (304, 29238), (311, 29295), (317, 29325), (324, 29364), (331, 29385), (349, 29487), (354, 29502), (356, 29505),

Gene: Binglebops_31 Start: 27784, Stop: 28920, Start Num: 46

Candidate Starts for Binglebops_31:

(Start: 46 @27784 has 201 MA's), (68, 27826), (89, 27871), (107, 27928), (121, 27973), (168, 28060), (187, 28117), (207, 28219), (227, 28285), (231, 28297), (236, 28321), (237, 28324), (253, 28399), (260, 28426), (264, 28438), (269, 28453), (282, 28534), (284, 28546), (291, 28582), (297, 28612), (299, 28618), (301, 28636), (303, 28645), (304, 28648), (317, 28735), (323, 28768), (324, 28774), (331, 28795), (349, 28897), (356, 28915),

Gene: Blizzard_35 Start: 28393, Stop: 29601, Start Num: 46

Candidate Starts for Blizzard_35:

(Start: 38 @28369 has 1 MA's), (Start: 46 @28393 has 201 MA's), (92, 28495), (129, 28606), (181, 28783), (194, 28825), (207, 28900), (220, 28942), (227, 28966), (231, 28978), (237, 29005), (253, 29080), (264, 29119), (269, 29134), (282, 29215), (284, 29227), (285, 29230), (287, 29245), (291, 29263), (293, 29269), (297, 29293), (299, 29299), (301, 29317), (303, 29326), (304, 29329), (311, 29386), (317, 29416), (324, 29455), (331, 29476), (349, 29578), (354, 29593),

Gene: Bloom_174 Start: 113947, Stop: 112619, Start Num: 21

Candidate Starts for Bloom_174:

(Start: 21 @113947 has 4 MA's), (85, 113722), (236, 113224), (253, 113146), (323, 112774),

Gene: Bobby_160 Start: 90693, Stop: 91850, Start Num: 58

Candidate Starts for Bobby_160:

(Start: 58 @90693 has 1 MA's), (72, 90714), (88, 90750), (121, 90846), (126, 90858), (165, 90987), (171, 91011), (190, 91062), (198, 91086), (201, 91101), (227, 91206), (238, 91248), (248, 91302), (249, 91308), (252, 91320), (254, 91326), (269, 91380), (275, 91416), (290, 91506), (293, 91518), (297, 91542), (300, 91554), (351, 91836),

Gene: Bobquesha_37 Start: 29185, Stop: 30375, Start Num: 46

Candidate Starts for Bobquesha_37:

(Start: 46 @29185 has 201 MA's), (Start: 110 @29341 has 45 MA's), (120, 29371), (129, 29401), (157, 29488), (194, 29596), (211, 29680), (227, 29734), (240, 29794), (241, 29803), (245, 29818), (253, 29851), (268, 29902), (269, 29905), (282, 29986), (291, 30034), (293, 30040), (297, 30064), (299, 30070), (300, 30076), (302, 30091), (308, 30136), (318, 30193), (341, 30328), (342, 30334), (351, 30361), (354, 30367), (356, 30370),

Gene: BoiIII_35 Start: 28395, Stop: 29603, Start Num: 46

Candidate Starts for BoiIII_35:

(Start: 38 @28371 has 1 MA's), (Start: 46 @28395 has 201 MA's), (92, 28497), (129, 28608), (181, 28785), (194, 28827), (207, 28902), (220, 28944), (227, 28968), (231, 28980), (237, 29007), (253, 29082), (264, 29121), (269, 29136), (282, 29217), (284, 29229), (285, 29232), (287, 29247), (291, 29265), (293, 29271), (297, 29295), (299, 29301), (301, 29319), (303, 29328), (304, 29331), (311, 29388), (317, 29418), (324, 29457), (331, 29478), (349, 29580), (354, 29595),

Gene: Boilgate_32 Start: 30234, Stop: 31436, Start Num: 46

Candidate Starts for Boilgate_32:

(42, 30225), (Start: 46 @30234 has 201 MA's), (92, 30339), (119, 30429), (129, 30462), (153, 30534), (173, 30597), (194, 30657), (198, 30675), (211, 30741), (231, 30807), (240, 30855), (241, 30864), (245, 30879), (250, 30900), (253, 30912), (261, 30942), (268, 30963), (282, 31047), (293, 31101), (297, 31125), (299, 31131), (302, 31152), (304, 31161), (308, 31197), (311, 31221), (317, 31251), (318, 31254), (321, 31278), (340, 31386), (351, 31422), (354, 31428), (356, 31431),

Gene: Bombitas_154 Start: 85928, Stop: 87088, Start Num: 49

Candidate Starts for Bombitas_154:

(Start: 49 @85928 has 39 MA's), (54, 85946), (73, 85970), (101, 86054), (114, 86084), (164, 86207), (174, 86243), (194, 86300), (195, 86303), (200, 86333), (203, 86351), (228, 86432), (232, 86444), (246, 86510), (249, 86525), (258, 86558), (290, 86717), (296, 86753), (303, 86789), (310, 86846), (331, 86957), (339, 87029), (341, 87035), (351, 87065),

Gene: BooTeria_168 Start: 111070, Stop: 109556, Start Num: 13

Candidate Starts for BooTeria_168:

(3, 111172), (8, 111136), (12, 111079), (Start: 13 @111070 has 4 MA's), (14, 111034), (33, 110866), (34, 110863), (62, 110785), (Start: 80 @110752 has 11 MA's), (82, 110743), (92, 110710), (137, 110563), (151, 110515), (174, 110434), (206, 110284), (246, 110146), (290, 109930), (299, 109888), (307, 109828), (340, 109615),

Gene: BoostSeason_35 Start: 27717, Stop: 28901, Start Num: 46

Candidate Starts for BoostSeason_35:

(Start: 46 @27717 has 201 MA's), (63, 27750), (120, 27900), (129, 27930), (194, 28128), (207, 28203), (227, 28266), (236, 28302), (253, 28380), (254, 28383), (291, 28563), (297, 28593), (299, 28599), (302, 28620), (303, 28626), (311, 28686), (317, 28716), (331, 28776), (356, 28896),

Gene: Bovely_43 Start: 29219, Stop: 30409, Start Num: 65

Candidate Starts for Bovely_43:

(40, 29156), (Start: 65 @29219 has 96 MA's), (90, 29267), (111, 29333), (138, 29420), (146, 29453), (198, 29636), (218, 29726), (252, 29867), (253, 29870), (257, 29882), (265, 29918), (269, 29927), (271, 29951), (276, 29972), (297, 30095), (298, 30098), (315, 30206), (333, 30296), (352, 30398),

Gene: Bowden_43 Start: 30689, Stop: 31891, Start Num: 65

Candidate Starts for Bowden_43:

(Start: 65 @30689 has 96 MA's), (146, 30929), (150, 30950), (174, 31031), (181, 31052), (185, 31061), (198, 31115), (221, 31214), (252, 31346), (253, 31349), (261, 31379), (265, 31397), (302, 31601), (315, 31685), (316, 31694), (333, 31775), (348, 31862), (350, 31868),

Gene: Brataylor_46 Start: 30531, Stop: 31721, Start Num: 65

Candidate Starts for Brataylor_46:

(Start: 65 @30531 has 96 MA's), (90, 30579), (111, 30645), (113, 30651), (146, 30765), (198, 30948), (218, 31038), (252, 31179), (253, 31182), (257, 31194), (265, 31230), (269, 31239), (271, 31263), (276, 31284), (282, 31329), (297, 31407), (298, 31410), (315, 31518), (333, 31608), (342, 31677),

Gene: BroPlease_44 Start: 29706, Stop: 30899, Start Num: 65

Candidate Starts for BroPlease_44:

(Start: 65 @29706 has 96 MA's), (74, 29718), (113, 29832), (146, 29946), (150, 29967), (195, 30108), (261, 30387), (265, 30405), (276, 30459), (278, 30486), (282, 30504), (315, 30693), (332, 30774), (342, 30852), (348, 30870), (350, 30876), (353, 30888),

Gene: BronnyJames_163 Start: 85611, Stop: 86831, Start Num: 49

Candidate Starts for BronnyJames_163:

(Start: 49 @85611 has 39 MA's), (Start: 75 @85659 has 1 MA's), (142, 85860), (152, 85911), (167, 85959), (174, 85986), (194, 86043), (195, 86046), (200, 86076), (203, 86094), (228, 86175), (246, 86253), (248, 86262), (249, 86268), (258, 86301), (290, 86460), (296, 86496), (303, 86532), (310, 86589), (331, 86700), (339, 86772), (341, 86778), (351, 86808),

Gene: BruceLethal_26 Start: 19313, Stop: 18270, Start Num: 110

Candidate Starts for BruceLethal_26:

(67, 19421), (Start: 110 @19313 has 45 MA's), (234, 18881), (237, 18866), (245, 18824), (251, 18797), (253, 18791), (254, 18788), (258, 18773), (278, 18668), (295, 18581), (300, 18563), (319, 18452), (333, 18383), (340, 18323),

Gene: BryanRecycles_44 Start: 29538, Stop: 30725, Start Num: 69

Candidate Starts for BryanRecycles_44:

(Start: 69 @29538 has 6 MA's), (111, 29655), (113, 29661), (122, 29700), (135, 29736), (146, 29775), (179, 29892), (181, 29898), (198, 29952), (253, 30186), (265, 30234), (282, 30333), (297, 30411), (298, 30414), (302, 30438), (315, 30522), (333, 30612),

Gene: Bryler_35 Start: 27685, Stop: 28893, Start Num: 46

Candidate Starts for Bryler_35:

(Start: 46 @27685 has 201 MA's), (52, 27703), (92, 27787), (129, 27898), (134, 27916), (181, 28078), (194, 28120), (227, 28258), (231, 28270), (237, 28297), (253, 28372), (269, 28426), (282, 28507), (291, 28555), (293, 28561), (297, 28585), (301, 28609), (302, 28612), (311, 28678), (317, 28708), (331, 28768), (342, 28852), (349, 28870), (354, 28885),

Gene: Buldak_30 Start: 21932, Stop: 23209, Start Num: 27

Candidate Starts for Buldak_30:

(Start: 27 @21932 has 3 MA's), (96, 22133), (97, 22139), (127, 22217), (136, 22244), (137, 22247), (194, 22412), (215, 22511), (216, 22517), (256, 22661), (265, 22700), (269, 22709), (297, 22871), (299, 22877), (325, 23039), (343, 23165),

Gene: CREW_35 Start: 28393, Stop: 29601, Start Num: 46

Candidate Starts for CREW_35:

(Start: 38 @28369 has 1 MA's), (Start: 46 @28393 has 201 MA's), (92, 28495), (129, 28606), (157, 28714), (181, 28783), (194, 28825), (207, 28900), (227, 28966), (231, 28978), (237, 29005), (253, 29080), (264, 29119), (269, 29134), (282, 29215), (284, 29227), (285, 29230), (287, 29245), (291, 29263), (293, 29269), (297, 29293), (299, 29299), (301, 29317), (303, 29326), (304, 29329), (311, 29386), (317, 29416), (324, 29455), (331, 29476), (349, 29578), (354, 29593),

Gene: Caelum_45 Start: 30379, Stop: 31572, Start Num: 65

Candidate Starts for Caelum_45:

(31, 30268), (Start: 65 @30379 has 96 MA's), (111, 30499), (125, 30550), (146, 30619), (150, 30640), (162, 30682), (195, 30781), (198, 30796), (240, 30976), (252, 31027), (253, 31030), (265, 31078), (315, 31366), (333, 31456), (348, 31543), (350, 31549),

Gene: Cain_35 Start: 27673, Stop: 28881, Start Num: 46

Candidate Starts for Cain_35:

(Start: 46 @27673 has 201 MA's), (52, 27691), (92, 27775), (129, 27886), (134, 27904), (181, 28066), (194, 28108), (227, 28246), (231, 28258), (237, 28285), (253, 28360), (269, 28414), (282, 28495), (291, 28543), (293, 28549), (297, 28573), (301, 28597), (302, 28600), (311, 28666), (317, 28696), (331, 28756), (342, 28840), (349, 28858), (354, 28873),

Gene: Caliburn_43 Start: 29196, Stop: 30386, Start Num: 65

Candidate Starts for Caliburn_43:

(40, 29133), (Start: 65 @29196 has 96 MA's), (90, 29244), (111, 29310), (138, 29397), (146, 29430), (186, 29562), (198, 29613), (218, 29703), (252, 29844), (253, 29847), (257, 29859), (265, 29895), (269, 29904), (271, 29928), (276, 29949), (297, 30072), (298, 30075), (315, 30183), (333, 30273), (352, 30375),

Gene: CallaLilly_35 Start: 28316, Stop: 29524, Start Num: 46

Candidate Starts for CallaLilly_35:

(Start: 38 @28292 has 1 MA's), (Start: 46 @28316 has 201 MA's), (92, 28418), (129, 28529), (157, 28637), (181, 28706), (194, 28748), (207, 28823), (227, 28889), (231, 28901), (237, 28928), (253, 29003), (264, 29042), (269, 29057), (282, 29138), (284, 29150), (285, 29153), (287, 29168), (291, 29186), (293, 29192), (297, 29216), (299, 29222), (301, 29240), (303, 29249), (304, 29252), (311, 29309), (317, 29339), (324, 29378), (331, 29399), (349, 29501), (354, 29516),

Gene: Capricorn_35 Start: 28393, Stop: 29601, Start Num: 46

Candidate Starts for Capricorn_35:

(Start: 38 @28369 has 1 MA's), (Start: 46 @28393 has 201 MA's), (92, 28495), (129, 28606), (157, 28714), (181, 28783), (194, 28825), (207, 28900), (227, 28966), (231, 28978), (237, 29005), (253, 29080), (264, 29119), (269, 29134), (282, 29215), (284, 29227), (285, 29230), (287, 29245), (291, 29263), (293, 29269), (297, 29293), (299, 29299), (301, 29317), (303, 29326), (304, 29329), (311, 29386), (317, 29416), (324, 29455), (331, 29476), (349, 29578), (354, 29593),

Gene: CaseJules_35 Start: 28393, Stop: 29601, Start Num: 46

Candidate Starts for CaseJules_35:

(Start: 38 @28369 has 1 MA's), (Start: 46 @28393 has 201 MA's), (92, 28495), (129, 28606), (181, 28783), (194, 28825), (207, 28900), (220, 28942), (227, 28966), (231, 28978), (237, 29005), (253, 29080), (264, 29119), (269, 29134), (282, 29215), (284, 29227), (285, 29230), (287, 29245), (291, 29263), (293, 29269), (297, 29293), (299, 29299), (301, 29317), (303, 29326), (304, 29329), (311, 29386), (317, 29416), (324, 29455), (331, 29476), (349, 29578), (354, 29593),

Gene: Catfish_66 Start: 41648, Stop: 42793, Start Num: 80

Candidate Starts for Catfish_66:

(Start: 80 @41648 has 11 MA's), (88, 41669), (104, 41714), (126, 41789), (140, 41831), (170, 41948), (221, 42134), (226, 42152), (227, 42155), (230, 42164), (240, 42215), (245, 42236), (249, 42254), (253, 42269), (264, 42311), (268, 42323), (269, 42326), (297, 42485), (299, 42491), (301, 42509), (308, 42554), (318, 42611), (319, 42614), (329, 42662), (335, 42713), (340, 42743), (341, 42746), (342, 42752), (356, 42788),

Gene: Celery_46 Start: 30842, Stop: 32029, Start Num: 65

Candidate Starts for Celery_46:

(Start: 65 @30842 has 96 MA's), (105, 30938), (111, 30959), (113, 30965), (118, 30986), (146, 31079), (150, 31100), (168, 31160), (181, 31202), (183, 31208), (198, 31256), (202, 31286), (242, 31448), (252, 31487), (253, 31490), (261, 31520), (265, 31538), (276, 31592), (282, 31637), (293, 31691), (333, 31916), (352, 32018),

Gene: Celeste_44 Start: 29997, Stop: 31187, Start Num: 65

Candidate Starts for Celeste_44:

(Start: 65 @29997 has 96 MA's), (90, 30045), (111, 30111), (113, 30117), (146, 30231), (198, 30414), (218, 30504), (237, 30573), (252, 30645), (253, 30648), (257, 30660), (265, 30696), (269, 30705), (271, 30729), (276, 30750), (293, 30849), (297, 30873), (298, 30876), (315, 30984), (333, 31074), (342, 31143),

Gene: Celia_45 Start: 30185, Stop: 31378, Start Num: 66

Candidate Starts for Celia_45:

(Start: 66 @30185 has 5 MA's), (105, 30284), (111, 30305), (113, 30311), (146, 30425), (150, 30446), (161, 30482), (195, 30587), (198, 30602), (227, 30722), (242, 30794), (252, 30833), (253, 30836), (265, 30884), (269, 30893), (271, 30917), (273, 30926), (276, 30938), (315, 31172), (331, 31247), (333, 31262), (340, 31322), (353, 31367),

Gene: Chancellor_36 Start: 29445, Stop: 30635, Start Num: 46

Candidate Starts for Chancellor_36:

(Start: 46 @29445 has 201 MA's), (Start: 110 @29601 has 45 MA's), (120, 29631), (129, 29661), (157, 29748), (194, 29856), (211, 29940), (227, 29994), (240, 30054), (241, 30063), (245, 30078), (253, 30111), (268, 30162), (269, 30165), (282, 30246), (291, 30294), (293, 30300), (297, 30324), (299, 30330), (302, 30351), (308, 30396), (318, 30453), (341, 30588), (342, 30594), (351, 30621), (354, 30627), (356, 30630),

Gene: Chavito_35 Start: 27992, Stop: 29122, Start Num: 46

Candidate Starts for Chavito_35:

(Start: 46 @27992 has 201 MA's), (68, 28034), (121, 28181), (181, 28307), (194, 28349), (207, 28424), (227, 28487), (231, 28499), (236, 28523), (237, 28526), (253, 28601), (264, 28640), (268, 28652), (269, 28655), (282, 28736), (284, 28748), (291, 28784), (297, 28814), (299, 28820), (301, 28838), (303, 28847), (304, 28850), (311, 28907), (317, 28937), (324, 28976), (331, 28997), (349, 29099), (354, 29114),

Gene: CheetoDust_35 Start: 28370, Stop: 29578, Start Num: 46

Candidate Starts for CheetoDust_35:

(Start: 46 @28370 has 201 MA's), (92, 28472), (129, 28583), (181, 28760), (194, 28802), (207, 28877), (227, 28943), (231, 28955), (237, 28982), (253, 29057), (264, 29096), (269, 29111), (282, 29192), (284, 29204), (285, 29207), (291, 29240), (293, 29246), (297, 29270), (299, 29276), (301, 29294), (303, 29303), (304, 29306), (311, 29363), (317, 29393), (324, 29432), (331, 29453), (349, 29555), (354, 29570),

Gene: Cheetobro_36 Start: 29442, Stop: 30632, Start Num: 46

Candidate Starts for Cheetobro_36:

(Start: 46 @29442 has 201 MA's), (Start: 110 @29598 has 45 MA's), (120, 29628), (129, 29658), (157, 29745), (194, 29853), (211, 29937), (227, 29991), (240, 30051), (241, 30060), (245, 30075), (253, 30108), (268, 30159), (269, 30162), (282, 30243), (291, 30291), (293, 30297), (297, 30321), (299, 30327), (302, 30348), (308, 30393), (318, 30450), (341, 30585), (342, 30591), (351, 30618), (354, 30624), (356, 30627),

Gene: Chilliams_167 Start: 104835, Stop: 103429, Start Num: 13

Candidate Starts for Chilliams_167:

(2, 104946), (4, 104916), (5, 104913), (6, 104910), (7, 104907), (12, 104844), (Start: 13 @104835 has 4 MA's), (98, 104511), (193, 104232), (234, 104076), (246, 104019), (259, 103968), (290, 103803), (307, 103701), (340, 103488), (357, 103437),

Gene: Chris_35 Start: 28107, Stop: 29234, Start Num: 46

Candidate Starts for Chris_35:

(Start: 46 @28107 has 201 MA's), (78, 28167), (121, 28296), (181, 28422), (207, 28536), (227, 28599), (231, 28611), (236, 28635), (237, 28638), (250, 28701), (253, 28713), (269, 28767), (272, 28797), (282, 28848), (284, 28860), (287, 28878), (293, 28902), (297, 28926), (299, 28932), (301, 28950), (304, 28962), (311, 29019), (323, 29082), (331, 29109), (333, 29124), (349, 29211), (354, 29226),

Gene: Chucky_43 Start: 29562, Stop: 30752, Start Num: 65

Candidate Starts for Chucky_43:

(Start: 65 @29562 has 96 MA's), (90, 29610), (111, 29676), (113, 29682), (146, 29796), (198, 29979), (252, 30210), (253, 30213), (257, 30225), (265, 30261), (269, 30270), (271, 30294), (276, 30315), (282, 30360), (293, 30414), (297, 30438), (298, 30441), (315, 30549), (333, 30639), (342, 30708),

Gene: Clipper_35 Start: 28370, Stop: 29578, Start Num: 46

Candidate Starts for Clipper_35:

(Start: 38 @28346 has 1 MA's), (Start: 46 @28370 has 201 MA's), (92, 28472), (129, 28583), (181, 28760), (194, 28802), (207, 28877), (227, 28943), (231, 28955), (237, 28982), (253, 29057), (264, 29096), (269, 29111), (282, 29192), (284, 29204), (285, 29207), (287, 29222), (291, 29240), (297, 29270), (299, 29276), (301, 29294), (303, 29303), (304, 29306), (311, 29363), (317, 29393), (324, 29432), (331, 29453), (349, 29555), (354, 29570),

Gene: Collard_34 Start: 28959, Stop: 30173, Start Num: 46

Candidate Starts for Collard_34:

(Start: 46 @28959 has 201 MA's), (52, 28977), (134, 29190), (147, 29238), (194, 29397), (199, 29421), (211, 29481), (219, 29511), (222, 29520), (227, 29535), (231, 29547), (253, 29652), (254, 29655), (259, 29673), (269, 29706), (274, 29739), (282, 29787), (284, 29799), (291, 29835), (297, 29865), (299, 29871), (302, 29892), (303, 29898), (304, 29901), (311, 29958), (317, 29988), (318, 29991), (340, 30123), (343, 30135), (349, 30150), (351, 30159),

Gene: Conan_44 Start: 30803, Stop: 31990, Start Num: 65

Candidate Starts for Conan_44:

(Start: 65 @30803 has 96 MA's), (105, 30899), (111, 30920), (113, 30926), (118, 30947), (146, 31040), (150, 31061), (181, 31163), (183, 31169), (198, 31217), (242, 31409), (252, 31448), (253, 31451), (261, 31481), (265, 31499), (276, 31553), (282, 31598), (293, 31652), (298, 31679), (333, 31877), (352, 31979),

Gene: Constella_163 Start: 88432, Stop: 89592, Start Num: 49

Candidate Starts for Constella_163:

(Start: 49 @88432 has 39 MA's), (54, 88450), (73, 88474), (86, 88507), (101, 88558), (114, 88588), (164, 88711), (174, 88747), (194, 88804), (195, 88807), (200, 88837), (203, 88855), (228, 88936), (246, 89014), (248, 89023), (249, 89029), (290, 89221), (296, 89257), (303, 89293), (310, 89350), (331, 89461), (339, 89533), (341, 89539), (351, 89569),

Gene: Cota_26 Start: 19357, Stop: 18317, Start Num: 110

Candidate Starts for Cota_26:

(Start: 110 @19357 has 45 MA's), (234, 18928), (237, 18913), (251, 18844), (253, 18838), (254, 18835), (278, 18715), (295, 18628), (300, 18610), (319, 18499), (333, 18430), (340, 18370),

Gene: Courthouse_165 Start: 86009, Stop: 87229, Start Num: 49

Candidate Starts for Courthouse_165:

(Start: 49 @86009 has 39 MA's), (Start: 75 @86057 has 1 MA's), (142, 86258), (152, 86309), (167, 86357), (174, 86384), (194, 86441), (195, 86444), (200, 86474), (203, 86492), (228, 86573), (246, 86651), (248, 86660), (249, 86666), (258, 86699), (290, 86858), (296, 86894), (303, 86930), (310, 86987), (331, 87098), (339, 87170), (341, 87176), (351, 87206),

Gene: CrimD_35 Start: 28327, Stop: 29535, Start Num: 46

Candidate Starts for CrimD_35:

(Start: 46 @28327 has 201 MA's), (92, 28429), (129, 28540), (134, 28558), (173, 28696), (181, 28717), (183, 28723), (194, 28759), (198, 28777), (207, 28834), (227, 28900), (231, 28912), (237, 28939), (253, 29014), (264, 29053), (268, 29065), (269, 29068), (282, 29149), (284, 29161), (285, 29164), (287, 29179), (291, 29197), (293, 29203), (297, 29227), (299, 29233), (301, 29251), (303, 29260), (304, 29263), (311, 29320), (317, 29350), (324, 29389), (331, 29410), (349, 29512), (354, 29527),

Gene: Curiosium_36 Start: 28153, Stop: 29373, Start Num: 46

Candidate Starts for Curiosium_36:

(Start: 46 @28153 has 201 MA's), (92, 28255), (Start: 110 @28306 has 45 MA's), (129, 28366), (134, 28384), (185, 28552), (194, 28594), (207, 28669), (227, 28732), (231, 28744), (237, 28771), (248, 28825), (253, 28846), (268, 28903), (269, 28906), (282, 28987), (284, 28999), (291, 29035), (293, 29041), (297, 29065), (299, 29071), (301, 29089), (303, 29098), (304, 29101), (311, 29158), (324, 29227), (331, 29248), (342, 29332), (349, 29350), (354, 29365),

Gene: DS6A_36 Start: 30214, Stop: 31425, Start Num: 46

Candidate Starts for DS6A_36:

(Start: 46 @30214 has 201 MA's), (116, 30388), (120, 30397), (123, 30412), (194, 30646), (195, 30649), (207, 30721), (225, 30778), (227, 30787), (229, 30793), (237, 30826), (240, 30847), (241, 30853), (245, 30868), (254, 30904), (264, 30943), (268, 30955), (269, 30958), (291, 31087), (297, 31117), (299, 31123), (302, 31144), (303, 31150), (318, 31243), (322, 31270), (323, 31273), (330, 31297), (331, 31300), (340, 31375), (351, 31411),

Gene: Dadosky_35 Start: 28930, Stop: 30144, Start Num: 46

Candidate Starts for Dadosky_35:

(43, 28924), (Start: 46 @28930 has 201 MA's), (52, 28948), (134, 29161), (147, 29209), (168, 29281), (194, 29368), (199, 29392), (211, 29452), (219, 29482), (222, 29491), (227, 29506), (231, 29518), (249, 29608), (250, 29611), (253, 29623), (254, 29626), (259, 29644), (269, 29677), (274, 29710), (282, 29758), (284, 29770), (291, 29806), (297, 29836), (299, 29842), (303, 29869), (304, 29872), (311, 29929), (317, 29959), (340, 30094), (343, 30106), (349, 30121), (351, 30130),

Gene: Dallas_167 Start: 88921, Stop: 90081, Start Num: 49

Candidate Starts for Dallas_167:

(Start: 49 @88921 has 39 MA's), (54, 88939), (73, 88963), (101, 89047), (114, 89077), (164, 89200), (174, 89236), (194, 89293), (195, 89296), (200, 89326), (203, 89344), (228, 89425), (246, 89503), (248, 89512), (249, 89518), (290, 89710), (296, 89746), (303, 89782), (310, 89839), (331, 89950), (339, 90022), (341, 90028), (351, 90058),

Gene: Dalmuri_35 Start: 28393, Stop: 29601, Start Num: 46

Candidate Starts for Dalmuri_35:

(Start: 38 @28369 has 1 MA's), (Start: 46 @28393 has 201 MA's), (92, 28495), (129, 28606), (157, 28714), (181, 28783), (194, 28825), (207, 28900), (227, 28966), (231, 28978), (237, 29005), (253, 29080), (264, 29119), (269, 29134), (282, 29215), (284, 29227), (285, 29230), (287, 29245), (291, 29263), (293, 29269), (297, 29293), (299, 29299), (301, 29317), (303, 29326), (304, 29329), (311, 29386), (317, 29416), (324, 29455), (331, 29476), (349, 29578), (354, 29593),

Gene: DanSyl44_39 Start: 30311, Stop: 31501, Start Num: 46

Candidate Starts for DanSyl44_39:

(Start: 46 @30311 has 201 MA's), (Start: 110 @30467 has 45 MA's), (120, 30497), (129, 30527), (157, 30614), (194, 30722), (211, 30806), (227, 30860), (240, 30920), (241, 30929), (245, 30944), (253, 30977), (268, 31028), (269, 31031), (282, 31112), (291, 31160), (293, 31166), (297, 31190), (299,

31196), (302, 31217), (308, 31262), (318, 31319), (341, 31454), (342, 31460), (351, 31487), (354, 31493), (356, 31496),

Gene: Danzina_45 Start: 30298, Stop: 31488, Start Num: 65

Candidate Starts for Danzina_45:

(Start: 65 @30298 has 96 MA's), (90, 30346), (111, 30412), (113, 30418), (146, 30532), (198, 30715), (207, 30769), (218, 30805), (252, 30946), (253, 30949), (257, 30961), (265, 30997), (269, 31006), (271, 31030), (276, 31051), (293, 31150), (297, 31174), (298, 31177), (315, 31285), (333, 31375), (342, 31444),

Gene: Dardanus_60 Start: 37871, Stop: 38989, Start Num: 80

Candidate Starts for Dardanus_60:

(Start: 80 @37871 has 11 MA's), (83, 37880), (86, 37889), (96, 37913), (111, 37955), (126, 38006), (143, 38060), (164, 38135), (176, 38171), (212, 38300), (224, 38342), (229, 38357), (230, 38360), (240, 38411), (245, 38432), (249, 38450), (253, 38465), (258, 38483), (264, 38507), (265, 38513), (294, 38666), (297, 38681), (301, 38705), (308, 38750), (317, 38804), (329, 38858), (335, 38909), (336, 38921), (342, 38948),

Gene: DartGoblin_35 Start: 28257, Stop: 29465, Start Num: 46

Candidate Starts for DartGoblin_35:

(Start: 46 @28257 has 201 MA's), (92, 28359), (129, 28470), (134, 28488), (181, 28647), (194, 28689), (207, 28764), (227, 28830), (231, 28842), (237, 28869), (253, 28944), (264, 28983), (268, 28995), (269, 28998), (282, 29079), (284, 29091), (285, 29094), (287, 29109), (291, 29127), (293, 29133), (297, 29157), (299, 29163), (301, 29181), (303, 29190), (304, 29193), (311, 29250), (317, 29280), (324, 29319), (349, 29442), (354, 29457),

Gene: DarthP_34 Start: 28677, Stop: 29810, Start Num: 46

Candidate Starts for DarthP_34:

(Start: 46 @28677 has 201 MA's), (Start: 110 @28830 has 45 MA's), (121, 28866), (181, 28995), (194, 29037), (227, 29175), (231, 29187), (237, 29214), (253, 29289), (269, 29343), (282, 29424), (293, 29478), (297, 29502), (299, 29508), (304, 29538), (311, 29595), (317, 29625), (324, 29664), (331, 29685), (349, 29787), (351, 29796), (354, 29802),

Gene: Dartin_35 Start: 27680, Stop: 28810, Start Num: 46

Candidate Starts for Dartin_35:

(Start: 46 @27680 has 201 MA's), (68, 27722), (87, 27764), (121, 27869), (181, 27995), (194, 28037), (207, 28112), (227, 28175), (231, 28187), (236, 28211), (237, 28214), (253, 28289), (264, 28328), (268, 28340), (269, 28343), (282, 28424), (284, 28436), (291, 28472), (297, 28502), (299, 28508), (301, 28526), (303, 28535), (304, 28538), (317, 28625), (324, 28664), (331, 28685), (349, 28787), (354, 28802),

Gene: Dattran_45 Start: 30140, Stop: 31330, Start Num: 65

Candidate Starts for Dattran_45:

(Start: 65 @30140 has 96 MA's), (90, 30188), (111, 30254), (113, 30260), (146, 30374), (198, 30557), (218, 30647), (252, 30788), (253, 30791), (257, 30803), (265, 30839), (269, 30848), (276, 30893), (282, 30938), (293, 30992), (297, 31016), (298, 31019), (315, 31127), (333, 31217), (342, 31286),

Gene: Daudau_44 Start: 30511, Stop: 31713, Start Num: 65

Candidate Starts for Daudau_44:

(Start: 65 @30511 has 96 MA's), (146, 30751), (181, 30874), (198, 30937), (221, 31036), (252, 31168), (253, 31171), (261, 31201), (265, 31219), (276, 31273), (315, 31507), (332, 31588), (333, 31597), (348, 31684), (350, 31690),

Gene: Deby_35 Start: 28327, Stop: 29535, Start Num: 46

Candidate Starts for Deby_35:

(Start: 46 @28327 has 201 MA's), (92, 28429), (Start: 110 @28480 has 45 MA's), (129, 28540), (181, 28717), (194, 28759), (207, 28834), (227, 28900), (231, 28912), (237, 28939), (253, 29014), (264, 29053), (269, 29068), (282, 29149), (284, 29161), (285, 29164), (287, 29179), (291, 29197), (293, 29203), (297, 29227), (299, 29233), (301, 29251), (303, 29260), (304, 29263), (317, 29350), (324, 29389), (331, 29410), (349, 29512), (354, 29527),

Gene: Devera_35 Start: 28388, Stop: 29596, Start Num: 46

Candidate Starts for Devera_35:

(Start: 46 @28388 has 201 MA's), (92, 28490), (129, 28601), (134, 28619), (181, 28778), (194, 28820), (207, 28895), (227, 28961), (231, 28973), (237, 29000), (253, 29075), (264, 29114), (268, 29126), (269, 29129), (282, 29210), (284, 29222), (285, 29225), (287, 29240), (291, 29258), (293, 29264), (297, 29288), (299, 29294), (301, 29312), (303, 29321), (304, 29324), (311, 29381), (317, 29411), (318, 29414), (324, 29450), (349, 29573), (354, 29588),

Gene: Dexers_42 Start: 30827, Stop: 32014, Start Num: 65

Candidate Starts for Dexers_42:

(Start: 65 @30827 has 96 MA's), (105, 30923), (111, 30944), (113, 30950), (118, 30971), (146, 31064), (150, 31085), (181, 31187), (183, 31193), (198, 31241), (242, 31433), (252, 31472), (253, 31475), (261, 31505), (265, 31523), (276, 31577), (282, 31622), (293, 31676), (333, 31901), (352, 32003),

Gene: Diane_43 Start: 30367, Stop: 31569, Start Num: 65

Candidate Starts for Diane_43:

(Start: 65 @30367 has 96 MA's), (125, 30538), (146, 30607), (150, 30628), (182, 30736), (186, 30742), (198, 30793), (252, 31024), (253, 31027), (261, 31057), (265, 31075), (276, 31129), (302, 31279), (315, 31363), (333, 31453), (348, 31540), (350, 31546), (353, 31558),

Gene: DinoDaryn_66 Start: 39716, Stop: 40840, Start Num: 80

Candidate Starts for DinoDaryn_66:

(42, 39641), (Start: 80 @39716 has 11 MA's), (83, 39725), (88, 39737), (128, 39860), (212, 40151), (230, 40211), (240, 40262), (245, 40283), (249, 40301), (257, 40328), (264, 40358), (265, 40364), (286, 40472), (297, 40532), (308, 40601), (329, 40709), (342, 40799), (356, 40835),

Gene: DismalFunk_34 Start: 27629, Stop: 28813, Start Num: 46

Candidate Starts for DismalFunk_34:

(Start: 46 @27629 has 201 MA's), (63, 27662), (120, 27812), (129, 27842), (173, 27974), (207, 28115), (227, 28178), (253, 28292), (254, 28295), (291, 28475), (297, 28505), (299, 28511), (302, 28532), (303, 28538), (311, 28598), (317, 28628), (331, 28688), (349, 28790), (356, 28808),

Gene: DismalStressor_34 Start: 27629, Stop: 28813, Start Num: 46

Candidate Starts for DismalStressor_34:

(Start: 46 @27629 has 201 MA's), (63, 27662), (120, 27812), (129, 27842), (173, 27974), (207, 28115), (227, 28178), (253, 28292), (254, 28295), (291, 28475), (297, 28505), (299, 28511), (302, 28532), (303, 28538), (311, 28598), (317, 28628), (331, 28688), (349, 28790), (356, 28808),

Gene: DmpstrDiver_168 Start: 88616, Stop: 89776, Start Num: 49

Candidate Starts for DmpstrDiver_168:

(Start: 49 @88616 has 39 MA's), (54, 88634), (73, 88658), (86, 88691), (101, 88742), (114, 88772), (164, 88895), (174, 88931), (194, 88988), (195, 88991), (200, 89021), (203, 89039), (228, 89120), (246, 89198), (248, 89207), (249, 89213), (290, 89405), (296, 89441), (303, 89477), (310, 89534), (314, 89552), (319, 89570), (331, 89645), (339, 89717), (341, 89723), (351, 89753),

Gene: Dole_35 Start: 28390, Stop: 29598, Start Num: 46

Candidate Starts for Dole_35:

(Start: 46 @28390 has 201 MA's), (92, 28492), (129, 28603), (134, 28621), (181, 28780), (194, 28822), (207, 28897), (227, 28963), (231, 28975), (237, 29002), (253, 29077), (264, 29116), (268, 29128), (269, 29131), (282, 29212), (284, 29224), (285, 29227), (287, 29242), (291, 29260), (293, 29266), (297, 29290), (299, 29296), (301, 29314), (303, 29323), (304, 29326), (311, 29383), (317, 29413), (318, 29416), (324, 29452), (349, 29575), (354, 29590),

Gene: DoubleChamp_34 Start: 28959, Stop: 30173, Start Num: 46

Candidate Starts for DoubleChamp_34:

(Start: 46 @28959 has 201 MA's), (52, 28977), (134, 29190), (147, 29238), (194, 29397), (199, 29421), (211, 29481), (219, 29511), (222, 29520), (227, 29535), (231, 29547), (253, 29652), (254, 29655), (259, 29673), (269, 29706), (274, 29739), (282, 29787), (284, 29799), (291, 29835), (297, 29865), (299, 29871), (302, 29892), (303, 29898), (304, 29901), (311, 29958), (317, 29988), (318, 29991), (340, 30123), (343, 30135), (349, 30150), (351, 30159),

Gene: Doughnut_35 Start: 27710, Stop: 28894, Start Num: 46

Candidate Starts for Doughnut_35:

(Start: 46 @27710 has 201 MA's), (63, 27743), (120, 27893), (129, 27923), (173, 28055), (194, 28121), (207, 28196), (227, 28259), (235, 28286), (237, 28298), (253, 28373), (254, 28376), (291, 28556), (297, 28586), (299, 28592), (302, 28613), (303, 28619), (311, 28679), (317, 28709), (331, 28769), (356, 28889),

Gene: Dove_154 Start: 84284, Stop: 85444, Start Num: 49

Candidate Starts for Dove_154:

(Start: 49 @84284 has 39 MA's), (54, 84302), (73, 84326), (101, 84410), (114, 84440), (164, 84563), (174, 84599), (194, 84656), (195, 84659), (200, 84689), (203, 84707), (228, 84788), (232, 84800), (246, 84866), (249, 84881), (258, 84914), (290, 85073), (296, 85109), (303, 85145), (310, 85202), (331, 85313), (339, 85385), (341, 85391), (351, 85421),

Gene: DrHayes_35 Start: 28303, Stop: 29511, Start Num: 46

Candidate Starts for DrHayes_35:

(Start: 46 @28303 has 201 MA's), (92, 28405), (129, 28516), (134, 28534), (181, 28693), (194, 28735), (207, 28810), (227, 28876), (231, 28888), (237, 28915), (253, 28990), (264, 29029), (268, 29041), (269, 29044), (282, 29125), (284, 29137), (285, 29140), (287, 29155), (291, 29173), (297, 29203), (299, 29209), (301, 29227), (303, 29236), (304, 29239), (311, 29296), (324, 29365), (331, 29386), (349, 29488), (354, 29503),

Gene: DrParker_26 Start: 19410, Stop: 18364, Start Num: 110

Candidate Starts for DrParker_26:

(Start: 110 @19410 has 45 MA's), (234, 18975), (237, 18960), (249, 18900), (251, 18891), (253, 18885), (254, 18882), (258, 18867), (295, 18675), (319, 18546), (333, 18477), (340, 18417),

Gene: Duke13_170 Start: 89039, Stop: 90199, Start Num: 49

Candidate Starts for Duke13_170:

(Start: 49 @89039 has 39 MA's), (54, 89057), (73, 89081), (101, 89165), (114, 89195), (164, 89318), (174, 89354), (194, 89411), (195, 89414), (200, 89444), (203, 89462), (228, 89543), (246, 89621), (248, 89630), (249, 89636), (290, 89828), (296, 89864), (303, 89900), (310, 89957), (331, 90068), (339, 90140), (341, 90146), (351, 90176),

Gene: DunneganBoMo_159 Start: 110252, Stop: 108825, Start Num: 13

Candidate Starts for DunneganBoMo_159:

(3, 110354), (8, 110318), (12, 110261), (Start: 13 @110252 has 4 MA's), (14, 110216), (18, 110165), (24, 110126), (33, 110048), (34, 110045), (82, 109973), (185, 109676), (194, 109625), (246, 109415), (290, 109199), (299, 109157), (307, 109097), (340, 108884),

Gene: Durfee_35 Start: 28393, Stop: 29601, Start Num: 46

Candidate Starts for Durfee_35:

(Start: 38 @28369 has 1 MA's), (Start: 46 @28393 has 201 MA's), (92, 28495), (129, 28606), (181, 28783), (194, 28825), (207, 28900), (220, 28942), (227, 28966), (231, 28978), (237, 29005), (253, 29080), (264, 29119), (269, 29134), (282, 29215), (284, 29227), (285, 29230), (287, 29245), (291, 29263), (293, 29269), (297, 29293), (299, 29299), (301, 29317), (303, 29326), (304, 29329), (311, 29386), (317, 29416), (324, 29455), (331, 29476), (349, 29578), (354, 29593),

Gene: Dwayne_43 Start: 29549, Stop: 30739, Start Num: 65

Candidate Starts for Dwayne_43:

(Start: 65 @29549 has 96 MA's), (90, 29597), (111, 29663), (113, 29669), (146, 29783), (198, 29966), (252, 30197), (253, 30200), (257, 30212), (265, 30248), (269, 30257), (271, 30281), (276, 30302), (282, 30347), (293, 30401), (297, 30425), (298, 30428), (315, 30536), (333, 30626), (342, 30695),

Gene: ELB20_43 Start: 31002, Stop: 32195, Start Num: 65

Candidate Starts for ELB20_43:

(Start: 65 @31002 has 96 MA's), (105, 31101), (111, 31122), (113, 31128), (139, 31212), (146, 31242), (150, 31263), (195, 31404), (198, 31419), (202, 31449), (252, 31650), (253, 31653), (265, 31701), (272, 31740), (276, 31755), (315, 31989), (332, 32070), (333, 32079), (348, 32166), (350, 32172),

Gene: Eddasa_44 Start: 29538, Stop: 30725, Start Num: 69

Candidate Starts for Eddasa_44:

(Start: 69 @29538 has 6 MA's), (111, 29655), (113, 29661), (122, 29700), (135, 29736), (146, 29775), (179, 29892), (181, 29898), (198, 29952), (253, 30186), (265, 30234), (282, 30333), (297, 30411), (298, 30414), (302, 30438), (315, 30522), (333, 30612),

Gene: Edugator_34 Start: 28929, Stop: 30146, Start Num: 46

Candidate Starts for Edugator_34:

(Start: 46 @28929 has 201 MA's), (52, 28950), (134, 29163), (147, 29211), (199, 29394), (200, 29403), (211, 29454), (219, 29484), (222, 29493), (227, 29508), (231, 29520), (249, 29610), (250, 29613), (253, 29625), (254, 29628), (259, 29646), (269, 29679), (274, 29712), (282, 29760), (284, 29772), (291, 29808), (297, 29838), (299, 29844), (303, 29871), (304, 29874), (311, 29931), (317, 29961), (318, 29964), (340, 30096), (343, 30108), (349, 30123), (351, 30132), (356, 30141),

Gene: Efra2_35 Start: 27628, Stop: 28836, Start Num: 46

Candidate Starts for Efra2_35:

(Start: 46 @27628 has 201 MA's), (92, 27730), (129, 27841), (181, 28018), (194, 28060), (207, 28135), (227, 28201), (231, 28213), (237, 28240), (253, 28315), (264, 28354), (268, 28366), (269, 28369), (282, 28450), (284, 28462), (285, 28465), (287, 28480), (291, 28498), (293, 28504), (297, 28528), (301, 28552), (303, 28561), (304, 28564), (311, 28621), (317, 28651), (324, 28690), (331, 28711), (349, 28813), (354, 28828),

Gene: Ejemplo_42 Start: 29490, Stop: 30680, Start Num: 65

Candidate Starts for Ejemplo_42:

(Start: 65 @29490 has 96 MA's), (90, 29538), (111, 29604), (146, 29724), (198, 29907), (218, 29997), (252, 30138), (253, 30141), (257, 30153), (265, 30189), (269, 30198), (271, 30222), (276, 30243), (282, 30288), (293, 30342), (298, 30369), (315, 30477), (333, 30567),

Gene: Ejimix_158 Start: 87909, Stop: 89069, Start Num: 49

Candidate Starts for Ejimix_158:

(Start: 49 @87909 has 39 MA's), (54, 87927), (73, 87951), (101, 88035), (114, 88065), (164, 88188), (174, 88224), (194, 88281), (195, 88284), (200, 88314), (203, 88332), (228, 88413), (246, 88491), (248, 88500), (249, 88506), (290, 88698), (296, 88734), (303, 88770), (310, 88827), (331, 88938), (339, 89010), (341, 89016), (351, 89046),

Gene: Ekdilam_32 Start: 28435, Stop: 29565, Start Num: 46

Candidate Starts for Ekdilam_32:

(Start: 46 @28435 has 201 MA's), (121, 28624), (181, 28750), (194, 28792), (231, 28942), (235, 28957), (253, 29044), (264, 29083), (269, 29098), (282, 29179), (285, 29194), (291, 29227), (293, 29233), (297, 29257), (299, 29263), (301, 29281), (304, 29293), (311, 29350), (317, 29380), (324, 29419), (331, 29440), (354, 29557),

Gene: ElGato_44 Start: 30467, Stop: 31654, Start Num: 65

Candidate Starts for ElGato_44:

(Start: 65 @30467 has 96 MA's), (105, 30563), (111, 30584), (113, 30590), (118, 30611), (146, 30704), (150, 30725), (181, 30827), (183, 30833), (198, 30881), (242, 31073), (252, 31112), (253, 31115), (261, 31145), (265, 31163), (276, 31217), (282, 31262), (293, 31316), (298, 31343), (333, 31541), (352, 31643),

Gene: Ellewin_165 Start: 110359, Stop: 108929, Start Num: 13

Candidate Starts for Ellewin_165:

(3, 110461), (8, 110425), (12, 110368), (Start: 13 @110359 has 4 MA's), (14, 110323), (18, 110272), (33, 110155), (34, 110152), (82, 110077), (185, 109780), (194, 109729), (246, 109519), (248, 109510), (299, 109261), (307, 109201), (340, 108988),

Gene: Ellie_32 Start: 28440, Stop: 29573, Start Num: 46

Candidate Starts for Ellie_32:

(Start: 46 @28440 has 201 MA's), (121, 28629), (173, 28734), (181, 28755), (194, 28800), (207, 28875), (231, 28950), (236, 28974), (253, 29052), (264, 29091), (269, 29106), (282, 29187), (293, 29241), (297, 29265), (301, 29289), (304, 29301), (317, 29388), (324, 29427), (331, 29448), (333, 29463), (356, 29568),

Gene: Emaanora_46 Start: 29507, Stop: 30697, Start Num: 65

Candidate Starts for Emaanora_46:

(Start: 65 @29507 has 96 MA's), (90, 29555), (111, 29621), (113, 29627), (146, 29741), (198, 29924), (252, 30155), (253, 30158), (257, 30170), (265, 30206), (269, 30215), (271, 30239), (276, 30260), (282, 30305), (293, 30359), (297, 30383), (298, 30386), (315, 30494), (333, 30584), (342, 30653),

Gene: Emerson_35 Start: 28353, Stop: 29561, Start Num: 46

Candidate Starts for Emerson_35:

(Start: 46 @28353 has 201 MA's), (92, 28455), (129, 28566), (181, 28743), (194, 28785), (207, 28860), (227, 28926), (231, 28938), (237, 28965), (253, 29040), (264, 29079), (269, 29094), (282, 29175), (284, 29187), (285, 29190), (287, 29205), (291, 29223), (293, 29229), (297, 29253), (299, 29259), (301, 29277), (303, 29286), (304, 29289), (311, 29346), (317, 29376), (318, 29379), (324, 29415), (331, 29436), (349, 29538), (354, 29553),

Gene: Emmetator_162 Start: 110577, Stop: 109138, Start Num: 12

Candidate Starts for Emmetator_162:

(3, 110670), (8, 110634), (12, 110577), (Start: 13 @110568 has 4 MA's), (14, 110532), (18, 110481), (24, 110442), (33, 110364), (34, 110361), (82, 110286), (185, 109989), (194, 109938), (246, 109728), (248, 109719), (290, 109512), (299, 109470), (307, 109410), (340, 109197),

Gene: Enkosi_31 Start: 27784, Stop: 28920, Start Num: 46

Candidate Starts for Enkosi_31:

(Start: 46 @27784 has 201 MA's), (68, 27826), (89, 27871), (107, 27928), (121, 27973), (168, 28060), (187, 28117), (207, 28219), (227, 28285), (231, 28297), (236, 28321), (237, 28324), (253, 28399), (260, 28426), (264, 28438), (269, 28453), (282, 28534), (284, 28546), (291, 28582), (297, 28612), (299, 28618), (301, 28636), (303, 28645), (304, 28648), (317, 28735), (323, 28768), (324, 28774), (331, 28795), (349, 28897), (356, 28915),

Gene: EnochSoames_46 Start: 29533, Stop: 30720, Start Num: 69

Candidate Starts for EnochSoames_46:

(Start: 69 @29533 has 6 MA's), (111, 29650), (113, 29656), (122, 29695), (146, 29770), (179, 29887), (181, 29893), (198, 29947), (253, 30181), (265, 30229), (282, 30328), (297, 30406), (298, 30409), (302, 30433), (315, 30517), (333, 30607),

Gene: Enochoraptor_26 Start: 19336, Stop: 18290, Start Num: 110

Candidate Starts for Enochoraptor_26:

(Start: 110 @19336 has 45 MA's), (168, 19144), (194, 19057), (234, 18901), (237, 18886), (249, 18826), (251, 18817), (253, 18811), (254, 18808), (258, 18793), (271, 18733), (278, 18688), (295, 18601), (300, 18583), (319, 18472), (333, 18403), (340, 18343),

Gene: Enoki_26 Start: 19347, Stop: 18301, Start Num: 110

Candidate Starts for Enoki_26:

(Start: 110 @19347 has 45 MA's), (234, 18912), (237, 18897), (245, 18855), (251, 18828), (253, 18822), (254, 18819), (258, 18804), (264, 18783), (271, 18744), (278, 18699), (295, 18612), (300, 18594), (319, 18483), (333, 18414), (340, 18354),

Gene: Eponine_38 Start: 30198, Stop: 31388, Start Num: 46

Candidate Starts for Eponine_38:

(Start: 46 @30198 has 201 MA's), (Start: 110 @30354 has 45 MA's), (120, 30384), (129, 30414), (157, 30501), (194, 30609), (211, 30693), (227, 30747), (240, 30807), (241, 30816), (245, 30831), (253, 30864), (268, 30915), (269, 30918), (282, 30999), (291, 31047), (293, 31053), (297, 31077), (299, 31083), (302, 31104), (308, 31149), (318, 31206), (341, 31341), (342, 31347), (351, 31374), (354, 31380), (356, 31383),

Gene: EricMillard_165 Start: 89515, Stop: 90675, Start Num: 49

Candidate Starts for EricMillard_165:

(Start: 49 @89515 has 39 MA's), (54, 89533), (73, 89557), (101, 89641), (114, 89671), (164, 89794), (174, 89830), (194, 89887), (195, 89890), (200, 89920), (203, 89938), (228, 90019), (246, 90097), (248, 90106), (249, 90112), (258, 90145), (290, 90304), (296, 90340), (303, 90376), (310, 90433), (331, 90544), (339, 90616), (341, 90622), (351, 90652),

Gene: Esperer_43 Start: 29032, Stop: 30222, Start Num: 65

Candidate Starts for Esperer_43:

(40, 28969), (Start: 65 @29032 has 96 MA's), (90, 29080), (111, 29146), (138, 29233), (146, 29266), (198, 29449), (218, 29539), (252, 29680), (253, 29683), (257, 29695), (265, 29731), (269, 29740), (271, 29764), (276, 29785), (297, 29908), (298, 29911), (315, 30019), (333, 30109), (352, 30211),

Gene: Fefferhead_34 Start: 28640, Stop: 29773, Start Num: 46

Candidate Starts for Fefferhead_34:

(Start: 46 @28640 has 201 MA's), (121, 28829), (173, 28934), (181, 28955), (194, 29000), (207, 29075), (231, 29150), (236, 29174), (253, 29252), (264, 29291), (269, 29306), (282, 29387), (293, 29441), (297, 29465), (301, 29489), (304, 29501), (311, 29558), (317, 29588), (318, 29591), (324, 29627), (331, 29648), (333, 29663), (356, 29768),

Gene: Feyre_34 Start: 28843, Stop: 30060, Start Num: 46

Candidate Starts for Feyre_34:

(Start: 46 @28843 has 201 MA's), (52, 28864), (134, 29077), (147, 29125), (194, 29284), (200, 29317), (211, 29368), (219, 29398), (222, 29407), (227, 29422), (231, 29434), (249, 29524), (253, 29539), (254, 29542), (259, 29560), (269, 29593), (274, 29626), (282, 29674), (284, 29686), (291, 29722), (297, 29752), (299, 29758), (302, 29779), (303, 29785), (304, 29788), (308, 29821), (309, 29830), (311, 29845), (317, 29875), (318, 29878), (323, 29908), (340, 30010), (349, 30037), (351, 30046),

Gene: Findley_34 Start: 27622, Stop: 28806, Start Num: 46

Candidate Starts for Findley_34:

(35, 27589), (Start: 46 @27622 has 201 MA's), (63, 27655), (120, 27805), (129, 27835), (183, 27994), (194, 28033), (207, 28108), (227, 28171), (235, 28198), (237, 28210), (253, 28285), (254, 28288), (291, 28468), (297, 28498), (299, 28504), (302, 28525), (303, 28531), (311, 28591), (317, 28621), (331, 28681), (349, 28783), (356, 28801),

Gene: Fionnbharth_36 Start: 29433, Stop: 30623, Start Num: 46

Candidate Starts for Fionnbharth_36:

(Start: 46 @29433 has 201 MA's), (Start: 110 @29589 has 45 MA's), (120, 29619), (129, 29649), (157, 29736), (161, 29748), (194, 29844), (198, 29862), (211, 29928), (227, 29982), (240, 30042), (241, 30051), (245, 30066), (252, 30096), (253, 30099), (268, 30150), (269, 30153), (282, 30234), (291, 30282), (293, 30288), (297, 30312), (299, 30318), (302, 30339), (308, 30384), (318, 30441), (341, 30576), (351, 30609), (354, 30615), (356, 30618),

Gene: FloraSnap32_167 Start: 112266, Stop: 110938, Start Num: 21

Candidate Starts for FloraSnap32_167:

(Start: 21 @112266 has 4 MA's), (85, 112041), (236, 111543), (253, 111465), (323, 111093),

Gene: Footloose_65 Start: 36578, Stop: 37732, Start Num: 75

Candidate Starts for Footloose_65:

(Start: 75 @36578 has 1 MA's), (131, 36758), (132, 36764), (159, 36815), (177, 36881), (192, 36941), (197, 36956), (198, 36965), (210, 37028), (232, 37091), (239, 37133), (243, 37148), (245, 37154), (248, 37166), (259, 37208), (266, 37235), (278, 37310), (294, 37382), (303, 37430), (304, 37433), (313, 37499), (315, 37505), (318, 37523), (331, 37601), (351, 37709), (357, 37724),

Gene: FrostedClock_173 Start: 114516, Stop: 113188, Start Num: 21

Candidate Starts for FrostedClock_173:

(Start: 21 @114516 has 4 MA's), (85, 114291), (236, 113793), (253, 113715), (323, 113343),

Gene: Fryberger_119 Start: 56561, Stop: 57652, Start Num: 84

Candidate Starts for Fryberger_119:

(Start: 84 @56561 has 6 MA's), (91, 56582), (145, 56717), (154, 56753), (158, 56765), (169, 56798), (235, 57041), (257, 57140), (268, 57182), (284, 57278), (290, 57302), (291, 57308), (297, 57338), (300, 57350), (306, 57395), (308, 57407), (318, 57464), (347, 57626),

Gene: Ganymede_36 Start: 28382, Stop: 29590, Start Num: 46

Candidate Starts for Ganymede_36:

(Start: 46 @28382 has 201 MA's), (92, 28484), (Start: 110 @28535 has 45 MA's), (129, 28595), (173, 28751), (194, 28814), (207, 28889), (227, 28955), (231, 28967), (237, 28994), (253, 29069), (264, 29108), (269, 29123), (282, 29204), (284, 29216), (285, 29219), (287, 29234), (291, 29252), (293, 29258), (297, 29282), (299, 29288), (301, 29306), (303, 29315), (304, 29318), (311, 29375), (317, 29405), (324, 29444), (331, 29465), (349, 29567), (354, 29582),

Gene: Gengar_34 Start: 28953, Stop: 30170, Start Num: 46

Candidate Starts for Gengar_34:

(Start: 46 @28953 has 201 MA's), (52, 28974), (134, 29187), (147, 29235), (194, 29394), (198, 29412), (200, 29427), (211, 29478), (219, 29508), (222, 29517), (227, 29532), (231, 29544), (249, 29634), (253, 29649), (254, 29652), (259, 29670), (269, 29703), (274, 29736), (282, 29784), (284, 29796), (291, 29832), (297, 29862), (299, 29868), (302, 29889), (303, 29895), (304, 29898), (308, 29931), (309, 29940), (311, 29955), (317, 29985), (318, 29988), (323, 30018), (340, 30120), (349, 30147), (351, 30156),

Gene: Geraldini_35 Start: 28370, Stop: 29578, Start Num: 46

Candidate Starts for Geraldini_35:

(Start: 46 @28370 has 201 MA's), (92, 28472), (129, 28583), (181, 28760), (194, 28802), (207, 28877), (227, 28943), (231, 28955), (237, 28982), (253, 29057), (264, 29096), (269, 29111), (282, 29192), (284, 29204), (285, 29207), (287, 29222), (291, 29240), (297, 29270), (299, 29276), (301, 29294), (303, 29303), (304, 29306), (311, 29363), (317, 29393), (324, 29432), (331, 29453), (349, 29555), (354, 29570),

Gene: Gilgamesh_55 Start: 50958, Stop: 52205, Start Num: 57

Candidate Starts for Gilgamesh_55:

(1, 50523), (11, 50637), (20, 50766), (51, 50943), (53, 50949), (Start: 57 @50958 has 1 MA's), (100, 51072), (108, 51096), (127, 51159), (130, 51168), (141, 51207), (153, 51264), (156, 51276), (166, 51309), (178, 51348), (180, 51360), (200, 51447), (247, 51645), (280, 51804), (292, 51864), (293, 51867), (297, 51891), (302, 51918), (327, 52059), (341, 52158),

Gene: GirlDinner_43 Start: 30149, Stop: 31348, Start Num: 65

Candidate Starts for GirlDinner_43:

(Start: 65 @30149 has 96 MA's), (125, 30320), (146, 30389), (186, 30521), (198, 30572), (252, 30803), (253, 30806), (261, 30836), (265, 30854), (269, 30863), (276, 30908), (315, 31142), (332, 31223), (333, 31232), (348, 31319), (350, 31325), (353, 31337),

Gene: Goby_43 Start: 30039, Stop: 31229, Start Num: 65

Candidate Starts for Goby_43:

(Start: 65 @30039 has 96 MA's), (90, 30087), (111, 30153), (113, 30159), (146, 30273), (198, 30456), (218, 30546), (252, 30687), (253, 30690), (257, 30702), (265, 30738), (269, 30747), (276, 30792), (282, 30837), (293, 30891), (297, 30915), (298, 30918), (315, 31026), (333, 31116), (342, 31185),

Gene: GodonK_75 Start: 35421, Stop: 36566, Start Num: 55

Candidate Starts for GodonK_75:

(Start: 47 @35394 has 1 MA's), (50, 35400), (Start: 55 @35421 has 1 MA's), (192, 35772), (204, 35838), (213, 35871), (228, 35910), (248, 35997), (249, 36003), (258, 36036), (259, 36039), (267, 36066), (282, 36159), (288, 36186), (290, 36192), (293, 36204), (315, 36339), (323, 36387), (326, 36411), (339, 36507), (355, 36552),

Gene: Godpower_44 Start: 30022, Stop: 31212, Start Num: 65

Candidate Starts for Godpower_44:

(Start: 65 @30022 has 96 MA's), (90, 30070), (111, 30136), (113, 30142), (146, 30256), (185, 30385), (198, 30439), (218, 30529), (252, 30670), (253, 30673), (257, 30685), (265, 30721), (269, 30730), (271, 30754), (276, 30775), (282, 30820), (293, 30874), (298, 30901), (315, 31009), (333, 31099), (350, 31192),

Gene: Goib_66 Start: 40832, Stop: 41953, Start Num: 80

Candidate Starts for Goib_66:

(Start: 80 @40832 has 11 MA's), (83, 40841), (88, 40853), (126, 40970), (128, 40976), (211, 41258), (226, 41312), (227, 41315), (230, 41324), (240, 41375), (245, 41396), (249, 41414), (257, 41441), (264, 41471), (265, 41477), (284, 41579), (286, 41585), (297, 41645), (299, 41651), (301, 41669), (308, 41714), (329, 41822), (342, 41912), (356, 41948),

Gene: GoldenEssence_157 Start: 107508, Stop: 106180, Start Num: 21

Candidate Starts for GoldenEssence_157:

(Start: 21 @107508 has 4 MA's), (85, 107283), (236, 106785), (253, 106707), (323, 106335),

Gene: Gonephishing_161 Start: 86826, Stop: 88046, Start Num: 49

Candidate Starts for Gonephishing_161:

(Start: 49 @86826 has 39 MA's), (Start: 75 @86874 has 1 MA's), (142, 87075), (152, 87126), (167, 87174), (174, 87201), (194, 87258), (195, 87261), (200, 87291), (203, 87309), (228, 87390), (246, 87468), (248, 87477), (249, 87483), (258, 87516), (290, 87675), (296, 87711), (303, 87747), (310, 87804), (331, 87915), (339, 87987), (341, 87993), (351, 88023),

Gene: GreenWeasel_45 Start: 29713, Stop: 30906, Start Num: 65

Candidate Starts for GreenWeasel_45:

(Start: 65 @29713 has 96 MA's), (74, 29725), (113, 29839), (127, 29887), (139, 29923), (146, 29953), (150, 29974), (195, 30115), (252, 30361), (265, 30412), (269, 30421), (276, 30466), (278, 30493), (282, 30511), (296, 30586), (315, 30700), (332, 30781), (342, 30859), (350, 30883), (353, 30895),

Gene: Gsput1_57 Start: 38283, Stop: 39401, Start Num: 80

Candidate Starts for Gsput1_57:

(Start: 80 @38283 has 11 MA's), (83, 38292), (86, 38301), (113, 38367), (143, 38466), (148, 38499), (160, 38526), (163, 38532), (211, 38706), (224, 38754), (229, 38769), (240, 38823), (244, 38838), (253, 38877), (255, 38883), (261, 38907), (264, 38919), (269, 38934), (270, 38955), (291, 39063), (293, 39069), (297, 39093), (299, 39099), (301, 39117), (308, 39162), (318, 39219), (331, 39276), (335, 39321), (349, 39378),

Gene: Guanica15_35 Start: 27645, Stop: 28853, Start Num: 46

Candidate Starts for Guanica15_35:

(Start: 46 @27645 has 201 MA's), (92, 27747), (129, 27858), (181, 28035), (183, 28041), (194, 28077), (207, 28152), (227, 28218), (231, 28230), (237, 28257), (253, 28332), (264, 28371), (268, 28383), (269, 28386), (282, 28467), (284, 28479), (285, 28482), (287, 28497), (291, 28515), (293, 28521), (297, 28545), (301, 28569), (303, 28578), (304, 28581), (311, 28638), (317, 28668), (324, 28707), (331, 28728), (342, 28812), (349, 28830), (354, 28845),

Gene: Guey18_123 Start: 57884, Stop: 58975, Start Num: 84

Candidate Starts for Guey18_123:

(Start: 84 @57884 has 6 MA's), (91, 57905), (145, 58040), (154, 58076), (158, 58088), (173, 58136), (198, 58211), (211, 58277), (212, 58283), (235, 58364), (257, 58463), (268, 58505), (284, 58601), (290, 58625), (291, 58631), (297, 58661), (300, 58673), (308, 58730), (318, 58787), (347, 58949),

Gene: Guillsminger_34 Start: 28924, Stop: 30141, Start Num: 46

Candidate Starts for Guillsminger_34:

(Start: 46 @28924 has 201 MA's), (52, 28945), (134, 29158), (147, 29206), (194, 29365), (198, 29383), (200, 29398), (211, 29449), (219, 29479), (222, 29488), (227, 29503), (231, 29515), (249, 29605), (253, 29620), (254, 29623), (259, 29641), (264, 29659), (269, 29674), (274, 29707), (282, 29755), (284, 29767), (291, 29803), (297, 29833), (299, 29839), (302, 29860), (303, 29866), (304, 29869), (311, 29926), (317, 29956), (318, 29959), (323, 29989), (340, 30091), (349, 30118), (351, 30127),

Gene: Haizum_45 Start: 30482, Stop: 31684, Start Num: 65

Candidate Starts for Haizum_45:

(Start: 65 @30482 has 96 MA's), (125, 30653), (146, 30722), (150, 30743), (182, 30851), (186, 30857), (198, 30908), (252, 31139), (253, 31142), (261, 31172), (265, 31190), (269, 31199), (276, 31244), (315, 31478), (333, 31568), (348, 31655), (350, 31661), (353, 31673),

Gene: Halley_168 Start: 88225, Stop: 89385, Start Num: 49

Candidate Starts for Halley_168:

(Start: 49 @88225 has 39 MA's), (54, 88243), (73, 88267), (101, 88351), (114, 88381), (164, 88504), (174, 88540), (194, 88597), (195, 88600), (200, 88630), (203, 88648), (228, 88729), (246, 88807), (248, 88816), (249, 88822), (290, 89014), (296, 89050), (303, 89086), (310, 89143), (331, 89254), (339, 89326), (341, 89332), (351, 89362),

Gene: Hammy_34 Start: 28668, Stop: 29801, Start Num: 46

Candidate Starts for Hammy_34:

(Start: 46 @28668 has 201 MA's), (Start: 110 @28821 has 45 MA's), (121, 28857), (181, 28986), (194, 29028), (227, 29166), (231, 29178), (237, 29205), (253, 29280), (269, 29334), (293, 29469), (297, 29493), (299, 29499), (301, 29517), (304, 29529), (311, 29586), (317, 29616), (324, 29655), (331, 29676), (349, 29778), (351, 29787), (354, 29793),

Gene: Hank144_46 Start: 30698, Stop: 31897, Start Num: 65

Candidate Starts for Hank144_46:

(Start: 65 @30698 has 96 MA's), (113, 30824), (139, 30908), (146, 30938), (162, 30998), (186, 31070), (198, 31121), (252, 31352), (253, 31355), (261, 31385), (265, 31403), (269, 31412), (276, 31457), (315, 31691), (332, 31772), (333, 31781), (348, 31868), (350, 31874), (353, 31886),

Gene: Hannaconda_160 Start: 88747, Stop: 89967, Start Num: 49

Candidate Starts for Hannaconda_160:

(Start: 49 @88747 has 39 MA's), (Start: 75 @88795 has 1 MA's), (142, 88996), (152, 89047), (167, 89095), (174, 89122), (194, 89179), (195, 89182), (200, 89212), (203, 89230), (228, 89311), (246, 89389), (248, 89398), (249, 89404), (258, 89437), (290, 89596), (296, 89632), (303, 89668), (310, 89725), (331, 89836), (339, 89908), (341, 89914), (351, 89944),

Gene: HedwigODU_35 Start: 28362, Stop: 29570, Start Num: 46

Candidate Starts for HedwigODU_35:

(Start: 46 @28362 has 201 MA's), (92, 28464), (129, 28575), (181, 28752), (194, 28794), (207, 28869), (227, 28935), (231, 28947), (237, 28974), (253, 29049), (264, 29088), (269, 29103), (282, 29184), (284, 29196), (285, 29199), (287, 29214), (291, 29232), (293, 29238), (297, 29262), (299, 29268), (301, 29286), (303, 29295), (304, 29298), (311, 29355), (317, 29385), (318, 29388), (324, 29424), (331, 29445), (349, 29547), (354, 29562),

Gene: Heftyboy_34 Start: 29070, Stop: 30287, Start Num: 46

Candidate Starts for Heftyboy_34:

(Start: 46 @29070 has 201 MA's), (52, 29091), (134, 29304), (147, 29352), (194, 29511), (198, 29529), (200, 29544), (211, 29595), (219, 29625), (222, 29634), (227, 29649), (231, 29661), (249, 29751), (253, 29766), (254, 29769), (259, 29787), (264, 29805), (274, 29853), (282, 29901), (284, 29913), (291, 29949), (297, 29979), (299, 29985), (302, 30006), (303, 30012), (304, 30015), (308, 30048), (309, 30057), (311, 30072), (317, 30102), (318, 30105), (323, 30135), (349, 30264), (351, 30273),

Gene: Hidrated_160 Start: 89939, Stop: 91099, Start Num: 49

Candidate Starts for Hidrated_160:

(Start: 49 @89939 has 39 MA's), (54, 89957), (73, 89981), (101, 90065), (114, 90095), (164, 90218), (174, 90254), (194, 90311), (195, 90314), (200, 90344), (203, 90362), (228, 90443), (232, 90455), (246, 90521), (249, 90536), (283, 90704), (288, 90722), (296, 90764), (303, 90800), (310, 90857),

(314, 90875), (319, 90893), (331, 90968), (339, 91040), (341, 91046), (351, 91076),

Gene: Hippo_43 Start: 29561, Stop: 30751, Start Num: 65

Candidate Starts for Hippo_43:

(Start: 65 @29561 has 96 MA's), (90, 29609), (111, 29675), (113, 29681), (146, 29795), (198, 29978), (252, 30209), (253, 30212), (257, 30224), (265, 30260), (269, 30269), (271, 30293), (276, 30314), (282, 30359), (293, 30413), (297, 30437), (298, 30440), (315, 30548), (333, 30638), (342, 30707),

Gene: HokkenD_162 Start: 90006, Stop: 91166, Start Num: 49

Candidate Starts for HokkenD_162:

(Start: 49 @90006 has 39 MA's), (54, 90024), (73, 90048), (101, 90132), (114, 90162), (164, 90285), (174, 90321), (194, 90378), (195, 90381), (200, 90411), (203, 90429), (228, 90510), (232, 90522), (246, 90588), (249, 90603), (258, 90636), (290, 90795), (296, 90831), (303, 90867), (310, 90924), (331, 91035), (339, 91107), (341, 91113), (351, 91143),

Gene: Homura_35 Start: 28393, Stop: 29601, Start Num: 46

Candidate Starts for Homura_35:

(Start: 38 @28369 has 1 MA's), (Start: 46 @28393 has 201 MA's), (92, 28495), (129, 28606), (157, 28714), (181, 28783), (194, 28825), (207, 28900), (227, 28966), (231, 28978), (237, 29005), (253, 29080), (264, 29119), (269, 29134), (282, 29215), (284, 29227), (285, 29230), (287, 29245), (291, 29263), (293, 29269), (297, 29293), (299, 29299), (301, 29317), (303, 29326), (304, 29329), (311, 29386), (317, 29416), (324, 29455), (331, 29476), (349, 29578), (354, 29593),

Gene: Huffy_66 Start: 39716, Stop: 40840, Start Num: 80

Candidate Starts for Huffy_66:

(42, 39641), (Start: 80 @39716 has 11 MA's), (83, 39725), (88, 39737), (128, 39860), (212, 40151), (230, 40211), (240, 40262), (245, 40283), (249, 40301), (257, 40328), (264, 40358), (265, 40364), (286, 40472), (297, 40532), (308, 40601), (329, 40709), (342, 40799), (356, 40835),

Gene: Hughesyang_166 Start: 88707, Stop: 89867, Start Num: 49

Candidate Starts for Hughesyang_166:

(Start: 49 @88707 has 39 MA's), (54, 88725), (73, 88749), (101, 88833), (114, 88863), (164, 88986), (174, 89022), (194, 89079), (195, 89082), (200, 89112), (203, 89130), (228, 89211), (246, 89289), (248, 89298), (249, 89304), (258, 89337), (290, 89496), (296, 89532), (303, 89568), (310, 89625), (331, 89736), (339, 89808), (341, 89814), (351, 89844),

Gene: Hurricane_36 Start: 29220, Stop: 30350, Start Num: 46

Candidate Starts for Hurricane_36:

(Start: 46 @29220 has 201 MA's), (52, 29238), (68, 29262), (121, 29409), (181, 29535), (194, 29577), (207, 29652), (227, 29715), (231, 29727), (249, 29814), (282, 29964), (291, 30012), (293, 30018), (297, 30042), (302, 30069), (304, 30078), (311, 30135), (317, 30165), (318, 30168), (324, 30204), (331, 30225), (333, 30240), (349, 30327), (351, 30336), (354, 30342),

Gene: Hydra_45 Start: 29744, Stop: 30934, Start Num: 65

Candidate Starts for Hydra_45:

(40, 29681), (Start: 65 @29744 has 96 MA's), (90, 29792), (111, 29858), (146, 29978), (198, 30161), (218, 30251), (252, 30392), (253, 30395), (257, 30407), (265, 30443), (269, 30452), (271, 30476), (276, 30497), (297, 30620), (298, 30623), (315, 30731), (333, 30821), (352, 30923),

Gene: Hyperbowlee_35 Start: 28393, Stop: 29601, Start Num: 46

Candidate Starts for Hyperbowlee_35:

(Start: 38 @28369 has 1 MA's), (Start: 46 @28393 has 201 MA's), (92, 28495), (129, 28606), (181, 28783), (194, 28825), (207, 28900), (220, 28942), (227, 28966), (231, 28978), (237, 29005), (253,

29080), (264, 29119), (269, 29134), (282, 29215), (284, 29227), (285, 29230), (287, 29245), (291, 29263), (293, 29269), (297, 29293), (299, 29299), (301, 29317), (303, 29326), (304, 29329), (311, 29386), (317, 29416), (324, 29455), (331, 29476), (349, 29578), (354, 29593),

Gene: Illumine_35 Start: 28390, Stop: 29598, Start Num: 46

Candidate Starts for Illumine_35:

(Start: 46 @28390 has 201 MA's), (92, 28492), (129, 28603), (134, 28621), (181, 28780), (194, 28822), (207, 28897), (227, 28963), (231, 28975), (237, 29002), (253, 29077), (264, 29116), (268, 29128), (269, 29131), (282, 29212), (284, 29224), (285, 29227), (287, 29242), (291, 29260), (293, 29266), (297, 29290), (299, 29296), (301, 29314), (303, 29323), (304, 29326), (311, 29383), (317, 29413), (318, 29416), (324, 29452), (349, 29575), (354, 29590),

Gene: Indigo_42 Start: 29212, Stop: 30402, Start Num: 65

Candidate Starts for Indigo_42:

(40, 29149), (Start: 65 @29212 has 96 MA's), (90, 29260), (111, 29326), (138, 29413), (146, 29446), (198, 29629), (218, 29719), (252, 29860), (253, 29863), (257, 29875), (265, 29911), (269, 29920), (271, 29944), (276, 29965), (297, 30088), (298, 30091), (315, 30199), (333, 30289), (352, 30391),

Gene: Inky_35 Start: 28393, Stop: 29601, Start Num: 46

Candidate Starts for Inky_35:

(Start: 38 @28369 has 1 MA's), (Start: 46 @28393 has 201 MA's), (92, 28495), (129, 28606), (157, 28714), (181, 28783), (194, 28825), (207, 28900), (227, 28966), (231, 28978), (237, 29005), (253, 29080), (264, 29119), (269, 29134), (282, 29215), (284, 29227), (285, 29230), (287, 29245), (291, 29263), (293, 29269), (297, 29293), (299, 29299), (301, 29317), (303, 29326), (304, 29329), (311, 29386), (317, 29416), (324, 29455), (331, 29476), (349, 29578), (354, 29593),

Gene: InvictusManeo_34 Start: 29002, Stop: 30216, Start Num: 46

Candidate Starts for InvictusManeo_34:

(Start: 46 @29002 has 201 MA's), (52, 29020), (134, 29233), (147, 29281), (194, 29440), (199, 29464), (211, 29524), (219, 29554), (222, 29563), (227, 29578), (231, 29590), (253, 29695), (254, 29698), (259, 29716), (269, 29749), (274, 29782), (282, 29830), (284, 29842), (291, 29878), (297, 29908), (299, 29914), (302, 29935), (303, 29941), (304, 29944), (311, 30001), (317, 30031), (318, 30034), (340, 30166), (343, 30178), (349, 30193), (351, 30202),

Gene: Issmi_45 Start: 31069, Stop: 32271, Start Num: 65

Candidate Starts for Issmi_45:

(Start: 65 @31069 has 96 MA's), (125, 31240), (146, 31309), (150, 31330), (162, 31366), (182, 31435), (185, 31441), (198, 31495), (221, 31594), (252, 31726), (253, 31729), (265, 31777), (269, 31786), (271, 31810), (276, 31831), (315, 32065), (333, 32155), (348, 32242), (350, 32248), (353, 32260),

Gene: Itza_45 Start: 30099, Stop: 31292, Start Num: 66

Candidate Starts for Itza_45:

(Start: 66 @30099 has 5 MA's), (105, 30198), (111, 30219), (113, 30225), (146, 30339), (150, 30360), (161, 30396), (195, 30501), (198, 30516), (227, 30636), (242, 30708), (252, 30747), (253, 30750), (265, 30798), (269, 30807), (271, 30831), (273, 30840), (276, 30852), (315, 31086), (331, 31161), (333, 31176), (340, 31236), (353, 31281),

Gene: Izzy_44 Start: 29585, Stop: 30772, Start Num: 69

Candidate Starts for Izzy_44:

(Start: 69 @29585 has 6 MA's), (111, 29702), (113, 29708), (122, 29747), (135, 29783), (146, 29822), (179, 29939), (181, 29945), (198, 29999), (253, 30233), (265, 30281), (282, 30380), (297, 30458), (298, 30461), (302, 30485), (315, 30569), (333, 30659),

Gene: JAWS_35 Start: 28347, Stop: 29555, Start Num: 46

Candidate Starts for JAWS_35:

(Start: 46 @28347 has 201 MA's), (92, 28449), (129, 28560), (181, 28737), (194, 28779), (207, 28854), (227, 28920), (231, 28932), (237, 28959), (253, 29034), (264, 29073), (269, 29088), (282, 29169), (284, 29181), (285, 29184), (287, 29199), (291, 29217), (297, 29247), (299, 29253), (301, 29271), (303, 29280), (304, 29283), (311, 29340), (317, 29370), (324, 29409), (331, 29430), (349, 29532), (354, 29547),

Gene: JF1_36 Start: 29432, Stop: 30622, Start Num: 46

Candidate Starts for JF1_36:

(Start: 46 @29432 has 201 MA's), (Start: 110 @29588 has 45 MA's), (120, 29618), (129, 29648), (157, 29735), (161, 29747), (194, 29843), (198, 29861), (211, 29927), (227, 29981), (240, 30041), (241, 30050), (245, 30065), (252, 30095), (253, 30098), (268, 30149), (269, 30152), (282, 30233), (291, 30281), (293, 30287), (297, 30311), (299, 30317), (302, 30338), (308, 30383), (318, 30440), (341, 30575), (351, 30608), (354, 30614), (356, 30617),

Gene: Jace_84 Start: 45853, Stop: 47001, Start Num: 76

Candidate Starts for Jace_84:

(39, 45766), (59, 45826), (64, 45832), (Start: 76 @45853 has 1 MA's), (86, 45880), (106, 45940), (136, 46036), (172, 46171), (190, 46219), (194, 46225), (201, 46258), (207, 46297), (214, 46318), (227, 46363), (230, 46372), (240, 46423), (249, 46462), (254, 46480), (279, 46603), (281, 46609), (293, 46669), (301, 46717), (307, 46759), (308, 46762), (310, 46780), (313, 46795), (318, 46819), (328, 46864),

Gene: Janus_44 Start: 30489, Stop: 31688, Start Num: 65

Candidate Starts for Janus_44:

(Start: 65 @30489 has 96 MA's), (125, 30660), (146, 30729), (186, 30861), (198, 30912), (252, 31143), (253, 31146), (261, 31176), (265, 31194), (269, 31203), (276, 31248), (315, 31482), (332, 31563), (333, 31572), (348, 31659), (350, 31665), (353, 31677),

Gene: Jarvi_35 Start: 28393, Stop: 29601, Start Num: 46

Candidate Starts for Jarvi_35:

(Start: 38 @28369 has 1 MA's), (Start: 46 @28393 has 201 MA's), (92, 28495), (129, 28606), (157, 28714), (181, 28783), (194, 28825), (207, 28900), (227, 28966), (231, 28978), (237, 29005), (253, 29080), (264, 29119), (269, 29134), (282, 29215), (284, 29227), (285, 29230), (287, 29245), (291, 29263), (293, 29269), (297, 29293), (299, 29299), (301, 29317), (303, 29326), (304, 29329), (311, 29386), (317, 29416), (324, 29455), (331, 29476), (349, 29578), (354, 29593),

Gene: Jash_44 Start: 29538, Stop: 30725, Start Num: 69

Candidate Starts for Jash_44:

(Start: 69 @29538 has 6 MA's), (111, 29655), (113, 29661), (122, 29700), (135, 29736), (146, 29775), (179, 29892), (181, 29898), (198, 29952), (253, 30186), (265, 30234), (282, 30333), (297, 30411), (298, 30414), (302, 30438), (315, 30522), (333, 30612),

Gene: Jayhawk_35 Start: 28360, Stop: 29568, Start Num: 46

Candidate Starts for Jayhawk_35:

(Start: 46 @28360 has 201 MA's), (92, 28462), (129, 28573), (181, 28750), (194, 28792), (207, 28867), (227, 28933), (231, 28945), (237, 28972), (253, 29047), (264, 29086), (269, 29101), (282, 29182), (284, 29194), (285, 29197), (287, 29212), (291, 29230), (293, 29236), (297, 29260), (299, 29266), (301, 29284), (303, 29293), (304, 29296), (311, 29353), (317, 29383), (318, 29386), (324, 29422), (331, 29443), (349, 29545), (354, 29560),

Gene: Jeckyll_35 Start: 28393, Stop: 29601, Start Num: 46

Candidate Starts for Jeckyll_35:

(Start: 38 @28369 has 1 MA's), (Start: 46 @28393 has 201 MA's), (92, 28495), (129, 28606), (157, 28714), (181, 28783), (194, 28825), (207, 28900), (227, 28966), (231, 28978), (237, 29005), (253, 29080), (264, 29119), (269, 29134), (282, 29215), (284, 29227), (285, 29230), (287, 29245), (291, 29263), (293, 29269), (297, 29293), (299, 29299), (301, 29317), (303, 29326), (304, 29329), (311, 29386), (317, 29416), (324, 29455), (331, 29476), (349, 29578), (354, 29593),

Gene: Jevington_46 Start: 30880, Stop: 32070, Start Num: 65

Candidate Starts for Jevington_46:

(Start: 65 @30880 has 96 MA's), (105, 30979), (111, 31000), (113, 31006), (125, 31051), (139, 31090), (146, 31120), (150, 31141), (170, 31210), (181, 31237), (195, 31279), (198, 31294), (252, 31525), (253, 31528), (261, 31558), (265, 31576), (302, 31780), (315, 31864), (317, 31879), (332, 31945), (333, 31954), (342, 32023), (348, 32041), (350, 32047),

Gene: Jhitchelle_43 Start: 30346, Stop: 31533, Start Num: 65

Candidate Starts for Jhitchelle_43:

(Start: 65 @30346 has 96 MA's), (89, 30391), (105, 30442), (111, 30463), (113, 30469), (118, 30490), (146, 30583), (150, 30604), (181, 30706), (183, 30712), (198, 30760), (202, 30790), (242, 30952), (252, 30991), (253, 30994), (261, 31024), (265, 31042), (276, 31096), (293, 31195), (299, 31225), (333, 31420), (352, 31522),

Gene: Joy99_35 Start: 28322, Stop: 29530, Start Num: 46

Candidate Starts for Joy99_35:

(Start: 38 @28298 has 1 MA's), (Start: 46 @28322 has 201 MA's), (92, 28424), (129, 28535), (157, 28643), (181, 28712), (194, 28754), (207, 28829), (227, 28895), (231, 28907), (237, 28934), (253, 29009), (264, 29048), (269, 29063), (282, 29144), (284, 29156), (285, 29159), (287, 29174), (291, 29192), (293, 29198), (297, 29222), (299, 29228), (301, 29246), (303, 29255), (304, 29258), (311, 29315), (317, 29345), (324, 29384), (331, 29405), (349, 29507), (354, 29522),

Gene: JuicyJay_162 Start: 89653, Stop: 90813, Start Num: 49

Candidate Starts for JuicyJay_162:

(Start: 49 @89653 has 39 MA's), (54, 89671), (73, 89695), (101, 89779), (114, 89809), (164, 89932), (174, 89968), (194, 90025), (195, 90028), (200, 90058), (203, 90076), (228, 90157), (232, 90169), (246, 90235), (249, 90250), (258, 90283), (290, 90442), (296, 90478), (303, 90514), (310, 90571), (331, 90682), (339, 90754), (341, 90760), (351, 90790),

Gene: Juliette_38 Start: 29591, Stop: 30781, Start Num: 46

Candidate Starts for Juliette_38:

(Start: 46 @29591 has 201 MA's), (Start: 110 @29747 has 45 MA's), (120, 29777), (129, 29807), (157, 29894), (161, 29906), (194, 30002), (198, 30020), (211, 30086), (227, 30140), (240, 30200), (241, 30209), (245, 30224), (252, 30254), (253, 30257), (268, 30308), (269, 30311), (282, 30392), (291, 30440), (293, 30446), (297, 30470), (299, 30476), (302, 30497), (308, 30542), (318, 30599), (341, 30734), (351, 30767), (354, 30773), (356, 30776),

Gene: KSunshine22_164 Start: 111315, Stop: 109888, Start Num: 13

Candidate Starts for KSunshine22_164:

(3, 111417), (8, 111381), (12, 111324), (Start: 13 @111315 has 4 MA's), (14, 111279), (33, 111111), (34, 111108), (82, 111036), (185, 110739), (194, 110688), (246, 110478), (248, 110469), (299, 110220), (307, 110160), (340, 109947),

Gene: Kaine_43 Start: 30618, Stop: 31805, Start Num: 65

Candidate Starts for Kaine_43:

(Start: 65 @30618 has 96 MA's), (105, 30714), (111, 30735), (113, 30741), (118, 30762), (146, 30855), (150, 30876), (181, 30978), (183, 30984), (198, 31032), (242, 31224), (252, 31263), (253, 31266), (261, 31296), (265, 31314), (276, 31368), (282, 31413), (293, 31467), (333, 31692), (352, 31794),

Gene: Kalah2_164 Start: 89991, Stop: 91151, Start Num: 49

Candidate Starts for Kalah2_164:

(Start: 49 @89991 has 39 MA's), (54, 90009), (73, 90033), (101, 90117), (114, 90147), (164, 90270), (174, 90306), (194, 90363), (195, 90366), (200, 90396), (203, 90414), (228, 90495), (246, 90573), (248, 90582), (249, 90588), (290, 90780), (296, 90816), (303, 90852), (310, 90909), (331, 91020), (339, 91092), (341, 91098), (351, 91128),

Gene: KashFlow_165 Start: 88560, Stop: 89780, Start Num: 49

Candidate Starts for KashFlow_165:

(Start: 49 @88560 has 39 MA's), (Start: 75 @88608 has 1 MA's), (142, 88809), (152, 88860), (167, 88908), (174, 88935), (194, 88992), (195, 88995), (200, 89025), (203, 89043), (213, 89085), (228, 89124), (246, 89202), (248, 89211), (249, 89217), (258, 89250), (290, 89409), (296, 89445), (303, 89481), (310, 89538), (331, 89649), (339, 89721), (341, 89727), (351, 89757),

Gene: Katalie_43 Start: 29753, Stop: 30946, Start Num: 65

Candidate Starts for Katalie_43:

(Start: 65 @29753 has 96 MA's), (90, 29801), (111, 29867), (113, 29873), (146, 29987), (162, 30047), (187, 30128), (198, 30173), (218, 30263), (252, 30404), (253, 30407), (257, 30419), (265, 30455), (269, 30464), (276, 30509), (282, 30554), (293, 30608), (297, 30632), (298, 30635), (315, 30743), (333, 30833), (350, 30926), (352, 30935),

Gene: Keelan_120 Start: 57423, Stop: 58517, Start Num: 84

Candidate Starts for Keelan_120:

(Start: 84 @57423 has 6 MA's), (91, 57444), (145, 57579), (158, 57627), (211, 57819), (220, 57852), (222, 57858), (257, 58005), (268, 58047), (284, 58143), (290, 58167), (291, 58173), (297, 58203), (300, 58215), (302, 58230), (308, 58272), (318, 58329), (347, 58491),

Gene: Keiki_26 Start: 19265, Stop: 18219, Start Num: 110

Candidate Starts for Keiki_26:

(Start: 110 @19265 has 45 MA's), (168, 19073), (194, 18986), (234, 18830), (237, 18815), (251, 18746), (253, 18740), (254, 18737), (258, 18722), (271, 18662), (278, 18617), (295, 18530), (300, 18512), (319, 18401), (333, 18332), (340, 18272),

Gene: Keshu_36 Start: 29208, Stop: 30341, Start Num: 46

Candidate Starts for Keshu_36:

(Start: 46 @29208 has 201 MA's), (227, 29706), (231, 29718), (237, 29745), (253, 29820), (282, 29955), (285, 29970), (291, 30003), (293, 30009), (297, 30033), (302, 30060), (304, 30069), (311, 30126), (312, 30132), (349, 30318), (351, 30327), (354, 30333),

Gene: KiSi_35 Start: 27982, Stop: 29109, Start Num: 46

Candidate Starts for KiSi_35:

(Start: 46 @27982 has 201 MA's), (68, 28024), (121, 28171), (181, 28297), (194, 28336), (207, 28411), (227, 28474), (231, 28486), (237, 28513), (250, 28576), (253, 28588), (258, 28606), (269, 28642), (272, 28672), (282, 28723), (284, 28735), (287, 28753), (291, 28771), (293, 28777), (297, 28801), (299, 28807), (304, 28837), (311, 28894), (323, 28957), (331, 28984), (333, 28999), (342, 29068), (349, 29086), (354, 29101),

Gene: Klein_171 Start: 88330, Stop: 89490, Start Num: 49

Candidate Starts for Klein_171:

(Start: 49 @88330 has 39 MA's), (54, 88348), (73, 88372), (101, 88456), (114, 88486), (164, 88609), (174, 88645), (194, 88702), (195, 88705), (200, 88735), (203, 88753), (228, 88834), (246, 88912), (248, 88921), (249, 88927), (258, 88960), (290, 89119), (296, 89155), (303, 89191), (310, 89248), (331, 89359), (339, 89431), (341, 89437), (351, 89467),

Gene: Kratio_33 Start: 28633, Stop: 29847, Start Num: 46

Candidate Starts for Kratio_33:

(43, 28627), (Start: 46 @28633 has 201 MA's), (52, 28651), (134, 28864), (147, 28912), (194, 29071), (199, 29095), (211, 29155), (219, 29185), (222, 29194), (227, 29209), (231, 29221), (253, 29326), (254, 29329), (259, 29347), (269, 29380), (274, 29413), (282, 29461), (284, 29473), (291, 29509), (297, 29539), (299, 29545), (302, 29566), (303, 29572), (304, 29575), (311, 29632), (317, 29662), (318, 29665), (340, 29797), (343, 29809), (349, 29824), (351, 29833),

Gene: Kraw_36 Start: 29357, Stop: 30547, Start Num: 46

Candidate Starts for Kraw_36:

(Start: 46 @29357 has 201 MA's), (Start: 110 @29513 has 45 MA's), (120, 29543), (129, 29573), (157, 29660), (161, 29672), (194, 29768), (198, 29786), (211, 29852), (227, 29906), (240, 29966), (241, 29975), (245, 29990), (252, 30020), (253, 30023), (268, 30074), (269, 30077), (282, 30158), (291, 30206), (293, 30212), (297, 30236), (299, 30242), (302, 30263), (308, 30308), (318, 30365), (341, 30500), (351, 30533), (354, 30539), (356, 30542),

Gene: Krueger_35 Start: 27546, Stop: 28754, Start Num: 46

Candidate Starts for Krueger_35:

(Start: 46 @27546 has 201 MA's), (52, 27564), (92, 27648), (129, 27759), (134, 27777), (149, 27840), (181, 27939), (194, 27981), (227, 28119), (231, 28131), (237, 28158), (253, 28233), (269, 28287), (282, 28368), (291, 28416), (293, 28422), (297, 28446), (301, 28470), (302, 28473), (311, 28539), (331, 28629), (354, 28746),

Gene: Kubed_26 Start: 19311, Stop: 18268, Start Num: 110

Candidate Starts for Kubed_26:

(Start: 110 @19311 has 45 MA's), (139, 19221), (194, 19035), (234, 18879), (237, 18864), (251, 18795), (253, 18789), (254, 18786), (258, 18771), (295, 18579), (300, 18561), (319, 18450), (333, 18381), (340, 18321),

Gene: Kudfre_116 Start: 63427, Stop: 64569, Start Num: 77

Candidate Starts for Kudfre_116:

(Start: 77 @63427 has 7 MA's), (81, 63436), (119, 63559), (198, 63808), (205, 63853), (207, 63865), (214, 63886), (229, 63937), (235, 63958), (236, 63967), (237, 63970), (264, 64087), (268, 64099), (274, 64135), (282, 64183), (284, 64195), (293, 64237), (297, 64261), (299, 64267), (303, 64294), (308, 64330), (312, 64360), (318, 64387), (340, 64519), (341, 64522), (343, 64531), (351, 64555), (354, 64561),

Gene: Lannister_45 Start: 30215, Stop: 31405, Start Num: 65

Candidate Starts for Lannister_45:

(Start: 65 @30215 has 96 MA's), (90, 30263), (111, 30329), (146, 30449), (198, 30632), (218, 30722), (252, 30863), (253, 30866), (257, 30878), (262, 30899), (265, 30914), (269, 30923), (271, 30947), (276, 30968), (282, 31013), (293, 31067), (297, 31091), (298, 31094), (315, 31202), (333, 31292), (342, 31361), (346, 31376),

Gene: Larva_35 Start: 28797, Stop: 30011, Start Num: 46

Candidate Starts for Larva_35:

(43, 28791), (Start: 46 @28797 has 201 MA's), (52, 28815), (134, 29028), (147, 29076), (168, 29148), (194, 29235), (199, 29259), (211, 29319), (219, 29349), (222, 29358), (227, 29373), (231, 29385),

(249, 29475), (250, 29478), (253, 29490), (254, 29493), (259, 29511), (269, 29544), (274, 29577), (282, 29625), (284, 29637), (291, 29673), (297, 29703), (299, 29709), (303, 29736), (304, 29739), (311, 29796), (317, 29826), (340, 29961), (343, 29973), (349, 29988), (351, 29997),

Gene: LastHope_35 Start: 27530, Stop: 28738, Start Num: 46

Candidate Starts for LastHope_35:

(Start: 46 @27530 has 201 MA's), (92, 27632), (Start: 110 @27683 has 45 MA's), (129, 27743), (134, 27761), (157, 27851), (181, 27920), (194, 27962), (207, 28037), (227, 28103), (231, 28115), (237, 28142), (253, 28217), (264, 28256), (268, 28268), (269, 28271), (282, 28352), (284, 28364), (285, 28367), (287, 28382), (291, 28400), (293, 28406), (297, 28430), (299, 28436), (301, 28454), (303, 28463), (304, 28466), (311, 28523), (324, 28592), (331, 28613), (349, 28715), (354, 28730),

Gene: LaterM_35 Start: 28307, Stop: 29515, Start Num: 46

Candidate Starts for LaterM_35:

(Start: 46 @28307 has 201 MA's), (92, 28409), (129, 28520), (134, 28538), (181, 28697), (194, 28739), (207, 28814), (227, 28880), (231, 28892), (237, 28919), (253, 28994), (264, 29033), (268, 29045), (269, 29048), (282, 29129), (284, 29141), (285, 29144), (287, 29159), (291, 29177), (293, 29183), (297, 29207), (299, 29213), (301, 29231), (303, 29240), (304, 29243), (311, 29300), (317, 29330), (318, 29333), (324, 29369), (349, 29492), (354, 29507),

Gene: Lauchelly_26 Start: 19372, Stop: 18326, Start Num: 110

Candidate Starts for Lauchelly_26:

(Start: 110 @19372 has 45 MA's), (209, 19018), (234, 18937), (237, 18922), (245, 18880), (251, 18853), (253, 18847), (254, 18844), (258, 18829), (271, 18769), (295, 18637), (300, 18619), (319, 18508), (333, 18439), (340, 18379),

Gene: Laure_171 Start: 105099, Stop: 103924, Start Num: 72

Candidate Starts for Laure_171:

(Start: 13 @105360 has 4 MA's), (23, 105231), (26, 105222), (44, 105135), (72, 105099), (191, 104751), (246, 104514), (307, 104196), (339, 103986), (340, 103983),

Gene: Lavahound_33 Start: 28332, Stop: 29465, Start Num: 46

Candidate Starts for Lavahound_33:

(Start: 46 @28332 has 201 MA's), (121, 28521), (173, 28626), (181, 28647), (194, 28692), (207, 28767), (231, 28842), (236, 28866), (253, 28944), (264, 28983), (269, 28998), (282, 29079), (293, 29133), (297, 29157), (301, 29181), (304, 29193), (311, 29250), (317, 29280), (324, 29319), (331, 29340), (333, 29355), (356, 29460),

Gene: LeMond_35 Start: 28053, Stop: 29180, Start Num: 46

Candidate Starts for LeMond_35:

(Start: 46 @28053 has 201 MA's), (68, 28095), (121, 28242), (181, 28368), (194, 28407), (207, 28482), (227, 28545), (231, 28557), (237, 28584), (250, 28647), (253, 28659), (258, 28677), (269, 28713), (272, 28743), (282, 28794), (284, 28806), (287, 28824), (291, 28842), (293, 28848), (297, 28872), (299, 28878), (304, 28908), (311, 28965), (323, 29028), (331, 29055), (333, 29070), (342, 29139), (349, 29157), (354, 29172),

Gene: Lea83_36 Start: 29278, Stop: 30408, Start Num: 46

Candidate Starts for Lea83_36:

(Start: 46 @29278 has 201 MA's), (52, 29296), (68, 29320), (121, 29467), (181, 29593), (194, 29635), (207, 29710), (227, 29773), (231, 29785), (249, 29872), (282, 30022), (291, 30070), (293, 30076), (297, 30100), (302, 30127), (304, 30136), (311, 30193), (317, 30223), (324, 30262), (331, 30283), (333, 30298), (349, 30385), (351, 30394), (354, 30400),

Gene: Lebo14_36 Start: 29446, Stop: 30636, Start Num: 46

Candidate Starts for Lebo14_36:

(Start: 46 @29446 has 201 MA's), (Start: 110 @29602 has 45 MA's), (120, 29632), (129, 29662), (157, 29749), (194, 29857), (211, 29941), (227, 29995), (240, 30055), (241, 30064), (245, 30079), (253, 30112), (268, 30163), (269, 30166), (282, 30247), (291, 30295), (293, 30301), (297, 30325), (299, 30331), (302, 30352), (308, 30397), (318, 30454), (341, 30589), (342, 30595), (351, 30622), (354, 30628), (356, 30631),

Gene: Legacy_43 Start: 29187, Stop: 30377, Start Num: 65

Candidate Starts for Legacy_43:

(40, 29124), (Start: 65 @29187 has 96 MA's), (90, 29235), (111, 29301), (146, 29421), (198, 29604), (218, 29694), (252, 29835), (253, 29838), (257, 29850), (265, 29886), (269, 29895), (271, 29919), (276, 29940), (297, 30063), (298, 30066), (315, 30174), (333, 30264), (352, 30366),

Gene: LeoJr_171 Start: 114050, Stop: 112527, Start Num: 13

Candidate Starts for LeoJr_171:

(12, 114059), (Start: 13 @114050 has 4 MA's), (14, 114014), (17, 113978), (24, 113924), (36, 113819), (44, 113795), (79, 113723), (82, 113714), (131, 113555), (137, 113534), (154, 113477), (185, 113378), (207, 113252), (246, 113117), (290, 112901), (307, 112799), (340, 112586), (342, 112577),

Gene: Leston_34 Start: 29054, Stop: 30271, Start Num: 46

Candidate Starts for Leston_34:

(Start: 46 @29054 has 201 MA's), (52, 29075), (134, 29288), (147, 29336), (194, 29495), (198, 29513), (200, 29528), (211, 29579), (219, 29609), (222, 29618), (227, 29633), (231, 29645), (249, 29735), (253, 29750), (254, 29753), (259, 29771), (264, 29789), (269, 29804), (274, 29837), (282, 29885), (284, 29897), (291, 29933), (297, 29963), (299, 29969), (302, 29990), (303, 29996), (304, 29999), (311, 30056), (317, 30086), (318, 30089), (323, 30119), (340, 30221), (349, 30248), (351, 30257),

Gene: Leviosa_26 Start: 19363, Stop: 18320, Start Num: 110

Candidate Starts for Leviosa_26:

(Start: 110 @19363 has 45 MA's), (234, 18931), (237, 18916), (245, 18874), (251, 18847), (253, 18841), (254, 18838), (258, 18823), (264, 18802), (278, 18718), (295, 18631), (300, 18613), (319, 18502), (333, 18433), (340, 18373),

Gene: Leviticus_43 Start: 29216, Stop: 30406, Start Num: 65

Candidate Starts for Leviticus_43:

(40, 29153), (Start: 65 @29216 has 96 MA's), (90, 29264), (111, 29330), (138, 29417), (146, 29450), (198, 29633), (218, 29723), (252, 29864), (253, 29867), (257, 29879), (265, 29915), (269, 29924), (271, 29948), (276, 29969), (297, 30092), (298, 30095), (315, 30203), (333, 30293), (352, 30395),

Gene: Lika_43 Start: 30025, Stop: 31215, Start Num: 65

Candidate Starts for Lika_43:

(Start: 65 @30025 has 96 MA's), (90, 30073), (111, 30139), (113, 30145), (146, 30259), (185, 30388), (198, 30442), (218, 30532), (252, 30673), (253, 30676), (257, 30688), (265, 30724), (269, 30733), (271, 30757), (276, 30778), (282, 30823), (293, 30877), (298, 30904), (315, 31012), (333, 31102), (350, 31195),

Gene: LilBandit_26 Start: 19151, Stop: 18105, Start Num: 110

Candidate Starts for LilBandit_26:

(Start: 110 @19151 has 45 MA's), (139, 19061), (194, 18872), (234, 18716), (237, 18701), (251, 18632), (253, 18626), (254, 18623), (258, 18608), (271, 18548), (278, 18503), (295, 18416), (319, 18287), (333, 18218), (340, 18158),

Gene: LilJank_111 Start: 65701, Stop: 66828, Start Num: 77

Candidate Starts for LilJank_111:

(Start: 77 @65701 has 7 MA's), (113, 65803), (126, 65836), (194, 66049), (227, 66190), (233, 66205), (235, 66217), (237, 66229), (254, 66307), (264, 66346), (269, 66361), (272, 66391), (274, 66394), (284, 66454), (286, 66460), (290, 66484), (291, 66490), (293, 66496), (297, 66520), (303, 66553), (308, 66589), (311, 66613), (320, 66661), (343, 66790), (344, 66793), (351, 66814), (354, 66820), (356, 66823),

Gene: LilPharaoh_31 Start: 27784, Stop: 28920, Start Num: 46

Candidate Starts for LilPharaoh_31:

(Start: 46 @27784 has 201 MA's), (68, 27826), (89, 27871), (107, 27928), (121, 27973), (168, 28060), (187, 28117), (207, 28219), (227, 28285), (231, 28297), (236, 28321), (237, 28324), (253, 28399), (260, 28426), (264, 28438), (269, 28453), (282, 28534), (284, 28546), (291, 28582), (297, 28612), (299, 28618), (301, 28636), (303, 28645), (304, 28648), (317, 28735), (323, 28768), (324, 28774), (331, 28795), (349, 28897), (356, 28915),

Gene: LindNT_35 Start: 28323, Stop: 29531, Start Num: 46

Candidate Starts for LindNT_35:

(Start: 46 @28323 has 201 MA's), (92, 28425), (129, 28536), (134, 28554), (181, 28713), (194, 28755), (207, 28830), (227, 28896), (231, 28908), (237, 28935), (253, 29010), (264, 29049), (268, 29061), (269, 29064), (282, 29145), (284, 29157), (287, 29175), (291, 29193), (293, 29199), (297, 29223), (299, 29229), (303, 29256), (304, 29259), (311, 29316), (317, 29346), (324, 29385), (331, 29406), (349, 29508), (354, 29523),

Gene: LittleE_175 Start: 89583, Stop: 90803, Start Num: 49

Candidate Starts for LittleE_175:

(Start: 49 @89583 has 39 MA's), (Start: 75 @89631 has 1 MA's), (142, 89832), (152, 89883), (167, 89931), (174, 89958), (194, 90015), (195, 90018), (200, 90048), (203, 90066), (213, 90108), (228, 90147), (246, 90225), (248, 90234), (249, 90240), (258, 90273), (290, 90432), (296, 90468), (303, 90504), (310, 90561), (331, 90672), (339, 90744), (341, 90750), (351, 90780),

Gene: Llorens_35 Start: 28393, Stop: 29601, Start Num: 46

Candidate Starts for Llorens_35:

(Start: 38 @28369 has 1 MA's), (Start: 46 @28393 has 201 MA's), (92, 28495), (129, 28606), (157, 28714), (181, 28783), (194, 28825), (207, 28900), (227, 28966), (231, 28978), (237, 29005), (253, 29080), (264, 29119), (269, 29134), (282, 29215), (284, 29227), (285, 29230), (287, 29245), (291, 29263), (293, 29269), (297, 29293), (299, 29299), (301, 29317), (303, 29326), (304, 29329), (311, 29386), (317, 29416), (324, 29455), (331, 29476), (349, 29578), (354, 29593),

Gene: Loofah_45 Start: 30872, Stop: 32077, Start Num: 65

Candidate Starts for Loofah_45:

(Start: 65 @30872 has 96 MA's), (105, 30971), (113, 30998), (139, 31082), (146, 31112), (150, 31133), (182, 31241), (198, 31301), (202, 31331), (206, 31352), (218, 31391), (227, 31421), (252, 31532), (253, 31535), (261, 31565), (265, 31583), (271, 31616), (276, 31637), (302, 31787), (315, 31871), (316, 31880), (333, 31961), (350, 32054),

Gene: Lorelei_44 Start: 30076, Stop: 31266, Start Num: 65

Candidate Starts for Lorelei_44:

(Start: 65 @30076 has 96 MA's), (90, 30124), (111, 30190), (113, 30196), (146, 30310), (198, 30493), (218, 30583), (252, 30724), (253, 30727), (257, 30739), (265, 30775), (269, 30784), (271, 30808), (276, 30829), (282, 30874), (293, 30928), (297, 30952), (298, 30955), (302, 30979), (315, 31063), (318, 31081), (333, 31153), (342, 31222),

Gene: Lucky2013_164 Start: 85080, Stop: 86300, Start Num: 49

Candidate Starts for Lucky2013_164:

(Start: 49 @85080 has 39 MA's), (Start: 75 @85128 has 1 MA's), (142, 85329), (152, 85380), (167, 85428), (174, 85455), (194, 85512), (195, 85515), (200, 85545), (203, 85563), (213, 85605), (228, 85644), (246, 85722), (248, 85731), (249, 85737), (258, 85770), (290, 85929), (296, 85965), (303, 86001), (310, 86058), (331, 86169), (339, 86241), (341, 86247), (351, 86277),

Gene: Lunahalos_35 Start: 28393, Stop: 29601, Start Num: 46

Candidate Starts for Lunahalos_35:

(Start: 38 @28369 has 1 MA's), (43, 28387), (Start: 46 @28393 has 201 MA's), (92, 28495), (129, 28606), (157, 28714), (181, 28783), (194, 28825), (207, 28900), (227, 28966), (231, 28978), (237, 29005), (253, 29080), (264, 29119), (269, 29134), (282, 29215), (284, 29227), (285, 29230), (287, 29245), (291, 29263), (293, 29269), (297, 29293), (299, 29299), (301, 29317), (303, 29326), (304, 29329), (311, 29386), (317, 29416), (324, 29455), (331, 29476), (349, 29578), (354, 29593),

Gene: MEAK_26 Start: 19317, Stop: 18271, Start Num: 110

Candidate Starts for MEAK_26:

(Start: 110 @19317 has 45 MA's), (168, 19125), (194, 19038), (209, 18963), (234, 18882), (237, 18867), (245, 18825), (251, 18798), (253, 18792), (254, 18789), (258, 18774), (271, 18714), (295, 18582), (300, 18564), (319, 18453), (333, 18384), (340, 18324),

Gene: MacKat_35 Start: 28370, Stop: 29578, Start Num: 46

Candidate Starts for MacKat_35:

(Start: 38 @28346 has 1 MA's), (Start: 46 @28370 has 201 MA's), (92, 28472), (129, 28583), (181, 28760), (194, 28802), (207, 28877), (227, 28943), (231, 28955), (237, 28982), (253, 29057), (264, 29096), (269, 29111), (282, 29192), (284, 29204), (285, 29207), (287, 29222), (291, 29240), (297, 29270), (299, 29276), (301, 29294), (303, 29303), (304, 29306), (311, 29363), (317, 29393), (324, 29432), (331, 29453), (349, 29555), (354, 29570),

Gene: MacnCheese_36 Start: 29261, Stop: 30394, Start Num: 46

Candidate Starts for MacnCheese_36:

(Start: 46 @29261 has 201 MA's), (92, 29363), (121, 29450), (181, 29579), (194, 29621), (227, 29759), (231, 29771), (236, 29795), (237, 29798), (253, 29873), (264, 29912), (282, 30008), (291, 30056), (293, 30062), (297, 30086), (302, 30113), (304, 30122), (311, 30179), (312, 30185), (337, 30332), (349, 30371), (351, 30380), (354, 30386),

Gene: MalagasyRose_35 Start: 27663, Stop: 28874, Start Num: 46

Candidate Starts for MalagasyRose_35:

(41, 27651), (43, 27657), (Start: 46 @27663 has 201 MA's), (92, 27765), (129, 27876), (134, 27894), (173, 28032), (184, 28062), (189, 28080), (200, 28131), (211, 28182), (227, 28236), (231, 28248), (249, 28338), (250, 28341), (253, 28353), (254, 28356), (257, 28365), (264, 28392), (268, 28404), (269, 28407), (282, 28488), (286, 28506), (297, 28566), (299, 28572), (301, 28590), (302, 28593), (303, 28599), (304, 28602), (311, 28659), (318, 28692), (322, 28719), (342, 28833), (343, 28836), (351, 28860), (356, 28869),

Gene: Malthus_37 Start: 29357, Stop: 30547, Start Num: 46

Candidate Starts for Malthus_37:

(Start: 46 @29357 has 201 MA's), (Start: 110 @29513 has 45 MA's), (120, 29543), (129, 29573), (157, 29660), (161, 29672), (194, 29768), (198, 29786), (211, 29852), (227, 29906), (240, 29966), (241, 29975), (245, 29990), (252, 30020), (253, 30023), (268, 30074), (269, 30077), (282, 30158), (291, 30206), (293, 30212), (297, 30236), (299, 30242), (302, 30263), (308, 30308), (318, 30365), (341, 30500), (351, 30533), (354, 30539), (356, 30542),

Gene: Maneekul_43 Start: 29580, Stop: 30770, Start Num: 65

Candidate Starts for Maneekul_43:

(Start: 65 @29580 has 96 MA's), (90, 29628), (111, 29694), (146, 29814), (198, 29997), (218, 30087), (252, 30228), (253, 30231), (257, 30243), (265, 30279), (269, 30288), (271, 30312), (276, 30333), (282, 30378), (293, 30432), (298, 30459), (315, 30567), (333, 30657),

Gene: Marav_47 Start: 31202, Stop: 32392, Start Num: 65

Candidate Starts for Marav_47:

(Start: 65 @31202 has 96 MA's), (105, 31301), (111, 31322), (113, 31328), (125, 31373), (139, 31412), (146, 31442), (150, 31463), (195, 31601), (198, 31616), (252, 31847), (253, 31850), (261, 31880), (265, 31898), (302, 32102), (315, 32186), (332, 32267), (333, 32276), (342, 32345), (348, 32363), (350, 32369),

Gene: Marcoliusprime_34 Start: 27629, Stop: 28813, Start Num: 46

Candidate Starts for Marcoliusprime_34:

(Start: 46 @27629 has 201 MA's), (63, 27662), (120, 27812), (129, 27842), (173, 27974), (207, 28115), (227, 28178), (253, 28292), (254, 28295), (291, 28475), (297, 28505), (299, 28511), (302, 28532), (303, 28538), (311, 28598), (317, 28628), (331, 28688), (349, 28790), (356, 28808),

Gene: MarkPhew_36 Start: 27954, Stop: 29081, Start Num: 46

Candidate Starts for MarkPhew_36:

(Start: 46 @27954 has 201 MA's), (78, 28014), (181, 28269), (207, 28383), (227, 28446), (231, 28458), (236, 28482), (237, 28485), (250, 28548), (253, 28560), (258, 28578), (269, 28614), (272, 28644), (282, 28695), (284, 28707), (293, 28749), (297, 28773), (299, 28779), (301, 28797), (303, 28806), (311, 28866), (323, 28929), (331, 28956), (333, 28971), (349, 29058), (354, 29073),

Gene: Marleymoo_154 Start: 86843, Stop: 88003, Start Num: 49

Candidate Starts for Marleymoo_154:

(Start: 49 @86843 has 39 MA's), (54, 86861), (73, 86885), (86, 86918), (101, 86969), (114, 86999), (164, 87122), (174, 87158), (194, 87215), (195, 87218), (200, 87248), (203, 87266), (228, 87347), (246, 87425), (248, 87434), (249, 87440), (290, 87632), (296, 87668), (303, 87704), (310, 87761), (331, 87872), (339, 87944), (341, 87950), (351, 87980),

Gene: Marshawn_37 Start: 28595, Stop: 29722, Start Num: 46

Candidate Starts for Marshawn_37:

(Start: 38 @28571 has 1 MA's), (Start: 46 @28595 has 201 MA's), (68, 28637), (121, 28784), (181, 28910), (194, 28949), (198, 28967), (227, 29087), (231, 29099), (236, 29123), (237, 29126), (250, 29189), (253, 29201), (258, 29219), (264, 29240), (269, 29255), (272, 29285), (282, 29336), (284, 29348), (287, 29366), (293, 29390), (297, 29414), (299, 29420), (302, 29441), (304, 29450), (311, 29507), (331, 29597), (333, 29612), (349, 29699), (354, 29714),

Gene: McMater_35 Start: 27680, Stop: 28810, Start Num: 46

Candidate Starts for McMater_35:

(Start: 46 @27680 has 201 MA's), (68, 27722), (87, 27764), (121, 27869), (181, 27995), (194, 28037), (207, 28112), (227, 28175), (231, 28187), (236, 28211), (237, 28214), (253, 28289), (264, 28328), (268, 28340), (269, 28343), (282, 28424), (284, 28436), (291, 28472), (297, 28502), (299, 28508), (301, 28526), (303, 28535), (304, 28538), (317, 28625), (324, 28664), (331, 28685), (349, 28787), (354, 28802),

Gene: Mdavu_31 Start: 27772, Stop: 28908, Start Num: 46

Candidate Starts for Mdavu_31:

(Start: 46 @27772 has 201 MA's), (68, 27814), (89, 27859), (107, 27916), (121, 27961), (168, 28048), (187, 28105), (207, 28207), (227, 28273), (231, 28285), (236, 28309), (237, 28312), (253, 28387),

(260, 28414), (264, 28426), (269, 28441), (282, 28522), (284, 28534), (291, 28570), (297, 28600), (299, 28606), (301, 28624), (303, 28633), (304, 28636), (317, 28723), (323, 28756), (324, 28762), (331, 28783), (349, 28885), (356, 28903),

Gene: MeaningOfLife_35 Start: 28338, Stop: 29546, Start Num: 46

Candidate Starts for MeaningOfLife_35:

(Start: 46 @28338 has 201 MA's), (92, 28440), (Start: 110 @28491 has 45 MA's), (129, 28551), (173, 28707), (194, 28770), (207, 28845), (227, 28911), (231, 28923), (237, 28950), (253, 29025), (264, 29064), (269, 29079), (282, 29160), (284, 29172), (285, 29175), (287, 29190), (291, 29208), (293, 29214), (297, 29238), (299, 29244), (301, 29262), (303, 29271), (304, 29274), (311, 29331), (317, 29361), (324, 29400), (331, 29421), (349, 29523), (354, 29538),

Gene: Megsy_35 Start: 28326, Stop: 29534, Start Num: 46

Candidate Starts for Megsy_35:

(Start: 46 @28326 has 201 MA's), (92, 28428), (129, 28539), (134, 28557), (181, 28716), (194, 28758), (207, 28833), (227, 28899), (231, 28911), (237, 28938), (253, 29013), (264, 29052), (268, 29064), (269, 29067), (282, 29148), (284, 29160), (285, 29163), (287, 29178), (291, 29196), (293, 29202), (297, 29226), (299, 29232), (301, 29250), (303, 29259), (304, 29262), (311, 29319), (317, 29349), (324, 29388), (331, 29409), (349, 29511), (354, 29526),

Gene: MiaZeal_171 Start: 86227, Stop: 87447, Start Num: 49

Candidate Starts for MiaZeal_171:

(Start: 49 @86227 has 39 MA's), (Start: 75 @86275 has 1 MA's), (152, 86527), (167, 86575), (174, 86602), (194, 86659), (195, 86662), (200, 86692), (203, 86710), (228, 86791), (246, 86869), (248, 86878), (249, 86884), (258, 86917), (290, 87076), (296, 87112), (303, 87148), (310, 87205), (331, 87316), (339, 87388), (341, 87394), (351, 87424),

Gene: Milly_34 Start: 27602, Stop: 28786, Start Num: 46

Candidate Starts for Milly_34:

(Start: 46 @27602 has 201 MA's), (63, 27635), (120, 27785), (129, 27815), (173, 27947), (207, 28088), (227, 28151), (235, 28178), (237, 28190), (253, 28265), (254, 28268), (291, 28448), (297, 28478), (299, 28484), (302, 28505), (303, 28511), (311, 28571), (317, 28601), (331, 28661), (349, 28763), (356, 28781),

Gene: Mimi_170 Start: 113574, Stop: 112246, Start Num: 21

Candidate Starts for Mimi_170:

(Start: 21 @113574 has 4 MA's), (85, 113349), (236, 112851), (253, 112773), (323, 112401),

Gene: Minerva_167 Start: 88071, Stop: 89231, Start Num: 49

Candidate Starts for Minerva_167:

(Start: 49 @88071 has 39 MA's), (54, 88089), (73, 88113), (101, 88197), (114, 88227), (164, 88350), (174, 88386), (194, 88443), (195, 88446), (200, 88476), (203, 88494), (228, 88575), (246, 88653), (248, 88662), (249, 88668), (290, 88860), (296, 88896), (303, 88932), (310, 88989), (331, 89100), (339, 89172), (341, 89178), (351, 89208),

Gene: Miryou_34 Start: 28909, Stop: 30126, Start Num: 46

Candidate Starts for Miryou_34:

(Start: 46 @28909 has 201 MA's), (52, 28930), (134, 29143), (147, 29191), (194, 29350), (198, 29368), (200, 29383), (211, 29434), (218, 29461), (219, 29464), (222, 29473), (227, 29488), (231, 29500), (249, 29590), (253, 29605), (254, 29608), (259, 29626), (264, 29644), (274, 29692), (282, 29740), (284, 29752), (291, 29788), (297, 29818), (299, 29824), (302, 29845), (303, 29851), (304, 29854), (311, 29911), (317, 29941), (318, 29944), (340, 30076), (349, 30103), (351, 30112),

Gene: MissDaisy_36 Start: 29200, Stop: 30390, Start Num: 46

Candidate Starts for MissDaisy_36:

(Start: 46 @29200 has 201 MA's), (Start: 110 @29356 has 45 MA's), (120, 29386), (129, 29416), (157, 29503), (194, 29611), (211, 29695), (227, 29749), (240, 29809), (241, 29818), (245, 29833), (253, 29866), (268, 29917), (269, 29920), (282, 30001), (291, 30049), (293, 30055), (297, 30079), (299, 30085), (300, 30091), (302, 30106), (308, 30151), (318, 30208), (341, 30343), (342, 30349), (351, 30376), (354, 30382), (356, 30385),

Gene: Mitti_36 Start: 29358, Stop: 30548, Start Num: 46

Candidate Starts for Mitti_36:

(Start: 46 @29358 has 201 MA's), (Start: 110 @29514 has 45 MA's), (120, 29544), (129, 29574), (157, 29661), (194, 29769), (211, 29853), (227, 29907), (240, 29967), (241, 29976), (245, 29991), (253, 30024), (268, 30075), (269, 30078), (282, 30159), (291, 30207), (293, 30213), (297, 30237), (299, 30243), (302, 30264), (308, 30309), (318, 30366), (341, 30501), (342, 30507), (351, 30534), (354, 30540), (356, 30543),

Gene: Moyashi_26 Start: 19421, Stop: 18375, Start Num: 110

Candidate Starts for Moyashi_26:

(Start: 110 @19421 has 45 MA's), (139, 19331), (209, 19067), (234, 18986), (237, 18971), (251, 18902), (253, 18896), (254, 18893), (278, 18773), (295, 18686), (300, 18668), (319, 18557), (333, 18488), (340, 18428),

Gene: MrAK_26 Start: 19430, Stop: 18384, Start Num: 110

Candidate Starts for MrAK_26:

(Start: 110 @19430 has 45 MA's), (139, 19340), (234, 18995), (237, 18980), (251, 18911), (253, 18905), (254, 18902), (258, 18887), (278, 18782), (295, 18695), (300, 18677), (319, 18566), (333, 18497), (340, 18437),

Gene: Mufasa_35 Start: 27710, Stop: 28894, Start Num: 46

Candidate Starts for Mufasa_35:

(Start: 46 @27710 has 201 MA's), (63, 27743), (120, 27893), (129, 27923), (173, 28055), (194, 28121), (207, 28196), (227, 28259), (235, 28286), (237, 28298), (253, 28373), (254, 28376), (291, 28556), (297, 28586), (299, 28592), (302, 28613), (303, 28619), (311, 28679), (317, 28709), (331, 28769), (356, 28889),

Gene: Murucutumbu_35 Start: 28326, Stop: 29534, Start Num: 46

Candidate Starts for Murucutumbu_35:

(Start: 46 @28326 has 201 MA's), (92, 28428), (129, 28539), (134, 28557), (181, 28716), (194, 28758), (207, 28833), (227, 28899), (231, 28911), (237, 28938), (253, 29013), (264, 29052), (268, 29064), (269, 29067), (282, 29148), (284, 29160), (285, 29163), (287, 29178), (291, 29196), (293, 29202), (297, 29226), (299, 29232), (301, 29250), (303, 29259), (304, 29262), (311, 29319), (317, 29349), (324, 29388), (349, 29511), (354, 29526),

Gene: Mynx_35 Start: 28376, Stop: 29584, Start Num: 46

Candidate Starts for Mynx_35:

(Start: 46 @28376 has 201 MA's), (92, 28478), (129, 28589), (181, 28766), (194, 28808), (207, 28883), (227, 28949), (231, 28961), (237, 28988), (253, 29063), (264, 29102), (269, 29117), (282, 29198), (284, 29210), (285, 29213), (287, 29228), (291, 29246), (297, 29276), (299, 29282), (301, 29300), (303, 29309), (304, 29312), (311, 29369), (317, 29399), (324, 29438), (331, 29459), (349, 29561), (354, 29576),

Gene: Nabi_44 Start: 30076, Stop: 31266, Start Num: 65

Candidate Starts for Nabi_44:

(Start: 65 @30076 has 96 MA's), (90, 30124), (111, 30190), (113, 30196), (146, 30310), (198, 30493), (218, 30583), (252, 30724), (253, 30727), (257, 30739), (265, 30775), (269, 30784), (271, 30808), (276, 30829), (282, 30874), (293, 30928), (297, 30952), (298, 30955), (302, 30979), (315, 31063), (318, 31081), (333, 31153), (342, 31222),

Gene: Nanodon_45 Start: 29859, Stop: 31049, Start Num: 65

Candidate Starts for Nanodon_45:

(37, 29790), (Start: 65 @29859 has 96 MA's), (90, 29907), (94, 29919), (111, 29973), (146, 30093), (168, 30171), (186, 30225), (187, 30231), (198, 30276), (218, 30366), (252, 30507), (253, 30510), (257, 30522), (265, 30558), (269, 30567), (276, 30612), (282, 30657), (315, 30846), (333, 30936), (352, 31038),

Gene: Neighly_35 Start: 28796, Stop: 30010, Start Num: 46

Candidate Starts for Neighly_35:

(43, 28790), (Start: 46 @28796 has 201 MA's), (52, 28814), (134, 29027), (147, 29075), (168, 29147), (194, 29234), (199, 29258), (211, 29318), (219, 29348), (222, 29357), (227, 29372), (231, 29384), (249, 29474), (250, 29477), (253, 29489), (254, 29492), (259, 29510), (269, 29543), (274, 29576), (282, 29624), (284, 29636), (291, 29672), (297, 29702), (299, 29708), (303, 29735), (304, 29738), (311, 29795), (317, 29825), (340, 29960), (343, 29972), (349, 29987), (351, 29996),

Gene: Nekros_166 Start: 88027, Stop: 89247, Start Num: 49

Candidate Starts for Nekros_166:

(Start: 49 @88027 has 39 MA's), (Start: 75 @88075 has 1 MA's), (142, 88276), (152, 88327), (167, 88375), (174, 88402), (194, 88459), (195, 88462), (200, 88492), (203, 88510), (228, 88591), (246, 88669), (248, 88678), (249, 88684), (290, 88876), (296, 88912), (303, 88948), (310, 89005), (331, 89116), (339, 89188), (341, 89194), (351, 89224),

Gene: Nerdos_42 Start: 29211, Stop: 30401, Start Num: 65

Candidate Starts for Nerdos_42:

(40, 29148), (Start: 65 @29211 has 96 MA's), (90, 29259), (111, 29325), (138, 29412), (146, 29445), (198, 29628), (218, 29718), (252, 29859), (253, 29862), (257, 29874), (265, 29910), (269, 29919), (271, 29943), (276, 29964), (297, 30087), (298, 30090), (315, 30198), (333, 30288), (352, 30390),

Gene: Nergal_31 Start: 26074, Stop: 27270, Start Num: 46

Candidate Starts for Nergal_31:

(43, 26068), (Start: 46 @26074 has 201 MA's), (120, 26263), (129, 26293), (157, 26380), (194, 26494), (198, 26512), (200, 26527), (227, 26632), (231, 26644), (253, 26749), (293, 26938), (301, 26986), (304, 26998), (306, 27019), (311, 27055), (317, 27085), (321, 27112), (351, 27256), (354, 27262), (356, 27265),

Gene: Neville_113 Start: 64325, Stop: 65452, Start Num: 77

Candidate Starts for Neville_113:

(Start: 77 @64325 has 7 MA's), (113, 64427), (126, 64460), (194, 64673), (227, 64814), (233, 64829), (235, 64841), (237, 64853), (254, 64931), (264, 64970), (269, 64985), (272, 65015), (274, 65018), (284, 65078), (286, 65084), (290, 65108), (293, 65120), (297, 65144), (302, 65171), (303, 65177), (308, 65213), (311, 65237), (320, 65285), (343, 65414), (344, 65417), (351, 65438), (354, 65444), (356, 65447),

Gene: Nibb_34 Start: 27521, Stop: 28648, Start Num: 46

Candidate Starts for Nibb_34:

(Start: 46 @27521 has 201 MA's), (121, 27710), (181, 27836), (207, 27950), (227, 28013), (231, 28025), (237, 28052), (250, 28115), (253, 28127), (258, 28145), (269, 28181), (272, 28211), (282, 28262), (284, 28274), (286, 28280), (287, 28292), (293, 28316), (297, 28340), (299, 28346), (301,

28364), (303, 28373), (304, 28376), (311, 28433), (323, 28496), (331, 28523), (333, 28538), (343, 28610), (349, 28625),

Gene: Nibley_161 Start: 85188, Stop: 86408, Start Num: 49

Candidate Starts for Nibley_161:

(Start: 49 @85188 has 39 MA's), (Start: 75 @85236 has 1 MA's), (142, 85437), (152, 85488), (167, 85536), (174, 85563), (194, 85620), (195, 85623), (200, 85653), (203, 85671), (228, 85752), (246, 85830), (248, 85839), (249, 85845), (258, 85878), (290, 86037), (296, 86073), (303, 86109), (310, 86166), (331, 86277), (339, 86349), (341, 86355), (351, 86385),

Gene: NihilNomen_169 Start: 87779, Stop: 88939, Start Num: 49

Candidate Starts for NihilNomen_169:

(Start: 49 @87779 has 39 MA's), (54, 87797), (73, 87821), (101, 87905), (114, 87935), (164, 88058), (174, 88094), (194, 88151), (195, 88154), (200, 88184), (203, 88202), (228, 88283), (232, 88295), (246, 88361), (249, 88376), (258, 88409), (290, 88568), (296, 88604), (303, 88640), (310, 88697), (331, 88808), (339, 88880), (341, 88886), (351, 88916),

Gene: Nikao_31 Start: 27784, Stop: 28920, Start Num: 46

Candidate Starts for Nikao_31:

(Start: 46 @27784 has 201 MA's), (68, 27826), (89, 27871), (107, 27928), (121, 27973), (168, 28060), (187, 28117), (207, 28219), (227, 28285), (231, 28297), (236, 28321), (237, 28324), (253, 28399), (260, 28426), (264, 28438), (269, 28453), (282, 28534), (284, 28546), (291, 28582), (297, 28612), (299, 28618), (301, 28636), (303, 28645), (304, 28648), (317, 28735), (323, 28768), (324, 28774), (331, 28795), (349, 28897), (356, 28915),

Gene: Niklas_35 Start: 27683, Stop: 28813, Start Num: 46

Candidate Starts for Niklas_35:

(Start: 46 @27683 has 201 MA's), (68, 27725), (87, 27767), (121, 27872), (181, 27998), (194, 28040), (227, 28178), (231, 28190), (236, 28214), (237, 28217), (253, 28292), (264, 28331), (268, 28343), (269, 28346), (282, 28427), (284, 28439), (291, 28475), (297, 28505), (299, 28511), (301, 28529), (303, 28538), (304, 28541), (317, 28628), (324, 28667), (331, 28688), (349, 28790), (354, 28805),

Gene: Nishikigoi_45 Start: 30482, Stop: 31684, Start Num: 65

Candidate Starts for Nishikigoi_45:

(Start: 65 @30482 has 96 MA's), (125, 30653), (146, 30722), (150, 30743), (182, 30851), (186, 30857), (198, 30908), (252, 31139), (253, 31142), (261, 31172), (265, 31190), (269, 31199), (276, 31244), (315, 31478), (333, 31568), (348, 31655), (350, 31661), (353, 31673),

Gene: November_33 Start: 28596, Stop: 29729, Start Num: 46

Candidate Starts for November_33:

(Start: 46 @28596 has 201 MA's), (Start: 110 @28749 has 45 MA's), (121, 28785), (181, 28914), (227, 29094), (231, 29106), (237, 29133), (253, 29208), (269, 29262), (287, 29373), (291, 29391), (293, 29397), (297, 29421), (299, 29427), (301, 29445), (304, 29457), (311, 29514), (324, 29583), (331, 29604), (349, 29706), (351, 29715), (354, 29721),

Gene: Nutello_31 Start: 27784, Stop: 28920, Start Num: 46

Candidate Starts for Nutello_31:

(Start: 46 @27784 has 201 MA's), (68, 27826), (89, 27871), (107, 27928), (121, 27973), (168, 28060), (187, 28117), (207, 28219), (227, 28285), (231, 28297), (236, 28321), (237, 28324), (253, 28399), (260, 28426), (264, 28438), (269, 28453), (282, 28534), (284, 28546), (291, 28582), (297, 28612), (299, 28618), (301, 28636), (303, 28645), (304, 28648), (317, 28735), (323, 28768), (324, 28774), (331, 28795), (349, 28897), (356, 28915),

Gene: Octobien14_112 Start: 62219, Stop: 63349, Start Num: 77

Candidate Starts for Octobien14_112:

(Start: 77 @62219 has 7 MA's), (81, 62228), (95, 62273), (128, 62369), (129, 62372), (144, 62399), (198, 62588), (205, 62633), (207, 62645), (214, 62666), (219, 62684), (229, 62717), (235, 62738), (236, 62747), (237, 62750), (264, 62867), (268, 62879), (274, 62915), (282, 62963), (284, 62975), (293, 63017), (297, 63041), (299, 63047), (303, 63074), (308, 63110), (312, 63140), (318, 63167), (338, 63290), (340, 63299), (341, 63302), (343, 63311), (351, 63335), (354, 63341),

Gene: Odette_171 Start: 90460, Stop: 91620, Start Num: 49

Candidate Starts for Odette_171:

(Start: 49 @90460 has 39 MA's), (54, 90478), (73, 90502), (101, 90586), (114, 90616), (164, 90739), (174, 90775), (194, 90832), (195, 90835), (200, 90865), (203, 90883), (228, 90964), (246, 91042), (248, 91051), (249, 91057), (290, 91249), (296, 91285), (303, 91321), (310, 91378), (331, 91489), (339, 91561), (341, 91567), (351, 91597),

Gene: OkiRoe_34 Start: 28926, Stop: 30143, Start Num: 46

Candidate Starts for OkiRoe_34:

(Start: 46 @28926 has 201 MA's), (52, 28947), (134, 29160), (147, 29208), (194, 29367), (200, 29400), (211, 29451), (219, 29481), (222, 29490), (227, 29505), (231, 29517), (249, 29607), (253, 29622), (254, 29625), (259, 29643), (269, 29676), (274, 29709), (282, 29757), (284, 29769), (291, 29805), (297, 29835), (299, 29841), (302, 29862), (303, 29868), (304, 29871), (308, 29904), (309, 29913), (311, 29928), (317, 29958), (318, 29961), (323, 29991), (340, 30093), (349, 30120), (351, 30129),

Gene: Oliynyk_44 Start: 29538, Stop: 30725, Start Num: 69

Candidate Starts for Oliynyk_44:

(Start: 69 @29538 has 6 MA's), (111, 29655), (113, 29661), (122, 29700), (135, 29736), (146, 29775), (179, 29892), (181, 29898), (198, 29952), (253, 30186), (265, 30234), (282, 30333), (297, 30411), (298, 30414), (302, 30438), (315, 30522), (333, 30612),

Gene: Olliecat_30 Start: 21912, Stop: 23192, Start Num: 27

Candidate Starts for Olliecat_30:

(Start: 27 @21912 has 3 MA's), (48, 22008), (96, 22116), (97, 22122), (127, 22200), (136, 22227), (137, 22230), (194, 22395), (199, 22419), (215, 22494), (216, 22500), (265, 22683), (269, 22692), (297, 22854), (299, 22860), (305, 22905), (325, 23022),

Gene: Omar_46 Start: 30682, Stop: 31869, Start Num: 65

Candidate Starts for Omar_46:

(Start: 65 @30682 has 96 MA's), (105, 30781), (111, 30802), (113, 30808), (139, 30892), (146, 30922), (150, 30943), (181, 31039), (195, 31081), (198, 31096), (252, 31327), (253, 31330), (261, 31360), (265, 31378), (293, 31531), (315, 31666), (332, 31747), (333, 31756), (342, 31825), (348, 31843), (350, 31849), (353, 31861),

Gene: Omega_176 Start: 90554, Stop: 91774, Start Num: 49

Candidate Starts for Omega_176:

(Start: 49 @90554 has 39 MA's), (Start: 75 @90602 has 1 MA's), (142, 90803), (152, 90854), (167, 90902), (174, 90929), (194, 90986), (195, 90989), (200, 91019), (203, 91037), (228, 91118), (246, 91196), (248, 91205), (249, 91211), (258, 91244), (290, 91403), (296, 91439), (303, 91475), (310, 91532), (331, 91643), (339, 91715), (341, 91721), (351, 91751),

Gene: OmniCritical_36 Start: 29342, Stop: 30532, Start Num: 46

Candidate Starts for OmniCritical_36:

(Start: 46 @29342 has 201 MA's), (Start: 110 @29498 has 45 MA's), (120, 29528), (129, 29558), (157, 29645), (194, 29753), (211, 29837), (227, 29891), (240, 29951), (241, 29960), (245, 29975), (253,

30008), (268, 30059), (269, 30062), (282, 30143), (291, 30191), (293, 30197), (297, 30221), (299, 30227), (302, 30248), (308, 30293), (318, 30350), (341, 30485), (342, 30491), (351, 30518), (354, 30524), (356, 30527),

Gene: Omnicron_35 Start: 27834, Stop: 29048, Start Num: 46

Candidate Starts for Omnicron_35:

(43, 27828), (Start: 46 @27834 has 201 MA's), (119, 28014), (147, 28113), (194, 28272), (199, 28296), (200, 28305), (211, 28356), (216, 28377), (219, 28386), (227, 28410), (231, 28422), (249, 28512), (252, 28524), (253, 28527), (254, 28530), (264, 28566), (274, 28614), (282, 28662), (284, 28674), (291, 28710), (297, 28740), (299, 28746), (301, 28764), (303, 28773), (304, 28776), (311, 28833), (318, 28866), (323, 28896), (340, 28998), (343, 29010), (349, 29025), (351, 29034), (356, 29043),

Gene: Optimus_166 Start: 88986, Stop: 90146, Start Num: 49

Candidate Starts for Optimus_166:

(Start: 49 @88986 has 39 MA's), (54, 89004), (73, 89028), (101, 89112), (114, 89142), (164, 89265), (174, 89301), (194, 89358), (195, 89361), (200, 89391), (203, 89409), (228, 89490), (246, 89568), (248, 89577), (249, 89583), (290, 89775), (296, 89811), (303, 89847), (310, 89904), (331, 90015), (339, 90087), (341, 90093), (351, 90123),

Gene: Oscar_35 Start: 28055, Stop: 29182, Start Num: 46

Candidate Starts for Oscar_35:

(Start: 46 @28055 has 201 MA's), (68, 28097), (121, 28244), (181, 28370), (194, 28409), (207, 28484), (227, 28547), (231, 28559), (237, 28586), (250, 28649), (253, 28661), (258, 28679), (269, 28715), (272, 28745), (282, 28796), (284, 28808), (287, 28826), (291, 28844), (293, 28850), (297, 28874), (299, 28880), (304, 28910), (311, 28967), (323, 29030), (331, 29057), (333, 29072), (342, 29141), (349, 29159), (354, 29174),

Gene: Ouroboros_26 Start: 19334, Stop: 18291, Start Num: 110

Candidate Starts for Ouroboros_26:

(Start: 110 @19334 has 45 MA's), (168, 19142), (209, 18983), (234, 18902), (237, 18887), (245, 18845), (251, 18818), (253, 18812), (254, 18809), (258, 18794), (271, 18734), (278, 18689), (295, 18602), (300, 18584), (319, 18473), (333, 18404), (340, 18344),

Gene: Ozzie_43 Start: 29196, Stop: 30386, Start Num: 65

Candidate Starts for Ozzie_43:

(40, 29133), (Start: 65 @29196 has 96 MA's), (90, 29244), (111, 29310), (146, 29430), (198, 29613), (218, 29703), (252, 29844), (253, 29847), (257, 29859), (265, 29895), (269, 29904), (271, 29928), (276, 29949), (297, 30072), (298, 30075), (315, 30183), (333, 30273), (352, 30375),

Gene: OzzyJ_44 Start: 29549, Stop: 30739, Start Num: 65

Candidate Starts for OzzyJ_44:

(Start: 65 @29549 has 96 MA's), (90, 29597), (111, 29663), (113, 29669), (146, 29783), (198, 29966), (252, 30197), (253, 30200), (257, 30212), (265, 30248), (269, 30257), (271, 30281), (276, 30302), (282, 30347), (293, 30401), (297, 30425), (298, 30428), (315, 30536), (333, 30626), (342, 30695),

Gene: P1.1_26 Start: 19354, Stop: 18308, Start Num: 110

Candidate Starts for P1.1_26:

(Start: 110 @19354 has 45 MA's), (168, 19162), (234, 18919), (237, 18904), (251, 18835), (253, 18829), (254, 18826), (258, 18811), (271, 18751), (278, 18706), (295, 18619), (300, 18601), (319, 18490), (333, 18421), (340, 18361),

Gene: P100.1_26 Start: 19395, Stop: 18349, Start Num: 110

Candidate Starts for P100.1_26:

(67, 19506), (Start: 110 @19395 has 45 MA's), (234, 18960), (237, 18945), (251, 18876), (253, 18870), (254, 18867), (264, 18831), (295, 18660), (319, 18531), (333, 18462), (340, 18402),

Gene: P100A_26 Start: 19358, Stop: 18315, Start Num: 110

Candidate Starts for P100A_26:

(Start: 110 @19358 has 45 MA's), (194, 19082), (234, 18926), (237, 18911), (245, 18869), (251, 18842), (253, 18836), (254, 18833), (258, 18818), (289, 18656), (295, 18626), (300, 18608), (319, 18497), (333, 18428), (340, 18368),

Gene: P100D_26 Start: 19327, Stop: 18281, Start Num: 110

Candidate Starts for P100D_26:

(67, 19438), (Start: 110 @19327 has 45 MA's), (234, 18892), (237, 18877), (245, 18835), (251, 18808), (253, 18802), (254, 18799), (258, 18784), (278, 18679), (295, 18592), (300, 18574), (319, 18463), (333, 18394), (340, 18334),

Gene: P101A_26 Start: 19371, Stop: 18325, Start Num: 110

Candidate Starts for P101A_26:

(67, 19479), (Start: 110 @19371 has 45 MA's), (209, 19017), (234, 18936), (237, 18921), (251, 18852), (253, 18846), (254, 18843), (271, 18768), (278, 18723), (295, 18636), (300, 18618), (319, 18507), (333, 18438), (340, 18378),

Gene: P104A_26 Start: 19128, Stop: 18088, Start Num: 110

Candidate Starts for P104A_26:

(Start: 110 @19128 has 45 MA's), (139, 19038), (209, 18780), (234, 18699), (237, 18684), (245, 18642), (251, 18615), (253, 18609), (254, 18606), (278, 18486), (295, 18399), (300, 18381), (319, 18270), (333, 18201), (340, 18141),

Gene: P104B_26 Start: 19324, Stop: 18278, Start Num: 110

Candidate Starts for P104B_26:

(67, 19435), (Start: 110 @19324 has 45 MA's), (234, 18889), (237, 18874), (251, 18805), (253, 18799), (254, 18796), (258, 18781), (264, 18760), (278, 18676), (295, 18589), (300, 18571), (319, 18460), (333, 18391), (340, 18331),

Gene: P105_26 Start: 19290, Stop: 18244, Start Num: 110

Candidate Starts for P105_26:

(Start: 110 @19290 has 45 MA's), (139, 19200), (234, 18855), (237, 18840), (245, 18798), (251, 18771), (253, 18765), (254, 18762), (295, 18555), (300, 18537), (319, 18426), (333, 18357), (340, 18297),

Gene: P106A_26 Start: 19420, Stop: 18374, Start Num: 110

Candidate Starts for P106A_26:

(67, 19528), (Start: 110 @19420 has 45 MA's), (209, 19066), (234, 18985), (237, 18970), (251, 18901), (253, 18895), (254, 18892), (264, 18856), (295, 18685), (319, 18556), (333, 18487), (340, 18427),

Gene: P106C_27 Start: 19358, Stop: 18312, Start Num: 110

Candidate Starts for P106C_27:

(67, 19466), (Start: 110 @19358 has 45 MA's), (209, 19004), (234, 18923), (237, 18908), (251, 18839), (253, 18833), (254, 18830), (264, 18794), (295, 18623), (319, 18494), (333, 18425), (340, 18365),

Gene: P106I_26 Start: 19187, Stop: 18141, Start Num: 110

Candidate Starts for P106I_26:

(67, 19295), (Start: 110 @19187 has 45 MA's), (209, 18833), (234, 18752), (237, 18737), (251, 18668), (253, 18662), (254, 18659), (264, 18623), (295, 18452), (319, 18323), (333, 18254), (340, 18194),

Gene: P106L_26 Start: 19358, Stop: 18312, Start Num: 110

Candidate Starts for P106L_26:

(67, 19466), (Start: 110 @19358 has 45 MA's), (209, 19004), (234, 18923), (237, 18908), (251, 18839), (253, 18833), (254, 18830), (264, 18794), (295, 18623), (319, 18494), (333, 18425), (340, 18365),

Gene: P106M_26 Start: 19358, Stop: 18312, Start Num: 110

Candidate Starts for P106M_26:

(67, 19466), (Start: 110 @19358 has 45 MA's), (209, 19004), (234, 18923), (237, 18908), (251, 18839), (253, 18833), (254, 18830), (264, 18794), (295, 18623), (319, 18494), (333, 18425), (340, 18365),

Gene: P107A_26 Start: 19377, Stop: 18331, Start Num: 110

Candidate Starts for P107A_26:

(Start: 110 @19377 has 45 MA's), (168, 19185), (194, 19098), (234, 18942), (237, 18927), (251, 18858), (253, 18852), (254, 18849), (271, 18774), (278, 18729), (295, 18642), (300, 18624), (319, 18513), (333, 18444), (340, 18384),

Gene: P107C_26 Start: 19311, Stop: 18265, Start Num: 110

Candidate Starts for P107C_26:

(67, 19422), (Start: 110 @19311 has 45 MA's), (234, 18876), (237, 18861), (245, 18819), (251, 18792), (253, 18786), (254, 18783), (258, 18768), (278, 18663), (295, 18576), (300, 18558), (319, 18447), (333, 18378), (340, 18318),

Gene: P108C_26 Start: 19331, Stop: 18291, Start Num: 110

Candidate Starts for P108C_26:

(Start: 110 @19331 has 45 MA's), (168, 19139), (194, 19058), (234, 18902), (237, 18887), (251, 18818), (253, 18812), (254, 18809), (258, 18794), (271, 18734), (278, 18689), (295, 18602), (300, 18584), (319, 18473), (333, 18404), (340, 18344),

Gene: P14.4_26 Start: 19327, Stop: 18284, Start Num: 110

Candidate Starts for P14.4_26:

(Start: 110 @19327 has 45 MA's), (234, 18895), (237, 18880), (251, 18811), (253, 18805), (254, 18802), (278, 18682), (295, 18595), (300, 18577), (319, 18466), (333, 18397), (340, 18337),

Gene: P9.1_26 Start: 19360, Stop: 18314, Start Num: 110

Candidate Starts for P9.1_26:

(Start: 110 @19360 has 45 MA's), (234, 18925), (237, 18910), (251, 18841), (253, 18835), (254, 18832), (264, 18796), (278, 18712), (295, 18625), (300, 18607), (319, 18496), (333, 18427), (340, 18367),

Gene: PA6_27 Start: 19315, Stop: 18269, Start Num: 110

Candidate Starts for PA6_27:

(67, 19423), (Start: 110 @19315 has 45 MA's), (234, 18880), (237, 18865), (245, 18823), (251, 18796), (253, 18790), (254, 18787), (258, 18772), (264, 18751), (295, 18580), (319, 18451), (333, 18382), (340, 18322),

Gene: PAD20_27 Start: 19098, Stop: 18052, Start Num: 110

Candidate Starts for PAD20_27:

(Start: 110 @19098 has 45 MA's), (234, 18663), (237, 18648), (251, 18579), (253, 18573), (254, 18570), (258, 18555), (278, 18450), (295, 18363), (300, 18345), (319, 18234), (333, 18165), (340, 18105),

Gene: PAS50_27 Start: 19266, Stop: 18220, Start Num: 110

Candidate Starts for PAS50_27:

(Start: 110 @19266 has 45 MA's), (234, 18831), (237, 18816), (245, 18774), (251, 18747), (253, 18741), (254, 18738), (258, 18723), (295, 18531), (300, 18513), (319, 18402), (333, 18333), (340, 18273),

Gene: PHL010M04_26 Start: 19341, Stop: 18298, Start Num: 110

Candidate Starts for PHL010M04_26:

(67, 19446), (Start: 110 @19341 has 45 MA's), (168, 19149), (194, 19065), (234, 18909), (237, 18894), (245, 18852), (251, 18825), (253, 18819), (254, 18816), (258, 18801), (278, 18696), (295, 18609), (300, 18591), (319, 18480), (333, 18411), (340, 18351),

Gene: PHL037M02_26 Start: 19316, Stop: 18270, Start Num: 110

Candidate Starts for PHL037M02_26:

(Start: 110 @19316 has 45 MA's), (209, 18962), (234, 18881), (237, 18866), (251, 18797), (253, 18791), (254, 18788), (271, 18713), (278, 18668), (295, 18581), (300, 18563), (319, 18452), (333, 18383), (340, 18323),

Gene: PHL060L00_26 Start: 19165, Stop: 18119, Start Num: 110

Candidate Starts for PHL060L00_26:

(67, 19276), (Start: 110 @19165 has 45 MA's), (234, 18730), (237, 18715), (251, 18646), (253, 18640), (254, 18637), (258, 18622), (295, 18430), (300, 18412), (319, 18301), (333, 18232), (340, 18172),

Gene: PHL067M10_26 Start: 19289, Stop: 18243, Start Num: 110

Candidate Starts for PHL067M10_26:

(Start: 110 @19289 has 45 MA's), (234, 18854), (237, 18839), (245, 18797), (251, 18770), (253, 18764), (254, 18761), (258, 18746), (271, 18686), (278, 18641), (295, 18554), (319, 18425), (333, 18356), (340, 18296),

Gene: PHL071N05_26 Start: 19351, Stop: 18305, Start Num: 110

Candidate Starts for PHL071N05_26:

(Start: 110 @19351 has 45 MA's), (168, 19159), (234, 18916), (237, 18901), (251, 18832), (253, 18826), (254, 18823), (258, 18808), (271, 18748), (278, 18703), (295, 18616), (300, 18598), (319, 18487), (333, 18418), (340, 18358),

Gene: PHL111M01_26 Start: 19339, Stop: 18293, Start Num: 110

Candidate Starts for PHL111M01_26:

(Start: 110 @19339 has 45 MA's), (209, 18985), (234, 18904), (237, 18889), (245, 18847), (251, 18820), (253, 18814), (254, 18811), (278, 18691), (295, 18604), (300, 18586), (319, 18475), (333, 18406), (340, 18346),

Gene: PHL112N00_26 Start: 19367, Stop: 18324, Start Num: 110

Candidate Starts for PHL112N00_26:

(Start: 110 @19367 has 45 MA's), (139, 19277), (234, 18935), (237, 18920), (245, 18878), (251, 18851), (253, 18845), (254, 18842), (278, 18722), (295, 18635), (319, 18506), (333, 18437), (340, 18377),

Gene: PHL113M01_26 Start: 19385, Stop: 18339, Start Num: 110

Candidate Starts for PHL113M01_26:

(Start: 110 @19385 has 45 MA's), (209, 19031), (234, 18950), (237, 18935), (251, 18866), (253, 18860), (254, 18857), (258, 18842), (278, 18737), (295, 18650), (300, 18632), (319, 18521), (333, 18452), (340, 18392),

Gene: PHL114L00_26 Start: 19308, Stop: 18265, Start Num: 110

Candidate Starts for PHL114L00_26:

(Start: 110 @19308 has 45 MA's), (168, 19116), (194, 19032), (234, 18876), (237, 18861), (245, 18819), (251, 18792), (253, 18786), (254, 18783), (258, 18768), (278, 18663), (295, 18576), (300, 18558), (319, 18447), (333, 18378), (340, 18318),

Gene: Pablito_44 Start: 30267, Stop: 31469, Start Num: 65

Candidate Starts for Pablito_44:

(Start: 65 @30267 has 96 MA's), (125, 30438), (146, 30507), (198, 30693), (202, 30723), (252, 30924), (253, 30927), (261, 30957), (265, 30975), (269, 30984), (273, 31017), (276, 31029), (282, 31074), (315, 31263), (332, 31344), (333, 31353), (342, 31422), (348, 31440), (350, 31446), (353, 31458),

Gene: Padfoot_35 Start: 28393, Stop: 29601, Start Num: 46

Candidate Starts for Padfoot_35:

(Start: 38 @28369 has 1 MA's), (Start: 46 @28393 has 201 MA's), (92, 28495), (129, 28606), (181, 28783), (194, 28825), (207, 28900), (220, 28942), (227, 28966), (231, 28978), (237, 29005), (253, 29080), (264, 29119), (269, 29134), (282, 29215), (284, 29227), (285, 29230), (287, 29245), (291, 29263), (293, 29269), (297, 29293), (299, 29299), (301, 29317), (303, 29326), (304, 29329), (311, 29386), (317, 29416), (324, 29455), (331, 29476), (349, 29578), (354, 29593),

Gene: Padpat_35 Start: 28353, Stop: 29561, Start Num: 46

Candidate Starts for Padpat_35:

(Start: 46 @28353 has 201 MA's), (92, 28455), (129, 28566), (181, 28743), (194, 28785), (207, 28860), (227, 28926), (231, 28938), (237, 28965), (253, 29040), (264, 29079), (269, 29094), (282, 29175), (284, 29187), (285, 29190), (287, 29205), (291, 29223), (293, 29229), (297, 29253), (299, 29259), (301, 29277), (303, 29286), (304, 29289), (311, 29346), (317, 29376), (318, 29379), (324, 29415), (331, 29436), (349, 29538), (354, 29553),

Gene: Paedore_44 Start: 30857, Stop: 32062, Start Num: 65

Candidate Starts for Paedore_44:

(Start: 65 @30857 has 96 MA's), (105, 30956), (113, 30983), (139, 31067), (146, 31097), (150, 31118), (182, 31226), (198, 31286), (202, 31316), (206, 31337), (218, 31376), (227, 31406), (252, 31517), (253, 31520), (261, 31550), (265, 31568), (271, 31601), (276, 31622), (302, 31772), (315, 31856), (316, 31865), (333, 31946), (350, 32039),

Gene: Panchaali_171 Start: 111167, Stop: 109740, Start Num: 13

Candidate Starts for Panchaali_171:

(8, 111233), (12, 111176), (Start: 13 @111167 has 4 MA's), (14, 111131), (33, 110963), (34, 110960), (82, 110888), (174, 110618), (193, 110543), (194, 110540), (246, 110330), (277, 110201), (292, 110105), (304, 110042), (307, 110012), (340, 109799), (342, 109790),

Gene: Paola_34 Start: 28924, Stop: 30141, Start Num: 46

Candidate Starts for Paola_34:

(Start: 46 @28924 has 201 MA's), (52, 28945), (134, 29158), (147, 29206), (194, 29365), (198, 29383), (200, 29398), (211, 29449), (219, 29479), (222, 29488), (227, 29503), (231, 29515), (249, 29605), (253, 29620), (254, 29623), (259, 29641), (264, 29659), (269, 29674), (274, 29707), (282, 29755), (284, 29767), (291, 29803), (297, 29833), (299, 29839), (302, 29860), (303, 29866), (304, 29869), (311, 29926), (317, 29956), (318, 29959), (323, 29989), (340, 30091), (349, 30118), (351, 30127),

Gene: Paolo_46 Start: 31065, Stop: 32255, Start Num: 65

Candidate Starts for Paolo_46:

(Start: 65 @31065 has 96 MA's), (105, 31164), (111, 31185), (113, 31191), (139, 31275), (146, 31305), (150, 31326), (181, 31422), (195, 31464), (198, 31479), (252, 31710), (253, 31713), (261, 31743), (265, 31761), (271, 31794), (276, 31815), (293, 31914), (299, 31944), (302, 31965), (315, 32049),

(317, 32064), (332, 32130), (333, 32139), (342, 32208), (348, 32226), (350, 32232),

Gene: Patbob_169 Start: 114130, Stop: 112802, Start Num: 21

Candidate Starts for Patbob_169:

(Start: 21 @114130 has 4 MA's), (85, 113905), (236, 113407), (253, 113329), (323, 112957),

Gene: Patt_36 Start: 29176, Stop: 30366, Start Num: 46

Candidate Starts for Patt_36:

(Start: 46 @29176 has 201 MA's), (Start: 110 @29332 has 45 MA's), (120, 29362), (129, 29392), (157, 29479), (194, 29587), (211, 29671), (227, 29725), (240, 29785), (241, 29794), (245, 29809), (253, 29842), (268, 29893), (269, 29896), (282, 29977), (291, 30025), (293, 30031), (297, 30055), (299, 30061), (300, 30067), (302, 30082), (308, 30127), (318, 30184), (341, 30319), (342, 30325), (351, 30352), (354, 30358), (356, 30361),

Gene: Pavo_44 Start: 31067, Stop: 32254, Start Num: 65

Candidate Starts for Pavo_44:

(Start: 65 @31067 has 96 MA's), (105, 31163), (111, 31184), (113, 31190), (118, 31211), (146, 31304), (150, 31325), (181, 31427), (183, 31433), (198, 31481), (242, 31673), (252, 31712), (253, 31715), (261, 31745), (265, 31763), (276, 31817), (282, 31862), (293, 31916), (298, 31943), (333, 32141), (352, 32243),

Gene: Peanam_35 Start: 27680, Stop: 28810, Start Num: 46

Candidate Starts for Peanam_35:

(Start: 46 @27680 has 201 MA's), (68, 27722), (87, 27764), (121, 27869), (181, 27995), (194, 28037), (207, 28112), (227, 28175), (231, 28187), (236, 28211), (237, 28214), (253, 28289), (264, 28328), (268, 28340), (269, 28343), (282, 28424), (284, 28436), (291, 28472), (297, 28502), (299, 28508), (301, 28526), (303, 28535), (304, 28538), (317, 28625), (324, 28664), (331, 28685), (349, 28787), (354, 28802),

Gene: Peel_35 Start: 28393, Stop: 29601, Start Num: 46

Candidate Starts for Peel_35:

(Start: 38 @28369 has 1 MA's), (Start: 46 @28393 has 201 MA's), (92, 28495), (129, 28606), (157, 28714), (181, 28783), (194, 28825), (207, 28900), (227, 28966), (231, 28978), (237, 29005), (253, 29080), (264, 29119), (269, 29134), (282, 29215), (284, 29227), (285, 29230), (287, 29245), (291, 29263), (293, 29269), (297, 29293), (299, 29299), (301, 29317), (303, 29326), (304, 29329), (311, 29386), (317, 29416), (324, 29455), (331, 29476), (349, 29578), (354, 29593),

Gene: Pharb_34 Start: 28523, Stop: 29653, Start Num: 46

Candidate Starts for Pharb_34:

(Start: 46 @28523 has 201 MA's), (107, 28667), (121, 28712), (181, 28838), (194, 28880), (207, 28955), (222, 29003), (227, 29018), (231, 29030), (236, 29054), (249, 29117), (282, 29267), (291, 29315), (293, 29321), (297, 29345), (299, 29351), (302, 29372), (304, 29381), (311, 29438), (324, 29507), (331, 29528), (333, 29543), (349, 29630), (351, 29639), (354, 29645),

Gene: PhelpsODU_35 Start: 27711, Stop: 28919, Start Num: 46

Candidate Starts for PhelpsODU_35:

(Start: 46 @27711 has 201 MA's), (52, 27729), (92, 27813), (129, 27924), (134, 27942), (181, 28104), (194, 28146), (227, 28284), (231, 28296), (237, 28323), (253, 28398), (269, 28452), (282, 28533), (291, 28581), (293, 28587), (297, 28611), (301, 28635), (302, 28638), (317, 28734), (331, 28794), (342, 28878), (349, 28896), (354, 28911),

Gene: Phendrix_73 Start: 35262, Stop: 36434, Start Num: 47

Candidate Starts for Phendrix_73:

(Start: 47 @35262 has 1 MA's), (50, 35268), (Start: 55 @35289 has 1 MA's), (168, 35571), (192, 35640), (204, 35706), (213, 35739), (228, 35778), (248, 35865), (249, 35871), (258, 35904), (267, 35934), (282, 36027), (288, 36054), (290, 36060), (293, 36072), (315, 36207), (323, 36255), (326, 36279), (339, 36375), (355, 36420),

Gene: Phettuccine_43 Start: 29212, Stop: 30402, Start Num: 65

Candidate Starts for Phettuccine_43:

(40, 29149), (Start: 65 @29212 has 96 MA's), (90, 29260), (111, 29326), (138, 29413), (146, 29446), (198, 29629), (218, 29719), (252, 29860), (253, 29863), (257, 29875), (265, 29911), (269, 29920), (271, 29944), (276, 29965), (297, 30088), (298, 30091), (315, 30199), (333, 30289), (352, 30391),

Gene: Phoebus_168 Start: 91466, Stop: 92626, Start Num: 49

Candidate Starts for Phoebus_168:

(Start: 49 @91466 has 39 MA's), (54, 91484), (73, 91508), (101, 91592), (114, 91622), (164, 91745), (174, 91781), (194, 91838), (195, 91841), (200, 91871), (203, 91889), (228, 91970), (246, 92048), (248, 92057), (249, 92063), (290, 92255), (296, 92291), (303, 92327), (310, 92384), (331, 92495), (339, 92567), (341, 92573), (351, 92603),

Gene: Phrampa_163 Start: 115709, Stop: 114375, Start Num: 21

Candidate Starts for Phrampa_163:

(Start: 21 @115709 has 4 MA's), (30, 115628), (60, 115520), (115, 115406), (236, 114980), (253, 114902), (323, 114530),

Gene: Phrank_35 Start: 27661, Stop: 28869, Start Num: 46

Candidate Starts for Phrank_35:

(Start: 46 @27661 has 201 MA's), (52, 27679), (92, 27763), (129, 27874), (134, 27892), (181, 28054), (194, 28096), (227, 28234), (231, 28246), (237, 28273), (253, 28348), (269, 28402), (282, 28483), (291, 28531), (293, 28537), (297, 28561), (301, 28585), (302, 28588), (311, 28654), (317, 28684), (331, 28744), (342, 28828), (349, 28846), (354, 28861),

Gene: Piatt_35 Start: 28393, Stop: 29601, Start Num: 46

Candidate Starts for Piatt_35:

(Start: 38 @28369 has 1 MA's), (Start: 46 @28393 has 201 MA's), (92, 28495), (129, 28606), (181, 28783), (194, 28825), (207, 28900), (220, 28942), (227, 28966), (231, 28978), (237, 29005), (253, 29080), (264, 29119), (269, 29134), (282, 29215), (284, 29227), (285, 29230), (287, 29245), (291, 29263), (293, 29269), (297, 29293), (299, 29299), (301, 29317), (303, 29326), (304, 29329), (311, 29386), (317, 29416), (324, 29455), (331, 29476), (349, 29578), (354, 29593),

Gene: Pirate_26 Start: 19250, Stop: 18204, Start Num: 110

Candidate Starts for Pirate_26:

(Start: 110 @19250 has 45 MA's), (168, 19058), (194, 18971), (234, 18815), (237, 18800), (251, 18731), (253, 18725), (254, 18722), (258, 18707), (271, 18647), (278, 18602), (295, 18515), (300, 18497), (319, 18386), (333, 18317), (340, 18257),

Gene: Pisa1_34 Start: 28388, Stop: 29596, Start Num: 46

Candidate Starts for Pisa1_34:

(Start: 46 @28388 has 201 MA's), (92, 28490), (129, 28601), (134, 28619), (181, 28778), (194, 28820), (207, 28895), (227, 28961), (231, 28973), (237, 29000), (252, 29072), (253, 29075), (264, 29114), (268, 29126), (269, 29129), (282, 29210), (284, 29222), (285, 29225), (291, 29258), (293, 29264), (297, 29288), (299, 29294), (301, 29312), (303, 29321), (304, 29324), (311, 29381), (324, 29450), (331, 29471), (349, 29573), (354, 29588), (356, 29591),

Gene: Pisa4_34 Start: 28388, Stop: 29596, Start Num: 46

Candidate Starts for Pisa4_34:

(Start: 46 @28388 has 201 MA's), (92, 28490), (129, 28601), (134, 28619), (181, 28778), (194, 28820), (207, 28895), (227, 28961), (231, 28973), (237, 29000), (252, 29072), (253, 29075), (264, 29114), (268, 29126), (269, 29129), (282, 29210), (284, 29222), (285, 29225), (291, 29258), (293, 29264), (297, 29288), (299, 29294), (301, 29312), (303, 29321), (304, 29324), (311, 29381), (324, 29450), (331, 29471), (349, 29573), (354, 29588), (356, 29591),

Gene: Pixie_35 Start: 28762, Stop: 29892, Start Num: 46

Candidate Starts for Pixie_35:

(25, 28627), (Start: 46 @28762 has 201 MA's), (52, 28780), (68, 28804), (121, 28951), (181, 29077), (194, 29119), (207, 29194), (227, 29257), (231, 29269), (236, 29293), (249, 29356), (282, 29506), (291, 29554), (293, 29560), (297, 29584), (302, 29611), (304, 29620), (311, 29677), (317, 29707), (324, 29746), (331, 29767), (333, 29782), (349, 29869), (351, 29878), (354, 29884),

Gene: Pokerus_34 Start: 28310, Stop: 29518, Start Num: 46

Candidate Starts for Pokerus_34:

(Start: 46 @28310 has 201 MA's), (92, 28412), (129, 28523), (181, 28700), (194, 28742), (207, 28817), (227, 28883), (231, 28895), (237, 28922), (253, 28997), (264, 29036), (269, 29051), (282, 29132), (284, 29144), (285, 29147), (287, 29162), (291, 29180), (297, 29210), (299, 29216), (301, 29234), (303, 29243), (304, 29246), (311, 29303), (317, 29333), (324, 29372), (331, 29393), (349, 29495), (354, 29510),

Gene: Porcelain_168 Start: 86026, Stop: 87246, Start Num: 49

Candidate Starts for Porcelain_168:

(Start: 49 @86026 has 39 MA's), (Start: 75 @86074 has 1 MA's), (142, 86275), (152, 86326), (167, 86374), (174, 86401), (194, 86458), (195, 86461), (200, 86491), (203, 86509), (213, 86551), (228, 86590), (246, 86668), (248, 86677), (249, 86683), (258, 86716), (290, 86875), (296, 86911), (303, 86947), (310, 87004), (331, 87115), (339, 87187), (341, 87193), (351, 87223),

Gene: Pound_161 Start: 87515, Stop: 88675, Start Num: 49

Candidate Starts for Pound_161:

(Start: 49 @87515 has 39 MA's), (54, 87533), (73, 87557), (86, 87590), (101, 87641), (114, 87671), (164, 87794), (174, 87830), (194, 87887), (195, 87890), (200, 87920), (203, 87938), (228, 88019), (246, 88097), (248, 88106), (249, 88112), (290, 88304), (296, 88340), (303, 88376), (310, 88433), (314, 88451), (319, 88469), (331, 88544), (339, 88616), (341, 88622), (351, 88652),

Gene: Prithvi_35 Start: 28323, Stop: 29531, Start Num: 46

Candidate Starts for Prithvi_35:

(Start: 46 @28323 has 201 MA's), (92, 28425), (129, 28536), (134, 28554), (181, 28713), (194, 28755), (207, 28830), (227, 28896), (231, 28908), (237, 28935), (253, 29010), (264, 29049), (268, 29061), (269, 29064), (282, 29145), (284, 29157), (287, 29175), (291, 29193), (293, 29199), (297, 29223), (299, 29229), (303, 29256), (304, 29259), (311, 29316), (317, 29346), (324, 29385), (331, 29406), (349, 29508), (354, 29523),

Gene: Procrass1_26 Start: 19317, Stop: 18271, Start Num: 110

Candidate Starts for Procrass1_26:

(67, 19425), (Start: 110 @19317 has 45 MA's), (168, 19125), (194, 19038), (209, 18963), (234, 18882), (237, 18867), (251, 18798), (253, 18792), (254, 18789), (258, 18774), (278, 18669), (295, 18582), (300, 18564), (319, 18453), (333, 18384), (340, 18324),

Gene: Provolone_44 Start: 30449, Stop: 31636, Start Num: 65

Candidate Starts for Provolone_44:

(Start: 65 @30449 has 96 MA's), (105, 30545), (111, 30566), (113, 30572), (118, 30593), (146, 30686), (150, 30707), (181, 30809), (183, 30815), (198, 30863), (252, 31094), (253, 31097), (261, 31127), (265, 31145), (276, 31199), (282, 31244), (293, 31298), (333, 31523), (352, 31625),

Gene: Psycho_35 Start: 28927, Stop: 30141, Start Num: 46

Candidate Starts for Psycho_35:

(43, 28921), (Start: 46 @28927 has 201 MA's), (52, 28945), (134, 29158), (147, 29206), (168, 29278), (194, 29365), (199, 29389), (211, 29449), (219, 29479), (222, 29488), (227, 29503), (231, 29515), (249, 29605), (250, 29608), (253, 29620), (254, 29623), (259, 29641), (269, 29674), (274, 29707), (282, 29755), (284, 29767), (291, 29803), (297, 29833), (299, 29839), (303, 29866), (304, 29869), (311, 29926), (317, 29956), (340, 30091), (343, 30103), (349, 30118), (351, 30127),

Gene: Puginator_46 Start: 31083, Stop: 32285, Start Num: 65

Candidate Starts for Puginator_46:

(Start: 65 @31083 has 96 MA's), (105, 31182), (113, 31209), (125, 31254), (139, 31293), (146, 31323), (150, 31344), (181, 31446), (185, 31455), (198, 31509), (221, 31608), (252, 31740), (253, 31743), (261, 31773), (265, 31791), (276, 31845), (293, 31944), (302, 31995), (315, 32079), (317, 32094), (332, 32160), (333, 32169), (348, 32256), (350, 32262),

Gene: QueenBey_26 Start: 19307, Stop: 18264, Start Num: 110

Candidate Starts for QueenBey_26:

(Start: 110 @19307 has 45 MA's), (194, 19031), (209, 18956), (234, 18875), (237, 18860), (245, 18818), (249, 18800), (251, 18791), (253, 18785), (254, 18782), (258, 18767), (278, 18662), (295, 18575), (300, 18557), (319, 18446), (333, 18377), (340, 18317),

Gene: QuincyRose_34 Start: 28382, Stop: 29590, Start Num: 46

Candidate Starts for QuincyRose_34:

(Start: 46 @28382 has 201 MA's), (92, 28484), (Start: 110 @28535 has 45 MA's), (129, 28595), (173, 28751), (194, 28814), (207, 28889), (227, 28955), (231, 28967), (237, 28994), (253, 29069), (264, 29108), (269, 29123), (282, 29204), (284, 29216), (285, 29219), (287, 29234), (291, 29252), (293, 29258), (297, 29282), (299, 29288), (301, 29306), (303, 29315), (304, 29318), (311, 29375), (317, 29405), (324, 29444), (331, 29465), (349, 29567), (354, 29582),

Gene: R4_45 Start: 31018, Stop: 32223, Start Num: 65

Candidate Starts for R4_45:

(Start: 65 @31018 has 96 MA's), (105, 31117), (111, 31138), (113, 31144), (139, 31228), (146, 31258), (182, 31387), (188, 31405), (198, 31447), (202, 31477), (218, 31537), (227, 31567), (252, 31678), (253, 31681), (261, 31711), (265, 31729), (269, 31738), (273, 31771), (276, 31783), (315, 32017), (332, 32098), (333, 32107), (348, 32194), (350, 32200),

Gene: Rabbitrun_115 Start: 65402, Stop: 66529, Start Num: 77

Candidate Starts for Rabbitrun_115:

(Start: 77 @65402 has 7 MA's), (113, 65504), (126, 65537), (194, 65750), (208, 65828), (211, 65834), (227, 65891), (233, 65906), (235, 65918), (237, 65930), (254, 66008), (264, 66047), (269, 66062), (272, 66092), (274, 66095), (284, 66155), (286, 66161), (290, 66185), (293, 66197), (297, 66221), (300, 66233), (308, 66290), (311, 66314), (320, 66362), (343, 66491), (344, 66494), (351, 66515), (354, 66521), (356, 66524),

Gene: Racecar_171 Start: 114540, Stop: 113212, Start Num: 21

Candidate Starts for Racecar_171:

(Start: 21 @114540 has 4 MA's), (85, 114315), (236, 113817), (253, 113739), (323, 113367),

Gene: Ramen_35 Start: 28359, Stop: 29567, Start Num: 46

Candidate Starts for Ramen_35:

(Start: 46 @28359 has 201 MA's), (92, 28461), (129, 28572), (181, 28749), (194, 28791), (207, 28866), (227, 28932), (231, 28944), (237, 28971), (253, 29046), (264, 29085), (269, 29100), (282, 29181), (284, 29193), (285, 29196), (287, 29211), (291, 29229), (297, 29259), (299, 29265), (301, 29283), (303, 29292), (304, 29295), (311, 29352), (317, 29382), (324, 29421), (331, 29442), (349, 29544), (354, 29559),

Gene: Rana_44 Start: 30076, Stop: 31266, Start Num: 65

Candidate Starts for Rana_44:

(Start: 65 @30076 has 96 MA's), (90, 30124), (111, 30190), (113, 30196), (146, 30310), (198, 30493), (218, 30583), (252, 30724), (253, 30727), (257, 30739), (265, 30775), (269, 30784), (271, 30808), (276, 30829), (282, 30874), (293, 30928), (297, 30952), (298, 30955), (302, 30979), (315, 31063), (318, 31081), (333, 31153), (342, 31222),

Gene: Rando14_35 Start: 27788, Stop: 29002, Start Num: 46

Candidate Starts for Rando14_35:

(43, 27782), (Start: 46 @27788 has 201 MA's), (147, 28067), (194, 28226), (199, 28250), (200, 28259), (211, 28310), (219, 28340), (227, 28364), (231, 28376), (241, 28433), (249, 28466), (252, 28478), (253, 28481), (254, 28484), (264, 28520), (268, 28532), (269, 28535), (274, 28568), (282, 28616), (284, 28628), (291, 28664), (297, 28694), (299, 28700), (301, 28718), (303, 28727), (304, 28730), (311, 28787), (317, 28817), (318, 28820), (323, 28850), (340, 28952), (343, 28964), (349, 28979), (351, 28988), (356, 28997),

Gene: Rapunzel97_35 Start: 28360, Stop: 29568, Start Num: 46

Candidate Starts for Rapunzel97_35:

(Start: 46 @28360 has 201 MA's), (92, 28462), (129, 28573), (181, 28750), (194, 28792), (207, 28867), (227, 28933), (231, 28945), (237, 28972), (253, 29047), (264, 29086), (269, 29101), (282, 29182), (284, 29194), (285, 29197), (287, 29212), (291, 29230), (293, 29236), (297, 29260), (299, 29266), (301, 29284), (303, 29293), (304, 29296), (311, 29353), (317, 29383), (318, 29386), (324, 29422), (331, 29443), (349, 29545), (354, 29560),

Gene: Rearden_167 Start: 86529, Stop: 87749, Start Num: 49

Candidate Starts for Rearden_167:

(Start: 49 @86529 has 39 MA's), (Start: 75 @86577 has 1 MA's), (93, 86625), (142, 86778), (152, 86829), (167, 86877), (174, 86904), (194, 86961), (195, 86964), (200, 86994), (203, 87012), (228, 87093), (246, 87171), (248, 87180), (249, 87186), (258, 87219), (290, 87378), (296, 87414), (303, 87450), (310, 87507), (331, 87618), (339, 87690), (341, 87696), (351, 87726),

Gene: RedBear_44 Start: 29753, Stop: 30946, Start Num: 65

Candidate Starts for RedBear_44:

(Start: 65 @29753 has 96 MA's), (90, 29801), (111, 29867), (113, 29873), (146, 29987), (162, 30047), (187, 30128), (198, 30173), (218, 30263), (252, 30404), (253, 30407), (257, 30419), (265, 30455), (269, 30464), (276, 30509), (282, 30554), (293, 30608), (297, 30632), (298, 30635), (315, 30743), (333, 30833), (350, 30926), (352, 30935),

Gene: Redno2_161 Start: 85579, Stop: 86739, Start Num: 49

Candidate Starts for Redno2_161:

(Start: 49 @85579 has 39 MA's), (54, 85597), (73, 85621), (101, 85705), (114, 85735), (164, 85858), (174, 85894), (194, 85951), (195, 85954), (200, 85984), (203, 86002), (228, 86083), (232, 86095), (246, 86161), (249, 86176), (258, 86209), (290, 86368), (296, 86404), (303, 86440), (310, 86497), (331, 86608), (339, 86680), (341, 86686), (351, 86716),

Gene: ReginaGlobina_175 Start: 115323, Stop: 113800, Start Num: 13

Candidate Starts for ReginaGlobina_175:

(12, 115332), (Start: 13 @115323 has 4 MA's), (14, 115287), (17, 115251), (24, 115197), (36, 115092), (44, 115068), (79, 114996), (82, 114987), (131, 114828), (137, 114807), (154, 114750), (185, 114651), (207, 114525), (246, 114390), (290, 114174), (307, 114072), (340, 113859), (342, 113850),

Gene: Reptar3000_36 Start: 29167, Stop: 30357, Start Num: 46

Candidate Starts for Reptar3000_36:

(Start: 46 @29167 has 201 MA's), (Start: 110 @29323 has 45 MA's), (120, 29353), (129, 29383), (157, 29470), (194, 29578), (211, 29662), (227, 29716), (240, 29776), (241, 29785), (245, 29800), (253, 29833), (268, 29884), (269, 29887), (282, 29968), (291, 30016), (293, 30022), (297, 30046), (299, 30052), (300, 30058), (302, 30073), (308, 30118), (318, 30175), (341, 30310), (342, 30316), (351, 30343), (354, 30349), (356, 30352),

Gene: Richo_35 Start: 27680, Stop: 28810, Start Num: 46

Candidate Starts for Richo_35:

(Start: 46 @27680 has 201 MA's), (68, 27722), (87, 27764), (121, 27869), (181, 27995), (194, 28037), (207, 28112), (227, 28175), (231, 28187), (236, 28211), (237, 28214), (253, 28289), (264, 28328), (268, 28340), (269, 28343), (282, 28424), (284, 28436), (291, 28472), (297, 28502), (299, 28508), (301, 28526), (303, 28535), (304, 28538), (317, 28625), (324, 28664), (331, 28685), (349, 28787), (354, 28802),

Gene: Rileysaurus_26 Start: 19348, Stop: 18305, Start Num: 110

Candidate Starts for Rileysaurus_26:

(Start: 110 @19348 has 45 MA's), (168, 19156), (191, 19081), (234, 18916), (237, 18901), (245, 18859), (249, 18841), (251, 18832), (253, 18826), (254, 18823), (258, 18808), (271, 18748), (278, 18703), (295, 18616), (300, 18598), (319, 18487), (333, 18418), (340, 18358),

Gene: Rockabye_174 Start: 106748, Stop: 105342, Start Num: 13

Candidate Starts for Rockabye_174:

(2, 106859), (4, 106829), (5, 106826), (6, 106823), (7, 106820), (9, 106796), (12, 106757), (Start: 13 @106748 has 4 MA's), (22, 106628), (98, 106424), (194, 106142), (206, 106070), (246, 105932), (280, 105767), (290, 105716), (307, 105614), (340, 105401),

Gene: Ronaldo_120 Start: 57466, Stop: 58557, Start Num: 84

Candidate Starts for Ronaldo_120:

(Start: 84 @57466 has 6 MA's), (91, 57487), (145, 57622), (154, 57658), (158, 57670), (173, 57718), (198, 57793), (211, 57859), (212, 57865), (235, 57946), (257, 58045), (268, 58087), (284, 58183), (290, 58207), (291, 58213), (297, 58243), (300, 58255), (308, 58312), (318, 58369), (347, 58531),

Gene: Rosmarinus_35 Start: 28381, Stop: 29589, Start Num: 46

Candidate Starts for Rosmarinus_35:

(Start: 38 @28357 has 1 MA's), (Start: 46 @28381 has 201 MA's), (92, 28483), (129, 28594), (157, 28702), (181, 28771), (194, 28813), (207, 28888), (227, 28954), (231, 28966), (237, 28993), (253, 29068), (264, 29107), (269, 29122), (282, 29203), (284, 29215), (285, 29218), (287, 29233), (291, 29251), (293, 29257), (297, 29281), (299, 29287), (301, 29305), (303, 29314), (304, 29317), (311, 29374), (317, 29404), (324, 29443), (331, 29464), (349, 29566), (354, 29581),

Gene: Rusticus_44 Start: 29538, Stop: 30725, Start Num: 69

Candidate Starts for Rusticus_44:

(Start: 69 @29538 has 6 MA's), (111, 29655), (113, 29661), (122, 29700), (135, 29736), (146, 29775), (179, 29892), (181, 29898), (198, 29952), (253, 30186), (265, 30234), (282, 30333), (297, 30411), (298, 30414), (302, 30438), (315, 30522), (333, 30612),

Gene: Ruthiejr_37 Start: 29323, Stop: 30513, Start Num: 46

Candidate Starts for Ruthiejr_37:

(Start: 46 @29323 has 201 MA's), (Start: 110 @29479 has 45 MA's), (120, 29509), (129, 29539), (157, 29626), (161, 29638), (194, 29734), (198, 29752), (211, 29818), (227, 29872), (240, 29932), (241, 29941), (245, 29956), (252, 29986), (253, 29989), (268, 30040), (269, 30043), (282, 30124), (291, 30172), (293, 30178), (297, 30202), (299, 30208), (302, 30229), (308, 30274), (318, 30331), (341, 30466), (351, 30499), (354, 30505), (356, 30508),

Gene: SJReid_174 Start: 104973, Stop: 103564, Start Num: 13

Candidate Starts for SJReid_174:

(2, 105084), (5, 105051), (6, 105048), (7, 105045), (10, 105000), (12, 104982), (Start: 13 @104973 has 4 MA's), (15, 104928), (73, 104721), (183, 104412), (246, 104154), (265, 104076), (290, 103938), (307, 103836), (340, 103623), (342, 103614),

Gene: SKKY_26 Start: 19396, Stop: 18353, Start Num: 110

Candidate Starts for SKKY_26:

(Start: 110 @19396 has 45 MA's), (209, 19045), (234, 18964), (237, 18949), (245, 18907), (251, 18880), (253, 18874), (254, 18871), (258, 18856), (278, 18751), (289, 18694), (295, 18664), (300, 18646), (319, 18535), (333, 18466), (340, 18406),

Gene: Saftant_43 Start: 31027, Stop: 32214, Start Num: 65

Candidate Starts for Saftant_43:

(Start: 65 @31027 has 96 MA's), (105, 31123), (111, 31144), (113, 31150), (118, 31171), (146, 31264), (150, 31285), (161, 31321), (181, 31387), (183, 31393), (198, 31441), (242, 31633), (252, 31672), (253, 31675), (261, 31705), (265, 31723), (276, 31777), (282, 31822), (293, 31876), (297, 31900), (298, 31903), (333, 32101), (352, 32203),

Gene: SamScheppers_36 Start: 29836, Stop: 31026, Start Num: 46

Candidate Starts for SamScheppers_36:

(Start: 46 @29836 has 201 MA's), (Start: 110 @29992 has 45 MA's), (120, 30022), (129, 30052), (157, 30139), (194, 30247), (211, 30331), (227, 30385), (240, 30445), (241, 30454), (245, 30469), (253, 30502), (268, 30553), (269, 30556), (282, 30637), (291, 30685), (293, 30691), (297, 30715), (299, 30721), (302, 30742), (308, 30787), (318, 30844), (341, 30979), (342, 30985), (351, 31012), (354, 31018), (356, 31021),

Gene: SamuelLPlaqson_35 Start: 28303, Stop: 29511, Start Num: 46

Candidate Starts for SamuelLPlaqson_35:

(Start: 46 @28303 has 201 MA's), (92, 28405), (129, 28516), (134, 28534), (181, 28693), (194, 28735), (207, 28810), (227, 28876), (231, 28888), (237, 28915), (253, 28990), (264, 29029), (268, 29041), (269, 29044), (282, 29125), (284, 29137), (285, 29140), (287, 29155), (291, 29173), (297, 29203), (299, 29209), (301, 29227), (303, 29236), (304, 29239), (311, 29296), (324, 29365), (331, 29386), (349, 29488), (354, 29503),

Gene: SarahRose_43 Start: 29557, Stop: 30747, Start Num: 65

Candidate Starts for SarahRose_43:

(Start: 65 @29557 has 96 MA's), (90, 29605), (111, 29671), (113, 29677), (146, 29791), (198, 29974), (252, 30205), (253, 30208), (257, 30220), (265, 30256), (269, 30265), (271, 30289), (276, 30310), (282, 30355), (293, 30409), (297, 30433), (298, 30436), (315, 30544), (333, 30634), (342, 30703),

Gene: Scarlett_35 Start: 28055, Stop: 29182, Start Num: 46

Candidate Starts for Scarlett_35:

(Start: 46 @28055 has 201 MA's), (121, 28244), (181, 28370), (194, 28409), (207, 28484), (227, 28547), (231, 28559), (237, 28586), (250, 28649), (253, 28661), (258, 28679), (269, 28715), (272,

28745), (282, 28796), (284, 28808), (287, 28826), (291, 28844), (293, 28850), (297, 28874), (299, 28880), (304, 28910), (311, 28967), (323, 29030), (331, 29057), (333, 29072), (334, 29078), (342, 29141), (349, 29159), (354, 29174),

Gene: Schatzie_162 Start: 88514, Stop: 89674, Start Num: 49

Candidate Starts for Schatzie_162:

(Start: 49 @88514 has 39 MA's), (54, 88532), (73, 88556), (101, 88640), (114, 88670), (164, 88793), (174, 88829), (194, 88886), (195, 88889), (200, 88919), (203, 88937), (228, 89018), (246, 89096), (248, 89105), (249, 89111), (290, 89303), (296, 89339), (303, 89375), (310, 89432), (331, 89543), (339, 89615), (341, 89621), (351, 89651),

Gene: Schmidt_60 Start: 37326, Stop: 38462, Start Num: 80

Candidate Starts for Schmidt_60:

(Start: 80 @37326 has 11 MA's), (96, 37371), (109, 37416), (133, 37497), (143, 37527), (148, 37560), (201, 37719), (211, 37767), (229, 37830), (240, 37884), (245, 37905), (253, 37938), (264, 37980), (268, 37992), (269, 37995), (270, 38016), (286, 38094), (290, 38118), (291, 38124), (293, 38130), (297, 38154), (299, 38160), (301, 38178), (308, 38223), (318, 38280), (323, 38310), (335, 38382), (342, 38421), (356, 38457),

Gene: Sephiroth_112 Start: 63182, Stop: 64324, Start Num: 77

Candidate Starts for Sephiroth_112:

(Start: 77 @63182 has 7 MA's), (81, 63191), (119, 63314), (198, 63563), (205, 63608), (207, 63620), (214, 63641), (229, 63692), (235, 63713), (236, 63722), (237, 63725), (264, 63842), (268, 63854), (274, 63890), (282, 63938), (284, 63950), (293, 63992), (297, 64016), (299, 64022), (303, 64049), (308, 64085), (312, 64115), (318, 64142), (338, 64265), (340, 64274), (341, 64277), (343, 64286), (351, 64310), (354, 64316),

Gene: SgtBeansprout_31 Start: 27784, Stop: 28920, Start Num: 46

Candidate Starts for SgtBeansprout_31:

(Start: 46 @27784 has 201 MA's), (68, 27826), (89, 27871), (107, 27928), (121, 27973), (168, 28060), (187, 28117), (207, 28219), (227, 28285), (231, 28297), (236, 28321), (237, 28324), (253, 28399), (260, 28426), (264, 28438), (269, 28453), (282, 28534), (284, 28546), (291, 28582), (297, 28612), (299, 28618), (301, 28636), (303, 28645), (304, 28648), (317, 28735), (323, 28768), (324, 28774), (331, 28795), (349, 28897), (356, 28915),

Gene: Shaboozey_166 Start: 85632, Stop: 86852, Start Num: 49

Candidate Starts for Shaboozey_166:

(Start: 49 @85632 has 39 MA's), (Start: 75 @85680 has 1 MA's), (142, 85881), (152, 85932), (167, 85980), (174, 86007), (194, 86064), (195, 86067), (200, 86097), (203, 86115), (228, 86196), (246, 86274), (248, 86283), (249, 86289), (258, 86322), (290, 86481), (296, 86517), (303, 86553), (310, 86610), (331, 86721), (339, 86793), (341, 86799), (351, 86829),

Gene: Shadow1_34 Start: 27528, Stop: 28661, Start Num: 46

Candidate Starts for Shadow1_34:

(Start: 46 @27528 has 201 MA's), (78, 27588), (181, 27846), (194, 27888), (217, 27996), (222, 28011), (231, 28038), (237, 28065), (253, 28140), (269, 28194), (282, 28275), (291, 28323), (297, 28353), (299, 28359), (301, 28377), (302, 28380), (311, 28446), (317, 28476), (331, 28536), (354, 28653),

Gene: Shaobing_35 Start: 27680, Stop: 28810, Start Num: 46

Candidate Starts for Shaobing_35:

(Start: 46 @27680 has 201 MA's), (68, 27722), (87, 27764), (121, 27869), (181, 27995), (194, 28037), (227, 28175), (231, 28187), (236, 28211), (237, 28214), (253, 28289), (264, 28328), (268, 28340), (269, 28343), (282, 28424), (284, 28436), (291, 28472), (297, 28502), (299, 28508), (301, 28526),

(303, 28535), (304, 28538), (317, 28625), (324, 28664), (331, 28685), (349, 28787), (354, 28802),

Gene: ShedlockHolmes_36 Start: 29284, Stop: 30414, Start Num: 46

Candidate Starts for ShedlockHolmes_36:

(25, 29149), (Start: 46 @29284 has 201 MA's), (52, 29302), (68, 29326), (121, 29473), (181, 29599), (194, 29641), (207, 29716), (227, 29779), (231, 29791), (249, 29878), (282, 30028), (291, 30076), (293, 30082), (297, 30106), (302, 30133), (304, 30142), (311, 30199), (317, 30229), (324, 30268), (331, 30289), (333, 30304), (349, 30391), (351, 30400), (354, 30406),

Gene: ShiaSurprise_35 Start: 28393, Stop: 29601, Start Num: 46

Candidate Starts for ShiaSurprise_35:

(Start: 38 @28369 has 1 MA's), (Start: 46 @28393 has 201 MA's), (92, 28495), (129, 28606), (181, 28783), (194, 28825), (207, 28900), (220, 28942), (227, 28966), (231, 28978), (237, 29005), (253, 29080), (264, 29119), (269, 29134), (282, 29215), (284, 29227), (285, 29230), (287, 29245), (291, 29263), (293, 29269), (297, 29293), (299, 29299), (301, 29317), (303, 29326), (304, 29329), (311, 29386), (317, 29416), (324, 29455), (331, 29476), (349, 29578), (354, 29593),

Gene: SirPhilip_34 Start: 27159, Stop: 28289, Start Num: 46

Candidate Starts for SirPhilip_34:

(Start: 46 @27159 has 201 MA's), (92, 27261), (161, 27417), (181, 27474), (194, 27516), (207, 27591), (227, 27654), (231, 27666), (237, 27693), (249, 27753), (250, 27756), (253, 27768), (269, 27822), (282, 27903), (284, 27915), (291, 27951), (293, 27957), (297, 27981), (299, 27987), (301, 28005), (304, 28017), (311, 28074), (317, 28104), (323, 28137), (324, 28143), (331, 28164), (333, 28179), (343, 28251), (349, 28266), (354, 28281),

Gene: Slarp_36 Start: 29445, Stop: 30635, Start Num: 46

Candidate Starts for Slarp_36:

(Start: 46 @29445 has 201 MA's), (Start: 110 @29601 has 45 MA's), (120, 29631), (129, 29661), (157, 29748), (194, 29856), (211, 29940), (227, 29994), (240, 30054), (241, 30063), (245, 30078), (253, 30111), (268, 30162), (269, 30165), (282, 30246), (291, 30294), (293, 30300), (297, 30324), (299, 30330), (302, 30351), (308, 30396), (318, 30453), (341, 30588), (342, 30594), (351, 30621), (354, 30627), (356, 30630),

Gene: Slimphazie_35 Start: 28360, Stop: 29568, Start Num: 46

Candidate Starts for Slimphazie_35:

(Start: 46 @28360 has 201 MA's), (92, 28462), (129, 28573), (181, 28750), (194, 28792), (207, 28867), (227, 28933), (231, 28945), (237, 28972), (253, 29047), (264, 29086), (269, 29101), (282, 29182), (284, 29194), (285, 29197), (287, 29212), (291, 29230), (293, 29236), (297, 29260), (299, 29266), (301, 29284), (303, 29293), (304, 29296), (311, 29353), (317, 29383), (318, 29386), (324, 29422), (331, 29443), (349, 29545), (354, 29560),

Gene: Snorlax_43 Start: 29561, Stop: 30751, Start Num: 65

Candidate Starts for Snorlax_43:

(Start: 65 @29561 has 96 MA's), (90, 29609), (111, 29675), (113, 29681), (146, 29795), (198, 29978), (218, 30068), (252, 30209), (253, 30212), (257, 30224), (265, 30260), (269, 30269), (271, 30293), (276, 30314), (282, 30359), (293, 30413), (297, 30437), (298, 30440), (315, 30548), (333, 30638), (342, 30707),

Gene: SoSeph_34 Start: 29070, Stop: 30287, Start Num: 46

Candidate Starts for SoSeph_34:

(Start: 46 @29070 has 201 MA's), (52, 29091), (134, 29304), (147, 29352), (194, 29511), (198, 29529), (200, 29544), (211, 29595), (219, 29625), (222, 29634), (227, 29649), (231, 29661), (249, 29751), (253, 29766), (254, 29769), (259, 29787), (264, 29805), (274, 29853), (282, 29901), (284, 29913),

(291, 29949), (297, 29979), (299, 29985), (302, 30006), (303, 30012), (304, 30015), (308, 30048), (309, 30057), (311, 30072), (317, 30102), (318, 30105), (323, 30135), (349, 30264), (351, 30273),

Gene: Solid_26 Start: 19327, Stop: 18281, Start Num: 110

Candidate Starts for Solid_26:

(Start: 110 @19327 has 45 MA's), (168, 19135), (194, 19048), (209, 18973), (234, 18892), (237, 18877), (251, 18808), (253, 18802), (254, 18799), (258, 18784), (295, 18592), (300, 18574), (319, 18463), (333, 18394), (340, 18334),

Gene: South40_43 Start: 29753, Stop: 30946, Start Num: 65

Candidate Starts for South40_43:

(Start: 65 @29753 has 96 MA's), (90, 29801), (111, 29867), (113, 29873), (146, 29987), (162, 30047), (187, 30128), (198, 30173), (218, 30263), (252, 30404), (253, 30407), (257, 30419), (265, 30455), (269, 30464), (276, 30509), (282, 30554), (293, 30608), (297, 30632), (298, 30635), (315, 30743), (333, 30833), (350, 30926), (352, 30935),

Gene: Speedwell_48 Start: 32317, Stop: 33504, Start Num: 65

Candidate Starts for Speedwell_48:

(Start: 65 @32317 has 96 MA's), (105, 32413), (111, 32434), (113, 32440), (118, 32461), (138, 32521), (146, 32554), (150, 32575), (161, 32611), (181, 32677), (183, 32683), (198, 32731), (242, 32923), (252, 32962), (253, 32965), (261, 32995), (265, 33013), (276, 33067), (282, 33112), (293, 33166), (298, 33193), (333, 33391), (352, 33493),

Gene: Splinter_66 Start: 40804, Stop: 41925, Start Num: 80

Candidate Starts for Splinter_66:

(Start: 80 @40804 has 11 MA's), (83, 40813), (88, 40825), (211, 41230), (230, 41296), (240, 41347), (245, 41368), (249, 41386), (257, 41413), (264, 41443), (265, 41449), (286, 41557), (297, 41617), (299, 41623), (301, 41641), (308, 41686), (329, 41794), (342, 41884), (356, 41920),

Gene: Spock_35 Start: 28393, Stop: 29601, Start Num: 46

Candidate Starts for Spock_35:

(Start: 38 @28369 has 1 MA's), (Start: 46 @28393 has 201 MA's), (92, 28495), (129, 28606), (157, 28714), (181, 28783), (194, 28825), (207, 28900), (227, 28966), (231, 28978), (237, 29005), (253, 29080), (264, 29119), (269, 29134), (282, 29215), (284, 29227), (285, 29230), (287, 29245), (291, 29263), (293, 29269), (297, 29293), (299, 29299), (301, 29317), (303, 29326), (304, 29329), (311, 29386), (317, 29416), (324, 29455), (331, 29476), (349, 29578), (354, 29593),

Gene: SqueakyClean_43 Start: 30580, Stop: 31779, Start Num: 65

Candidate Starts for SqueakyClean_43:

(Start: 65 @30580 has 96 MA's), (125, 30751), (146, 30820), (186, 30952), (198, 31003), (252, 31234), (253, 31237), (261, 31267), (265, 31285), (269, 31294), (276, 31339), (315, 31573), (332, 31654), (333, 31663), (348, 31750), (350, 31756), (353, 31768),

Gene: Squint_163 Start: 86536, Stop: 87756, Start Num: 49

Candidate Starts for Squint_163:

(Start: 49 @86536 has 39 MA's), (Start: 75 @86584 has 1 MA's), (142, 86785), (152, 86836), (167, 86884), (174, 86911), (194, 86968), (195, 86971), (200, 87001), (203, 87019), (228, 87100), (246, 87178), (248, 87187), (249, 87193), (258, 87226), (290, 87385), (296, 87421), (303, 87457), (310, 87514), (331, 87625), (339, 87697), (341, 87703), (351, 87733),

Gene: Squirrel_30 Start: 21911, Stop: 23191, Start Num: 27

Candidate Starts for Squirrel_30:

(Start: 27 @21911 has 3 MA's), (48, 22007), (96, 22115), (97, 22121), (127, 22199), (136, 22226), (137, 22229), (194, 22394), (199, 22418), (215, 22493), (216, 22499), (265, 22682), (269, 22691), (297, 22853), (299, 22859), (305, 22904), (325, 23021),

Gene: Stewart25555_159 Start: 111926, Stop: 110487, Start Num: 16

Candidate Starts for Stewart25555_159:

(16, 111926), (19, 111869), (Start: 21 @111860 has 4 MA's), (28, 111824), (73, 111653), (97, 111578), (155, 111380), (217, 111158), (236, 111092), (253, 111014), (261, 110984), (300, 110783), (323, 110642), (335, 110567), (348, 110510),

Gene: Stinson_36 Start: 28595, Stop: 29803, Start Num: 46

Candidate Starts for Stinson_36:

(Start: 46 @28595 has 201 MA's), (92, 28697), (129, 28808), (134, 28826), (181, 28985), (194, 29027), (207, 29102), (227, 29168), (231, 29180), (237, 29207), (253, 29282), (264, 29321), (268, 29333), (269, 29336), (282, 29417), (284, 29429), (287, 29447), (291, 29465), (293, 29471), (297, 29495), (299, 29501), (301, 29519), (303, 29528), (304, 29531), (311, 29588), (317, 29618), (318, 29621), (324, 29657), (349, 29780), (354, 29795),

Gene: Stormborn_26 Start: 19231, Stop: 18185, Start Num: 110

Candidate Starts for Stormborn_26:

(Start: 110 @19231 has 45 MA's), (209, 18877), (234, 18796), (237, 18781), (251, 18712), (253, 18706), (254, 18703), (278, 18583), (295, 18496), (300, 18478), (319, 18367), (333, 18298), (340, 18238),

Gene: Strobilo_34 Start: 27603, Stop: 28787, Start Num: 46

Candidate Starts for Strobilo_34:

(35, 27570), (Start: 46 @27603 has 201 MA's), (63, 27636), (120, 27786), (129, 27816), (183, 27975), (194, 28014), (207, 28089), (227, 28152), (235, 28179), (237, 28191), (253, 28266), (254, 28269), (291, 28449), (297, 28479), (299, 28485), (302, 28506), (303, 28512), (311, 28572), (317, 28602), (331, 28662), (349, 28764), (356, 28782),

Gene: Sudan_44 Start: 30905, Stop: 32092, Start Num: 65

Candidate Starts for Sudan_44:

(Start: 65 @30905 has 96 MA's), (105, 31001), (111, 31022), (113, 31028), (118, 31049), (146, 31142), (150, 31163), (181, 31265), (183, 31271), (198, 31319), (242, 31511), (252, 31550), (253, 31553), (261, 31583), (265, 31601), (276, 31655), (282, 31700), (293, 31754), (333, 31979), (352, 32081),

Gene: Sujidade_44 Start: 30307, Stop: 31497, Start Num: 65

Candidate Starts for Sujidade_44:

(Start: 65 @30307 has 96 MA's), (90, 30355), (111, 30421), (113, 30427), (146, 30541), (185, 30670), (198, 30724), (218, 30814), (252, 30955), (253, 30958), (257, 30970), (265, 31006), (269, 31015), (271, 31039), (276, 31060), (282, 31105), (293, 31159), (298, 31186), (315, 31294), (333, 31384), (350, 31477),

Gene: Sulley_35 Start: 28326, Stop: 29534, Start Num: 46

Candidate Starts for Sulley_35:

(Start: 46 @28326 has 201 MA's), (92, 28428), (Start: 110 @28479 has 45 MA's), (129, 28539), (181, 28716), (194, 28758), (207, 28833), (227, 28899), (231, 28911), (237, 28938), (253, 29013), (264, 29052), (269, 29067), (282, 29148), (284, 29160), (285, 29163), (287, 29178), (291, 29196), (293, 29202), (297, 29226), (299, 29232), (301, 29250), (303, 29259), (304, 29262), (317, 29349), (324, 29388), (331, 29409), (349, 29511), (354, 29526),

Gene: Sunflower1121_34 Start: 27546, Stop: 28754, Start Num: 46

Candidate Starts for Sunflower1121_34:

(Start: 46 @27546 has 201 MA's), (52, 27564), (70, 27591), (92, 27648), (134, 27777), (181, 27939), (194, 27981), (222, 28104), (231, 28131), (237, 28158), (253, 28233), (269, 28287), (282, 28368), (291, 28416), (297, 28446), (299, 28452), (301, 28470), (302, 28473), (311, 28539), (317, 28569), (331, 28629), (354, 28746),

Gene: SunsetPointe_43 Start: 29203, Stop: 30393, Start Num: 65

Candidate Starts for SunsetPointe_43:

(40, 29140), (Start: 65 @29203 has 96 MA's), (90, 29251), (111, 29317), (146, 29437), (198, 29620), (218, 29710), (252, 29851), (253, 29854), (257, 29866), (265, 29902), (269, 29911), (271, 29935), (276, 29956), (297, 30079), (298, 30082), (315, 30190), (333, 30280), (352, 30382),

Gene: Supernova_26 Start: 19397, Stop: 18351, Start Num: 110

Candidate Starts for Supernova_26:

(Start: 110 @19397 has 45 MA's), (194, 19118), (234, 18962), (237, 18947), (251, 18878), (253, 18872), (254, 18869), (258, 18854), (295, 18662), (300, 18644), (319, 18533), (333, 18464), (340, 18404),

Gene: Superphikiman_166 Start: 85705, Stop: 86925, Start Num: 49

Candidate Starts for Superphikiman_166:

(Start: 49 @85705 has 39 MA's), (Start: 75 @85753 has 1 MA's), (142, 85954), (152, 86005), (167, 86053), (174, 86080), (194, 86137), (195, 86140), (200, 86170), (203, 86188), (228, 86269), (246, 86347), (248, 86356), (249, 86362), (258, 86395), (290, 86554), (296, 86590), (303, 86626), (310, 86683), (331, 86794), (339, 86866), (341, 86872), (351, 86902),

Gene: Superstar_48 Start: 31768, Stop: 32967, Start Num: 65

Candidate Starts for Superstar_48:

(Start: 65 @31768 has 96 MA's), (72, 31777), (105, 31867), (113, 31894), (125, 31939), (139, 31978), (146, 32008), (150, 32029), (198, 32191), (202, 32221), (227, 32311), (252, 32422), (253, 32425), (261, 32455), (265, 32473), (266, 32476), (269, 32482), (273, 32515), (276, 32527), (293, 32626), (301, 32674), (315, 32761), (317, 32776), (332, 32842), (333, 32851), (348, 32938), (350, 32944),

Gene: Syleon_117 Start: 63964, Stop: 65106, Start Num: 77

Candidate Starts for Syleon_117:

(Start: 77 @63964 has 7 MA's), (81, 63973), (112, 64069), (119, 64096), (198, 64345), (205, 64390), (207, 64402), (214, 64423), (229, 64474), (235, 64495), (236, 64504), (237, 64507), (264, 64624), (268, 64636), (274, 64672), (282, 64720), (284, 64732), (293, 64774), (297, 64798), (299, 64804), (303, 64831), (308, 64867), (312, 64897), (318, 64924), (338, 65047), (340, 65056), (341, 65059), (343, 65068), (351, 65092), (354, 65098),

Gene: Syra333_35 Start: 27547, Stop: 28680, Start Num: 46

Candidate Starts for Syra333_35:

(Start: 46 @27547 has 201 MA's), (78, 27607), (181, 27865), (194, 27907), (222, 28030), (231, 28057), (237, 28084), (253, 28159), (269, 28213), (282, 28294), (291, 28342), (293, 28348), (297, 28372), (299, 28378), (301, 28396), (302, 28399), (311, 28465), (317, 28495), (331, 28555), (354, 28672),

Gene: TBond007_35 Start: 28761, Stop: 29891, Start Num: 46

Candidate Starts for TBond007_35:

(25, 28626), (Start: 46 @28761 has 201 MA's), (52, 28779), (68, 28803), (121, 28950), (181, 29076), (194, 29118), (207, 29193), (227, 29256), (231, 29268), (236, 29292), (249, 29355), (282, 29505), (291, 29553), (293, 29559), (297, 29583), (302, 29610), (304, 29619), (311, 29676), (317, 29706), (324, 29745), (331, 29766), (333, 29781), (349, 29868), (351, 29877), (354, 29883),

Gene: TClif_36 Start: 28125, Stop: 29261, Start Num: 46

Candidate Starts for TClif_36:

(Start: 46 @28125 has 201 MA's), (68, 28167), (121, 28314), (173, 28422), (181, 28443), (194, 28488), (207, 28563), (227, 28626), (231, 28638), (235, 28653), (253, 28740), (269, 28794), (282, 28875), (291, 28923), (293, 28929), (297, 28953), (299, 28959), (304, 28989), (311, 29046), (317, 29076), (324, 29115), (342, 29220), (349, 29238), (354, 29253),

Gene: TM4_36 Start: 27808, Stop: 28992, Start Num: 46

Candidate Starts for TM4_36:

(Start: 46 @27808 has 201 MA's), (63, 27841), (120, 27991), (129, 28021), (227, 28357), (235, 28384), (237, 28396), (253, 28471), (254, 28474), (291, 28654), (297, 28684), (299, 28690), (302, 28711), (303, 28717), (311, 28777), (317, 28807), (331, 28867), (356, 28987),

Gene: TZGordon_67 Start: 39692, Stop: 40816, Start Num: 80

Candidate Starts for TZGordon_67:

(42, 39617), (Start: 80 @39692 has 11 MA's), (83, 39701), (88, 39713), (128, 39836), (212, 40127), (226, 40175), (230, 40187), (240, 40238), (245, 40259), (249, 40277), (257, 40304), (264, 40334), (265, 40340), (286, 40448), (297, 40508), (299, 40514), (301, 40532), (308, 40577), (329, 40685), (342, 40775), (356, 40811),

Gene: Tachez_35 Start: 28322, Stop: 29530, Start Num: 46

Candidate Starts for Tachez_35:

(Start: 46 @28322 has 201 MA's), (92, 28424), (129, 28535), (181, 28712), (194, 28754), (207, 28829), (227, 28895), (231, 28907), (237, 28934), (253, 29009), (264, 29048), (269, 29063), (282, 29144), (284, 29156), (285, 29159), (287, 29174), (291, 29192), (293, 29198), (297, 29222), (299, 29228), (301, 29246), (303, 29255), (304, 29258), (311, 29315), (317, 29345), (318, 29348), (324, 29384), (331, 29405), (349, 29507), (354, 29522),

Gene: TagePhighter_45 Start: 29561, Stop: 30751, Start Num: 65

Candidate Starts for TagePhighter_45:

(Start: 65 @29561 has 96 MA's), (90, 29609), (111, 29675), (113, 29681), (146, 29795), (198, 29978), (252, 30209), (253, 30212), (257, 30224), (265, 30260), (269, 30269), (271, 30293), (276, 30314), (282, 30359), (293, 30413), (297, 30437), (298, 30440), (315, 30548), (333, 30638), (342, 30707),

Gene: TaiwanKao_36 Start: 28323, Stop: 29531, Start Num: 46

Candidate Starts for TaiwanKao_36:

(Start: 46 @28323 has 201 MA's), (92, 28425), (129, 28536), (134, 28554), (181, 28713), (194, 28755), (207, 28830), (227, 28896), (231, 28908), (237, 28935), (253, 29010), (264, 29049), (268, 29061), (269, 29064), (282, 29145), (284, 29157), (285, 29160), (287, 29175), (291, 29193), (293, 29199), (297, 29223), (299, 29229), (301, 29247), (303, 29256), (304, 29259), (311, 29316), (317, 29346), (324, 29385), (331, 29406), (349, 29508), (354, 29523),

Gene: Talia1610_171 Start: 113951, Stop: 112623, Start Num: 21

Candidate Starts for Talia1610_171:

(Start: 21 @113951 has 4 MA's), (85, 113726), (215, 113303), (236, 113228), (253, 113150), (323, 112778),

Gene: Taquito_36 Start: 29883, Stop: 31079, Start Num: 46

Candidate Starts for Taquito_36:

(Start: 46 @29883 has 201 MA's), (Start: 110 @30039 has 45 MA's), (120, 30069), (129, 30099), (157, 30186), (194, 30294), (211, 30378), (227, 30432), (240, 30492), (241, 30501), (245, 30516), (253, 30549), (268, 30600), (269, 30603), (282, 30684), (291, 30732), (293, 30738), (297, 30762), (299, 30768), (302, 30789), (308, 30834), (318, 30891), (341, 31026), (342, 31032), (345, 31044),

Gene: Teejan_31 Start: 27784, Stop: 28920, Start Num: 46

Candidate Starts for Teejan_31:

(Start: 46 @27784 has 201 MA's), (68, 27826), (89, 27871), (107, 27928), (121, 27973), (168, 28060), (187, 28117), (207, 28219), (227, 28285), (231, 28297), (236, 28321), (237, 28324), (253, 28399), (260, 28426), (264, 28438), (269, 28453), (282, 28534), (284, 28546), (291, 28582), (297, 28612), (299, 28618), (301, 28636), (303, 28645), (304, 28648), (317, 28735), (323, 28768), (324, 28774), (331, 28795), (349, 28897), (356, 28915),

Gene: Tefunt_45 Start: 30484, Stop: 31686, Start Num: 65

Candidate Starts for Tefunt_45:

(Start: 65 @30484 has 96 MA's), (113, 30610), (125, 30655), (146, 30724), (150, 30745), (182, 30853), (186, 30859), (198, 30910), (252, 31141), (253, 31144), (261, 31174), (265, 31192), (269, 31201), (276, 31246), (315, 31480), (333, 31570), (348, 31657), (350, 31663), (353, 31675),

Gene: Thestral_45 Start: 30681, Stop: 31883, Start Num: 65

Candidate Starts for Thestral_45:

(Start: 65 @30681 has 96 MA's), (146, 30921), (150, 30942), (181, 31044), (185, 31053), (198, 31107), (221, 31206), (252, 31338), (253, 31341), (261, 31371), (265, 31389), (302, 31593), (315, 31677), (316, 31686), (333, 31767), (348, 31854), (350, 31860),

Gene: Thibault_151 Start: 85394, Stop: 86554, Start Num: 49

Candidate Starts for Thibault_151:

(Start: 49 @85394 has 39 MA's), (54, 85412), (73, 85436), (86, 85469), (101, 85520), (114, 85550), (164, 85673), (174, 85709), (194, 85766), (195, 85769), (200, 85799), (203, 85817), (228, 85898), (246, 85976), (248, 85985), (249, 85991), (290, 86183), (296, 86219), (303, 86255), (310, 86312), (331, 86423), (339, 86495), (341, 86501), (351, 86531),

Gene: ThreeRngTarjay_164 Start: 89388, Stop: 90548, Start Num: 49

Candidate Starts for ThreeRngTarjay_164:

(Start: 49 @89388 has 39 MA's), (54, 89406), (73, 89430), (101, 89514), (114, 89544), (164, 89667), (174, 89703), (194, 89760), (195, 89763), (200, 89793), (203, 89811), (228, 89892), (246, 89970), (248, 89979), (249, 89985), (290, 90177), (296, 90213), (303, 90249), (310, 90306), (331, 90417), (339, 90489), (341, 90495), (351, 90525),

Gene: Thyatira_34 Start: 28924, Stop: 30141, Start Num: 46

Candidate Starts for Thyatira_34:

(Start: 46 @28924 has 201 MA's), (52, 28945), (134, 29158), (147, 29206), (194, 29365), (198, 29383), (200, 29398), (211, 29449), (218, 29476), (219, 29479), (222, 29488), (227, 29503), (231, 29515), (249, 29605), (253, 29620), (254, 29623), (259, 29641), (264, 29659), (269, 29674), (274, 29707), (282, 29755), (284, 29767), (291, 29803), (297, 29833), (299, 29839), (302, 29860), (303, 29866), (304, 29869), (317, 29956), (318, 29959), (323, 29989), (340, 30091), (349, 30118), (351, 30127),

Gene: Tierra_35 Start: 28382, Stop: 29590, Start Num: 46

Candidate Starts for Tierra_35:

(Start: 46 @28382 has 201 MA's), (52, 28400), (92, 28484), (129, 28595), (134, 28613), (181, 28775), (194, 28817), (227, 28955), (231, 28967), (237, 28994), (253, 29069), (269, 29123), (282, 29204), (291, 29252), (293, 29258), (297, 29282), (301, 29306), (302, 29309), (311, 29375), (317, 29405), (331, 29465), (342, 29549), (349, 29567), (354, 29582),

Gene: Tigress9_36 Start: 27546, Stop: 28754, Start Num: 46

Candidate Starts for Tigress9_36:

(Start: 46 @27546 has 201 MA's), (52, 27564), (92, 27648), (129, 27759), (134, 27777), (149, 27840), (181, 27939), (194, 27981), (227, 28119), (231, 28131), (237, 28158), (253, 28233), (269, 28287), (282, 28368), (291, 28416), (293, 28422), (297, 28446), (301, 28470), (302, 28473), (311, 28539), (331, 28629), (354, 28746),

Gene: TinaBelcher_43 Start: 30628, Stop: 31830, Start Num: 65

Candidate Starts for TinaBelcher_43:

(Start: 65 @30628 has 96 MA's), (146, 30868), (150, 30889), (181, 30991), (185, 31000), (198, 31054), (221, 31153), (252, 31285), (253, 31288), (261, 31318), (265, 31336), (302, 31540), (315, 31624), (316, 31633), (333, 31714), (348, 31801), (350, 31807),

Gene: TinaLin_65 Start: 39535, Stop: 40647, Start Num: 80

Candidate Starts for TinaLin_65:

(61, 39508), (Start: 80 @39535 has 11 MA's), (83, 39544), (88, 39556), (102, 39592), (124, 39658), (187, 39853), (205, 39931), (223, 39997), (226, 40006), (230, 40018), (240, 40069), (257, 40135), (264, 40165), (265, 40171), (269, 40180), (286, 40279), (297, 40339), (300, 40351), (301, 40363), (308, 40408), (329, 40516), (335, 40567), (342, 40606), (356, 40642),

Gene: TingHuaYa_35 Start: 27515, Stop: 28723, Start Num: 46

Candidate Starts for TingHuaYa_35:

(Start: 46 @27515 has 201 MA's), (92, 27617), (129, 27728), (134, 27746), (157, 27836), (181, 27905), (194, 27947), (207, 28022), (227, 28088), (231, 28100), (237, 28127), (253, 28202), (264, 28241), (268, 28253), (269, 28256), (282, 28337), (284, 28349), (285, 28352), (287, 28367), (291, 28385), (293, 28391), (297, 28415), (299, 28421), (301, 28439), (303, 28448), (304, 28451), (311, 28508), (324, 28577), (331, 28598), (349, 28700), (354, 28715),

Gene: TiniBug_35 Start: 28299, Stop: 29507, Start Num: 46

Candidate Starts for TiniBug_35:

(Start: 46 @28299 has 201 MA's), (92, 28401), (129, 28512), (134, 28530), (181, 28689), (194, 28731), (207, 28806), (227, 28872), (231, 28884), (237, 28911), (253, 28986), (264, 29025), (268, 29037), (269, 29040), (282, 29121), (284, 29133), (285, 29136), (287, 29151), (291, 29169), (297, 29199), (299, 29205), (301, 29223), (303, 29232), (304, 29235), (311, 29292), (324, 29361), (331, 29382), (349, 29484), (354, 29499),

Gene: Tiri_35 Start: 28374, Stop: 29582, Start Num: 46

Candidate Starts for Tiri_35:

(Start: 46 @28374 has 201 MA's), (92, 28476), (Start: 110 @28527 has 45 MA's), (129, 28587), (134, 28605), (181, 28764), (194, 28806), (207, 28881), (227, 28947), (231, 28959), (237, 28986), (253, 29061), (264, 29100), (282, 29196), (284, 29208), (285, 29211), (287, 29226), (291, 29244), (297, 29274), (299, 29280), (301, 29298), (303, 29307), (304, 29310), (311, 29367), (324, 29436), (331, 29457), (349, 29559), (354, 29574),

Gene: Toma_43 Start: 30039, Stop: 31229, Start Num: 65

Candidate Starts for Toma_43:

(Start: 65 @30039 has 96 MA's), (90, 30087), (111, 30153), (113, 30159), (146, 30273), (198, 30456), (218, 30546), (252, 30687), (253, 30690), (257, 30702), (265, 30738), (269, 30747), (276, 30792), (282, 30837), (293, 30891), (297, 30915), (298, 30918), (315, 31026), (333, 31116), (342, 31185),

Gene: Topper_35 Start: 28393, Stop: 29601, Start Num: 46

Candidate Starts for Topper_35:

(Start: 38 @28369 has 1 MA's), (Start: 46 @28393 has 201 MA's), (92, 28495), (129, 28606), (157, 28714), (181, 28783), (194, 28825), (207, 28900), (227, 28966), (231, 28978), (237, 29005), (253, 29080), (264, 29119), (269, 29134), (282, 29215), (284, 29227), (285, 29230), (287, 29245), (291,

29263), (293, 29269), (297, 29293), (299, 29299), (301, 29317), (303, 29326), (304, 29329), (311, 29386), (317, 29416), (324, 29455), (331, 29476), (349, 29578), (354, 29593),

Gene: Torres_31 Start: 27784, Stop: 28920, Start Num: 46

Candidate Starts for Torres_31:

(Start: 46 @27784 has 201 MA's), (68, 27826), (89, 27871), (107, 27928), (121, 27973), (168, 28060), (187, 28117), (207, 28219), (227, 28285), (231, 28297), (236, 28321), (237, 28324), (253, 28399), (260, 28426), (264, 28438), (269, 28453), (282, 28534), (284, 28546), (291, 28582), (297, 28612), (299, 28618), (301, 28636), (303, 28645), (304, 28648), (317, 28735), (323, 28768), (324, 28774), (331, 28795), (349, 28897), (356, 28915),

Gene: Trax_115 Start: 65319, Stop: 66446, Start Num: 77

Candidate Starts for Trax_115:

(Start: 77 @65319 has 7 MA's), (113, 65421), (126, 65454), (194, 65667), (227, 65808), (233, 65823), (235, 65835), (237, 65847), (254, 65925), (264, 65964), (269, 65979), (272, 66009), (274, 66012), (284, 66072), (286, 66078), (290, 66102), (293, 66114), (297, 66138), (303, 66171), (308, 66207), (311, 66231), (320, 66279), (343, 66408), (344, 66411), (351, 66432), (354, 66438), (356, 66441),

Gene: TreyKay_35 Start: 28323, Stop: 29531, Start Num: 46

Candidate Starts for TreyKay_35:

(Start: 46 @28323 has 201 MA's), (92, 28425), (129, 28536), (134, 28554), (181, 28713), (194, 28755), (207, 28830), (227, 28896), (231, 28908), (237, 28935), (253, 29010), (264, 29049), (268, 29061), (269, 29064), (282, 29145), (284, 29157), (287, 29175), (291, 29193), (293, 29199), (297, 29223), (299, 29229), (303, 29256), (304, 29259), (311, 29316), (317, 29346), (324, 29385), (331, 29406), (349, 29508), (354, 29523),

Gene: TribbleTrouble_34 Start: 28818, Stop: 30026, Start Num: 46

Candidate Starts for TribbleTrouble_34:

(Start: 46 @28818 has 201 MA's), (52, 28836), (92, 28920), (129, 29031), (134, 29049), (149, 29112), (181, 29211), (194, 29253), (207, 29328), (227, 29391), (231, 29403), (235, 29418), (253, 29505), (282, 29640), (291, 29688), (297, 29718), (302, 29745), (311, 29811), (317, 29841), (331, 29901), (349, 30003), (351, 30012), (354, 30018),

Gene: Trice_31 Start: 27784, Stop: 28920, Start Num: 46

Candidate Starts for Trice_31:

(Start: 46 @27784 has 201 MA's), (68, 27826), (89, 27871), (107, 27928), (121, 27973), (168, 28060), (187, 28117), (207, 28219), (227, 28285), (231, 28297), (236, 28321), (237, 28324), (253, 28399), (260, 28426), (264, 28438), (269, 28453), (282, 28534), (284, 28546), (291, 28582), (297, 28612), (299, 28618), (301, 28636), (303, 28645), (304, 28648), (317, 28735), (323, 28768), (324, 28774), (331, 28795), (349, 28897), (356, 28915),

Gene: Triste_43 Start: 29549, Stop: 30739, Start Num: 65

Candidate Starts for Triste_43:

(Start: 65 @29549 has 96 MA's), (90, 29597), (111, 29663), (113, 29669), (146, 29783), (198, 29966), (218, 30056), (252, 30197), (253, 30200), (257, 30212), (265, 30248), (269, 30257), (276, 30302), (282, 30347), (293, 30401), (297, 30425), (298, 30428), (315, 30536), (333, 30626), (342, 30695),

Gene: Triumph_46 Start: 30620, Stop: 31819, Start Num: 65

Candidate Starts for Triumph_46:

(Start: 65 @30620 has 96 MA's), (89, 30668), (125, 30791), (146, 30860), (150, 30881), (186, 30992), (198, 31043), (252, 31274), (253, 31277), (261, 31307), (265, 31325), (269, 31334), (276, 31379), (315, 31613), (323, 31661), (332, 31694), (333, 31703), (348, 31790), (350, 31796), (353, 31808),

Gene: TruffulaTree_35 Start: 28356, Stop: 29564, Start Num: 46

Candidate Starts for TruffulaTree_35:

(Start: 46 @28356 has 201 MA's), (92, 28458), (129, 28569), (181, 28746), (194, 28788), (207, 28863), (227, 28929), (231, 28941), (237, 28968), (253, 29043), (264, 29082), (269, 29097), (282, 29178), (284, 29190), (285, 29193), (287, 29208), (291, 29226), (297, 29256), (299, 29262), (301, 29280), (303, 29289), (304, 29292), (311, 29349), (317, 29379), (318, 29382), (324, 29418), (331, 29439), (349, 29541), (354, 29556),

Gene: TrvxScott_42 Start: 30674, Stop: 31876, Start Num: 65

Candidate Starts for TrvxScott_42:

(Start: 65 @30674 has 96 MA's), (146, 30914), (150, 30935), (174, 31016), (181, 31037), (185, 31046), (198, 31100), (221, 31199), (245, 31301), (252, 31331), (253, 31334), (261, 31364), (265, 31382), (302, 31586), (315, 31670), (316, 31679), (333, 31760), (348, 31847), (350, 31853),

Gene: TuanPN_42 Start: 29490, Stop: 30680, Start Num: 65

Candidate Starts for TuanPN_42:

(Start: 65 @29490 has 96 MA's), (90, 29538), (111, 29604), (146, 29724), (198, 29907), (218, 29997), (252, 30138), (253, 30141), (257, 30153), (265, 30189), (269, 30198), (271, 30222), (276, 30243), (282, 30288), (293, 30342), (298, 30369), (315, 30477), (333, 30567),

Gene: Twitch_35 Start: 28393, Stop: 29601, Start Num: 46

Candidate Starts for Twitch_35:

(Start: 38 @28369 has 1 MA's), (Start: 46 @28393 has 201 MA's), (92, 28495), (129, 28606), (157, 28714), (181, 28783), (194, 28825), (207, 28900), (227, 28966), (231, 28978), (237, 29005), (253, 29080), (264, 29119), (269, 29134), (282, 29215), (284, 29227), (285, 29230), (287, 29245), (291, 29263), (293, 29269), (297, 29293), (299, 29299), (301, 29317), (303, 29326), (304, 29329), (311, 29386), (317, 29416), (324, 29455), (331, 29476), (349, 29578), (354, 29593),

Gene: Unicorn_35 Start: 27711, Stop: 28919, Start Num: 46

Candidate Starts for Unicorn_35:

(Start: 46 @27711 has 201 MA's), (52, 27729), (92, 27813), (129, 27924), (134, 27942), (181, 28104), (194, 28146), (227, 28284), (231, 28296), (237, 28323), (253, 28398), (269, 28452), (282, 28533), (291, 28581), (293, 28587), (297, 28611), (301, 28635), (302, 28638), (317, 28734), (331, 28794), (342, 28878), (349, 28896), (354, 28911),

Gene: Unstoppable_43 Start: 29207, Stop: 30397, Start Num: 65

Candidate Starts for Unstoppable_43:

(40, 29144), (Start: 65 @29207 has 96 MA's), (90, 29255), (111, 29321), (138, 29408), (146, 29441), (186, 29573), (198, 29624), (218, 29714), (252, 29855), (253, 29858), (257, 29870), (265, 29906), (269, 29915), (271, 29939), (276, 29960), (297, 30083), (298, 30086), (315, 30194), (333, 30284), (352, 30386),

Gene: Urkel_35 Start: 28303, Stop: 29511, Start Num: 46

Candidate Starts for Urkel_35:

(Start: 46 @28303 has 201 MA's), (92, 28405), (129, 28516), (134, 28534), (181, 28693), (194, 28735), (207, 28810), (227, 28876), (231, 28888), (237, 28915), (253, 28990), (264, 29029), (268, 29041), (269, 29044), (282, 29125), (284, 29137), (285, 29140), (287, 29155), (291, 29173), (297, 29203), (299, 29209), (301, 29227), (303, 29236), (304, 29239), (311, 29296), (324, 29365), (331, 29386), (349, 29488), (354, 29503),

Gene: Urza_45 Start: 30120, Stop: 31313, Start Num: 66

Candidate Starts for Urza_45:

(Start: 66 @30120 has 5 MA's), (105, 30219), (111, 30240), (113, 30246), (146, 30360), (150, 30381), (161, 30417), (195, 30522), (198, 30537), (227, 30657), (242, 30729), (252, 30768), (253, 30771), (265, 30819), (269, 30828), (271, 30852), (273, 30861), (276, 30873), (315, 31107), (331, 31182), (333, 31197), (340, 31257), (353, 31302),

Gene: Validus_35 Start: 27612, Stop: 28742, Start Num: 46

Candidate Starts for Validus_35:

(Start: 46 @27612 has 201 MA's), (68, 27654), (121, 27801), (181, 27927), (194, 27969), (207, 28044), (231, 28119), (236, 28143), (237, 28146), (253, 28221), (264, 28260), (268, 28272), (269, 28275), (282, 28356), (284, 28368), (291, 28404), (297, 28434), (299, 28440), (301, 28458), (303, 28467), (304, 28470), (311, 28527), (317, 28557), (324, 28596), (331, 28617), (349, 28719), (354, 28734),

Gene: Vanseggelen_48 Start: 30550, Stop: 31737, Start Num: 65

Candidate Starts for Vanseggelen_48:

(Start: 65 @30550 has 96 MA's), (89, 30595), (105, 30646), (111, 30667), (113, 30673), (118, 30694), (146, 30787), (150, 30808), (161, 30844), (167, 30862), (181, 30910), (183, 30916), (198, 30964), (202, 30994), (242, 31156), (252, 31195), (253, 31198), (261, 31228), (265, 31246), (276, 31300), (293, 31399), (299, 31429), (302, 31450), (333, 31624), (352, 31726),

Gene: Veliki_35 Start: 28396, Stop: 29604, Start Num: 46

Candidate Starts for Veliki_35:

(Start: 46 @28396 has 201 MA's), (92, 28498), (129, 28609), (181, 28786), (194, 28828), (207, 28903), (227, 28969), (231, 28981), (237, 29008), (253, 29083), (264, 29122), (269, 29137), (282, 29218), (284, 29230), (285, 29233), (287, 29248), (291, 29266), (293, 29272), (297, 29296), (299, 29302), (301, 29320), (303, 29329), (304, 29332), (311, 29389), (317, 29419), (318, 29422), (324, 29458), (331, 29479), (342, 29563), (349, 29581), (354, 29596),

Gene: Vendetta_66 Start: 40804, Stop: 41925, Start Num: 80

Candidate Starts for Vendetta_66:

(Start: 80 @40804 has 11 MA's), (83, 40813), (88, 40825), (211, 41230), (230, 41296), (240, 41347), (245, 41368), (249, 41386), (257, 41413), (264, 41443), (265, 41449), (286, 41557), (297, 41617), (299, 41623), (301, 41641), (308, 41686), (329, 41794), (342, 41884), (356, 41920),

Gene: Verabelle_47 Start: 31111, Stop: 32298, Start Num: 65

Candidate Starts for Verabelle_47:

(Start: 65 @31111 has 96 MA's), (105, 31207), (111, 31228), (113, 31234), (118, 31255), (146, 31348), (150, 31369), (181, 31471), (183, 31477), (198, 31525), (202, 31555), (242, 31717), (252, 31756), (253, 31759), (261, 31789), (265, 31807), (276, 31861), (282, 31906), (293, 31960), (333, 32185), (352, 32287),

Gene: Verse_43 Start: 31704, Stop: 32891, Start Num: 65

Candidate Starts for Verse_43:

(Start: 65 @31704 has 96 MA's), (105, 31800), (111, 31821), (113, 31827), (118, 31848), (146, 31941), (150, 31962), (161, 31998), (181, 32064), (183, 32070), (198, 32118), (202, 32148), (242, 32310), (252, 32349), (253, 32352), (261, 32382), (265, 32400), (276, 32454), (282, 32499), (293, 32553), (298, 32580), (333, 32778), (352, 32880),

Gene: VieEnRose_45 Start: 30190, Stop: 31383, Start Num: 66

Candidate Starts for VieEnRose_45:

(Start: 66 @30190 has 5 MA's), (105, 30289), (111, 30310), (113, 30316), (146, 30430), (150, 30451), (161, 30487), (195, 30592), (198, 30607), (227, 30727), (242, 30799), (252, 30838), (253, 30841), (265, 30889), (269, 30898), (273, 30931), (276, 30943), (315, 31177), (331, 31252), (333, 31267), (340, 31327), (353, 31372),

Gene: ViviJ_33 Start: 28759, Stop: 29973, Start Num: 46

Candidate Starts for ViviJ_33:

(Start: 46 @28759 has 201 MA's), (52, 28777), (134, 28990), (147, 29038), (194, 29197), (199, 29221), (211, 29281), (219, 29311), (222, 29320), (227, 29335), (231, 29347), (253, 29452), (254, 29455), (259, 29473), (269, 29506), (274, 29539), (282, 29587), (284, 29599), (291, 29635), (297, 29665), (299, 29671), (302, 29692), (303, 29698), (304, 29701), (311, 29758), (317, 29788), (318, 29791), (340, 29923), (343, 29935), (349, 29950), (351, 29959),

Gene: Volt_123 Start: 57630, Stop: 58721, Start Num: 84

Candidate Starts for Volt_123:

(Start: 84 @57630 has 6 MA's), (91, 57651), (145, 57786), (154, 57822), (158, 57834), (173, 57882), (198, 57957), (211, 58023), (212, 58029), (235, 58110), (257, 58209), (268, 58251), (284, 58347), (290, 58371), (291, 58377), (297, 58407), (300, 58419), (308, 58476), (318, 58533), (347, 58695),

Gene: WaddleDee_155 Start: 109525, Stop: 108011, Start Num: 13

Candidate Starts for WaddleDee_155:

(3, 109627), (8, 109591), (12, 109534), (Start: 13 @109525 has 4 MA's), (14, 109489), (33, 109321), (34, 109318), (62, 109240), (Start: 80 @109207 has 11 MA's), (82, 109198), (92, 109165), (137, 109018), (151, 108970), (174, 108889), (206, 108739), (246, 108601), (290, 108385), (299, 108343), (307, 108283), (340, 108070),

Gene: Wanda_165 Start: 85979, Stop: 87139, Start Num: 49

Candidate Starts for Wanda_165:

(Start: 49 @85979 has 39 MA's), (54, 85997), (73, 86021), (101, 86105), (114, 86135), (164, 86258), (174, 86294), (194, 86351), (195, 86354), (200, 86384), (203, 86402), (228, 86483), (246, 86561), (248, 86570), (249, 86576), (290, 86768), (296, 86804), (303, 86840), (310, 86897), (331, 87008), (339, 87080), (341, 87086), (351, 87116),

Gene: Waterfoul_34 Start: 28948, Stop: 30165, Start Num: 46

Candidate Starts for Waterfoul_34:

(Start: 46 @28948 has 201 MA's), (52, 28969), (134, 29182), (147, 29230), (194, 29389), (198, 29407), (200, 29422), (211, 29473), (219, 29503), (222, 29512), (227, 29527), (231, 29539), (249, 29629), (253, 29644), (254, 29647), (259, 29665), (264, 29683), (269, 29698), (274, 29731), (282, 29779), (284, 29791), (291, 29827), (297, 29857), (299, 29863), (302, 29884), (303, 29890), (304, 29893), (311, 29950), (317, 29980), (318, 29983), (323, 30013), (340, 30115), (349, 30142), (351, 30151), (356, 30160),

Gene: Werner_43 Start: 29559, Stop: 30749, Start Num: 65

Candidate Starts for Werner_43:

(Start: 65 @29559 has 96 MA's), (90, 29607), (111, 29673), (113, 29679), (146, 29793), (198, 29976), (218, 30066), (252, 30207), (253, 30210), (257, 30222), (265, 30258), (269, 30267), (276, 30312), (282, 30357), (293, 30411), (297, 30435), (298, 30438), (315, 30546), (333, 30636), (342, 30705),

Gene: Whatever_43 Start: 29559, Stop: 30749, Start Num: 65

Candidate Starts for Whatever_43:

(Start: 65 @29559 has 96 MA's), (90, 29607), (111, 29673), (113, 29679), (146, 29793), (198, 29976), (252, 30207), (253, 30210), (257, 30222), (265, 30258), (269, 30267), (276, 30312), (282, 30357), (293, 30411), (297, 30435), (298, 30438), (315, 30546), (333, 30636), (342, 30705),

Gene: Wintermute_36 Start: 29432, Stop: 30622, Start Num: 46

Candidate Starts for Wintermute_36:

(Start: 46 @29432 has 201 MA's), (Start: 110 @29588 has 45 MA's), (120, 29618), (129, 29648), (157, 29735), (194, 29843), (211, 29927), (227, 29981), (240, 30041), (241, 30050), (245, 30065), (253, 30098), (268, 30149), (269, 30152), (282, 30233), (291, 30281), (293, 30287), (297, 30311), (299, 30317), (302, 30338), (308, 30383), (318, 30440), (341, 30575), (342, 30581), (351, 30608), (354, 30614), (356, 30617),

Gene: Wizzo_26 Start: 19120, Stop: 18074, Start Num: 110

Candidate Starts for Wizzo_26:

(Start: 110 @19120 has 45 MA's), (194, 18841), (234, 18685), (237, 18670), (245, 18628), (251, 18601), (253, 18595), (254, 18592), (258, 18577), (264, 18556), (295, 18385), (300, 18367), (319, 18256), (333, 18187), (340, 18127),

Gene: Xiaokay_163 Start: 89414, Stop: 90574, Start Num: 49

Candidate Starts for Xiaokay_163:

(Start: 49 @89414 has 39 MA's), (54, 89432), (73, 89456), (101, 89540), (114, 89570), (164, 89693), (174, 89729), (194, 89786), (195, 89789), (200, 89819), (203, 89837), (228, 89918), (246, 89996), (248, 90005), (249, 90011), (290, 90203), (296, 90239), (303, 90275), (310, 90332), (331, 90443), (339, 90515), (341, 90521), (351, 90551),

Gene: Ximenita_36 Start: 27732, Stop: 28865, Start Num: 46

Candidate Starts for Ximenita_36:

(Start: 46 @27732 has 201 MA's), (181, 28050), (194, 28092), (231, 28242), (237, 28269), (253, 28344), (269, 28398), (282, 28479), (291, 28527), (297, 28557), (299, 28563), (301, 28581), (302, 28584), (311, 28650), (317, 28680), (331, 28740), (354, 28857),

Gene: Y10_36 Start: 29432, Stop: 30622, Start Num: 46

Candidate Starts for Y10_36:

(Start: 46 @29432 has 201 MA's), (Start: 110 @29588 has 45 MA's), (120, 29618), (129, 29648), (157, 29735), (161, 29747), (194, 29843), (198, 29861), (211, 29927), (227, 29981), (240, 30041), (241, 30050), (245, 30065), (252, 30095), (253, 30098), (268, 30149), (269, 30152), (282, 30233), (291, 30281), (293, 30287), (297, 30311), (299, 30317), (302, 30338), (308, 30383), (318, 30440), (341, 30575), (351, 30608), (354, 30614), (356, 30617),

Gene: Y2_36 Start: 29432, Stop: 30622, Start Num: 46

Candidate Starts for Y2_36:

(Start: 46 @29432 has 201 MA's), (Start: 110 @29588 has 45 MA's), (120, 29618), (129, 29648), (157, 29735), (161, 29747), (194, 29843), (198, 29861), (211, 29927), (227, 29981), (240, 30041), (241, 30050), (245, 30065), (252, 30095), (253, 30098), (268, 30149), (269, 30152), (282, 30233), (291, 30281), (293, 30287), (297, 30311), (299, 30317), (302, 30338), (308, 30383), (318, 30440), (341, 30575), (351, 30608), (354, 30614), (356, 30617),

Gene: Yappy_76 Start: 36864, Stop: 35626, Start Num: 32

Candidate Starts for Yappy_76:

(29, 36876), (Start: 32 @36864 has 1 MA's), (45, 36825), (50, 36816), (60, 36789), (71, 36783), (97, 36705), (99, 36699), (117, 36648), (168, 36504), (175, 36483), (193, 36426), (196, 36417), (199, 36399), (233, 36279), (243, 36222), (248, 36204), (254, 36180), (257, 36171), (258, 36165), (282, 36039), (290, 36000), (297, 35964), (300, 35952), (317, 35838), (325, 35796), (340, 35682),

Gene: Yasdnii_43 Start: 29608, Stop: 30798, Start Num: 65

Candidate Starts for Yasdnii_43:

(Start: 65 @29608 has 96 MA's), (90, 29656), (111, 29722), (146, 29842), (198, 30025), (218, 30115), (252, 30256), (253, 30259), (257, 30271), (265, 30307), (269, 30316), (271, 30340), (276, 30361), (282, 30406), (293, 30460), (298, 30487), (315, 30595), (333, 30685),

Gene: YasnayaPolyana_36 Start: 29433, Stop: 30623, Start Num: 46

Candidate Starts for YasnayaPolyana_36:

(Start: 46 @29433 has 201 MA's), (Start: 110 @29589 has 45 MA's), (120, 29619), (129, 29649), (157, 29736), (161, 29748), (194, 29844), (198, 29862), (211, 29928), (227, 29982), (240, 30042), (241, 30051), (245, 30066), (252, 30096), (253, 30099), (268, 30150), (269, 30153), (282, 30234), (291, 30282), (293, 30288), (297, 30312), (299, 30318), (302, 30339), (308, 30384), (318, 30441), (341, 30576), (342, 30582), (351, 30609), (354, 30615), (356, 30618),

Gene: Yeet_159 Start: 87367, Stop: 88527, Start Num: 49

Candidate Starts for Yeet_159:

(Start: 49 @87367 has 39 MA's), (54, 87385), (73, 87409), (101, 87493), (114, 87523), (164, 87646), (174, 87682), (194, 87739), (195, 87742), (200, 87772), (203, 87790), (228, 87871), (232, 87883), (246, 87949), (249, 87964), (258, 87997), (290, 88156), (296, 88192), (303, 88228), (310, 88285), (331, 88396), (339, 88468), (341, 88474), (351, 88504),

Gene: Yosif_46 Start: 31673, Stop: 32860, Start Num: 66

Candidate Starts for Yosif_46:

(40, 31607), (Start: 66 @31673 has 5 MA's), (105, 31772), (113, 31799), (125, 31844), (138, 31880), (146, 31913), (182, 32039), (198, 32087), (202, 32117), (218, 32177), (252, 32318), (253, 32321), (261, 32351), (263, 32357), (264, 32363), (265, 32369), (276, 32423), (293, 32522), (297, 32546), (298, 32549), (315, 32657), (333, 32747), (352, 32849),

Gene: YoureAdopted_34 Start: 28329, Stop: 29537, Start Num: 46

Candidate Starts for YoureAdopted_34:

(Start: 38 @28305 has 1 MA's), (Start: 46 @28329 has 201 MA's), (92, 28431), (129, 28542), (157, 28650), (181, 28719), (194, 28761), (207, 28836), (227, 28902), (231, 28914), (237, 28941), (253, 29016), (264, 29055), (269, 29070), (282, 29151), (284, 29163), (285, 29166), (287, 29181), (291, 29199), (297, 29229), (299, 29235), (301, 29253), (303, 29262), (304, 29265), (311, 29322), (317, 29352), (324, 29391), (331, 29412), (349, 29514), (354, 29529),

Gene: Yuna_36 Start: 28128, Stop: 29333, Start Num: 46

Candidate Starts for Yuna_36:

(Start: 46 @28128 has 201 MA's), (92, 28230), (129, 28341), (181, 28518), (194, 28560), (227, 28698), (252, 28809), (269, 28866), (282, 28947), (284, 28959), (291, 28995), (293, 29001), (297, 29025), (301, 29049), (304, 29061), (311, 29118), (317, 29148), (324, 29187), (331, 29208), (333, 29223), (343, 29295), (351, 29319), (354, 29325),

Gene: Yunkel11_35 Start: 27644, Stop: 28852, Start Num: 46

Candidate Starts for Yunkel11_35:

(Start: 46 @27644 has 201 MA's), (92, 27746), (129, 27857), (181, 28034), (194, 28076), (207, 28151), (227, 28217), (231, 28229), (237, 28256), (253, 28331), (264, 28370), (268, 28382), (269, 28385), (282, 28466), (284, 28478), (285, 28481), (287, 28496), (291, 28514), (293, 28520), (297, 28544), (301, 28568), (303, 28577), (304, 28580), (311, 28637), (317, 28667), (324, 28706), (331, 28727), (349, 28829), (354, 28844),

Gene: Zabiza_35 Start: 28360, Stop: 29568, Start Num: 46

Candidate Starts for Zabiza_35:

(Start: 46 @28360 has 201 MA's), (92, 28462), (129, 28573), (181, 28750), (194, 28792), (207, 28867), (227, 28933), (231, 28945), (237, 28972), (253, 29047), (264, 29086), (269, 29101), (282, 29182), (284, 29194), (285, 29197), (287, 29212), (291, 29230), (293, 29236), (297, 29260), (299, 29266), (301, 29284), (303, 29293), (304, 29296), (311, 29353), (317, 29383), (318, 29386), (324, 29422), (331, 29443), (349, 29545), (354, 29560),

Gene: Zainub_46 Start: 31029, Stop: 32231, Start Num: 65

Candidate Starts for Zainub_46:

(Start: 65 @31029 has 96 MA's), (105, 31128), (111, 31149), (113, 31155), (139, 31239), (146, 31269), (150, 31290), (198, 31455), (253, 31689), (265, 31737), (276, 31791), (293, 31890), (302, 31941), (315, 32025), (317, 32040), (332, 32106), (333, 32115), (342, 32184), (348, 32202), (350, 32208),

Gene: ZamZam_45 Start: 31000, Stop: 32187, Start Num: 65

Candidate Starts for ZamZam_45:

(Start: 65 @31000 has 96 MA's), (105, 31096), (111, 31117), (113, 31123), (118, 31144), (146, 31237), (150, 31258), (181, 31360), (183, 31366), (198, 31414), (242, 31606), (252, 31645), (253, 31648), (261, 31678), (265, 31696), (276, 31750), (282, 31795), (293, 31849), (297, 31873), (298, 31876), (302, 31900), (333, 32074), (352, 32176),

Gene: Zavala_35 Start: 28335, Stop: 29543, Start Num: 46

Candidate Starts for Zavala_35:

(Start: 46 @28335 has 201 MA's), (92, 28437), (129, 28548), (181, 28725), (194, 28767), (207, 28842), (227, 28908), (231, 28920), (237, 28947), (253, 29022), (264, 29061), (269, 29076), (282, 29157), (284, 29169), (285, 29172), (287, 29187), (291, 29205), (297, 29235), (299, 29241), (301, 29259), (303, 29268), (304, 29271), (311, 29328), (317, 29358), (324, 29397), (331, 29418), (349, 29520), (354, 29535),

Gene: Zelink_160 Start: 87702, Stop: 88862, Start Num: 49

Candidate Starts for Zelink_160:

(Start: 49 @87702 has 39 MA's), (54, 87720), (73, 87744), (101, 87828), (114, 87858), (164, 87981), (174, 88017), (194, 88074), (195, 88077), (200, 88107), (203, 88125), (228, 88206), (246, 88284), (248, 88293), (249, 88299), (290, 88491), (296, 88527), (303, 88563), (310, 88620), (331, 88731), (339, 88803), (341, 88809), (351, 88839),

Gene: Zemlya_45 Start: 30098, Stop: 31288, Start Num: 65

Candidate Starts for Zemlya_45:

(Start: 65 @30098 has 96 MA's), (90, 30146), (111, 30212), (113, 30218), (146, 30332), (198, 30515), (218, 30605), (252, 30746), (253, 30749), (257, 30761), (265, 30797), (269, 30806), (271, 30830), (276, 30851), (293, 30950), (297, 30974), (298, 30977), (315, 31085), (333, 31175), (342, 31244),

Gene: Ziko_121 Start: 57472, Stop: 58563, Start Num: 84

Candidate Starts for Ziko_121:

(Start: 84 @57472 has 6 MA's), (91, 57493), (145, 57628), (154, 57664), (158, 57676), (169, 57709), (235, 57952), (257, 58051), (268, 58093), (284, 58189), (290, 58213), (291, 58219), (297, 58249), (300, 58261), (308, 58318), (318, 58375), (347, 58537),

Gene: ZoeJ_34 Start: 27607, Stop: 28791, Start Num: 46

Candidate Starts for ZoeJ_34:

(Start: 46 @27607 has 201 MA's), (63, 27640), (120, 27790), (129, 27820), (173, 27952), (194, 28018), (207, 28093), (216, 28123), (227, 28156), (235, 28183), (237, 28195), (253, 28270), (254, 28273), (291, 28453), (293, 28459), (297, 28483), (299, 28489), (300, 28495), (302, 28510), (303, 28516), (311, 28576), (317, 28606), (331, 28666), (349, 28768), (354, 28783), (356, 28786),

Gene: phiCAM_41 Start: 33092, Stop: 34042, Start Num: 146

Candidate Starts for phiCAM_41:

(Start: 65 @32855 has 96 MA's), (103, 32945), (111, 32972), (113, 32978), (138, 33059), (146, 33092), (150, 33113), (181, 33215), (183, 33221), (198, 33269), (202, 33299), (242, 33461), (252, 33500), (253, 33503), (261, 33533), (265, 33551), (276, 33605), (282, 33650), (293, 33704), (298, 33731),

(333, 33929), (352, 34031),

Gene: phiHau3_45 Start: 29681, Stop: 30874, Start Num: 65

Candidate Starts for phiHau3_45:

(Start: 65 @29681 has 96 MA's), (74, 29693), (113, 29807), (139, 29891), (146, 29921), (150, 29942),
(195, 30083), (261, 30362), (265, 30380), (276, 30434), (278, 30461), (282, 30479), (315, 30668),
(332, 30749), (342, 30827), (348, 30845), (350, 30851), (353, 30863),