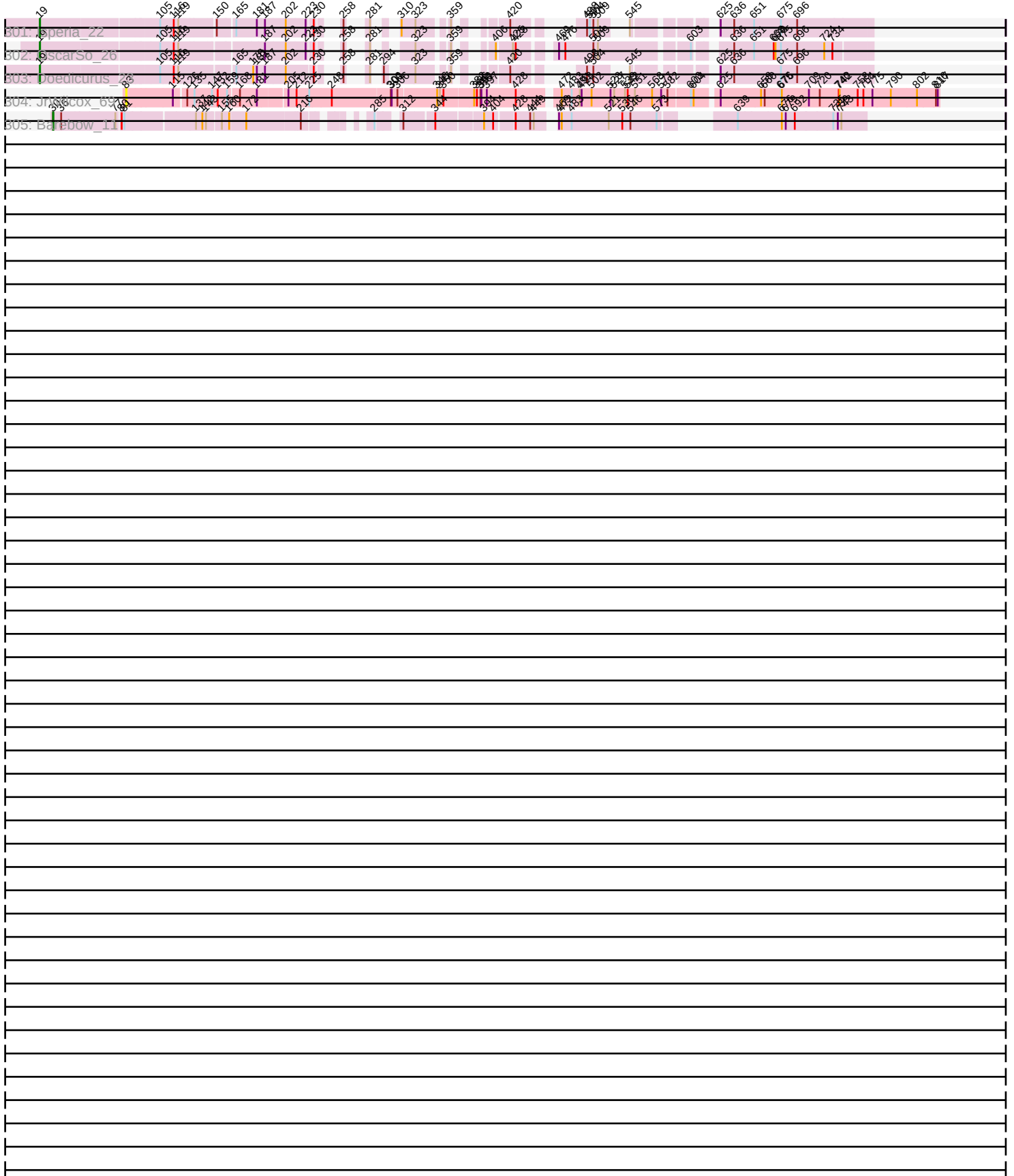


[illegible]

Pham 330303

	14	76	80	93	102	113	139	158	167	187	201	329	361	399	428	444	468	482	512	561	631	668	709	744	755	795	807	814	
r01:zaiCai_1	85	90	94	102	110	124	164	166	176	203																			
r02:blue2_rs1	85	90	94	102	110	124	164	166	176	203	241	279	308	361	399	411	444	468	482	512	561	631	668	709	744	755	795	807	814
r03:blue1_rs1	85	90	94	102	110	124	164	166	176	203																			
r04:MaGuCo	85	90	94	102	110	124	164	166	176	203																			
r05:WangYi_1	85	90	94	102	110	124	164	166	176	203																			
r06:emission_45	85	90	94	102	110	124	164	166	176	203																			
r07:emission_45	85	90	94	102	110	124	164	166	176	203																			
r08:WongYi_1	85	90	94	102	110	124	164	166	176	203																			
r09:WongYi_1	85	90	94	102	110	124	164	166	176	203																			
r10:WongYi_1	85	90	94	102	110	124	164	166	176	203																			
r11:WongYi_1	85	90	94	102	110	124	164	166	176	203	241	279	308	361	399	411	444	468	482	512	561	631	668	709	744	755	795	807	814
r12:WongYi_1	85	90	94	102	110	124	164	166	176	203																			
r13:WongYi_1	85	90	94	102	110	124	164	166	176	203																			
r14:WongYi_1	85	90	94	102	110	124	164	166	176	203																			
r15:WongYi_1	85	90	94	102	110	124	164	166	176	203																			
r16:WongYi_1	85	90	94	102	110	124	164	166	176	203																			
r17:WongYi_1	85	90	94	102	110	124	164	166	176	203																			
r18:WongYi_1	85	90	94	102	110	124	164	166	176	203																			
r19:WongYi_1	85	90	94	102	110	124	164	166	176	203																			
r20:WongYi_1	85	90	94	102	110	124	164	166	176	203																			
r21:WongYi_1	85	90	94	102	110	124	164	166	176	203																			
r22:WongYi_1	85	90	94	102	110	124	164	166	176	203																			
r23:WongYi_1	85	90	94	102	110	124	164	166	176	203																			
r24:WongYi_1	85	90	94	102	110	124	164	166	176	203																			
r25:WongYi_1	85	90	94	102	110	124	164	166	176	203																			
r26:WongYi_1	85	90	94	102	110	124	164	166	176	203																			
r27:WongYi_1	85	90	94	102	110	124	164	166	176	203																			
r28:WongYi_1	85	90	94	102	110	124	164	166	176	203																			
r29:WongYi_1	85	90	94	102	110	124	164	166	176	203																			
r30:WongYi_1	85	90	94	102	110	124	164	166	176	203																			
r31:WongYi_1	85	90	94	102	110	124	164	166	176	203																			
r32:WongYi_1	85	90	94	102	110	124	164	166	176	203																			
r33:WongYi_1	85	90	94	102	110	124	164	166	176	203																			
r34:WongYi_1	85	90	94	102	110	124	164	166	176	203																			
r35:WongYi_1	85	90	94	102	110	124	164	166	176	203																			
r36:WongYi_1	85	90	94	102	110	124	164	166	176	203																			
r37:WongYi_1	85	90	94	102	110	124	164	166	176	203																			
r38:WongYi_1	85	90	94	102	110	124	164	166	176	203																			
r39:WongYi_1	85	90	94	102	110	124	164	166	176	203																			
r40:WongYi_1	85	90	94	102	110	124	164	166	176	203																			
r41:WongYi_1	85	90	94	102	110	124	164	166	176	203																			
r42:WongYi_1	85	90	94	102	110	124	164	166	176	203																			
r43:WongYi_1	85	90	94	102	110	124	164	166	176	203																			
r44:WongYi_1	85	90	94	102	110	124	164	166	176	203																			
r45:WongYi_1	85	90	94	102	110	124	164	166	176	203																			
r46:WongYi_1	85	90	94	102	110	124	164	166	176	203																			
r47:WongYi_1	85	90	94	102	110	124	164	166	176	203																			
r48:WongYi_1	85	90	94	102	110	124	164	166	176	203																			
r49:WongYi_1	85	90	94	102	110	124	164	166	176	203																			
r50:WongYi_1	85	90	94	102	110	124	164	166	176	203																			

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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 330303 Report

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

Pham number 330303 has 621 members, 47 are drafts.

Phages represented in each track:

- Track 1 : Lasagna_14, CristinaYang_14, Bodacious_14, Nancia_14
- Track 2 : Wawa_18
- Track 3 : Cholula_18, Potatoes_18, Immaculata_18
- Track 4 : Bennie_14, HeadNerd_14, Huckleberry_14, Moki_14
- Track 5 : Fluke_18, Glenn_18, TattModd_18, Savage2526_18
- Track 6 : Carpal_18, Dino_18, Kalizoi_18, Zorro_18
- Track 7 : Herb_14, Temper16_14, Daiboju_14, Maria1952_14, Sergei_14, KingBob_14
- Track 8 : OurGirlNessie_14
- Track 9 : PitaDog_14
- Track 10 : Lucy_14
- Track 11 : Christian_14
- Track 12 : Korra_19
- Track 13 : ChewChew_14
- Track 14 : DreamTeam_14, Gisselle_14
- Track 15 : WonderBoy_14
- Track 16 : Kittykat_14
- Track 17 : Makoto_14
- Track 18 : EstebanJulior_14, MamaPearl_14
- Track 19 : OMalley_14, Aledel_14, Chridison_14, Eunoia_14, Riovina_14
- Track 20 : Oxynfrius_18, Albanese_18
- Track 21 : Urla_14
- Track 22 : Vallejo_18, RAP15_18, Jumboset_18, MeganNoll_18
- Track 23 : Nubia_18
- Track 24 : RcigaStruga_18, Huntingdon_18
- Track 25 : Pumancara_14
- Track 26 : Vulture_14, HunterDalle_14
- Track 27 : CallieOMalley_18
- Track 28 : Graynor_18
- Track 29 : Preamble_14
- Track 30 : Supakev_14
- Track 31 : Lakshmi_18
- Track 32 : BrotherBLo_18
- Track 33 : AustinPowers_14
- Track 34 : Wayne_18, PartyCup_18
- Track 35 : GreenHearts_18
- Track 36 : DrRobert_14

- Track 37 : Joann_18
- Track 38 : Rozby_18
- Track 39 : MrBoss_18
- Track 40 : MrGloopy_18
- Track 41 : Riverdale_18
- Track 42 : Suppi_18, Canowicakte_18
- Track 43 : BigMack_14
- Track 44 : Scuttle_18
- Track 45 : LilStuart_14, Lennox_14
- Track 46 : Greenhouse_18
- Track 47 : Litotes_18
- Track 48 : AppleCider_18
- Track 49 : PinkFriday_14
- Track 50 : Pterodactyl_14
- Track 51 : Misaeng_18
- Track 52 : Beethoven_18
- Track 53 : Wheelbite_63
- Track 54 : LiSara_64
- Track 55 : Waltz_64
- Track 56 : Edmundo_67
- Track 57 : Laroye_67
- Track 58 : Salgado_67
- Track 59 : Atraxa_12, Sputnik_12
- Track 60 : Adaia_12
- Track 61 : Mookitty_12
- Track 62 : Michkear_19
- Track 63 : ThursdayNight_15
- Track 64 : Flutur_16
- Track 65 : Subaru_16, Elezi_16
- Track 66 : TforTroy_16
- Track 67 : Pixelle_16
- Track 68 : YesChef_16, Powerpuff_16, AGrandiflora_16
- Track 69 : Jstan_16, London_16, Niobe_16, Skelbel_16, Asa16_16
- Track 70 : Tian_16, Amyev_16
- Track 71 : Adumb2043_16, Turab_16, AEgle_16
- Track 72 : Tbone_16, Mudpuppy_16, Warda_16
- Track 73 : Yang_16
- Track 74 : Schaffner_16
- Track 75 : Joemato_16, Simpson_18, Kaylissa_16
- Track 76 : Crewmate_17, ObiToo_16
- Track 77 : MissSwiss_16, PandaPo_16
- Track 78 : Phives_17
- Track 79 : Reedo_16
- Track 80 : Cyan_16, JohnDoe_16
- Track 81 : Iter_16, Ascela_16
- Track 82 : IttyBittyPiggy_16
- Track 83 : Adolin_16
- Track 84 : VResidence_16
- Track 85 : DrManhattan_16
- Track 86 : Berrie_16
- Track 87 : Nitro_16
- Track 88 : JuneStar_16
- Track 89 : Tallboi_16

- Track 90 : Tuck_17, Community_16
- Track 91 : Tutumahutu_16
- Track 92 : Amploria_16
- Track 93 : DrSierra_16
- Track 94 : Cassia_16
- Track 95 : Pumpkins_16
- Track 96 : KeAlii_16
- Track 97 : Janeemi_17
- Track 98 : Eraser_16
- Track 99 : Lego_16
- Track 100 : Wildwest_17
- Track 101 : Lizalica_16
- Track 102 : Sue2_16
- Track 103 : Liebe_15, IUFootball_15, Maureen_15
- Track 104 : MaGuCo_15
- Track 105 : Tweety19_16, Snek_16
- Track 106 : Emotion_15
- Track 107 : MiniMommy_15
- Track 108 : JohnThicc_15, FiveHead_15, Origami_15, LadyAstra_15
- Track 109 : VroomVroom_15, AceofSpades_15
- Track 110 : JasmineDragon_15, ShakeltOph_15
- Track 111 : Ashes_16, SpecialK_16, Halsey_16, RockScotty_16, Moss_16
- Track 112 : Gumpizza_16, Stuu_16
- Track 113 : Beaupre_16, Mysteryum_16, Giorgio_16
- Track 114 : Gambol_16, Donkey_16
- Track 115 : Cappuccino_16, Kalimba_16, Sooty_16
- Track 116 : Sabourin_16
- Track 117 : AinMach_15
- Track 118 : Mercedes_17
- Track 119 : Rapheph_17, Pherferi_17, Delphidian_17, Inventa_17, Stanktossa_17, Merida02_17, Byron23_17, NickSell_17, Martin_18, Kurt1_17, Dothraki_17, MillyPhilly_17, Phireproof_17, Shee_17, PhredFlintston_17, SolidSnake_17, TatarkaPM_17, TinSulphur_17, ParleG_17
- Track 120 : Jenos_19
- Track 121 : Agente005_18, Aleyra_18
- Track 122 : GardenB_17, GoneGirl_18
- Track 123 : Phriends_17, OldNelly_17, KannH_17, Jerbirus_17, Winzigespinne_17, AranulaLuti_17, MaeLinda_17, Exploradora_17, Riyhil_17, Kouch_17, SoilGremlin_17, Rog141_17, Gubbabump_17, CoraRita_17, HankSprout_18
- Track 124 : Antoinette_17, Superfresh_17, Robinson_17, Renzie_17, Dave_17, Peep_17
- Track 125 : Teagan_17, Ludgate_17, Bandik_17, SJay_17, StingRay_17, Nagem_17
- Track 126 : Zada_17, JeriBeth_17, Gershwin_17, Aubergine_17, Espinosa_17, Ilzat_17, JasperRussell_17, Janus167_17, Sedgewig_17, Christoph_17, KellyGreen_17, TeddyBear_17, RosieMae_17, Oats_17, Tenda_17, Chako_17, Asta_17, StirfryIV_17, Clancy_17, HanSolo_17, Benjalauren_17, Bonino_17, ManRay_17, Duocatuli_17, HungryHenry_17
- Track 127 : Gargoyle_17
- Track 128 : Figueroism_17
- Track 129 : ShaiHulud_17, BonesMcCoy_17, Velene_17, Knox_17, Vispistious_17, Lovelyunicorn_17, Oxtober96_17, PuppyEggo_17, Strathdee_17, WildNOut_17, Convict_17, Ioannes_17, Den3_17, AxiPup_17, Greys_17, Raptor_17

- Track 130 : Balsa_17
- Track 131 : Erla_17, Calix_17, SonOfLevi_17, Gelo_17, Chamuel_17, Klimt_17
- Track 132 : Leafus_17, BeeBee8_18, Hamlet_17, PhillyPhantom_17
- Track 133 : JasonD_19
- Track 134 : McGalleon_18
- Track 135 : Blage_17, BigRedClifford_17
- Track 136 : Thorongil_17
- Track 137 : Papafritta_17
- Track 138 : Anilorac_17
- Track 139 : GoingMerry_17, Alyxandracam_17
- Track 140 : MrWorldwide_17
- Track 141 : Peppino_17, Schnapsidee_17
- Track 142 : Soror1_17, Etna_17
- Track 143 : MonChoix_16
- Track 144 : Acosta_18
- Track 145 : AlexAdler_17
- Track 146 : BeautPeep30_17
- Track 147 : Symere_17
- Track 148 : Stormbreaker8_17
- Track 149 : Endor_18
- Track 150 : Phiderman_17
- Track 151 : Etta_17
- Track 152 : Raccoon_17
- Track 153 : Nattles_17, Baines_17
- Track 154 : CarisSwetlik_19
- Track 155 : Thompsone_17
- Track 156 : FarmerDoug_17
- Track 157 : Kale_17, Pocket_17
- Track 158 : HavenFinLeoSun_18
- Track 159 : KingJulien_17
- Track 160 : Garey24_17
- Track 161 : Redfield_17
- Track 162 : MiniVolent_16
- Track 163 : Fabyndrax_16, Cidela_16
- Track 164 : Juanyo_16
- Track 165 : Nucci_16
- Track 166 : HairyMan_15
- Track 167 : Mandalorian_16
- Track 168 : Carostasia_16
- Track 169 : YuuY_16
- Track 170 : Quartz_16
- Track 171 : WestPM_17
- Track 172 : HerculesXL_18
- Track 173 : Tinyman4_18
- Track 174 : Schimmels22_18
- Track 175 : Ixel_17
- Track 176 : Penta_17
- Track 177 : Kavo_17
- Track 178 : Scissor2024_18
- Track 179 : MCubed_16, Zenitsu_16
- Track 180 : Eleri_16, PSirce_16, Orpington_17, Andromedas_16, Shamu_16, ColaCorta_16, Saratos_16, Glamour_15
- Track 181 : Xebius_16

- Track 182 : Finny_16
- Track 183 : ChikPic_16
- Track 184 : Phanita_16
- Track 185 : Sansa_15
- Track 186 : Pikmin_16, Casey_16
- Track 187 : Pajaza_16
- Track 188 : Pherbot_17, Bustleton_17
- Track 189 : Kauala_17
- Track 190 : Sinatra_17
- Track 191 : Koji_17, RenegadeRaider_18
- Track 192 : Golden_17, Lucky3_17
- Track 193 : Guetzie_17, SirVictor_17
- Track 194 : BouleyBill_17
- Track 195 : PrincePhergus_17
- Track 196 : Jingles_17
- Track 197 : Wardwill_20
- Track 198 : Nebulous_18
- Track 199 : Neferthena_18
- Track 200 : Librie_18, Fulton_18, CaptainRex_18
- Track 201 : Vafari_19, GreenIvy_18, BaronJohn_18, LilTerminator_18
- Track 202 : Alakazam_19
- Track 203 : Hasitha_18
- Track 204 : Clock_18
- Track 205 : TwoBits_18
- Track 206 : QuadZero_18
- Track 207 : Zayuliv_18
- Track 208 : Zepp_19
- Track 209 : Jemerald_18, Juicer_18
- Track 210 : Chepli_18
- Track 211 : WilliamStrong_16
- Track 212 : KatChan_18, Luna18_18
- Track 213 : Morrigan_18
- Track 214 : Theresita_17
- Track 215 : Schubert_17
- Track 216 : Cheeto1_18
- Track 217 : GaeCeo_18
- Track 218 : ChickenKing_17
- Track 219 : Megan_30
- Track 220 : Baine_12, Lola20_12, Cayde6_12
- Track 221 : McShie_12, BrokMonster_12
- Track 222 : Burgy_12, Otwor_12, Grayscar_12, Ciel_12, Godfather_12, Scamander_12, Majesty_12, BarBear_12, Kojax4_12, Scrunchy_12, BurtonThePup_12, Avvas_12, Slentz_12, HeadMave_12, BinkBonk_12, SantasSleigh_12, Danno_12, Eightball_12, Maneater_12, Picconator_12, Astro16_12, Yasuo_12, TimoTea_12, JaimeB_12, LionelHutz_12, Rhogar_12, Owens_12, Tyrellus_12, NeumannU_12, Josuke_12, Goobery_12, Jella_12, Cheesecake_12, Aries55_12, Sage7_12, Rhysand_12, Vanisius_12, Luxx_12, Charbie_12, TeddyBoy_12, LaviMo_12
- Track 223 : Leafy_12, Abelaine_13
- Track 224 : Quaker_12, Livingwater_12
- Track 225 : BonaeVitae_12
- Track 226 : YertPhresh_12, Danimal_12, Picnic_12, LemonPepper_12, KyriosFaba_12, Alucard_12, EdElric_12, Puddles3_12, Duggle_12, Sachet_12,

Gardevoir_12, JoBros_12, Sara_12, Yubaba_12, Octopus_12, Horacetta_12, PaoPu_12, Aztec_12, Chatham_12, Minima_12, Pondwater_12, Dongwon_12, SeaWolves_12, Erin_12, Dooby_12, GoldenBlanche_12, ManAs_12, Myram_12, Witch_12

- Track 227 : MasterPitts_12, DaftyDuck_12
- Track 228 : Oaklynn_12
- Track 229 : TomBrady12_12, Rira_12, Slizam_12, Publix_12, Snuffles_13, Namsahir_12, IzzyPants24_11, Bullzi2019_12
- Track 230 : Jahseh_12
- Track 231 : Hulk_12
- Track 232 : Yami_12, Cazares_12
- Track 233 : Wolfpack_12, MelBee03_12, Kevanna_12, Bodhi17_12, KayPaulus_12, Duggie_12, Sippinontea_12
- Track 234 : Niffler_12, PuffyCat_12, Clownery_12, Nobel_12, Lunatic_12, TinyTruffula_12
- Track 235 : Azizam_12, JRok_12
- Track 236 : VitulaEligans_12, Madebyisha_12, Jerky_12, OdetoJoy_12
- Track 237 : Efeko_13
- Track 238 : Marichuy_12, DirtPie_12, Zahlia_12
- Track 239 : Biscayne_12
- Track 240 : Hernandez44_12, Gabbspett_12
- Track 241 : Bradley2_12, Gillker_12
- Track 242 : Bri160_12, KillerTomato_12
- Track 243 : Mauilvory_11, Elspeth_12, Ekko14_12, HarperAnne_12
- Track 244 : Bintii_12
- Track 245 : Kaijohn_12
- Track 246 : Toxicola_13
- Track 247 : Noelani_12
- Track 248 : BoomRoasted_12, Concrete_12, Belthelas_12
- Track 249 : Trireme_12
- Track 250 : RoscoWindex_12
- Track 251 : Miaurora_12, Stem_12
- Track 252 : MirimarMandM_12, Upsilon_12, PoRanda_12
- Track 253 : Anseraureola_12
- Track 254 : Goulash_12
- Track 255 : MrGreen_12
- Track 256 : Loca_12
- Track 257 : Naby_12
- Track 258 : Jannah_12
- Track 259 : Trackstar_12
- Track 260 : TlaliMex_12
- Track 261 : ELee24_12
- Track 262 : JooneeDee_12
- Track 263 : Zeta1847_14
- Track 264 : Honk_14
- Track 265 : Barnstormer_14, UtzChips_14
- Track 266 : SuMoo_14
- Track 267 : GardenState_15
- Track 268 : Gretchen_15, SuperHands_15, Forester_15, Percival_15
- Track 269 : Floof_15
- Track 270 : IAmGroot_15
- Track 271 : Caron_14
- Track 272 : Mabodamaca_15

- Track 273 : Cen1621_14
- Track 274 : Sucha_16
- Track 275 : Johann_20, Goodman_20
- Track 276 : Htur_19, Rasovi_19, Linayshia_19
- Track 277 : Benry_19
- Track 278 : Rootkit7_19, SBlackberry_19, Alove_19
- Track 279 : Cicada_21
- Track 280 : IndiRoo_19
- Track 281 : AyoTeo_21, Labella_21, Typher_21
- Track 282 : TurboVicky_19
- Track 283 : FireCastle_19
- Track 284 : PermaG_20
- Track 285 : Jera_20
- Track 286 : Olympi_21
- Track 287 : Zanella_19
- Track 288 : Milani_20
- Track 289 : AnnabelLee_17
- Track 290 : Makima_18
- Track 291 : Neuville_17, Roberts_17, Gerri43_17, ChipsNGuac_17
- Track 292 : CardboardBox_18, ChamoyPickle_18
- Track 293 : Agamoto_19
- Track 294 : Studio_18
- Track 295 : LastNadiia_20, Audell_20
- Track 296 : Ezurina_16
- Track 297 : TMaxx_17
- Track 298 : Mireles_17
- Track 299 : TripleC_20
- Track 300 : Wyvern_24
- Track 301 : Isperia_22
- Track 302 : OscarSo_26
- Track 303 : Doedicurus_23
- Track 304 : JrWilcox_69
- Track 305 : Barebow_11

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

The start number called the most often in the published annotations is 32, it was called in 142 of the 574 non-draft genes in the pham.

Genes that call this "Most Annotated" start:

• Abelaïne_13, Alucard_12, Anseraureola_12, Aries55_12, Astro16_12, Avvas_12, Azizam_12, Aztec_12, Baine_12, BarBear_12, Belthelas_12, BinkBonk_12, Bintii_12, Biscayne_12, Bodhi17_12, BonaeVitae_12, BoomRoasted_12, Bradley2_12, Bri160_12, BrokMonster_12, Bullzi2019_12, Burgy_12, BurtonThePup_12, Cayde6_12, Charbie_12, Chatham_12, Cheesecake_12, Ciel_12, Clownery_12, Concrete_12, DaftyDuck_12, Danimal_12, Danno_12, DirtPie_12, Dongwon_12, Dooby_12, Duggie_12, Duggle_12, ELee24_12, EdElric_12, Efeko_13, Eightball_12, Ekko14_12, Elspeth_12, Erin_12, Gabbspett_12, Gardevoir_12, Gillker_12, Godfather_12, GoldenBlanche_12, Goobery_12, Goulash_12, Grayscar_12, HarperAnne_12, HeadMave_12, Hernandez44_12, Horacetta_12,

Hulk_12, IzzyPants24_11, JRok_12, Jahseh_12, JaimeB_12, Jannah_12, Jella_12, Jerky_12, JoBros_12, JooneeDee_12, Josuke_12, KaiJohn_12, KayPaulus_12, Kevanna_12, KillerTomato_12, Kojax4_12, KyriosFaba_12, LaviMo_12, Leafy_12, LemonPepper_12, LionelHutz_12, Livingwater_12, Loca_12, Lola20_12, Lunatic_12, Luxx_12, Madebyisha_12, Majesty_12, ManAs_12, Maneater_12, Marichuy_12, MasterPitts_12, Mauilvory_11, McShie_12, MelBee03_12, Miaurora_12, Minima_12, MirimarMandM_12, MrGreen_12, Myram_12, Naby_12, Namsahir_12, NeumannU_12, Niffler_12, Nobel_12, Noelani_12, Octopus_12, OdetoJoy_12, Otwor_12, Owens_12, PaoPu_12, Picconator_12, Picnic_12, PoRanda_12, Pondwater_12, Publix_12, Puddles3_12, PuffyCat_12, Quaker_12, Rhogar_12, Rhysand_12, Rira_12, RoscoWindex_12, Sachet_12, Sage7_12, SantasSleigh_12, Sara_12, Scamander_12, Scrunchy_12, SeaWolves_12, Sippinontea_12, Slentz_12, Slizam_12, Snuffles_13, Stem_12, TeddyBoy_12, TimoTea_12, TinyTruffula_12, TlaliMex_12, TomBrady12_12, Toxicola_13, Trackstar_12, Trireme_12, Tyrellus_12, Upsilon_12, Vanisius_12, VitulaEligans_12, Witch_12, Wolfpack_12, Yasuo_12, YertPhresh_12, Yubaba_12, Zahlia_12,

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

- Adolin_16, Cazares_12, DrManhattan_16, Oaklynn_12, Yami_12,

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

- AEgle_16, AGrandiflora_16, AceofSpades_15, Acosta_18, Adaia_12, Adumb2043_16, Agamotto_19, Agente005_18, AinMach_15, Alakazam_19, Albanese_18, Aledel_14, AlexAdler_17, Aleyra_18, Alove_19, Alyxandracam_17, Amploria_16, Amyev_16, Andromedas_16, Anilorac_17, AnnabelleLee_17, Antoinette_17, AppleCider_18, AranulaLuti_17, Asa16_16, Ascela_16, Ashes_16, Asta_17, Atraxa_12, Aubergine_17, Audell_20, AustinPowers_14, AxiPup_17, AyoTeo_21, Baines_17, Balsa_17, Bandik_17, Barebow_11, Barnstormer_14, BaronJohn_18, Beaupre_16, BeautPeep30_17, BeeBee8_18, Beethoven_18, Benjalauren_17, Bennie_14, Benry_19, Berrie_16, BigMack_14, BigRedClifford_17, Blage_17, Bodacious_14, BonesMcCoy_17, Bonino_17, BouleyBill_17, BrotherBLo_18, Bustleton_17, Byron23_17, Calix_17, CallieOMalley_18, Canowicakte_18, Cappuccino_16, CaptainRex_18, CardboardBox_18, CarisSwetlik_19, Caron_14, Carostasia_16, Carpal_18, Casey_16, Cassia_16, Cen1621_14, Chako_17, ChamoyPickle_18, Chamuel_17, Cheeto1_18, Chepli_18, ChewChew_14, ChickenKing_17, ChikPic_16, ChipsNGuac_17, Cholula_18, Chridison_14, Christian_14, Christoph_17, Cicada_21, Cidela_16, Clancy_17, Clock_18, ColaCorta_16, Community_16, Convict_17, CoraRita_17, Crewmate_17, CristinaYang_14, Cyan_16, Daiboju_14, Dave_17, Delphidian_17, Den3_17, Dino_18, Doedicurus_23, Donkey_16, Dothraki_17, DrRobert_14, DrSierra_16, DreamTeam_14, Duocatuli_17, Edmundo_67, Eleri_16, Elezi_16, Emotion_15, Endor_18, Eraser_16, Erla_17, Espinosa_17, EstebanJulior_14, Etna_17, Etta_17, Eunoia_14, Exploradora_17, Ezurina_16, Fabyndrax_16, FarmerDoug_17, Figueroism_17, Finny_16, FireCastle_19, FiveHead_15, Floof_15, Fluke_18, Flutur_16, Forester_15, Fulton_18, GaeCeo_18, Gambol_16, GardenB_17, GardenState_15, Garey24_17, Gargoyles_17, Gelo_17, Gerri43_17, Gershwin_17, Giorgio_16, Gisselle_14, Glamour_15, Glenn_18, GoingMerry_17, Golden_17, GoneGirl_18, Goodman_20, Graynor_18, GreenHearts_18, Greenlvy_18, Greenhouse_18, Gretchen_15, Greys_17, Gubbabump_17, Guetzie_17, Gumpizza_16, HairyMan_15, Halsey_16, Hamlet_17, HanSolo_17, HankSprout_18, Hasitha_18, HavenFinLeoSun_18, HeadNerd_14, Herb_14, HerculesXL_18, Honk_14, Htur_19, Huckleberry_14, HungryHenry_17, HunterDalle_14, Huntingdon_18, IAmGroot_15, IUFootball_15, Ilzat_17, Immaculata_18, IndiRoo_19,

Inventa_17, Ioannes_17, Isperia_22, Iter_16, IttyBittyPiggy_16, Ixel_17, Janeemi_17, Janus167_17, JasmineDragon_15, JasonD_19, JasperRussell_17, Jemerald_18, Jenos_19, Jera_20, Jerbirus_17, JeriBeth_17, Jingles_17, Joann_18, Joemato_16, Johann_20, JohnDoe_16, JohnThicc_15, JrWilcox_69, Jstan_16, Juanyo_16, Juicer_18, Jumboset_18, JuneStar_16, Kale_17, Kalimba_16, Kalizoi_18, KannH_17, KatChan_18, Kauala_17, Kavo_17, Kaylissa_16, KeAlii_16, KellyGreen_17, KingBob_14, KingJulien_17, Kittykat_14, Klimt_17, Knox_17, Koji_17, Korra_19, Kouch_17, Kurt1_17, Labella_21, LadyAstra_15, Lakshmi_18, Laroye_67, Lasagna_14, LastNadiia_20, Leafus_17, Lego_16, Lennox_14, LiSara_64, Librie_18, Liebe_15, LilStuart_14, LilTerminator_18, Linayshia_19, Litotes_18, Lizalica_16, London_16, Lovelyunicorn_17, Lucky3_17, Lucy_14, Ludgate_17, Luna18_18, MCubed_16, MaGuCo_15, Mabodamaca_15, MaeLinda_17, Makima_18, Makoto_14, MamaPearl_14, ManRay_17, Mandalorian_16, Maria1952_14, Martin_18, Maureen_15, McGalleon_18, MeganNoll_18, Megan_30, Mercedes_17, Merida02_17, Michkear_19, Milani_20, MillyPhilly_17, MiniMommy_15, MiniVolent_16, Mireles_17, Misaeng_18, MissSwiss_16, Moki_14, MonChoix_16, MooKitty_12, Morrigan_18, Moss_16, MrBoss_18, MrGloopy_18, MrWorldwide_17, Mudpuppy_16, Mystorium_16, Nagem_17, Nancia_14, Nattles_17, Nebulous_18, Neferthema_18, Neuville_17, NickSell_17, Niobe_16, Nitro_16, Nubia_18, Nucci_16, OMalley_14, Oats_17, ObiToo_16, OldNelly_17, Olympi_21, Origami_15, Orpington_17, OscarSo_26, OurGirlNessie_14, Oxtober96_17, Oxynfries_18, PSirce_16, Pajaza_16, PandaPo_16, PapaFritta_17, ParleG_17, PartyCup_18, Peep_17, Penta_17, Peppino_17, Percival_15, PermaG_20, Phanita_16, Pherbot_17, Pherferi_17, Phiderman_17, PhillyPhantom_17, Phireproof_17, Phives_17, PhredFlintston_17, Phriends_17, Pikmin_16, PinkFriday_14, PitaDog_14, Pixelle_16, Pocket_17, Potatoes_18, Powerpuff_16, Preamble_14, PrincePhergus_17, Pterodactyl_14, Pumancara_14, Pumpkins_16, PuppyEggo_17, QuadZero_18, Quartz_16, RAP15_18, Raccoon_17, Rapheph_17, Raptor_17, Rasovi_19, RcigaStruga_18, Redfield_17, Reedo_16, RenegadeRaider_18, Renzie_17, Riovina_14, Riverdale_18, Rihhil_17, Roberts_17, Robinson_17, RockScotty_16, Rog141_17, Rootkit7_19, RosieMae_17, Rozby_18, SBBlackberry_19, SJay_17, Sabourin_16, Salgado_67, Sansa_15, Saratos_16, Savage2526_18, Schaffner_16, Schimmels22_18, Schnapsidee_17, Schubert_17, Scissor2024_18, Scuttle_18, Sedgewig_17, Sergei_14, ShaiHulud_17, ShakeItOph_15, Shamu_16, Shee_17, Simpson_18, Sinatra_17, SirVictor_17, Skelbel_16, Snek_16, SoilGremlin_17, SolidSnake_17, SonOfLevi_17, Sooty_16, Soror1_17, SpecialK_16, Sputnik_12, Stanktossa_17, StingRay_17, StirfryIV_17, Stormbreaker8_17, Strathdee_17, Studio_18, Stuu_16, SuMoo_14, Subaru_16, Sucha_16, Sue2_16, Supakev_14, SuperHands_15, Superfresh_17, Suppi_18, Symere_17, TMaxx_17, Tallboi_16, TatarkaPM_17, TattModd_18, Tbone_16, Teagan_17, TeddyBear_17, Temper16_14, Tenda_17, TforTroy_16, Theresita_17, Thompsons_17, Thorongil_17, ThursdayNight_15, Tian_16, TinSulphur_17, Tinyman4_18, TripleC_20, Tuck_17, Turab_16, TurboVicky_19, Tutumahutu_16, Tweety19_16, TwoBits_18, Typher_21, Urla_14, UtzChips_14, VResidence_16, Vafari_19, Vallejo_18, Velene_17, Vispistious_17, VroomVroom_15, Vulture_14, Waltz_64, Warda_16, Wardwill_20, Wawa_18, Wayne_18, WestPM_17, Wheelbite_63, WildNOut_17, Wildwest_17, WilliamStrong_16, Winzigespinne_17, WonderBoy_14, Wyvern_24, Xebius_16, Yang_16, YesChef_16, YuuY_16, Zada_17, Zanella_19, Zayuliv_18, Zenitsu_16, Zepp_19, Zeta1847_14, Zorro_18,

Summary by start number:

Start 4:

- Found in 6 of 621 (1.0%) of genes in pham
- Manual Annotations of this start: 6 of 574
- Called 100.0% of time when present
- Phage (with cluster) where this start called: Edmundo_67 (AL), Laroye_67 (AL), LiSara_64 (AL), Salgado_67 (AL), Waltz_64 (AL), Wheelbite_63 (AL),

Start 9:

- Found in 8 of 621 (1.3%) of genes in pham
- Manual Annotations of this start: 3 of 574
- Called 62.5% of time when present
- Phage (with cluster) where this start called: ChipsNGuac_17 (FR), Gerri43_17 (FR), Neuville_17 (FR), Roberts_17 (FR), Studio_18 (FR),

Start 11:

- Found in 16 of 621 (2.6%) of genes in pham
- Manual Annotations of this start: 8 of 574
- Called 68.8% of time when present
- Phage (with cluster) where this start called: Agamoto_19 (FR), Annabelle_17 (FR), Audell_20 (FR), CardboardBox_18 (FR), ChamoyPickle_18 (FR), Ezurina_16 (FR), LastNadia_20 (FR), Makima_18 (FR), Mireles_17 (FR), TMaxx_17 (FR), TripleC_20 (FR),

Start 12:

- Found in 86 of 621 (13.8%) of genes in pham
- Manual Annotations of this start: 84 of 574
- Called 100.0% of time when present
- Phage (with cluster) where this start called: Albanese_18 (AK), Aledel_14 (AK), AppleCider_18 (AK), AustinPowers_14 (AK), Beethoven_18 (AK), Bennie_14 (AK), BigMack_14 (AK), Bodacious_14 (AK), BrotherBLo_18 (AK), CallieOMalley_18 (AK), Canowick_18 (AK), Carpal_18 (AK), ChewChew_14 (AK), Cholula_18 (AK), Chridison_14 (AK), Christian_14 (AK), CristinaYang_14 (AK), Daiboku_14 (AK), Dino_18 (AK), DrRobert_14 (AK), DreamTeam_14 (AK), EstebanJulior_14 (AK), Eunoia_14 (AK), Fluke_18 (AK), Gisselle_14 (AK), Glenn_18 (AK), Graynor_18 (AK), GreenHearts_18 (AK), Greenhouse_18 (AK), HeadNerd_14 (AK), Herb_14 (AK), Huckleberry_14 (AK), HunterDalle_14 (AK), Huntingdon_18 (AK), Immaculata_18 (AK), Joann_18 (AK), Jumboset_18 (AK), Kalizoi_18 (AK), KingBob_14 (AK), Kittykat_14 (AK), Korra_19 (AK), Lakshmi_18 (AK), Lasagna_14 (AK), Lennox_14 (AK), LilStuart_14 (AK), Litotes_18 (AK), Lucy_14 (AK), Makoto_14 (AK), MamaPearl_14 (AK), Maria1952_14 (AK), MeganNoll_18 (AK), Misaeng_18 (AK), Moki_14 (AK), MrBoss_18 (AK), MrGloopy_18 (AK), Nancia_14 (AK), Nubia_18 (AK), OMalley_14 (AK), OurGirlNessie_14 (AK), Oxynfrius_18 (AK), PartyCup_18 (AK), PinkFriday_14 (AK), PitaDog_14 (AK), Potatoes_18 (AK), Preamble_14 (AK), Pterodactyl_14 (AK), Pumancara_14 (AK), RAP15_18 (AK), RcigaStruga_18 (AK), Rivovina_14 (AK), Riverdale_18 (AK), Rozby_18 (AK), Savage2526_18 (AK), Scuttle_18 (AK), Sergei_14 (AK), Supakev_14 (AK), Suppi_18 (AK), TattModd_18 (AK), Temper16_14 (AK), Urla_14 (AK), Vallejo_18 (AK), Vulture_14 (AK), Wawa_18 (AK), Wayne_18 (AK), WonderBoy_14 (AK), Zorro_18 (AK),

Start 13:

- Found in 7 of 621 (1.1%) of genes in pham
- Manual Annotations of this start: 7 of 574
- Called 100.0% of time when present

- Phage (with cluster) where this start called: Floof_15 (EH), Forester_15 (EH), Gretchen_15 (EH), Mabodamaca_15 (EH), Percival_15 (EH), SuMoo_14 (EH), SuperHands_15 (EH),

Start 14:

- Found in 76 of 621 (12.2%) of genes in pham
- Manual Annotations of this start: 63 of 574
- Called 100.0% of time when present
- Phage (with cluster) where this start called: AEgle_16 (AZ1), AGrandiflora_16 (AZ1), AceofSpades_15 (AZ4), Adolin_16 (AZ1), Adumb2043_16 (AZ1), AinMach_15 (AZ7), Amploria_16 (AZ1), Amyev_16 (AZ1), Asa16_16 (AZ1), Ascela_16 (AZ1), Berrie_16 (AZ1), Cassia_16 (AZ1), Community_16 (AZ1), Crewmate_17 (AZ1), Cyan_16 (AZ1), DrManhattan_16 (AZ1), DrSierra_16 (AZ1), Elezi_16 (AZ1), Emotion_15 (AZ4), Eraser_16 (AZ1), FiveHead_15 (AZ4), Flutur_16 (AZ), IUFootball_15 (AZ2), Iter_16 (AZ1), IttyBittyPiggy_16 (AZ1), Janeemi_17 (AZ1), JasmineDragon_15 (AZ4), Joemato_16 (AZ1), JohnDoe_16 (AZ1), JohnThicc_15 (AZ4), Jstan_16 (AZ1), JuneStar_16 (AZ1), Kaylissa_16 (AZ1), KeAlii_16 (AZ1), LadyAstra_15 (AZ4), Lego_16 (AZ1), Liebe_15 (AZ2), Lizalica_16 (AZ1), London_16 (AZ1), MaGuCo_15 (AZ2), Maureen_15 (AZ2), Michkear_19 (AZ), MiniMommy_15 (AZ4), MissSwiss_16 (AZ1), Mudpuppy_16 (AZ1), Niobe_16 (AZ1), Nitro_16 (AZ1), ObiToo_16 (AZ1), Origami_15 (AZ4), PandaPo_16 (AZ1), Phives_17 (AZ1), Pixelle_16 (AZ1), Powerpuff_16 (AZ1), Pumpkins_16 (AZ1), Reedo_16 (AZ1), Schaffner_16 (AZ1), ShakeltOph_15 (AZ4), Simpson_18 (AZ1), Skelbel_16 (AZ1), Snek_16 (AZ3), Subaru_16 (AZ1), Sue2_16 (AZ1), Tallboi_16 (AZ1), Tbone_16 (AZ1), TforTroy_16 (AZ1), ThursdayNight_15 (AZ), Tian_16 (AZ1), Tuck_17 (AZ1), Turab_16 (AZ1), Tutumahutu_16 (AZ1), Tweety19_16 (AZ3), VroomVroom_15 (AZ4), Warda_16 (AZ1), Wildwest_17 (AZ1), Yang_16 (AZ1), YesChef_16 (AZ1),

Start 18:

- Found in 1 of 621 (0.2%) of genes in pham
- Manual Annotations of this start: 1 of 574
- Called 100.0% of time when present
- Phage (with cluster) where this start called: Zeta1847_14 (EH),

Start 19:

- Found in 21 of 621 (3.4%) of genes in pham
- Manual Annotations of this start: 21 of 574
- Called 100.0% of time when present
- Phage (with cluster) where this start called: Ashes_16 (AZ5), Beauvre_16 (AZ5), Cappuccino_16 (AZ5), Doedicurus_23 (GJ), Donkey_16 (AZ5), Gambol_16 (AZ5), Giorgio_16 (AZ5), Gumpizza_16 (AZ5), Halsey_16 (AZ5), Isperia_22 (GJ), Kalimba_16 (AZ5), Moss_16 (AZ5), Mysterium_16 (AZ5), OscarSo_26 (GJ), RockScotty_16 (AZ5), Sabourin_16 (AZ5), Sooty_16 (AZ5), SpecialK_16 (AZ5), Stuu_16 (AZ5), VResidence_16 (AZ1), Wyvern_24 (GJ),

Start 20:

- Found in 128 of 621 (20.6%) of genes in pham
- Manual Annotations of this start: 123 of 574
- Called 100.0% of time when present
- Phage (with cluster) where this start called: AlexAdler_17 (EA1), Alyxandracam_17 (EA1), Antoinette_17 (EA1), AranulaLuti_17 (EA1), Asta_17 (EA1), Aubergine_17 (EA1), AxiPup_17 (EA1), Baines_17 (EA1), Balsa_17 (EA1), Bandik_17 (EA1), BeautPeep30_17 (EA1), BeeBee8_18 (EA1), Benjalauren_17 (EA1),

BigRedClifford_17 (EA1), Blage_17 (EA1), BonesMcCoy_17 (EA1), Bonino_17 (EA1), Byron23_17 (EA1), Calix_17 (EA1), Chako_17 (EA1), Chamuel_17 (EA1), Christoph_17 (EA1), Clancy_17 (EA1), Convict_17 (EA1), CoraRita_17 (EA1), Dave_17 (EA1), Delphidian_17 (EA1), Den3_17 (EA1), Dothraki_17 (EA1), Duocatuli_17 (EA1), Endor_18 (EA1), Erla_17 (EA1), Espinosa_17 (EA1), Etna_17 (EA1), Etta_17 (EA1), Exploradora_17 (EA1), Figueroism_17 (EA1), Garey24_17 (EA1), Gargoyle_17 (EA1), Gelo_17 (EA1), Gershwin_17 (EA1), GoingMerry_17 (EA1), Greys_17 (EA1), Gubbabump_17 (EA1), Hamlet_17 (EA1), HanSolo_17 (EA1), HankSprout_18 (EA1), HungryHenry_17 (EA1), Ilzat_17 (EA1), Inventa_17 (EA1), Ioannes_17 (EA1), Janus167_17 (EA1), JasperRussell_17 (EA1), Jerbirus_17 (EA1), JeriBeth_17 (EA1), Kale_17 (EA1), KannH_17 (EA1), KellyGreen_17 (EA1), KingJulien_17 (EA1), Klimt_17 (EA1), Knox_17 (EA1), Kouch_17 (EA1), Kurt1_17 (EA1), Leafus_17 (EA1), Lovelyunicorn_17 (EA1), Ludgate_17 (EA1), MaeLinda_17 (EA1), ManRay_17 (EA1), Martin_18 (EA1), Merida02_17 (EA1), MillyPhilly_17 (EA1), MonChoix_16 (EA1), MrWorldwide_17 (EA1), Nagem_17 (EA1), Nattles_17 (EA1), NickSell_17 (EA1), Oats_17 (EA1), OldNelly_17 (EA1), Oxtober96_17 (EA1), Papafritta_17 (EA1), ParleG_17 (EA1), Peep_17 (EA1), Peppino_17 (EA1), Pherferi_17 (EA1), Phiderman_17 (EA1), PhillyPhantom_17 (EA1), Phireproof_17 (EA1), PhredFlintston_17 (EA1), Phriends_17 (EA1), Pocket_17 (EA1), PuppyEggo_17 (EA1), Raccoon_17 (EA1), Rapheph_17 (EA1), Raptor_17 (EA1), Redfield_17 (EA1), Renzie_17 (EA1), Riyhil_17 (EA1), Robinson_17 (EA1), Rog141_17 (EA1), RosieMae_17 (EA1), SJay_17 (EA1), Schnapsidee_17 (EA1), Sedgewig_17 (EA1), ShaiHulud_17 (EA1), Shee_17 (EA1), SoilGremlin_17 (EA1), SolidSnake_17 (EA1), SonOfLevi_17 (EA1), Soror1_17 (EA1), Stanktossa_17 (EA1), StingRay_17 (EA1), StirfryIV_17 (EA1), Stormbreaker8_17 (EA1), Strathdee_17 (EA1), Superfresh_17 (EA1), Symere_17 (EA1), TatarkaPM_17 (EA1), Teagan_17 (EA1), TeddyBear_17 (EA1), Tenda_17 (EA1), Thompsone_17 (EA1), Thorongil_17 (EA1), TinSulphur_17 (EA1), Velene_17 (EA1), Vispistious_17 (EA1), WildNOut_17 (EA1), Winzigespinne_17 (EA1), Zada_17 (EA1),

Start 21:

- Found in 98 of 621 (15.8%) of genes in pham
- Manual Annotations of this start: 86 of 574
- Called 100.0% of time when present
- Phage (with cluster) where this start called: Acosta_18 (EA1), Agente005_18 (EA1), Alakazam_19 (EA5), Aleyra_18 (EA1), Andromedas_16 (EA2), Anilorac_17 (EA1), Barnstormer_14 (EH), BaronJohn_18 (EA5), BouleyBill_17 (EA4), Bustleton_17 (EA4), CaptainRex_18 (EA5), CarisSwetlik_19 (EA1), Caron_14 (EH), Carostasia_16 (EA10), Casey_16 (EA3), Cen1621_14 (EH), Cheeto1_18 (EA9), Chepli_18 (EA6), ChickenKing_17 (EA9), ChikPic_16 (EA2), Cidela_16 (EA10), Clock_18 (EA5), ColaCorta_16 (EA2), Eleri_16 (EA2), Fabyndrax_16 (EA10), FarmerDoug_17 (EA1), Finny_16 (EA2), Fulton_18 (EA5), GaeCeo_18 (EA9), GardenB_17 (EA1), GardenState_15 (EH), Glamour_15 (EA2), Golden_17 (EA4), GoneGirl_18 (EA1), Greenlvy_18 (EA5), Guetzie_17 (EA4), HairyMan_15 (EA10), Hasitha_18 (EA5), HavenFinLeoSun_18 (EA1), HerculesXL_18 (EA11), Honk_14 (EH), IAmGroot_15 (EH), Ixel_17 (EA11), JasonD_19 (EA1), Jemerald_18 (EA6), Jenos_19 (EA1), Jingles_17 (EA4), Juanyo_16 (EA10), Juicer_18 (EA6), KatChan_18 (EA6), Kauala_17 (EA4), Kavo_17 (EA11), Koji_17 (EA4), Librie_18 (EA5), LilTerminator_18 (EA5), Lucky3_17 (EA4), Luna18_18 (EA6), MCubed_16 (EA2), Mandalorian_16 (EA10), McGalleon_18 (EA1), Mercedes_17 (EA), MiniVolent_16 (EA10), Morrigan_18 (EA6), Nebulous_18 (EA5), Neferthena_18 (EA5), Nucci_16 (EA10), Orpington_17 (EA2), PSirce_16 (EA2), Pajaza_16 (EA3), Penta_17 (EA11), Phanita_16 (EA2), Pherbot_17 (EA4), Pikmin_16 (EA3), PrincePhergus_17 (EA4),

QuadZero_18 (EA5), Quartz_16 (EA10), RenegadeRaider_18 (EA4), Sansa_15 (EA2), Saratos_16 (EA2), Schimmels22_18 (EA11), Schubert_17 (EA8), Scissor2024_18 (EA11), Shamu_16 (EA2), Sinatra_17 (EA4), SirVictor_17 (EA4), Theresita_17 (EA7), Tinyman4_18 (EA11), TwoBits_18 (EA5), UtzChips_14 (EH), Vafari_19 (EA5), Wardwill_20 (EA5), WestPM_17 (EA11), WilliamStrong_16 (EA6), Xebius_16 (EA2), YuyuY_16 (EA10), Zayuliv_18 (EA5), Zenitsu_16 (EA2), Zepp_19 (EA5),

Start 24:

- Found in 22 of 621 (3.5%) of genes in pham
- Manual Annotations of this start: 21 of 574
- Called 100.0% of time when present
- Phage (with cluster) where this start called: Alove_19 (EJ), AyoTeo_21 (EJ), Benry_19 (EJ), Cicada_21 (EJ), FireCastle_19 (EJ), Goodman_20 (EJ), Htur_19 (EJ), IndiRoo_19 (EJ), Jera_20 (EJ), Johann_20 (EJ), Labella_21 (EJ), Linayshia_19 (EJ), Milani_20 (EJ), Olympi_21 (EJ), PermaG_20 (EJ), Rasovi_19 (EJ), Rootkit7_19 (EJ), SBlackberry_19 (EJ), Sucha_16 (EJ), TurboVicky_19 (EJ), Typher_21 (EJ), Zanella_19 (EJ),

Start 30:

- Found in 32 of 621 (5.2%) of genes in pham
- Manual Annotations of this start: 5 of 574
- Called 15.6% of time when present
- Phage (with cluster) where this start called: Adaia_12 (AX), Atraxa_12 (AX), Barebow_11 (singleton), MooKitty_12 (AX), Sputnik_12 (AX),

Start 31:

- Found in 1 of 621 (0.2%) of genes in pham
- Manual Annotations of this start: 1 of 574
- Called 100.0% of time when present
- Phage (with cluster) where this start called: Megan_30 (EC),

Start 32:

- Found in 155 of 621 (25.0%) of genes in pham
- Manual Annotations of this start: 142 of 574
- Called 96.8% of time when present
- Phage (with cluster) where this start called: Abelaine_13 (EE), Alucard_12 (EE), Anseraureola_12 (EE), Aries55_12 (EE), Astro16_12 (EE), Avvas_12 (EE), Azizam_12 (EE), Aztec_12 (EE), Baine_12 (EE), BarBear_12 (EE), Belthelas_12 (EE), BinkBonk_12 (EE), Bintii_12 (EE), Biscayne_12 (EE), Bodhi17_12 (EE), BonaeVitae_12 (EE), BoomRoasted_12 (EE), Bradley2_12 (EE), Bri160_12 (EE), BrokMonster_12 (EE), Bullzi2019_12 (EE), Burgy_12 (EE), BurtonThePup_12 (EE), Cayde6_12 (EE), Charbie_12 (EE), Chatham_12 (EE), Cheesecake_12 (EE), Ciel_12 (EE), Clownery_12 (EE), Concrete_12 (EE), DaftyDuck_12 (EE), Danimal_12 (EE), Danno_12 (EE), DirtPie_12 (EE), Dongwon_12 (EE), Dooby_12 (EE), Duggie_12 (EE), Duggle_12 (EE), ELee24_12 (EE), EdElric_12 (EE), Efeko_13 (EE), Eightball_12 (EE), Ekko14_12 (EE), Elspeth_12 (EE), Erin_12 (EE), Gabbspett_12 (EE), Gardevoir_12 (EE), Gillker_12 (EE), Godfather_12 (EE), GoldenBlanche_12 (EE), Goobery_12 (EE), Goulash_12 (EE), Grayscar_12 (EE), HarperAnne_12 (EE), HeadMave_12 (EE), Hernandez44_12 (EE), Horacetta_12 (EE), Hulk_12 (EE), IzzyPants24_11 (EE), JRok_12 (EE), Jahseh_12 (EE), JaimeB_12 (EE), Jannah_12 (EE), Jella_12 (EE), Jerky_12 (EE), JoBros_12 (EE), JooneeDee_12 (EE), Josuke_12 (EE), Kaijohn_12 (EE), KayPaulus_12 (EE), Kevanna_12 (EE), KillerTomato_12 (EE),

Kojax4_12 (EE), KyriosFaba_12 (EE), LaviMo_12 (EE), Leafy_12 (EE), LemonPepper_12 (EE), LionelHutz_12 (EE), Livingwater_12 (EE), Loca_12 (EE), Lola20_12 (EE), Lunatic_12 (EE), Luxx_12 (EE), Madebyisha_12 (EE), Majesty_12 (EE), ManAs_12 (EE), Maneater_12 (EE), Marichuy_12 (EE), MasterPitts_12 (EE), Mauilvory_11 (EE), McShie_12 (EE), MelBee03_12 (EE), Miaurora_12 (EE), Minima_12 (EE), MirimarMandM_12 (EE), MrGreen_12 (EE), Myram_12 (EE), Naby_12 (EE), Namsahir_12 (EE), NeumannU_12 (EE), Niffler_12 (EE), Nobel_12 (EE), Noelani_12 (EE), Octopus_12 (EE), OdetoJoy_12 (EE), Otwor_12 (EE), Owens_12 (EE), PaoPu_12 (EE), Picconator_12 (EE), Picnic_12 (EE), PoRanda_12 (EE), Pondwater_12 (EE), Publix_12 (EE), Puddles3_12 (EE), PuffyCat_12 (EE), Quaker_12 (EE), Rhogar_12 (EE), Rhysand_12 (EE), Rira_12 (EE), RoscoWindex_12 (EE), Sachet_12 (EE), Sage7_12 (EE), SantasSleigh_12 (EE), Sara_12 (EE), Scamander_12 (EE), Scrunchy_12 (EE), SeaWolves_12 (EE), Sippinontea_12 (EE), Slentz_12 (EE), Slizam_12 (EE), Snuffles_13 (EE), Stem_12 (EE), TeddyBoy_12 (EE), TimoTea_12 (EE), TinyTruffula_12 (EE), TlaliMex_12 (EE), TomBrady12_12 (EE), Toxicola_13 (EE), Trackstar_12 (EE), Trireme_12 (EE), Tyrellus_12 (EE), Upsilon_12 (EE), Vanisius_12 (EE), VitulaEligans_12 (EE), Witch_12 (EE), Wolfpack_12 (EE), Yasuo_12 (EE), YertPhresh_12 (EE), Yubaba_12 (EE), Zahlia_12 (EE),

Start 38:

- Found in 163 of 621 (26.2%) of genes in pham
- Manual Annotations of this start: 3 of 574
- Called 1.8% of time when present
- Phage (with cluster) where this start called: Cazares_12 (EE), Oaklynn_12 (EE), Yami_12 (EE),

Start 83:

- Found in 1 of 621 (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: JrWilcox_69 (GL),

Summary by clusters:

There are 30 clusters represented in this pham: FR, singleton, EA2, GJ, GL, EH, EJ, EE, AK, EA, AL, EC, EA9, EA8, EA1, AX, EA3, AZ, EA5, EA4, EA7, EA6, EA11, EA10, AZ1, AZ2, AZ3, AZ4, AZ5, AZ7,

Info for manual annotations of cluster AK:

- Start number 12 was manually annotated 84 times for cluster AK.

Info for manual annotations of cluster AL:

- Start number 4 was manually annotated 6 times for cluster AL.

Info for manual annotations of cluster AX:

- Start number 30 was manually annotated 4 times for cluster AX.

Info for manual annotations of cluster AZ:

- Start number 14 was manually annotated 1 time for cluster AZ.

Info for manual annotations of cluster AZ1:

- Start number 14 was manually annotated 48 times for cluster AZ1.

- Start number 19 was manually annotated 1 time for cluster AZ1.

Info for manual annotations of cluster AZ2:

- Start number 14 was manually annotated 4 times for cluster AZ2.

Info for manual annotations of cluster AZ3:

- Start number 14 was manually annotated 2 times for cluster AZ3.

Info for manual annotations of cluster AZ4:

- Start number 14 was manually annotated 8 times for cluster AZ4.

Info for manual annotations of cluster AZ5:

- Start number 19 was manually annotated 16 times for cluster AZ5.

Info for manual annotations of cluster EA:

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

Info for manual annotations of cluster EA1:

- Start number 20 was manually annotated 123 times for cluster EA1.
- Start number 21 was manually annotated 9 times for cluster EA1.

Info for manual annotations of cluster EA10:

- Start number 21 was manually annotated 7 times for cluster EA10.

Info for manual annotations of cluster EA11:

- Start number 21 was manually annotated 6 times for cluster EA11.

Info for manual annotations of cluster EA2:

- Start number 21 was manually annotated 13 times for cluster EA2.

Info for manual annotations of cluster EA3:

- Start number 21 was manually annotated 3 times for cluster EA3.

Info for manual annotations of cluster EA4:

- Start number 21 was manually annotated 12 times for cluster EA4.

Info for manual annotations of cluster EA5:

- Start number 21 was manually annotated 16 times for cluster EA5.

Info for manual annotations of cluster EA6:

- Start number 21 was manually annotated 7 times for cluster EA6.

Info for manual annotations of cluster EA7:

- Start number 21 was manually annotated 1 time for cluster EA7.

Info for manual annotations of cluster EA8:

- Start number 21 was manually annotated 1 time for cluster EA8.

Info for manual annotations of cluster EA9:

- Start number 21 was manually annotated 3 times for cluster EA9.

Info for manual annotations of cluster EC:

- Start number 31 was manually annotated 1 time for cluster EC.

Info for manual annotations of cluster EE:

- Start number 32 was manually annotated 142 times for cluster EE.
- Start number 38 was manually annotated 3 times for cluster EE.

Info for manual annotations of cluster EH:

- Start number 13 was manually annotated 7 times for cluster EH.
- Start number 18 was manually annotated 1 time for cluster EH.
- Start number 21 was manually annotated 7 times for cluster EH.

Info for manual annotations of cluster EJ:

- Start number 24 was manually annotated 21 times for cluster EJ.

Info for manual annotations of cluster FR:

- Start number 9 was manually annotated 3 times for cluster FR.
- Start number 11 was manually annotated 8 times for cluster FR.

Info for manual annotations of cluster GJ:

- Start number 19 was manually annotated 4 times for cluster GJ.

Gene Information:

Gene: AEgle_16 Start: 10734, Stop: 13058, Start Num: 14

Candidate Starts for AEgle_16:

(Start: 14 @10734 has 63 MA's), (53, 10890), (54, 10899), (58, 10914), (75, 10980), (87, 11040), (95, 11085), (113, 11157), (138, 11238), (139, 11241), (144, 11271), (158, 11325), (167, 11355), (181, 11412), (187, 11436), (201, 11496), (202, 11502), (329, 11721), (399, 11817), (410, 11850), (444, 11937), (468, 11991), (482, 12033), (494, 12072), (512, 12132), (561, 12273), (633, 12402), (635, 12411), (663, 12522), (709, 12654), (710, 12657), (720, 12690), (744, 12768), (755, 12807), (778, 12867), (795, 12957),

Gene: AGrandiflora_16 Start: 10727, Stop: 13042, Start Num: 14

Candidate Starts for AGrandiflora_16:

(Start: 14 @10727 has 63 MA's), (53, 10883), (54, 10892), (75, 10973), (78, 10985), (87, 11033), (88, 11036), (95, 11078), (113, 11150), (138, 11231), (139, 11234), (144, 11264), (158, 11318), (167, 11348), (181, 11405), (187, 11429), (201, 11489), (329, 11714), (399, 11810), (425, 11873), (428, 11882), (444, 11930), (450, 11939), (454, 11951), (468, 11984), (482, 12026), (494, 12065), (512, 12125), (561, 12266), (598, 12341), (611, 12353), (633, 12395), (635, 12404), (641, 12428), (659, 12497), (663, 12515), (701, 12626), (709, 12647), (710, 12650), (720, 12683), (744, 12761), (755, 12800), (778, 12860), (785, 12890), (795, 12941), (807, 12986), (814, 13031),

Gene: Abelaine_13 Start: 7556, Stop: 9661, Start Num: 32

Candidate Starts for Abelaine_13:

(Start: 32 @7556 has 142 MA's), (Start: 38 @7577 has 3 MA's), (80, 7754), (81, 7763), (85, 7787), (101, 7859), (106, 7883), (109, 7889), (137, 7982), (149, 8039), (156, 8060), (158, 8072), (160, 8081), (212, 8288), (218, 8306), (270, 8393), (298, 8462), (313, 8474), (328, 8522), (346, 8552), (350, 8567), (374, 8630), (385, 8654), (392, 8675), (400, 8699), (402, 8705), (410, 8732), (426, 8765), (439, 8804), (451, 8837), (456, 8852), (462, 8867), (476, 8894), (477, 8897), (487, 8930), (489, 8936), (503, 8984), (531, 9068), (541, 9095), (550, 9116), (570, 9179), (580, 9203), (626, 9260), (653, 9365), (659, 9386),

(661, 9398), (673, 9440), (682, 9461), (693, 9482), (745, 9611),

Gene: AceofSpades_15 Start: 8983, Stop: 11226, Start Num: 14

Candidate Starts for AceofSpades_15:

(Start: 14 @8983 has 63 MA's), (Start: 38 @9070 has 3 MA's), (58, 9151), (64, 9172), (80, 9238), (103, 9343), (131, 9454), (133, 9460), (157, 9556), (168, 9598), (203, 9745), (319, 9880), (327, 9907), (349, 9940), (428, 10024), (441, 10063), (459, 10102), (473, 10126), (481, 10150), (484, 10159), (489, 10177), (498, 10204), (502, 10219), (514, 10255), (518, 10267), (534, 10312), (536, 10318), (557, 10378), (562, 10396), (570, 10420), (588, 10462), (592, 10465), (600, 10495), (632, 10603), (709, 10858), (713, 10870), (739, 10954), (742, 10960), (749, 10990),

Gene: Acosta_18 Start: 9628, Stop: 11892, Start Num: 21

Candidate Starts for Acosta_18:

(Start: 21 @9628 has 86 MA's), (71, 9832), (72, 9835), (81, 9883), (85, 9907), (96, 9964), (99, 9973), (118, 10045), (120, 10051), (122, 10060), (146, 10144), (158, 10189), (169, 10219), (191, 10309), (210, 10369), (232, 10426), (245, 10447), (287, 10543), (288, 10546), (292, 10558), (308, 10603), (311, 10612), (328, 10669), (339, 10702), (380, 10813), (384, 10819), (394, 10849), (406, 10888), (419, 10921), (422, 10927), (437, 10966), (460, 11029), (471, 11050), (486, 11095), (501, 11143), (503, 11152), (559, 11317), (580, 11371), (630, 11449), (638, 11479), (639, 11482), (650, 11530), (675, 11620), (678, 11632), (679, 11635), (713, 11713), (718, 11725), (740, 11788), (743, 11797), (760, 11854),

Gene: Adaia_12 Start: 6845, Stop: 8761, Start Num: 30

Candidate Starts for Adaia_12:

(Start: 30 @6845 has 5 MA's), (33, 6863), (35, 6869), (46, 6908), (72, 7010), (73, 7016), (81, 7058), (85, 7082), (92, 7115), (111, 7190), (124, 7241), (126, 7250), (177, 7445), (189, 7496), (207, 7565), (266, 7703), (295, 7790), (324, 7844), (336, 7865), (350, 7898), (385, 7922), (393, 7946), (401, 7967), (416, 8006), (431, 8045), (449, 8078), (469, 8114), (472, 8123), (474, 8129), (493, 8156), (499, 8177), (508, 8207), (510, 8213), (520, 8240), (526, 8255), (533, 8276), (546, 8309), (549, 8318), (595, 8459), (622, 8486), (625, 8507), (628, 8519), (641, 8570), (645, 8594), (652, 8615), (665, 8663), (687, 8732),

Gene: Adolin_16 Start: 10723, Stop: 12957, Start Num: 14

Candidate Starts for Adolin_16:

(Start: 14 @10723 has 63 MA's), (Start: 32 @10798 has 142 MA's), (53, 10879), (54, 10888), (61, 10915), (75, 10969), (78, 10981), (87, 11029), (90, 11041), (98, 11083), (113, 11146), (138, 11227), (139, 11230), (144, 11260), (167, 11344), (181, 11401), (187, 11425), (197, 11467), (201, 11485), (211, 11515), (227, 11554), (233, 11572), (318, 11644), (319, 11647), (327, 11665), (374, 11710), (406, 11767), (425, 11806), (428, 11815), (444, 11863), (450, 11872), (482, 11959), (485, 11971), (494, 11998), (499, 12016), (512, 12058), (550, 12160), (568, 12220), (614, 12292), (630, 12319), (633, 12328), (655, 12418), (660, 12439), (669, 12472), (689, 12526), (697, 12547), (742, 12679), (749, 12709), (800, 12892),

Gene: Adumb2043_16 Start: 10733, Stop: 13057, Start Num: 14

Candidate Starts for Adumb2043_16:

(Start: 14 @10733 has 63 MA's), (53, 10889), (54, 10898), (58, 10913), (75, 10979), (87, 11039), (95, 11084), (113, 11156), (138, 11237), (139, 11240), (144, 11270), (158, 11324), (167, 11354), (181, 11411), (187, 11435), (201, 11495), (202, 11501), (329, 11720), (399, 11816), (410, 11849), (444, 11936), (468, 11990), (482, 12032), (494, 12071), (512, 12131), (561, 12272), (633, 12401), (635, 12410), (663, 12521), (709, 12653), (710, 12656), (720, 12689), (744, 12767), (755, 12806), (778, 12866), (795, 12956),

Gene: Agamotto_19 Start: 12614, Stop: 14902, Start Num: 11

Candidate Starts for Agamotto_19:

(2, 12578), (Start: 11 @12614 has 8 MA's), (50, 12755), (102, 12974), (103, 12977), (131, 13088), (132, 13091), (133, 13094), (168, 13232), (182, 13289), (203, 13379), (206, 13388), (212, 13409), (319, 13550), (321, 13556), (428, 13715), (442, 13757), (457, 13790), (472, 13814), (484, 13850), (490, 13871), (503, 13913), (505, 13919), (506, 13922), (534, 14003), (544, 14030), (550, 14045), (553, 14057), (560, 14081), (565, 14096), (567, 14102), (572, 14114), (573, 14120), (585, 14141), (586, 14144), (592, 14156), (597, 14174), (648, 14363), (660, 14408), (666, 14429), (667, 14432), (701, 14528), (709, 14549), (710, 14552), (720, 14585), (755, 14702), (763, 14726), (766, 14735), (773, 14753), (797, 14843), (803, 14864),

Gene: Agente005_18 Start: 9923, Stop: 12184, Start Num: 21

Candidate Starts for Agente005_18:

(Start: 21 @9923 has 86 MA's), (71, 10127), (72, 10130), (81, 10178), (85, 10202), (96, 10259), (99, 10268), (116, 10331), (120, 10346), (122, 10355), (146, 10439), (158, 10484), (169, 10514), (191, 10604), (210, 10664), (232, 10721), (245, 10742), (255, 10775), (287, 10838), (288, 10841), (308, 10898), (328, 10964), (336, 10985), (339, 10997), (350, 11030), (374, 11093), (384, 11114), (394, 11144), (406, 11183), (419, 11216), (422, 11222), (437, 11261), (460, 11324), (471, 11345), (486, 11390), (501, 11438), (503, 11447), (552, 11588), (559, 11612), (575, 11657), (580, 11666), (630, 11744), (638, 11774), (639, 11777), (650, 11825), (675, 11915), (679, 11930), (700, 11972), (740, 12080), (743, 12089), (760, 12146),

Gene: AinMach_15 Start: 9852, Stop: 12212, Start Num: 14

Candidate Starts for AinMach_15:

(Start: 14 @9852 has 63 MA's), (53, 10008), (58, 10032), (75, 10098), (87, 10158), (113, 10275), (130, 10338), (138, 10356), (139, 10359), (144, 10389), (158, 10443), (167, 10473), (181, 10530), (187, 10554), (195, 10584), (197, 10596), (200, 10608), (201, 10614), (207, 10635), (444, 10980), (450, 10989), (512, 11175), (572, 11346), (589, 11391), (591, 11400), (598, 11424), (601, 11436), (605, 11460), (608, 11469), (611, 11478), (641, 11610), (651, 11655), (660, 11688), (666, 11709), (667, 11712), (697, 11796), (712, 11838), (742, 11928), (749, 11958),

Gene: Alakazam_19 Start: 10659, Stop: 13094, Start Num: 21

Candidate Starts for Alakazam_19:

(Start: 21 @10659 has 86 MA's), (27, 10674), (47, 10773), (85, 10935), (89, 10950), (96, 10992), (102, 11010), (122, 11088), (127, 11109), (134, 11127), (146, 11172), (158, 11217), (173, 11259), (191, 11328), (210, 11388), (238, 11463), (273, 11550), (287, 11580), (288, 11583), (292, 11595), (304, 11625), (308, 11640), (310, 11646), (328, 11706), (336, 11727), (337, 11733), (341, 11745), (347, 11760), (353, 11781), (375, 11838), (385, 11859), (394, 11886), (415, 11946), (442, 12018), (472, 12090), (474, 12096), (479, 12108), (492, 12150), (494, 12156), (503, 12189), (514, 12222), (529, 12264), (535, 12282), (575, 12399), (584, 12423), (594, 12462), (616, 12540), (639, 12651), (650, 12699), (664, 12747), (675, 12789), (679, 12804), (704, 12870), (709, 12879), (720, 12912), (736, 12963), (765, 13053), (772, 13077), (776, 13080),

Gene: Albanese_18 Start: 12660, Stop: 15221, Start Num: 12

Candidate Starts for Albanese_18:

(6, 12639), (Start: 12 @12660 has 84 MA's), (37, 12750), (45, 12789), (55, 12825), (72, 12885), (82, 12933), (84, 12948), (123, 13116), (140, 13161), (151, 13212), (153, 13215), (175, 13299), (226, 13485), (240, 13521), (243, 13533), (253, 13575), (284, 13686), (352, 13884), (414, 13977), (428, 14001), (429, 14004), (460, 14082), (464, 14088), (473, 14115), (483, 14145), (502, 14208), (507, 14223), (510, 14232), (511, 14235), (514, 14244), (522, 14268), (526, 14280), (528, 14286), (534, 14301), (536, 14307), (537, 14310), (546, 14331), (551, 14346), (555, 14361), (560, 14379), (562, 14385), (567, 14400), (570, 14409), (573, 14418), (588, 14451), (592, 14454), (596, 14466), (597, 14472), (600, 14484), (623, 14550), (626, 14565), (633, 14595), (635, 14604), (663, 14715), (672, 14751), (678, 14772), (709, 14847), (710, 14850), (726, 14904), (739, 14943), (755, 15000), (763, 15024), (780, 15066), (788, 15093), (801, 15162),

Gene: Aledel_14 Start: 9738, Stop: 12296, Start Num: 12

Candidate Starts for Aledel_14:

(Start: 12 @9738 has 84 MA's), (15, 9747), (22, 9777), (45, 9867), (72, 9963), (81, 10008), (84, 10026), (123, 10194), (151, 10290), (153, 10293), (156, 10308), (180, 10395), (240, 10599), (241, 10602), (262, 10686), (373, 10992), (414, 11052), (423, 11070), (428, 11076), (439, 11109), (443, 11121), (460, 11157), (471, 11184), (479, 11208), (481, 11214), (499, 11271), (506, 11295), (509, 11304), (514, 11319), (522, 11343), (526, 11355), (534, 11376), (536, 11382), (544, 11403), (552, 11427), (555, 11436), (560, 11454), (567, 11475), (569, 11481), (573, 11493), (588, 11526), (592, 11529), (596, 11541), (599, 11556), (600, 11559), (627, 11646), (648, 11736), (649, 11739), (663, 11790), (678, 11847), (683, 11856), (689, 11868), (709, 11922), (710, 11925), (726, 11979), (739, 12018), (753, 12066), (755, 12075), (763, 12099), (767, 12111), (795, 12207), (801, 12237),

Gene: AlexAdler_17 Start: 9353, Stop: 11623, Start Num: 20

Candidate Starts for AlexAdler_17:

(Start: 20 @9353 has 123 MA's), (47, 9470), (54, 9500), (81, 9611), (85, 9635), (96, 9692), (116, 9764), (120, 9779), (122, 9788), (146, 9872), (158, 9917), (169, 9947), (191, 10037), (210, 10097), (232, 10154), (245, 10175), (287, 10271), (288, 10274), (304, 10316), (328, 10397), (336, 10418), (339, 10430), (350, 10463), (384, 10547), (394, 10577), (406, 10616), (419, 10649), (422, 10655), (432, 10682), (437, 10694), (440, 10703), (442, 10709), (455, 10745), (460, 10757), (474, 10787), (486, 10823), (503, 10880), (514, 10913), (535, 10973), (559, 11045), (580, 11099), (630, 11177), (638, 11207), (639, 11210), (650, 11258), (662, 11300), (675, 11348), (679, 11363), (700, 11405), (740, 11519), (743, 11528), (760, 11585),

Gene: Aleyra_18 Start: 9928, Stop: 12189, Start Num: 21

Candidate Starts for Aleyra_18:

(Start: 21 @9928 has 86 MA's), (71, 10132), (72, 10135), (81, 10183), (85, 10207), (96, 10264), (99, 10273), (116, 10336), (120, 10351), (122, 10360), (146, 10444), (158, 10489), (169, 10519), (191, 10609), (210, 10669), (232, 10726), (245, 10747), (255, 10780), (287, 10843), (288, 10846), (308, 10903), (328, 10969), (336, 10990), (339, 11002), (350, 11035), (374, 11098), (384, 11119), (394, 11149), (406, 11188), (419, 11221), (422, 11227), (437, 11266), (460, 11329), (471, 11350), (486, 11395), (501, 11443), (503, 11452), (552, 11593), (559, 11617), (575, 11662), (580, 11671), (630, 11749), (638, 11779), (639, 11782), (650, 11830), (675, 11920), (679, 11935), (700, 11977), (740, 12085), (743, 12094), (760, 12151),

Gene: Alove_19 Start: 13340, Stop: 15328, Start Num: 24

Candidate Starts for Alove_19:

(Start: 24 @13340 has 21 MA's), (36, 13379), (64, 13490), (69, 13505), (72, 13517), (113, 13709), (120, 13733), (168, 13916), (185, 13982), (208, 14078), (214, 14102), (296, 14189), (337, 14291), (350, 14315), (417, 14384), (433, 14417), (519, 14582), (547, 14615), (592, 14642), (597, 14660), (634, 14762), (637, 14774), (638, 14780), (659, 14861), (727, 15035), (747, 15101), (766, 15161), (770, 15170), (808, 15302),

Gene: Alucard_12 Start: 7541, Stop: 9646, Start Num: 32

Candidate Starts for Alucard_12:

(Start: 32 @7541 has 142 MA's), (Start: 38 @7562 has 3 MA's), (80, 7739), (81, 7748), (85, 7772), (101, 7844), (106, 7868), (109, 7874), (149, 8024), (156, 8045), (158, 8057), (160, 8066), (212, 8273), (218, 8291), (270, 8378), (298, 8447), (313, 8459), (328, 8507), (346, 8537), (350, 8552), (363, 8588), (374, 8615), (384, 8636), (392, 8660), (400, 8684), (402, 8690), (410, 8717), (426, 8750), (439, 8789), (449, 8816), (456, 8837), (462, 8852), (476, 8879), (477, 8882), (484, 8903), (487, 8915), (489, 8921), (503, 8969), (515, 9005), (531, 9053), (541, 9080), (550, 9101), (570, 9164), (580, 9188), (626, 9245), (653, 9350), (659, 9371), (661, 9383), (673, 9425), (682, 9446), (693, 9467), (745, 9596),

Gene: Alyxandracam_17 Start: 9362, Stop: 11632, Start Num: 20

Candidate Starts for Alyxandracam_17:

(Start: 20 @9362 has 123 MA's), (47, 9479), (54, 9509), (71, 9569), (81, 9620), (85, 9644), (96, 9701), (116, 9773), (120, 9788), (122, 9797), (146, 9881), (158, 9926), (169, 9956), (191, 10046), (210, 10106), (232, 10163), (245, 10184), (287, 10280), (288, 10283), (304, 10325), (328, 10406), (336, 10427), (339, 10439), (350, 10472), (384, 10556), (394, 10586), (406, 10625), (419, 10658), (422, 10664), (432, 10691), (437, 10703), (440, 10712), (442, 10718), (455, 10754), (460, 10766), (474, 10796), (486, 10832), (503, 10889), (514, 10922), (535, 10982), (559, 11054), (630, 11186), (638, 11216), (639, 11219), (650, 11267), (662, 11309), (675, 11357), (679, 11372), (700, 11414), (710, 11441), (740, 11528), (743, 11537), (760, 11594),

Gene: Amploria_16 Start: 10733, Stop: 13057, Start Num: 14

Candidate Starts for Amploria_16:

(Start: 14 @10733 has 63 MA's), (53, 10889), (54, 10898), (58, 10913), (75, 10979), (87, 11039), (95, 11084), (113, 11156), (138, 11237), (139, 11240), (144, 11270), (158, 11324), (167, 11354), (181, 11411), (187, 11435), (201, 11495), (202, 11501), (329, 11720), (399, 11816), (410, 11849), (444, 11936), (468, 11990), (482, 12032), (494, 12071), (512, 12131), (561, 12272), (633, 12401), (635, 12410), (663, 12521), (709, 12653), (710, 12656), (744, 12767), (755, 12806), (778, 12866), (795, 12956),

Gene: Amyev_16 Start: 10746, Stop: 13070, Start Num: 14

Candidate Starts for Amyev_16:

(Start: 14 @10746 has 63 MA's), (53, 10902), (54, 10911), (75, 10992), (87, 11052), (95, 11097), (113, 11169), (128, 11229), (138, 11250), (139, 11253), (144, 11283), (158, 11337), (167, 11367), (181, 11424), (187, 11448), (201, 11508), (202, 11514), (258, 11634), (329, 11733), (399, 11829), (428, 11901), (444, 11949), (454, 11970), (468, 12003), (482, 12045), (494, 12084), (512, 12144), (517, 12159), (541, 12225), (586, 12348), (597, 12357), (633, 12414), (635, 12423), (648, 12480), (649, 12483), (663, 12534), (709, 12666), (710, 12669), (744, 12780), (755, 12819), (763, 12843), (795, 12969),

Gene: Andromedas_16 Start: 9431, Stop: 11839, Start Num: 21

Candidate Starts for Andromedas_16:

(Start: 21 @9431 has 86 MA's), (27, 9446), (47, 9545), (71, 9635), (85, 9710), (96, 9767), (99, 9776), (116, 9839), (120, 9854), (122, 9863), (146, 9947), (158, 9992), (169, 10022), (179, 10064), (191, 10112), (210, 10172), (232, 10229), (273, 10316), (287, 10346), (288, 10349), (292, 10361), (336, 10493), (337, 10499), (354, 10550), (374, 10601), (375, 10604), (389, 10637), (394, 10652), (398, 10664), (410, 10703), (432, 10757), (440, 10778), (442, 10784), (472, 10856), (474, 10862), (486, 10898), (487, 10901), (503, 10955), (525, 11018), (529, 11030), (535, 11048), (559, 11120), (570, 11150), (583, 11186), (590, 11210), (600, 11249), (608, 11285), (611, 11294), (618, 11315), (638, 11414), (639, 11417), (650, 11465), (675, 11555), (679, 11570), (700, 11615), (709, 11642), (715, 11660), (722, 11681), (727, 11699), (732, 11708), (738, 11729), (740, 11735), (743, 11744), (760, 11801), (768, 11828), (769, 11831),

Gene: Anilorac_17 Start: 9768, Stop: 12029, Start Num: 21

Candidate Starts for Anilorac_17:

(Start: 21 @9768 has 86 MA's), (71, 9972), (72, 9975), (81, 10023), (85, 10047), (96, 10104), (99, 10113), (116, 10176), (120, 10191), (122, 10200), (146, 10284), (158, 10329), (169, 10359), (179, 10401), (191, 10449), (210, 10509), (232, 10566), (245, 10587), (255, 10620), (287, 10683), (288, 10686), (308, 10743), (328, 10809), (336, 10830), (339, 10842), (350, 10875), (374, 10938), (384, 10959), (389, 10974), (394, 10989), (406, 11028), (419, 11061), (422, 11067), (437, 11106), (460, 11169), (471, 11190), (486, 11235), (501, 11283), (503, 11292), (552, 11433), (559, 11457), (575, 11502), (580, 11511), (630, 11589), (638, 11619), (639, 11622), (650, 11670), (675, 11760), (679, 11775), (700, 11817), (740, 11925), (743, 11934), (760, 11991),

Gene: AnnabelLee_17 Start: 9570, Stop: 11855, Start Num: 11

Candidate Starts for AnnabelLee_17:

(Start: 9 @9567 has 3 MA's), (Start: 11 @9570 has 8 MA's), (40, 9669), (80, 9828), (131, 10044), (168, 10188), (203, 10335), (215, 10377), (332, 10545), (339, 10566), (402, 10620), (466, 10761), (473, 10773), (484, 10806), (488, 10821), (505, 10875), (506, 10878), (514, 10902), (526, 10938), (529, 10947), (537, 10968), (540, 10977), (543, 10983), (546, 10989), (550, 11001), (551, 11004), (559, 11034), (562, 11043), (592, 11112), (599, 11139), (600, 11142), (623, 11208), (627, 11229), (633, 11253), (639, 11277), (646, 11316), (666, 11385), (668, 11394), (676, 11421), (709, 11505), (710, 11508), (739, 11601), (742, 11607), (755, 11658), (763, 11682), (766, 11691), (783, 11736), (812, 11850),

Gene: Anseraureola_12 Start: 7563, Stop: 9671, Start Num: 32

Candidate Starts for Anseraureola_12:

(Start: 32 @7563 has 142 MA's), (Start: 38 @7584 has 3 MA's), (80, 7761), (81, 7770), (85, 7794), (101, 7866), (106, 7890), (109, 7896), (137, 7989), (149, 8046), (156, 8067), (158, 8079), (160, 8088), (212, 8295), (218, 8313), (270, 8400), (298, 8469), (313, 8481), (328, 8529), (346, 8559), (350, 8574), (363, 8610), (374, 8637), (385, 8661), (392, 8682), (400, 8706), (402, 8712), (410, 8739), (426, 8772), (439, 8811), (449, 8838), (456, 8859), (462, 8874), (476, 8901), (477, 8904), (487, 8937), (489, 8943), (503, 8991), (515, 9027), (531, 9075), (541, 9102), (550, 9123), (570, 9186), (580, 9210), (626, 9267), (653, 9372), (659, 9393), (661, 9405), (673, 9447), (693, 9489), (745, 9621),

Gene: Antoinette_17 Start: 9353, Stop: 11623, Start Num: 20

Candidate Starts for Antoinette_17:

(Start: 20 @9353 has 123 MA's), (47, 9470), (54, 9500), (81, 9611), (85, 9635), (96, 9692), (116, 9764), (120, 9779), (122, 9788), (146, 9872), (158, 9917), (169, 9947), (191, 10037), (210, 10097), (232, 10154), (245, 10175), (287, 10271), (288, 10274), (304, 10316), (328, 10397), (336, 10418), (339, 10430), (350, 10463), (384, 10547), (394, 10577), (406, 10616), (419, 10649), (422, 10655), (432, 10682), (437, 10694), (440, 10703), (442, 10709), (455, 10745), (460, 10757), (474, 10787), (486, 10823), (503, 10880), (535, 10973), (559, 11045), (580, 11099), (630, 11177), (638, 11207), (639, 11210), (650, 11258), (662, 11300), (675, 11348), (679, 11363), (700, 11405), (740, 11519), (743, 11528), (760, 11585),

Gene: AppleCider_18 Start: 12612, Stop: 15167, Start Num: 12

Candidate Starts for AppleCider_18:

(6, 12591), (Start: 12 @12612 has 84 MA's), (26, 12660), (45, 12741), (53, 12765), (72, 12837), (82, 12885), (84, 12900), (85, 12906), (123, 13068), (140, 13113), (151, 13164), (153, 13167), (163, 13197), (175, 13251), (197, 13335), (233, 13458), (250, 13518), (257, 13536), (261, 13551), (276, 13602), (352, 13833), (403, 13902), (414, 13926), (423, 13944), (428, 13950), (447, 14004), (454, 14016), (464, 14037), (472, 14061), (500, 14148), (507, 14172), (509, 14178), (510, 14181), (514, 14193), (521, 14214), (522, 14217), (524, 14223), (526, 14229), (532, 14247), (534, 14250), (536, 14256), (546, 14280), (552, 14301), (555, 14310), (560, 14328), (567, 14349), (570, 14358), (573, 14367), (588, 14400), (592, 14403), (594, 14412), (596, 14415), (610, 14466), (663, 14664), (666, 14676), (671, 14697), (672, 14700), (709, 14796), (710, 14799), (726, 14853), (739, 14892), (755, 14949), (770, 14991), (788, 15039), (795, 15081), (801, 15111),

Gene: AranulaLuti_17 Start: 9654, Stop: 11924, Start Num: 20

Candidate Starts for AranulaLuti_17:

(Start: 20 @9654 has 123 MA's), (47, 9771), (54, 9801), (71, 9861), (81, 9912), (85, 9936), (96, 9993), (120, 10080), (122, 10089), (146, 10173), (158, 10218), (168, 10245), (169, 10248), (191, 10338), (210, 10398), (232, 10455), (245, 10476), (287, 10572), (288, 10575), (304, 10617), (328, 10698), (336, 10719), (339, 10731), (350, 10764), (380, 10842), (384, 10848), (394, 10878), (406, 10917), (419, 10950), (422, 10956), (432, 10983), (437, 10995), (440, 11004), (442, 11010), (460, 11058),

(472, 11082), (474, 11088), (486, 11124), (503, 11181), (559, 11346), (580, 11400), (630, 11478), (638, 11508), (639, 11511), (650, 11559), (675, 11649), (679, 11664), (700, 11706), (703, 11718), (710, 11733), (740, 11820), (743, 11829), (760, 11886),

Gene: Aries55_12 Start: 7552, Stop: 9657, Start Num: 32

Candidate Starts for Aries55_12:

(Start: 32 @7552 has 142 MA's), (Start: 38 @7573 has 3 MA's), (80, 7750), (81, 7759), (85, 7783), (101, 7855), (106, 7879), (109, 7885), (149, 8035), (156, 8056), (158, 8068), (160, 8077), (212, 8284), (218, 8302), (270, 8389), (298, 8458), (313, 8470), (328, 8518), (346, 8548), (350, 8563), (363, 8599), (374, 8626), (384, 8647), (392, 8671), (400, 8695), (402, 8701), (410, 8728), (426, 8761), (439, 8800), (449, 8827), (456, 8848), (462, 8863), (476, 8890), (477, 8893), (484, 8914), (487, 8926), (489, 8932), (503, 8980), (529, 9055), (531, 9064), (541, 9091), (550, 9112), (570, 9175), (580, 9199), (626, 9256), (653, 9361), (659, 9382), (661, 9394), (673, 9436), (682, 9457), (693, 9478),

Gene: Asa16_16 Start: 10703, Stop: 13027, Start Num: 14

Candidate Starts for Asa16_16:

(Start: 14 @10703 has 63 MA's), (52, 10856), (53, 10859), (54, 10868), (75, 10949), (87, 11009), (95, 11054), (113, 11126), (138, 11207), (139, 11210), (144, 11240), (158, 11294), (167, 11324), (181, 11381), (187, 11405), (201, 11465), (202, 11471), (211, 11495), (258, 11591), (329, 11690), (399, 11786), (410, 11819), (428, 11858), (444, 11906), (468, 11960), (482, 12002), (494, 12041), (499, 12059), (512, 12101), (547, 12194), (631, 12365), (635, 12380), (663, 12491), (709, 12623), (710, 12626), (720, 12659), (744, 12737), (755, 12776), (778, 12836), (795, 12926),

Gene: Ascela_16 Start: 10739, Stop: 13054, Start Num: 14

Candidate Starts for Ascela_16:

(Start: 14 @10739 has 63 MA's), (53, 10895), (56, 10913), (63, 10937), (75, 10985), (87, 11045), (95, 11090), (113, 11162), (139, 11246), (144, 11276), (158, 11330), (167, 11360), (181, 11417), (187, 11441), (201, 11501), (202, 11507), (329, 11726), (428, 11894), (444, 11942), (482, 12038), (494, 12077), (499, 12095), (512, 12137), (520, 12161), (541, 12218), (547, 12230), (586, 12341), (631, 12401), (635, 12416), (663, 12527), (701, 12638), (709, 12659), (710, 12662), (720, 12695), (744, 12773), (755, 12812), (785, 12902), (789, 12914), (807, 12998),

Gene: Ashes_16 Start: 10335, Stop: 12755, Start Num: 19

Candidate Starts for Ashes_16:

(Start: 19 @10335 has 21 MA's), (41, 10422), (65, 10527), (69, 10539), (81, 10599), (104, 10710), (126, 10791), (160, 10917), (164, 10932), (177, 10986), (226, 11160), (251, 11244), (258, 11265), (269, 11307), (305, 11433), (312, 11454), (321, 11487), (340, 11544), (353, 11586), (358, 11601), (379, 11652), (393, 11688), (395, 11694), (431, 11796), (439, 11817), (454, 11859), (470, 11919), (472, 11925), (487, 11973), (518, 12069), (580, 12246), (583, 12258), (597, 12309), (633, 12390), (650, 12459), (660, 12495), (686, 12576), (694, 12591), (719, 12663), (728, 12687),

Gene: Asta_17 Start: 9667, Stop: 11937, Start Num: 20

Candidate Starts for Asta_17:

(Start: 20 @9667 has 123 MA's), (47, 9784), (54, 9814), (71, 9874), (81, 9925), (85, 9949), (96, 10006), (120, 10093), (122, 10102), (146, 10186), (158, 10231), (168, 10258), (169, 10261), (191, 10351), (210, 10411), (232, 10468), (245, 10489), (287, 10585), (288, 10588), (304, 10630), (328, 10711), (336, 10732), (339, 10744), (350, 10777), (380, 10855), (384, 10861), (394, 10891), (406, 10930), (419, 10963), (422, 10969), (428, 10981), (432, 10996), (437, 11008), (440, 11017), (442, 11023), (460, 11071), (472, 11095), (474, 11101), (486, 11137), (503, 11194), (559, 11359), (580, 11413), (630, 11491), (638, 11521), (639, 11524), (650, 11572), (675, 11662), (679, 11677), (700, 11719), (703, 11731), (710, 11746), (740, 11833), (743, 11842), (760, 11899),

Gene: Astro16_12 Start: 7546, Stop: 9651, Start Num: 32

Candidate Starts for Astro16_12:

(Start: 32 @7546 has 142 MA's), (Start: 38 @7567 has 3 MA's), (80, 7744), (81, 7753), (85, 7777), (101, 7849), (106, 7873), (109, 7879), (149, 8029), (156, 8050), (158, 8062), (160, 8071), (212, 8278), (218, 8296), (270, 8383), (298, 8452), (313, 8464), (328, 8512), (346, 8542), (350, 8557), (363, 8593), (374, 8620), (384, 8641), (392, 8665), (400, 8689), (402, 8695), (410, 8722), (426, 8755), (439, 8794), (449, 8821), (456, 8842), (462, 8857), (476, 8884), (477, 8887), (484, 8908), (487, 8920), (489, 8926), (503, 8974), (529, 9049), (531, 9058), (541, 9085), (550, 9106), (570, 9169), (580, 9193), (626, 9250), (653, 9355), (659, 9376), (661, 9388), (673, 9430), (682, 9451), (693, 9472),

Gene: Atraxa_12 Start: 6894, Stop: 8744, Start Num: 30

Candidate Starts for Atraxa_12:

(Start: 30 @6894 has 5 MA's), (33, 6912), (35, 6918), (54, 6996), (70, 7050), (73, 7065), (75, 7077), (85, 7131), (101, 7203), (104, 7218), (111, 7239), (126, 7299), (137, 7326), (153, 7389), (177, 7494), (189, 7545), (195, 7566), (207, 7614), (211, 7623), (228, 7665), (234, 7680), (239, 7689), (265, 7743), (271, 7761), (283, 7785), (285, 7791), (295, 7812), (298, 7824), (312, 7836), (317, 7848), (331, 7878), (336, 7890), (360, 7932), (418, 8043), (429, 8067), (434, 8079), (443, 8097), (461, 8124), (496, 8154), (515, 8214), (546, 8298), (550, 8310), (560, 8346), (572, 8376), (595, 8448), (622, 8475), (624, 8487), (625, 8496), (628, 8508), (629, 8517), (647, 8589), (663, 8640), (665, 8646), (692, 8724),

Gene: Aubergine_17 Start: 9667, Stop: 11937, Start Num: 20

Candidate Starts for Aubergine_17:

(Start: 20 @9667 has 123 MA's), (47, 9784), (54, 9814), (71, 9874), (81, 9925), (85, 9949), (96, 10006), (120, 10093), (122, 10102), (146, 10186), (158, 10231), (168, 10258), (169, 10261), (191, 10351), (210, 10411), (232, 10468), (245, 10489), (287, 10585), (288, 10588), (304, 10630), (328, 10711), (336, 10732), (339, 10744), (350, 10777), (380, 10855), (384, 10861), (394, 10891), (406, 10930), (419, 10963), (422, 10969), (428, 10981), (432, 10996), (437, 11008), (440, 11017), (442, 11023), (460, 11071), (472, 11095), (474, 11101), (486, 11137), (503, 11194), (559, 11359), (580, 11413), (630, 11491), (638, 11521), (639, 11524), (650, 11572), (675, 11662), (679, 11677), (700, 11719), (703, 11731), (710, 11746), (740, 11833), (743, 11842), (760, 11899),

Gene: Audell_20 Start: 12894, Stop: 15182, Start Num: 11

Candidate Starts for Audell_20:

(Start: 11 @12894 has 8 MA's), (102, 13254), (103, 13257), (131, 13368), (132, 13371), (133, 13374), (168, 13512), (203, 13659), (319, 13830), (335, 13878), (432, 14010), (472, 14094), (476, 14106), (484, 14130), (496, 14172), (502, 14190), (506, 14202), (532, 14280), (534, 14283), (544, 14310), (551, 14328), (553, 14337), (560, 14361), (565, 14376), (567, 14382), (572, 14394), (573, 14400), (592, 14436), (600, 14466), (623, 14532), (660, 14688), (666, 14709), (667, 14712), (709, 14829), (710, 14832), (720, 14865), (755, 14982), (763, 15006), (797, 15123),

Gene: AustinPowers_14 Start: 9739, Stop: 12297, Start Num: 12

Candidate Starts for AustinPowers_14:

(Start: 12 @9739 has 84 MA's), (15, 9748), (22, 9778), (45, 9868), (72, 9964), (81, 10009), (84, 10027), (123, 10195), (151, 10291), (153, 10294), (156, 10309), (180, 10396), (197, 10462), (240, 10600), (241, 10603), (262, 10687), (373, 10993), (414, 11053), (423, 11071), (428, 11077), (439, 11110), (443, 11122), (460, 11158), (471, 11185), (479, 11209), (481, 11215), (499, 11272), (506, 11296), (509, 11305), (514, 11320), (522, 11344), (526, 11356), (534, 11377), (536, 11383), (544, 11404), (555, 11437), (560, 11455), (567, 11476), (569, 11482), (573, 11494), (588, 11527), (592, 11530), (596, 11542), (599, 11557), (600, 11560), (627, 11647), (648, 11737), (649, 11740), (663, 11791), (671, 11824), (678, 11848), (683, 11857), (709, 11923), (710, 11926), (726, 11980), (739, 12019), (753, 12067), (755, 12076), (763, 12100), (767, 12112), (795, 12208), (801, 12238),

Gene: Avvas_12 Start: 7552, Stop: 9657, Start Num: 32

Candidate Starts for Avvas_12:

(Start: 32 @7552 has 142 MA's), (Start: 38 @7573 has 3 MA's), (80, 7750), (81, 7759), (85, 7783), (101, 7855), (106, 7879), (109, 7885), (149, 8035), (156, 8056), (158, 8068), (160, 8077), (212, 8284), (218, 8302), (270, 8389), (298, 8458), (313, 8470), (328, 8518), (346, 8548), (350, 8563), (363, 8599), (374, 8626), (384, 8647), (392, 8671), (400, 8695), (402, 8701), (410, 8728), (426, 8761), (439, 8800), (449, 8827), (456, 8848), (462, 8863), (476, 8890), (477, 8893), (484, 8914), (487, 8926), (489, 8932), (503, 8980), (529, 9055), (531, 9064), (541, 9091), (550, 9112), (570, 9175), (580, 9199), (626, 9256), (653, 9361), (659, 9382), (661, 9394), (673, 9436), (682, 9457), (693, 9478),

Gene: AxiPup_17 Start: 9362, Stop: 11632, Start Num: 20

Candidate Starts for AxiPup_17:

(Start: 20 @9362 has 123 MA's), (47, 9479), (54, 9509), (81, 9620), (85, 9644), (96, 9701), (116, 9773), (120, 9788), (122, 9797), (146, 9881), (158, 9926), (169, 9956), (191, 10046), (210, 10106), (232, 10163), (245, 10184), (287, 10280), (288, 10283), (304, 10325), (328, 10406), (336, 10427), (339, 10439), (350, 10472), (384, 10556), (394, 10586), (406, 10625), (419, 10658), (422, 10664), (437, 10703), (440, 10712), (442, 10718), (455, 10754), (460, 10766), (474, 10796), (486, 10832), (503, 10889), (514, 10922), (535, 10982), (559, 11054), (630, 11186), (638, 11216), (639, 11219), (650, 11267), (662, 11309), (675, 11357), (679, 11372), (700, 11414), (710, 11441), (740, 11528), (743, 11537), (760, 11594),

Gene: AyoTeo_21 Start: 13467, Stop: 15455, Start Num: 24

Candidate Starts for AyoTeo_21:

(Start: 24 @13467 has 21 MA's), (36, 13506), (64, 13617), (69, 13632), (72, 13644), (113, 13836), (120, 13860), (132, 13902), (168, 14043), (185, 14109), (208, 14205), (296, 14316), (337, 14418), (350, 14442), (417, 14511), (433, 14544), (519, 14709), (547, 14742), (587, 14757), (592, 14769), (597, 14787), (637, 14901), (638, 14907), (727, 15162), (747, 15228), (766, 15288), (808, 15429),

Gene: Azizam_12 Start: 7534, Stop: 9639, Start Num: 32

Candidate Starts for Azizam_12:

(Start: 32 @7534 has 142 MA's), (Start: 38 @7555 has 3 MA's), (80, 7732), (81, 7741), (85, 7765), (101, 7837), (106, 7861), (109, 7867), (149, 8017), (156, 8038), (158, 8050), (160, 8059), (212, 8266), (218, 8284), (270, 8371), (298, 8440), (313, 8452), (328, 8500), (346, 8530), (350, 8545), (374, 8608), (384, 8629), (385, 8632), (402, 8683), (410, 8710), (426, 8743), (439, 8782), (449, 8809), (456, 8830), (462, 8845), (476, 8872), (484, 8896), (487, 8908), (489, 8914), (503, 8962), (531, 9046), (541, 9073), (550, 9094), (570, 9157), (580, 9181), (587, 9205), (624, 9226), (653, 9343), (659, 9364), (661, 9376), (673, 9418), (682, 9439), (693, 9460), (745, 9589),

Gene: Aztec_12 Start: 7540, Stop: 9645, Start Num: 32

Candidate Starts for Aztec_12:

(Start: 32 @7540 has 142 MA's), (Start: 38 @7561 has 3 MA's), (80, 7738), (81, 7747), (85, 7771), (101, 7843), (106, 7867), (109, 7873), (149, 8023), (156, 8044), (158, 8056), (160, 8065), (212, 8272), (218, 8290), (270, 8377), (298, 8446), (313, 8458), (328, 8506), (346, 8536), (350, 8551), (363, 8587), (374, 8614), (384, 8635), (392, 8659), (400, 8683), (402, 8689), (410, 8716), (426, 8749), (439, 8788), (449, 8815), (456, 8836), (462, 8851), (476, 8878), (477, 8881), (484, 8902), (487, 8914), (489, 8920), (503, 8968), (515, 9004), (531, 9052), (541, 9079), (550, 9100), (570, 9163), (580, 9187), (626, 9244), (653, 9349), (659, 9370), (661, 9382), (673, 9424), (682, 9445), (693, 9466), (745, 9595),

Gene: Baine_12 Start: 7538, Stop: 9646, Start Num: 32

Candidate Starts for Baine_12:

(Start: 32 @7538 has 142 MA's), (Start: 38 @7559 has 3 MA's), (80, 7736), (81, 7745), (85, 7769), (101, 7841), (106, 7865), (109, 7871), (137, 7964), (149, 8021), (156, 8042), (158, 8054), (160, 8063), (212, 8270), (218, 8288), (270, 8375), (298, 8444), (313, 8456), (328, 8504), (346, 8534), (350, 8549), (363, 8585), (374, 8612), (392, 8657), (400, 8681), (402, 8687), (410, 8714), (426, 8747), (439, 8786), (449, 8813), (456, 8834), (462, 8849), (476, 8876), (477, 8879), (487, 8912), (489, 8918), (503, 8966),

(515, 9002), (531, 9050), (541, 9077), (550, 9098), (570, 9161), (580, 9185), (626, 9242), (653, 9347), (659, 9368), (661, 9380), (673, 9422), (693, 9464), (745, 9596),

Gene: Baines_17 Start: 9652, Stop: 11922, Start Num: 20

Candidate Starts for Baines_17:

(Start: 20 @9652 has 123 MA's), (47, 9769), (54, 9799), (71, 9859), (81, 9910), (85, 9934), (96, 9991), (116, 10063), (120, 10078), (122, 10087), (146, 10171), (158, 10216), (169, 10246), (191, 10336), (210, 10396), (232, 10453), (245, 10474), (287, 10570), (288, 10573), (304, 10615), (328, 10696), (336, 10717), (339, 10729), (350, 10762), (384, 10846), (394, 10876), (406, 10915), (419, 10948), (422, 10954), (432, 10981), (437, 10993), (440, 11002), (442, 11008), (455, 11044), (460, 11056), (474, 11086), (486, 11122), (487, 11125), (503, 11179), (535, 11272), (559, 11344), (580, 11398), (630, 11476), (638, 11506), (639, 11509), (650, 11557), (656, 11575), (665, 11608), (675, 11647), (679, 11662), (700, 11704), (732, 11791), (740, 11818), (760, 11884),

Gene: Balsa_17 Start: 9771, Stop: 12038, Start Num: 20

Candidate Starts for Balsa_17:

(Start: 20 @9771 has 123 MA's), (54, 9918), (72, 9981), (81, 10029), (85, 10053), (96, 10110), (99, 10119), (116, 10182), (118, 10191), (120, 10197), (122, 10206), (146, 10290), (158, 10335), (169, 10365), (191, 10455), (210, 10515), (232, 10572), (245, 10593), (287, 10689), (288, 10692), (292, 10704), (308, 10749), (328, 10815), (336, 10836), (339, 10848), (350, 10881), (384, 10965), (394, 10995), (404, 11025), (406, 11034), (410, 11046), (432, 11100), (440, 11121), (442, 11127), (460, 11175), (471, 11196), (486, 11241), (503, 11298), (535, 11391), (580, 11517), (630, 11595), (638, 11625), (639, 11628), (650, 11676), (675, 11766), (679, 11781), (695, 11811), (740, 11934), (743, 11943), (760, 12000),

Gene: Bandik_17 Start: 9358, Stop: 11628, Start Num: 20

Candidate Starts for Bandik_17:

(Start: 20 @9358 has 123 MA's), (47, 9475), (54, 9505), (71, 9565), (81, 9616), (85, 9640), (96, 9697), (120, 9784), (122, 9793), (146, 9877), (158, 9922), (168, 9949), (169, 9952), (191, 10042), (210, 10102), (232, 10159), (245, 10180), (287, 10276), (288, 10279), (292, 10291), (304, 10321), (328, 10402), (336, 10423), (339, 10435), (350, 10468), (374, 10531), (380, 10546), (384, 10552), (394, 10582), (406, 10621), (419, 10654), (422, 10660), (428, 10672), (432, 10687), (437, 10699), (440, 10708), (442, 10714), (460, 10762), (486, 10828), (503, 10885), (559, 11050), (580, 11104), (630, 11182), (638, 11212), (639, 11215), (650, 11263), (675, 11353), (679, 11368), (703, 11422), (710, 11437), (740, 11524), (743, 11533), (760, 11590),

Gene: BarBear_12 Start: 7546, Stop: 9651, Start Num: 32

Candidate Starts for BarBear_12:

(Start: 32 @7546 has 142 MA's), (Start: 38 @7567 has 3 MA's), (80, 7744), (81, 7753), (85, 7777), (101, 7849), (106, 7873), (109, 7879), (149, 8029), (156, 8050), (158, 8062), (160, 8071), (212, 8278), (218, 8296), (270, 8383), (298, 8452), (313, 8464), (328, 8512), (346, 8542), (350, 8557), (363, 8593), (374, 8620), (384, 8641), (392, 8665), (400, 8689), (402, 8695), (410, 8722), (426, 8755), (439, 8794), (449, 8821), (456, 8842), (462, 8857), (476, 8884), (477, 8887), (484, 8908), (487, 8920), (489, 8926), (503, 8974), (529, 9049), (531, 9058), (541, 9085), (550, 9106), (570, 9169), (580, 9193), (626, 9250), (653, 9355), (659, 9376), (661, 9388), (673, 9430), (682, 9451), (693, 9472),

Gene: Barebow_11 Start: 7078, Stop: 9282, Start Num: 30

Candidate Starts for Barebow_11:

(Start: 30 @7078 has 5 MA's), (36, 7105), (77, 7273), (80, 7285), (81, 7294), (137, 7513), (142, 7534), (143, 7546), (155, 7588), (160, 7612), (172, 7663), (216, 7831), (285, 7963), (312, 8017), (344, 8107), (394, 8245), (404, 8275), (428, 8329), (444, 8377), (449, 8389), (469, 8428), (472, 8437), (483, 8470), (521, 8590), (536, 8632), (546, 8653), (573, 8737), (639, 8872), (676, 9013), (679, 9025), (692, 9055), (735, 9172), (739, 9187), (743, 9199),

Gene: Barnstormer_14 Start: 9927, Stop: 12275, Start Num: 21

Candidate Starts for Barnstormer_14:

(Start: 21 @9927 has 86 MA's), (65, 10110), (85, 10206), (111, 10314), (126, 10374), (177, 10569), (192, 10632), (214, 10716), (218, 10728), (220, 10731), (241, 10782), (254, 10833), (279, 10920), (295, 10980), (302, 11004), (325, 11085), (345, 11145), (351, 11166), (374, 11226), (384, 11247), (387, 11256), (404, 11307), (436, 11394), (439, 11403), (477, 11499), (479, 11505), (489, 11538), (519, 11634), (531, 11673), (580, 11811), (627, 11874), (656, 11985), (688, 12090), (703, 12126),

Gene: BaronJohn_18 Start: 9870, Stop: 12311, Start Num: 21

Candidate Starts for BaronJohn_18:

(Start: 21 @9870 has 86 MA's), (Start: 30 @9903 has 5 MA's), (78, 10104), (85, 10146), (96, 10203), (102, 10221), (108, 10245), (122, 10299), (127, 10320), (146, 10383), (158, 10428), (173, 10470), (178, 10488), (191, 10539), (222, 10635), (245, 10695), (258, 10737), (273, 10761), (287, 10791), (288, 10794), (291, 10803), (308, 10851), (310, 10857), (341, 10956), (347, 10971), (353, 10992), (384, 11067), (385, 11070), (404, 11127), (415, 11157), (442, 11229), (453, 11259), (456, 11268), (472, 11301), (474, 11307), (479, 11319), (489, 11352), (494, 11367), (503, 11400), (514, 11433), (525, 11463), (529, 11475), (574, 11607), (590, 11655), (591, 11661), (594, 11673), (613, 11742), (616, 11751), (630, 11829), (638, 11859), (678, 12012), (679, 12015), (685, 12027), (709, 12090), (715, 12108), (730, 12153), (747, 12213), (774, 12294), (776, 12297),

Gene: Beaupre_16 Start: 10336, Stop: 12756, Start Num: 19

Candidate Starts for Beaupre_16:

(Start: 19 @10336 has 21 MA's), (41, 10423), (65, 10528), (69, 10540), (81, 10600), (104, 10711), (126, 10792), (160, 10918), (164, 10933), (177, 10987), (226, 11161), (251, 11245), (258, 11266), (269, 11308), (305, 11434), (312, 11455), (321, 11488), (340, 11545), (353, 11587), (358, 11602), (379, 11653), (393, 11689), (395, 11695), (431, 11797), (439, 11818), (454, 11860), (470, 11920), (472, 11926), (487, 11974), (518, 12070), (572, 12226), (580, 12247), (583, 12259), (597, 12310), (650, 12460), (660, 12496), (686, 12577), (719, 12664), (728, 12688),

Gene: BeautPeep30_17 Start: 9364, Stop: 11634, Start Num: 20

Candidate Starts for BeautPeep30_17:

(Start: 20 @9364 has 123 MA's), (47, 9481), (54, 9511), (71, 9571), (81, 9622), (85, 9646), (96, 9703), (120, 9790), (122, 9799), (146, 9883), (158, 9928), (168, 9955), (169, 9958), (191, 10048), (210, 10108), (232, 10165), (245, 10186), (287, 10282), (288, 10285), (304, 10327), (328, 10408), (336, 10429), (339, 10441), (350, 10474), (380, 10552), (384, 10558), (394, 10588), (406, 10627), (419, 10660), (422, 10666), (428, 10678), (432, 10693), (437, 10705), (440, 10714), (442, 10720), (460, 10768), (486, 10834), (503, 10891), (559, 11056), (580, 11110), (630, 11188), (638, 11218), (639, 11221), (650, 11269), (675, 11359), (679, 11374), (700, 11416), (703, 11428), (710, 11443), (740, 11530), (743, 11539), (760, 11596),

Gene: BeeBee8_18 Start: 9934, Stop: 12201, Start Num: 20

Candidate Starts for BeeBee8_18:

(Start: 20 @9934 has 123 MA's), (54, 10081), (72, 10144), (81, 10192), (85, 10216), (96, 10273), (99, 10282), (116, 10345), (118, 10354), (120, 10360), (122, 10369), (146, 10453), (158, 10498), (169, 10528), (191, 10618), (210, 10678), (232, 10735), (245, 10756), (287, 10852), (288, 10855), (292, 10867), (308, 10912), (328, 10978), (336, 10999), (339, 11011), (350, 11044), (384, 11128), (394, 11158), (406, 11197), (410, 11209), (432, 11263), (440, 11284), (442, 11290), (460, 11338), (471, 11359), (486, 11404), (503, 11461), (535, 11554), (580, 11680), (630, 11758), (638, 11788), (639, 11791), (650, 11839), (675, 11929), (679, 11944), (695, 11974), (740, 12097), (743, 12106), (760, 12163),

Gene: Beethoven_18 Start: 12567, Stop: 15128, Start Num: 12

Candidate Starts for Beethoven_18:

(6, 12546), (Start: 12 @12567 has 84 MA's), (26, 12615), (34, 12648), (45, 12696), (53, 12720), (55, 12732), (72, 12792), (82, 12840), (84, 12855), (85, 12861), (113, 12981), (123, 13023), (151, 13119), (153, 13122), (163, 13152), (175, 13206), (212, 13347), (218, 13368), (226, 13392), (233, 13413), (237, 13422), (250, 13473), (257, 13491), (313, 13677), (373, 13821), (402, 13854), (414, 13881), (423, 13899), (428, 13905), (436, 13929), (439, 13938), (460, 13986), (471, 14013), (481, 14043), (483, 14049), (499, 14100), (503, 14115), (507, 14127), (509, 14133), (510, 14136), (513, 14145), (522, 14172), (526, 14184), (529, 14193), (534, 14205), (536, 14211), (544, 14232), (552, 14256), (555, 14265), (566, 14301), (567, 14304), (573, 14322), (588, 14355), (592, 14358), (594, 14367), (596, 14370), (599, 14385), (627, 14475), (663, 14619), (672, 14655), (709, 14751), (710, 14754), (726, 14808), (739, 14847), (753, 14895), (755, 14904), (763, 14928), (770, 14946), (788, 14997), (793, 15021), (795, 15039), (801, 15069),

Gene: Belthelas_12 Start: 7590, Stop: 9695, Start Num: 32

Candidate Starts for Belthelas_12:

(Start: 32 @7590 has 142 MA's), (Start: 38 @7611 has 3 MA's), (80, 7788), (81, 7797), (85, 7821), (101, 7893), (106, 7917), (109, 7923), (137, 8016), (149, 8073), (156, 8094), (158, 8106), (160, 8115), (212, 8322), (218, 8340), (270, 8427), (298, 8496), (313, 8508), (328, 8556), (346, 8586), (350, 8601), (363, 8637), (374, 8664), (385, 8688), (392, 8709), (400, 8733), (402, 8739), (410, 8766), (426, 8799), (439, 8838), (449, 8865), (456, 8886), (462, 8901), (476, 8928), (477, 8931), (484, 8952), (487, 8964), (489, 8970), (503, 9018), (515, 9054), (531, 9102), (541, 9129), (550, 9150), (570, 9213), (580, 9237), (626, 9294), (653, 9399), (659, 9420), (661, 9432), (673, 9474), (682, 9495), (693, 9516), (745, 9645),

Gene: Benjalauren_17 Start: 9654, Stop: 11924, Start Num: 20

Candidate Starts for Benjalauren_17:

(Start: 20 @9654 has 123 MA's), (47, 9771), (54, 9801), (71, 9861), (81, 9912), (85, 9936), (96, 9993), (120, 10080), (122, 10089), (146, 10173), (158, 10218), (168, 10245), (169, 10248), (191, 10338), (210, 10398), (232, 10455), (245, 10476), (287, 10572), (288, 10575), (304, 10617), (328, 10698), (336, 10719), (339, 10731), (350, 10764), (380, 10842), (384, 10848), (394, 10878), (406, 10917), (419, 10950), (422, 10956), (428, 10968), (432, 10983), (437, 10995), (440, 11004), (442, 11010), (460, 11058), (472, 11082), (474, 11088), (486, 11124), (503, 11181), (559, 11346), (580, 11400), (630, 11478), (638, 11508), (639, 11511), (650, 11559), (675, 11649), (679, 11664), (700, 11706), (703, 11718), (710, 11733), (740, 11820), (743, 11829), (760, 11886),

Gene: Bennie_14 Start: 9720, Stop: 12287, Start Num: 12

Candidate Starts for Bennie_14:

(6, 9699), (Start: 12 @9720 has 84 MA's), (26, 9768), (45, 9849), (53, 9873), (72, 9945), (82, 9993), (84, 10008), (85, 10014), (123, 10176), (149, 10269), (151, 10272), (153, 10275), (163, 10305), (176, 10362), (212, 10500), (218, 10521), (233, 10566), (243, 10593), (250, 10626), (257, 10644), (269, 10686), (284, 10743), (402, 11007), (414, 11034), (423, 11052), (428, 11058), (436, 11082), (443, 11103), (460, 11139), (471, 11166), (481, 11196), (483, 11202), (499, 11253), (509, 11286), (522, 11325), (524, 11331), (526, 11337), (529, 11346), (534, 11358), (536, 11364), (546, 11388), (552, 11409), (555, 11418), (567, 11457), (573, 11475), (588, 11508), (592, 11511), (596, 11523), (599, 11538), (616, 11589), (626, 11622), (629, 11640), (636, 11664), (644, 11706), (663, 11772), (666, 11784), (678, 11829), (709, 11904), (710, 11907), (726, 11961), (739, 12000), (746, 12027), (755, 12057), (760, 12069), (763, 12081), (766, 12090), (788, 12156), (795, 12198), (801, 12228),

Gene: Benry_19 Start: 11509, Stop: 13800, Start Num: 24

Candidate Starts for Benry_19:

(Start: 24 @11509 has 21 MA's), (55, 11626), (64, 11659), (94, 11800), (113, 11878), (120, 11902), (154, 12034), (168, 12085), (180, 12136), (186, 12157), (204, 12235), (214, 12271), (215, 12274), (229, 12295), (292, 12352), (329, 12436), (349, 12481), (350, 12484), (370, 12502), (402, 12520), (412, 12544), (482, 12706), (502, 12772), (513, 12805), (520, 12826), (532, 12859), (534, 12862),

(592, 13030), (597, 13048), (602, 13069), (625, 13147), (633, 13180), (658, 13279), (667, 13315), (668, 13321), (676, 13348), (691, 13387), (709, 13432), (713, 13444), (717, 13456), (719, 13465), (720, 13468), (755, 13582), (773, 13633), (777, 13639), (780, 13648),

Gene: Berrie_16 Start: 10711, Stop: 13188, Start Num: 14

Candidate Starts for Berrie_16:

(Start: 14 @10711 has 63 MA's), (53, 10867), (54, 10876), (75, 10957), (87, 11017), (95, 11062), (113, 11134), (139, 11218), (144, 11248), (158, 11302), (167, 11332), (181, 11389), (187, 11413), (201, 11473), (202, 11479), (211, 11503), (238, 11581), (298, 11713), (316, 11749), (329, 11791), (368, 11890), (401, 11962), (417, 12001), (428, 12028), (444, 12076), (468, 12130), (482, 12172), (493, 12208), (499, 12229), (512, 12271), (547, 12364), (586, 12475), (598, 12487), (631, 12535), (635, 12550), (709, 12793), (710, 12796), (744, 12907), (755, 12946), (781, 13021), (785, 13036), (807, 13132),

Gene: BigMack_14 Start: 9716, Stop: 12277, Start Num: 12

Candidate Starts for BigMack_14:

(6, 9695), (Start: 12 @9716 has 84 MA's), (26, 9764), (45, 9845), (53, 9869), (72, 9941), (82, 9989), (84, 10004), (85, 10010), (113, 10130), (123, 10172), (149, 10265), (151, 10268), (153, 10271), (163, 10301), (212, 10496), (218, 10517), (233, 10562), (250, 10622), (257, 10640), (335, 10892), (402, 11003), (414, 11030), (423, 11048), (428, 11054), (436, 11078), (439, 11087), (460, 11135), (471, 11162), (472, 11165), (481, 11192), (483, 11198), (486, 11210), (499, 11249), (503, 11264), (507, 11276), (509, 11282), (510, 11285), (513, 11294), (522, 11321), (524, 11327), (526, 11333), (529, 11342), (534, 11354), (536, 11360), (537, 11363), (555, 11414), (566, 11450), (567, 11453), (588, 11504), (592, 11507), (594, 11516), (596, 11519), (599, 11534), (626, 11618), (651, 11726), (663, 11768), (709, 11900), (710, 11903), (726, 11957), (739, 11996), (753, 12044), (755, 12053), (763, 12077), (788, 12146), (789, 12152), (801, 12218),

Gene: BigRedClifford_17 Start: 9362, Stop: 11632, Start Num: 20

Candidate Starts for BigRedClifford_17:

(Start: 20 @9362 has 123 MA's), (47, 9479), (54, 9509), (71, 9569), (81, 9620), (85, 9644), (96, 9701), (116, 9773), (120, 9788), (122, 9797), (146, 9881), (158, 9926), (169, 9956), (191, 10046), (210, 10106), (232, 10163), (245, 10184), (287, 10280), (288, 10283), (304, 10325), (328, 10406), (336, 10427), (339, 10439), (350, 10472), (384, 10556), (394, 10586), (406, 10625), (419, 10658), (422, 10664), (437, 10703), (440, 10712), (442, 10718), (455, 10754), (460, 10766), (474, 10796), (486, 10832), (503, 10889), (514, 10922), (535, 10982), (559, 11054), (580, 11108), (630, 11186), (638, 11216), (639, 11219), (650, 11267), (665, 11318), (675, 11357), (679, 11372), (700, 11414), (710, 11441), (740, 11528), (743, 11537), (760, 11594),

Gene: BinkBonk_12 Start: 7546, Stop: 9651, Start Num: 32

Candidate Starts for BinkBonk_12:

(Start: 32 @7546 has 142 MA's), (Start: 38 @7567 has 3 MA's), (80, 7744), (81, 7753), (85, 7777), (101, 7849), (106, 7873), (109, 7879), (149, 8029), (156, 8050), (158, 8062), (160, 8071), (212, 8278), (218, 8296), (270, 8383), (298, 8452), (313, 8464), (328, 8512), (346, 8542), (350, 8557), (363, 8593), (374, 8620), (384, 8641), (392, 8665), (400, 8689), (402, 8695), (410, 8722), (426, 8755), (439, 8794), (449, 8821), (456, 8842), (462, 8857), (476, 8884), (477, 8887), (484, 8908), (487, 8920), (489, 8926), (503, 8974), (529, 9049), (531, 9058), (541, 9085), (550, 9106), (570, 9169), (580, 9193), (626, 9250), (653, 9355), (659, 9376), (661, 9388), (673, 9430), (682, 9451), (693, 9472),

Gene: Bintii_12 Start: 7572, Stop: 9677, Start Num: 32

Candidate Starts for Bintii_12:

(6, 7476), (Start: 32 @7572 has 142 MA's), (Start: 38 @7593 has 3 MA's), (80, 7770), (81, 7779), (85, 7803), (101, 7875), (106, 7899), (137, 7998), (156, 8076), (158, 8088), (160, 8097), (212, 8304), (218, 8322), (270, 8409), (298, 8478), (313, 8490), (328, 8538), (346, 8568), (350, 8583), (370, 8637), (384,

8667), (385, 8670), (392, 8691), (402, 8721), (410, 8748), (426, 8781), (439, 8820), (449, 8847), (451, 8853), (456, 8868), (462, 8883), (476, 8910), (477, 8913), (484, 8934), (487, 8946), (489, 8952), (503, 9000), (515, 9036), (531, 9084), (541, 9111), (550, 9132), (570, 9195), (580, 9219), (626, 9276), (653, 9381), (659, 9402), (661, 9414), (673, 9456), (682, 9477), (693, 9498),

Gene: Biscayne_12 Start: 7608, Stop: 9713, Start Num: 32

Candidate Starts for Biscayne_12:

(Start: 32 @7608 has 142 MA's), (Start: 38 @7629 has 3 MA's), (80, 7806), (81, 7815), (85, 7839), (101, 7911), (106, 7935), (109, 7941), (149, 8091), (156, 8112), (158, 8124), (160, 8133), (212, 8340), (218, 8358), (270, 8445), (298, 8514), (313, 8526), (328, 8574), (346, 8604), (350, 8619), (363, 8655), (374, 8682), (384, 8703), (392, 8727), (400, 8751), (402, 8757), (410, 8784), (426, 8817), (439, 8856), (449, 8883), (456, 8904), (462, 8919), (476, 8946), (477, 8949), (484, 8970), (487, 8982), (489, 8988), (503, 9036), (531, 9120), (541, 9147), (550, 9168), (570, 9231), (580, 9255), (626, 9312), (653, 9417), (659, 9438), (661, 9450), (673, 9492), (682, 9513), (693, 9534), (745, 9663),

Gene: Blage_17 Start: 9362, Stop: 11632, Start Num: 20

Candidate Starts for Blage_17:

(Start: 20 @9362 has 123 MA's), (47, 9479), (54, 9509), (71, 9569), (81, 9620), (85, 9644), (96, 9701), (116, 9773), (120, 9788), (122, 9797), (146, 9881), (158, 9926), (169, 9956), (191, 10046), (210, 10106), (232, 10163), (245, 10184), (287, 10280), (288, 10283), (304, 10325), (328, 10406), (336, 10427), (339, 10439), (350, 10472), (384, 10556), (394, 10586), (406, 10625), (419, 10658), (422, 10664), (437, 10703), (440, 10712), (442, 10718), (455, 10754), (460, 10766), (474, 10796), (486, 10832), (503, 10889), (514, 10922), (535, 10982), (559, 11054), (580, 11108), (630, 11186), (638, 11216), (639, 11219), (650, 11267), (665, 11318), (675, 11357), (679, 11372), (700, 11414), (710, 11441), (740, 11528), (743, 11537), (760, 11594),

Gene: Bodacious_14 Start: 9717, Stop: 12278, Start Num: 12

Candidate Starts for Bodacious_14:

(6, 9696), (Start: 12 @9717 has 84 MA's), (26, 9765), (45, 9846), (53, 9870), (72, 9942), (82, 9990), (84, 10005), (85, 10011), (113, 10131), (123, 10173), (151, 10269), (153, 10272), (163, 10302), (197, 10440), (218, 10518), (233, 10563), (237, 10572), (250, 10623), (257, 10641), (260, 10653), (267, 10677), (335, 10893), (391, 10983), (402, 11004), (414, 11031), (423, 11049), (428, 11055), (436, 11079), (439, 11088), (460, 11136), (471, 11163), (481, 11193), (499, 11250), (503, 11265), (507, 11277), (509, 11283), (510, 11286), (513, 11295), (522, 11322), (526, 11334), (529, 11343), (534, 11355), (536, 11361), (546, 11385), (552, 11406), (555, 11415), (559, 11430), (567, 11454), (588, 11505), (592, 11508), (596, 11520), (618, 11595), (627, 11625), (636, 11661), (663, 11769), (666, 11781), (672, 11805), (709, 11901), (710, 11904), (720, 11937), (726, 11958), (739, 11997), (744, 12015), (753, 12045), (755, 12054), (763, 12078), (789, 12153), (801, 12219),

Gene: Bodhi17_12 Start: 7533, Stop: 9638, Start Num: 32

Candidate Starts for Bodhi17_12:

(Start: 32 @7533 has 142 MA's), (Start: 38 @7554 has 3 MA's), (80, 7731), (81, 7740), (85, 7764), (101, 7836), (106, 7860), (109, 7866), (137, 7959), (149, 8016), (156, 8037), (158, 8049), (160, 8058), (212, 8265), (218, 8283), (270, 8370), (298, 8439), (313, 8451), (328, 8499), (346, 8529), (350, 8544), (363, 8580), (374, 8607), (385, 8631), (392, 8652), (400, 8676), (402, 8682), (410, 8709), (426, 8742), (439, 8781), (449, 8808), (456, 8829), (462, 8844), (476, 8871), (477, 8874), (487, 8907), (489, 8913), (503, 8961), (515, 8997), (531, 9045), (541, 9072), (550, 9093), (570, 9156), (580, 9180), (626, 9237), (653, 9342), (659, 9363), (661, 9375), (673, 9417), (682, 9438), (693, 9459), (745, 9588),

Gene: BonaeVitae_12 Start: 7240, Stop: 9339, Start Num: 32

Candidate Starts for BonaeVitae_12:

(Start: 32 @7240 has 142 MA's), (36, 7255), (Start: 38 @7261 has 3 MA's), (51, 7321), (65, 7375), (80, 7438), (81, 7447), (85, 7471), (101, 7543), (106, 7567), (137, 7666), (149, 7723), (158, 7756), (160,

7765), (235, 8032), (270, 8077), (311, 8149), (319, 8179), (346, 8236), (350, 8251), (377, 8320), (394, 8365), (400, 8383), (402, 8389), (426, 8449), (428, 8455), (432, 8470), (439, 8488), (449, 8515), (468, 8557), (484, 8602), (489, 8620), (497, 8647), (526, 8734), (531, 8752), (541, 8779), (556, 8821), (570, 8863), (572, 8866), (580, 8887), (639, 8998), (659, 9070), (661, 9082), (669, 9112), (673, 9124), (682, 9145), (734, 9253), (745, 9289),

Gene: BonesMcCoy_17 Start: 9362, Stop: 11632, Start Num: 20

Candidate Starts for BonesMcCoy_17:

(Start: 20 @9362 has 123 MA's), (47, 9479), (54, 9509), (81, 9620), (85, 9644), (96, 9701), (116, 9773), (120, 9788), (122, 9797), (146, 9881), (158, 9926), (169, 9956), (191, 10046), (210, 10106), (232, 10163), (245, 10184), (287, 10280), (288, 10283), (304, 10325), (328, 10406), (336, 10427), (339, 10439), (350, 10472), (384, 10556), (394, 10586), (406, 10625), (419, 10658), (422, 10664), (437, 10703), (440, 10712), (442, 10718), (455, 10754), (460, 10766), (474, 10796), (486, 10832), (503, 10889), (514, 10922), (535, 10982), (559, 11054), (630, 11186), (638, 11216), (639, 11219), (650, 11267), (662, 11309), (675, 11357), (679, 11372), (700, 11414), (710, 11441), (740, 11528), (743, 11537), (760, 11594),

Gene: Bonino_17 Start: 9644, Stop: 11914, Start Num: 20

Candidate Starts for Bonino_17:

(Start: 20 @9644 has 123 MA's), (47, 9761), (54, 9791), (71, 9851), (81, 9902), (85, 9926), (96, 9983), (120, 10070), (122, 10079), (146, 10163), (158, 10208), (168, 10235), (169, 10238), (191, 10328), (210, 10388), (232, 10445), (245, 10466), (287, 10562), (288, 10565), (304, 10607), (328, 10688), (336, 10709), (339, 10721), (350, 10754), (380, 10832), (384, 10838), (394, 10868), (406, 10907), (419, 10940), (422, 10946), (428, 10958), (432, 10973), (437, 10985), (440, 10994), (442, 11000), (460, 11048), (472, 11072), (474, 11078), (486, 11114), (503, 11171), (559, 11336), (580, 11390), (630, 11468), (638, 11498), (639, 11501), (650, 11549), (675, 11639), (679, 11654), (700, 11696), (703, 11708), (710, 11723), (740, 11810), (743, 11819), (760, 11876),

Gene: BoomRoasted_12 Start: 7587, Stop: 9692, Start Num: 32

Candidate Starts for BoomRoasted_12:

(Start: 32 @7587 has 142 MA's), (Start: 38 @7608 has 3 MA's), (80, 7785), (81, 7794), (85, 7818), (101, 7890), (106, 7914), (109, 7920), (137, 8013), (149, 8070), (156, 8091), (158, 8103), (160, 8112), (212, 8319), (218, 8337), (270, 8424), (298, 8493), (313, 8505), (328, 8553), (346, 8583), (350, 8598), (363, 8634), (374, 8661), (385, 8685), (392, 8706), (400, 8730), (402, 8736), (410, 8763), (426, 8796), (439, 8835), (449, 8862), (456, 8883), (462, 8898), (476, 8925), (477, 8928), (484, 8949), (487, 8961), (489, 8967), (503, 9015), (515, 9051), (531, 9099), (541, 9126), (550, 9147), (570, 9210), (580, 9234), (626, 9291), (653, 9396), (659, 9417), (661, 9429), (673, 9471), (682, 9492), (693, 9513), (745, 9642),

Gene: BouleyBill_17 Start: 9595, Stop: 12003, Start Num: 21

Candidate Starts for BouleyBill_17:

(Start: 21 @9595 has 86 MA's), (47, 9709), (56, 9748), (71, 9799), (72, 9802), (81, 9850), (85, 9874), (96, 9931), (108, 9973), (120, 10018), (122, 10027), (146, 10111), (158, 10156), (169, 10186), (176, 10219), (179, 10228), (188, 10264), (191, 10276), (210, 10336), (232, 10393), (245, 10414), (287, 10510), (288, 10513), (292, 10525), (308, 10570), (328, 10636), (333, 10648), (336, 10657), (337, 10663), (354, 10714), (374, 10765), (375, 10768), (394, 10816), (419, 10888), (430, 10912), (442, 10948), (487, 11065), (503, 11119), (514, 11152), (525, 11182), (559, 11284), (570, 11314), (574, 11326), (580, 11338), (592, 11383), (598, 11404), (603, 11425), (611, 11458), (616, 11470), (618, 11479), (619, 11482), (622, 11503), (638, 11578), (639, 11581), (650, 11629), (675, 11719), (695, 11767), (707, 11803), (712, 11815), (740, 11899), (743, 11908), (760, 11965),

Gene: Bradley2_12 Start: 7539, Stop: 9644, Start Num: 32

Candidate Starts for Bradley2_12:

(Start: 32 @7539 has 142 MA's), (Start: 38 @7560 has 3 MA's), (80, 7737), (81, 7746), (85, 7770), (101, 7842), (106, 7866), (109, 7872), (149, 8022), (156, 8043), (158, 8055), (160, 8064), (212, 8271), (218, 8289), (270, 8376), (298, 8445), (313, 8457), (328, 8505), (346, 8535), (350, 8550), (363, 8586), (374, 8613), (384, 8634), (392, 8658), (400, 8682), (402, 8688), (410, 8715), (426, 8748), (439, 8787), (449, 8814), (456, 8835), (462, 8850), (476, 8877), (477, 8880), (484, 8901), (487, 8913), (489, 8919), (503, 8967), (515, 9003), (531, 9051), (541, 9078), (550, 9099), (570, 9162), (580, 9186), (626, 9243), (653, 9348), (659, 9369), (661, 9381), (673, 9423), (682, 9444), (693, 9465), (745, 9594),

Gene: Bri160_12 Start: 7586, Stop: 9691, Start Num: 32

Candidate Starts for Bri160_12:

(Start: 32 @7586 has 142 MA's), (Start: 38 @7607 has 3 MA's), (80, 7784), (81, 7793), (85, 7817), (101, 7889), (106, 7913), (109, 7919), (137, 8012), (149, 8069), (156, 8090), (158, 8102), (160, 8111), (212, 8318), (218, 8336), (270, 8423), (298, 8492), (313, 8504), (328, 8552), (346, 8582), (350, 8597), (363, 8633), (374, 8660), (385, 8684), (392, 8705), (400, 8729), (402, 8735), (410, 8762), (426, 8795), (439, 8834), (449, 8861), (456, 8882), (462, 8897), (476, 8924), (477, 8927), (484, 8948), (487, 8960), (489, 8966), (503, 9014), (515, 9050), (531, 9098), (541, 9125), (550, 9146), (570, 9209), (580, 9233), (626, 9290), (653, 9395), (659, 9416), (661, 9428), (673, 9470), (682, 9491), (693, 9512), (745, 9641),

Gene: BrokMonster_12 Start: 7529, Stop: 9634, Start Num: 32

Candidate Starts for BrokMonster_12:

(Start: 32 @7529 has 142 MA's), (Start: 38 @7550 has 3 MA's), (80, 7727), (81, 7736), (85, 7760), (101, 7832), (106, 7856), (109, 7862), (137, 7955), (149, 8012), (156, 8033), (158, 8045), (160, 8054), (212, 8261), (218, 8279), (270, 8366), (298, 8435), (313, 8447), (328, 8495), (346, 8525), (350, 8540), (374, 8603), (384, 8624), (385, 8627), (402, 8678), (410, 8705), (426, 8738), (439, 8777), (449, 8804), (456, 8825), (462, 8840), (476, 8867), (484, 8891), (487, 8903), (489, 8909), (503, 8957), (531, 9041), (541, 9068), (550, 9089), (570, 9152), (580, 9176), (626, 9233), (653, 9338), (659, 9359), (661, 9371), (673, 9413), (682, 9434), (693, 9455), (745, 9584),

Gene: BrotherBLo_18 Start: 12573, Stop: 15134, Start Num: 12

Candidate Starts for BrotherBLo_18:

(6, 12552), (Start: 12 @12573 has 84 MA's), (26, 12621), (34, 12654), (45, 12702), (53, 12726), (55, 12738), (72, 12798), (82, 12846), (84, 12861), (85, 12867), (113, 12987), (123, 13029), (151, 13125), (153, 13128), (163, 13158), (175, 13212), (212, 13353), (218, 13374), (226, 13398), (233, 13419), (237, 13428), (250, 13479), (257, 13497), (313, 13683), (373, 13827), (402, 13860), (414, 13887), (423, 13905), (428, 13911), (436, 13935), (439, 13944), (460, 13992), (471, 14019), (472, 14022), (479, 14043), (481, 14049), (483, 14055), (499, 14106), (503, 14121), (507, 14133), (509, 14139), (510, 14142), (513, 14151), (522, 14178), (526, 14190), (529, 14199), (534, 14211), (536, 14217), (544, 14238), (552, 14262), (555, 14271), (567, 14310), (573, 14328), (588, 14361), (592, 14364), (594, 14373), (596, 14376), (599, 14391), (627, 14481), (636, 14517), (663, 14625), (672, 14661), (678, 14682), (709, 14757), (710, 14760), (726, 14814), (739, 14853), (753, 14901), (755, 14910), (763, 14934), (770, 14952), (788, 15003), (793, 15027), (795, 15045), (801, 15075),

Gene: Bullzi2019_12 Start: 7561, Stop: 9666, Start Num: 32

Candidate Starts for Bullzi2019_12:

(Start: 32 @7561 has 142 MA's), (Start: 38 @7582 has 3 MA's), (80, 7759), (81, 7768), (85, 7792), (101, 7864), (106, 7888), (137, 7987), (156, 8065), (158, 8077), (160, 8086), (212, 8293), (218, 8311), (270, 8398), (298, 8467), (313, 8479), (328, 8527), (346, 8557), (350, 8572), (370, 8626), (384, 8656), (385, 8659), (392, 8680), (402, 8710), (410, 8737), (426, 8770), (439, 8809), (449, 8836), (451, 8842), (456, 8857), (462, 8872), (476, 8899), (477, 8902), (484, 8923), (487, 8935), (489, 8941), (503, 8989), (515, 9025), (531, 9073), (541, 9100), (550, 9121), (570, 9184), (580, 9208), (626, 9265), (653, 9370), (659, 9391), (673, 9445), (682, 9466), (693, 9487),

Gene: Burgy_12 Start: 7552, Stop: 9657, Start Num: 32

Candidate Starts for Burgy_12:

(Start: 32 @7552 has 142 MA's), (Start: 38 @7573 has 3 MA's), (80, 7750), (81, 7759), (85, 7783), (101, 7855), (106, 7879), (109, 7885), (149, 8035), (156, 8056), (158, 8068), (160, 8077), (212, 8284), (218, 8302), (270, 8389), (298, 8458), (313, 8470), (328, 8518), (346, 8548), (350, 8563), (363, 8599), (374, 8626), (384, 8647), (392, 8671), (400, 8695), (402, 8701), (410, 8728), (426, 8761), (439, 8800), (449, 8827), (456, 8848), (462, 8863), (476, 8890), (477, 8893), (484, 8914), (487, 8926), (489, 8932), (503, 8980), (529, 9055), (531, 9064), (541, 9091), (550, 9112), (570, 9175), (580, 9199), (626, 9256), (653, 9361), (659, 9382), (661, 9394), (673, 9436), (682, 9457), (693, 9478),

Gene: BurtonThePup_12 Start: 7546, Stop: 9651, Start Num: 32

Candidate Starts for BurtonThePup_12:

(Start: 32 @7546 has 142 MA's), (Start: 38 @7567 has 3 MA's), (80, 7744), (81, 7753), (85, 7777), (101, 7849), (106, 7873), (109, 7879), (149, 8029), (156, 8050), (158, 8062), (160, 8071), (212, 8278), (218, 8296), (270, 8383), (298, 8452), (313, 8464), (328, 8512), (346, 8542), (350, 8557), (363, 8593), (374, 8620), (384, 8641), (392, 8665), (400, 8689), (402, 8695), (410, 8722), (426, 8755), (439, 8794), (449, 8821), (456, 8842), (462, 8857), (476, 8884), (477, 8887), (484, 8908), (487, 8920), (489, 8926), (503, 8974), (529, 9049), (531, 9058), (541, 9085), (550, 9106), (570, 9169), (580, 9193), (626, 9250), (653, 9355), (659, 9376), (661, 9388), (673, 9430), (682, 9451), (693, 9472),

Gene: Bustleton_17 Start: 9585, Stop: 11993, Start Num: 21

Candidate Starts for Bustleton_17:

(Start: 21 @9585 has 86 MA's), (47, 9699), (56, 9738), (71, 9789), (72, 9792), (81, 9840), (85, 9864), (96, 9921), (108, 9963), (120, 10008), (122, 10017), (146, 10101), (158, 10146), (169, 10176), (176, 10209), (179, 10218), (191, 10266), (210, 10326), (232, 10383), (287, 10500), (288, 10503), (292, 10515), (308, 10560), (327, 10623), (328, 10626), (333, 10638), (336, 10647), (337, 10653), (354, 10704), (374, 10755), (375, 10758), (384, 10776), (389, 10791), (394, 10806), (419, 10878), (430, 10902), (442, 10938), (487, 11055), (503, 11109), (514, 11142), (525, 11172), (570, 11304), (574, 11316), (580, 11328), (592, 11373), (598, 11394), (603, 11415), (611, 11448), (616, 11460), (618, 11469), (619, 11472), (622, 11493), (638, 11568), (639, 11571), (650, 11619), (675, 11709), (695, 11757), (707, 11793), (712, 11805), (740, 11889), (743, 11898), (760, 11955),

Gene: Byron23_17 Start: 9367, Stop: 11637, Start Num: 20

Candidate Starts for Byron23_17:

(Start: 20 @9367 has 123 MA's), (47, 9484), (54, 9514), (71, 9574), (81, 9625), (85, 9649), (96, 9706), (120, 9793), (122, 9802), (146, 9886), (158, 9931), (168, 9958), (169, 9961), (191, 10051), (210, 10111), (232, 10168), (245, 10189), (287, 10285), (288, 10288), (304, 10330), (328, 10411), (336, 10432), (339, 10444), (350, 10477), (380, 10555), (384, 10561), (394, 10591), (406, 10630), (419, 10663), (422, 10669), (428, 10681), (432, 10696), (437, 10708), (440, 10717), (442, 10723), (460, 10771), (486, 10837), (503, 10894), (559, 11059), (580, 11113), (630, 11191), (638, 11221), (639, 11224), (650, 11272), (675, 11362), (679, 11377), (703, 11431), (710, 11446), (740, 11533), (743, 11542), (760, 11599),

Gene: Calix_17 Start: 9645, Stop: 11915, Start Num: 20

Candidate Starts for Calix_17:

(Start: 20 @9645 has 123 MA's), (47, 9762), (54, 9792), (71, 9852), (81, 9903), (85, 9927), (96, 9984), (116, 10056), (120, 10071), (122, 10080), (146, 10164), (158, 10209), (169, 10239), (191, 10329), (210, 10389), (232, 10446), (245, 10467), (287, 10563), (288, 10566), (304, 10608), (328, 10689), (336, 10710), (339, 10722), (350, 10755), (384, 10839), (394, 10869), (406, 10908), (419, 10941), (422, 10947), (432, 10974), (437, 10986), (440, 10995), (442, 11001), (455, 11037), (460, 11049), (474, 11079), (486, 11115), (503, 11172), (535, 11265), (559, 11337), (580, 11391), (630, 11469), (638, 11499), (639, 11502), (650, 11550), (662, 11592), (675, 11640), (679, 11655), (700, 11697), (732, 11784), (740, 11811), (760, 11877),

Gene: CallieOMalley_18 Start: 12612, Stop: 15167, Start Num: 12

Candidate Starts for CallieOMalley_18:

(6, 12591), (Start: 12 @12612 has 84 MA's), (26, 12660), (45, 12741), (53, 12765), (59, 12795), (72, 12837), (84, 12900), (85, 12906), (123, 13068), (151, 13164), (153, 13167), (163, 13197), (197, 13335), (233, 13458), (250, 13518), (257, 13536), (261, 13551), (276, 13602), (352, 13833), (403, 13902), (414, 13926), (423, 13944), (428, 13950), (447, 14004), (454, 14016), (464, 14037), (472, 14061), (500, 14148), (507, 14172), (509, 14178), (510, 14181), (514, 14193), (521, 14214), (522, 14217), (524, 14223), (526, 14229), (529, 14238), (532, 14247), (534, 14250), (536, 14256), (546, 14280), (552, 14301), (555, 14310), (560, 14328), (567, 14349), (570, 14358), (573, 14367), (588, 14400), (592, 14403), (594, 14412), (596, 14415), (610, 14466), (636, 14556), (663, 14664), (666, 14676), (671, 14697), (672, 14700), (709, 14796), (710, 14799), (726, 14853), (739, 14892), (755, 14949), (770, 14991), (788, 15039), (795, 15081), (801, 15111),

Gene: Canowicakte_18 Start: 12647, Stop: 15202, Start Num: 12

Candidate Starts for Canowicakte_18:

(6, 12626), (Start: 12 @12647 has 84 MA's), (26, 12695), (45, 12776), (53, 12800), (72, 12872), (82, 12920), (84, 12935), (85, 12941), (123, 13103), (140, 13148), (151, 13199), (153, 13202), (163, 13232), (197, 13370), (233, 13493), (250, 13553), (257, 13571), (261, 13586), (276, 13637), (352, 13868), (403, 13937), (414, 13961), (423, 13979), (428, 13985), (447, 14039), (454, 14051), (464, 14072), (472, 14096), (500, 14183), (507, 14207), (509, 14213), (510, 14216), (514, 14228), (521, 14249), (522, 14252), (524, 14258), (526, 14264), (529, 14273), (532, 14282), (534, 14285), (536, 14291), (546, 14315), (552, 14336), (555, 14345), (560, 14363), (567, 14384), (570, 14393), (573, 14402), (588, 14435), (592, 14438), (594, 14447), (596, 14450), (610, 14501), (636, 14591), (663, 14699), (666, 14711), (671, 14732), (672, 14735), (709, 14831), (710, 14834), (726, 14888), (739, 14927), (755, 14984), (770, 15026), (788, 15074), (795, 15116), (801, 15146),

Gene: Cappuccino_16 Start: 10243, Stop: 12663, Start Num: 19

Candidate Starts for Cappuccino_16:

(Start: 19 @10243 has 21 MA's), (41, 10330), (53, 10387), (65, 10435), (69, 10447), (81, 10507), (104, 10618), (126, 10699), (160, 10825), (164, 10840), (177, 10894), (226, 11068), (251, 11152), (258, 11173), (263, 11194), (269, 11215), (282, 11266), (305, 11341), (312, 11362), (321, 11395), (340, 11452), (353, 11494), (358, 11509), (379, 11560), (393, 11596), (431, 11704), (439, 11725), (454, 11767), (459, 11779), (472, 11833), (487, 11881), (518, 11977), (572, 12133), (580, 12154), (583, 12166), (597, 12217), (650, 12367), (660, 12403), (669, 12436), (728, 12595),

Gene: CaptainRex_18 Start: 9873, Stop: 12314, Start Num: 21

Candidate Starts for CaptainRex_18:

(Start: 21 @9873 has 86 MA's), (Start: 30 @9906 has 5 MA's), (78, 10107), (85, 10149), (96, 10206), (102, 10224), (108, 10248), (122, 10302), (127, 10323), (146, 10386), (158, 10431), (173, 10473), (178, 10491), (191, 10542), (222, 10638), (245, 10698), (258, 10740), (273, 10764), (287, 10794), (288, 10797), (291, 10806), (308, 10854), (310, 10860), (341, 10959), (347, 10974), (353, 10995), (384, 11070), (385, 11073), (404, 11130), (415, 11160), (442, 11232), (453, 11262), (456, 11271), (472, 11304), (474, 11310), (479, 11322), (489, 11355), (494, 11370), (503, 11403), (514, 11436), (529, 11478), (574, 11610), (590, 11658), (591, 11664), (594, 11676), (613, 11745), (616, 11754), (630, 11832), (638, 11862), (678, 12015), (679, 12018), (685, 12030), (709, 12093), (715, 12111), (730, 12156), (747, 12216), (774, 12297), (776, 12300),

Gene: CardboardBox_18 Start: 9570, Stop: 11855, Start Num: 11

Candidate Starts for CardboardBox_18:

(Start: 9 @9567 has 3 MA's), (Start: 11 @9570 has 8 MA's), (40, 9669), (80, 9828), (131, 10044), (168, 10188), (196, 10299), (203, 10335), (215, 10377), (322, 10515), (332, 10545), (333, 10548), (339, 10566), (373, 10608), (435, 10692), (443, 10716), (470, 10764), (484, 10806), (485, 10812), (499, 10854), (504, 10872), (518, 10914), (522, 10926), (529, 10947), (537, 10968), (540, 10977), (543,

10983), (550, 11001), (551, 11004), (559, 11034), (562, 11043), (592, 11112), (599, 11139), (600, 11142), (623, 11208), (627, 11229), (633, 11253), (639, 11277), (646, 11316), (666, 11385), (668, 11394), (676, 11421), (709, 11505), (710, 11508), (739, 11601), (742, 11607), (755, 11658), (763, 11682), (766, 11691), (783, 11736), (812, 11850),

Gene: CarisSwetlik_19 Start: 10125, Stop: 12389, Start Num: 21

Candidate Starts for CarisSwetlik_19:

(Start: 21 @10125 has 86 MA's), (71, 10329), (72, 10332), (81, 10380), (85, 10404), (96, 10461), (99, 10470), (118, 10542), (120, 10548), (122, 10557), (146, 10641), (158, 10686), (169, 10716), (191, 10806), (210, 10866), (219, 10896), (232, 10923), (245, 10944), (287, 11040), (288, 11043), (292, 11055), (295, 11064), (308, 11100), (335, 11184), (375, 11298), (384, 11316), (389, 11331), (394, 11346), (410, 11397), (437, 11463), (440, 11472), (442, 11478), (460, 11526), (472, 11550), (474, 11556), (486, 11592), (501, 11640), (503, 11649), (535, 11742), (552, 11790), (559, 11814), (580, 11868), (630, 11946), (638, 11976), (639, 11979), (650, 12027), (675, 12117), (678, 12129), (679, 12132), (718, 12222), (740, 12285), (743, 12294), (760, 12351),

Gene: Caron_14 Start: 9969, Stop: 12317, Start Num: 21

Candidate Starts for Caron_14:

(Start: 21 @9969 has 86 MA's), (65, 10152), (85, 10248), (111, 10356), (126, 10416), (177, 10611), (192, 10674), (214, 10758), (218, 10770), (220, 10773), (241, 10824), (254, 10875), (277, 10956), (295, 11022), (302, 11046), (325, 11127), (345, 11187), (351, 11208), (387, 11298), (404, 11349), (439, 11445), (477, 11541), (479, 11547), (483, 11559), (489, 11580), (521, 11682), (531, 11715), (550, 11763), (580, 11853), (627, 11916), (629, 11928), (656, 12027), (688, 12132), (703, 12168),

Gene: Carostasia_16 Start: 9631, Stop: 12042, Start Num: 21

Candidate Starts for Carostasia_16:

(5, 9568), (Start: 21 @9631 has 86 MA's), (27, 9646), (Start: 30 @9664 has 5 MA's), (47, 9745), (72, 9838), (85, 9910), (96, 9967), (116, 10039), (120, 10054), (122, 10063), (136, 10105), (146, 10147), (158, 10192), (169, 10222), (179, 10264), (191, 10312), (210, 10372), (232, 10429), (273, 10516), (287, 10546), (288, 10549), (295, 10570), (314, 10627), (328, 10672), (336, 10693), (358, 10762), (384, 10822), (403, 10879), (419, 10924), (422, 10930), (432, 10957), (442, 10984), (449, 11002), (474, 11062), (486, 11098), (487, 11101), (490, 11110), (494, 11122), (503, 11155), (513, 11185), (570, 11350), (584, 11389), (601, 11452), (622, 11539), (638, 11614), (639, 11617), (650, 11665), (662, 11707), (664, 11713), (679, 11770), (713, 11854), (715, 11860), (740, 11938), (743, 11947), (760, 12004), (768, 12031), (769, 12034),

Gene: Carpal_18 Start: 12574, Stop: 15135, Start Num: 12

Candidate Starts for Carpal_18:

(6, 12553), (Start: 12 @12574 has 84 MA's), (26, 12622), (34, 12655), (45, 12703), (53, 12727), (55, 12739), (72, 12799), (82, 12847), (84, 12862), (85, 12868), (113, 12988), (123, 13030), (151, 13126), (153, 13129), (163, 13159), (175, 13213), (212, 13354), (218, 13375), (226, 13399), (233, 13420), (237, 13429), (250, 13480), (257, 13498), (313, 13684), (373, 13828), (402, 13861), (414, 13888), (423, 13906), (428, 13912), (436, 13936), (439, 13945), (460, 13993), (471, 14020), (472, 14023), (479, 14044), (483, 14056), (499, 14107), (503, 14122), (507, 14134), (510, 14143), (513, 14152), (522, 14179), (526, 14191), (529, 14200), (534, 14212), (536, 14218), (544, 14239), (552, 14263), (555, 14272), (567, 14311), (588, 14362), (592, 14365), (594, 14374), (596, 14377), (599, 14392), (627, 14482), (636, 14518), (663, 14626), (672, 14662), (709, 14758), (710, 14761), (726, 14815), (739, 14854), (753, 14902), (755, 14911), (763, 14935), (770, 14953), (788, 15004), (793, 15028), (795, 15046), (801, 15076),

Gene: Casey_16 Start: 9601, Stop: 11994, Start Num: 21

Candidate Starts for Casey_16:

(Start: 21 @9601 has 86 MA's), (56, 9754), (71, 9805), (85, 9880), (86, 9883), (96, 9937), (120, 10021), (122, 10030), (127, 10051), (146, 10114), (158, 10159), (173, 10201), (191, 10270), (210, 10330), (245, 10408), (292, 10519), (308, 10564), (310, 10570), (337, 10657), (374, 10759), (394, 10810), (395, 10813), (415, 10870), (525, 11176), (529, 11188), (559, 11278), (570, 11308), (572, 11311), (600, 11407), (623, 11506), (634, 11554), (638, 11572), (657, 11644), (675, 11713), (700, 11773), (715, 11818), (738, 11884), (740, 11890), (743, 11899), (760, 11956),

Gene: Cassia_16 Start: 10826, Stop: 13150, Start Num: 14

Candidate Starts for Cassia_16:

(Start: 14 @10826 has 63 MA's), (53, 10982), (54, 10991), (55, 10994), (75, 11072), (87, 11132), (113, 11249), (138, 11330), (139, 11333), (144, 11363), (167, 11447), (181, 11504), (187, 11528), (201, 11588), (202, 11594), (329, 11813), (428, 11981), (444, 12029), (468, 12083), (482, 12125), (494, 12164), (512, 12224), (547, 12317), (627, 12470), (629, 12482), (648, 12560), (649, 12563), (663, 12614), (709, 12746), (710, 12749), (744, 12860), (755, 12899),

Gene: Cayde6_12 Start: 7538, Stop: 9646, Start Num: 32

Candidate Starts for Cayde6_12:

(Start: 32 @7538 has 142 MA's), (Start: 38 @7559 has 3 MA's), (80, 7736), (81, 7745), (85, 7769), (101, 7841), (106, 7865), (109, 7871), (137, 7964), (149, 8021), (156, 8042), (158, 8054), (160, 8063), (212, 8270), (218, 8288), (270, 8375), (298, 8444), (313, 8456), (328, 8504), (346, 8534), (350, 8549), (363, 8585), (374, 8612), (392, 8657), (400, 8681), (402, 8687), (410, 8714), (426, 8747), (439, 8786), (449, 8813), (456, 8834), (462, 8849), (476, 8876), (477, 8879), (487, 8912), (489, 8918), (503, 8966), (515, 9002), (531, 9050), (541, 9077), (550, 9098), (570, 9161), (580, 9185), (626, 9242), (653, 9347), (659, 9368), (661, 9380), (673, 9422), (693, 9464), (745, 9596),

Gene: Cazares_12 Start: 7552, Stop: 9636, Start Num: 38

Candidate Starts for Cazares_12:

(Start: 32 @7531 has 142 MA's), (Start: 38 @7552 has 3 MA's), (80, 7729), (81, 7738), (85, 7762), (101, 7834), (106, 7858), (137, 7957), (149, 8014), (156, 8035), (158, 8047), (160, 8056), (212, 8263), (218, 8281), (270, 8368), (298, 8437), (313, 8449), (328, 8497), (346, 8527), (350, 8542), (384, 8626), (385, 8629), (392, 8650), (402, 8680), (410, 8707), (426, 8740), (439, 8779), (449, 8806), (451, 8812), (456, 8827), (462, 8842), (477, 8872), (484, 8893), (487, 8905), (489, 8911), (503, 8959), (515, 8995), (531, 9043), (541, 9070), (550, 9091), (570, 9154), (580, 9178), (626, 9235), (653, 9340), (659, 9361), (673, 9415), (682, 9436), (693, 9457),

Gene: Cen1621_14 Start: 9057, Stop: 11342, Start Num: 21

Candidate Starts for Cen1621_14:

(Start: 21 @9057 has 86 MA's), (57, 9216), (78, 9294), (85, 9336), (111, 9444), (124, 9495), (126, 9504), (149, 9588), (158, 9621), (164, 9645), (177, 9699), (192, 9762), (218, 9858), (220, 9861), (336, 10152), (342, 10173), (370, 10254), (392, 10308), (394, 10314), (406, 10353), (419, 10386), (451, 10470), (463, 10518), (481, 10578), (487, 10596), (497, 10629), (503, 10650), (512, 10677), (524, 10710), (531, 10734), (535, 10743), (570, 10845), (627, 10932), (652, 11028), (666, 11082), (669, 11094), (708, 11187),

Gene: Chako_17 Start: 9654, Stop: 11924, Start Num: 20

Candidate Starts for Chako_17:

(Start: 20 @9654 has 123 MA's), (47, 9771), (54, 9801), (71, 9861), (81, 9912), (85, 9936), (96, 9993), (120, 10080), (122, 10089), (146, 10173), (158, 10218), (168, 10245), (169, 10248), (191, 10338), (210, 10398), (232, 10455), (245, 10476), (287, 10572), (288, 10575), (304, 10617), (328, 10698), (336, 10719), (339, 10731), (350, 10764), (380, 10842), (384, 10848), (394, 10878), (406, 10917), (419, 10950), (422, 10956), (428, 10968), (432, 10983), (437, 10995), (440, 11004), (442, 11010), (460, 11058), (472, 11082), (474, 11088), (486, 11124), (503, 11181), (559, 11346), (580, 11400), (630, 11478), (638, 11508), (639, 11511), (650, 11559), (675, 11649), (679, 11664), (700, 11706),

(703, 11718), (710, 11733), (740, 11820), (743, 11829), (760, 11886),

Gene: ChamoyPickle_18 Start: 9570, Stop: 11855, Start Num: 11

Candidate Starts for ChamoyPickle_18:

(Start: 9 @9567 has 3 MA's), (Start: 11 @9570 has 8 MA's), (40, 9669), (80, 9828), (131, 10044), (168, 10188), (196, 10299), (203, 10335), (215, 10377), (322, 10515), (332, 10545), (333, 10548), (339, 10566), (373, 10608), (435, 10692), (443, 10716), (470, 10764), (484, 10806), (485, 10812), (499, 10854), (504, 10872), (518, 10914), (522, 10926), (529, 10947), (537, 10968), (540, 10977), (543, 10983), (550, 11001), (551, 11004), (559, 11034), (562, 11043), (592, 11112), (599, 11139), (600, 11142), (623, 11208), (627, 11229), (633, 11253), (639, 11277), (646, 11316), (666, 11385), (668, 11394), (676, 11421), (709, 11505), (710, 11508), (739, 11601), (742, 11607), (755, 11658), (763, 11682), (766, 11691), (783, 11736), (812, 11850),

Gene: Chamuel_17 Start: 9647, Stop: 11917, Start Num: 20

Candidate Starts for Chamuel_17:

(Start: 20 @9647 has 123 MA's), (47, 9764), (54, 9794), (71, 9854), (81, 9905), (85, 9929), (96, 9986), (116, 10058), (120, 10073), (122, 10082), (146, 10166), (158, 10211), (169, 10241), (191, 10331), (210, 10391), (232, 10448), (245, 10469), (287, 10565), (288, 10568), (304, 10610), (328, 10691), (336, 10712), (339, 10724), (350, 10757), (384, 10841), (394, 10871), (406, 10910), (419, 10943), (422, 10949), (432, 10976), (437, 10988), (440, 10997), (442, 11003), (455, 11039), (460, 11051), (474, 11081), (486, 11117), (503, 11174), (535, 11267), (559, 11339), (580, 11393), (630, 11471), (638, 11501), (639, 11504), (650, 11552), (662, 11594), (675, 11642), (679, 11657), (700, 11699), (732, 11786), (740, 11813), (760, 11879),

Gene: Charbie_12 Start: 7528, Stop: 9633, Start Num: 32

Candidate Starts for Charbie_12:

(Start: 32 @7528 has 142 MA's), (Start: 38 @7549 has 3 MA's), (80, 7726), (81, 7735), (85, 7759), (101, 7831), (106, 7855), (109, 7861), (149, 8011), (156, 8032), (158, 8044), (160, 8053), (212, 8260), (218, 8278), (270, 8365), (298, 8434), (313, 8446), (328, 8494), (346, 8524), (350, 8539), (363, 8575), (374, 8602), (384, 8623), (392, 8647), (400, 8671), (402, 8677), (410, 8704), (426, 8737), (439, 8776), (449, 8803), (456, 8824), (462, 8839), (476, 8866), (477, 8869), (484, 8890), (487, 8902), (489, 8908), (503, 8956), (529, 9031), (531, 9040), (541, 9067), (550, 9088), (570, 9151), (580, 9175), (626, 9232), (653, 9337), (659, 9358), (661, 9370), (673, 9412), (682, 9433), (693, 9454),

Gene: Chatham_12 Start: 7540, Stop: 9645, Start Num: 32

Candidate Starts for Chatham_12:

(Start: 32 @7540 has 142 MA's), (Start: 38 @7561 has 3 MA's), (80, 7738), (81, 7747), (85, 7771), (101, 7843), (106, 7867), (109, 7873), (149, 8023), (156, 8044), (158, 8056), (160, 8065), (212, 8272), (218, 8290), (270, 8377), (298, 8446), (313, 8458), (328, 8506), (346, 8536), (350, 8551), (363, 8587), (374, 8614), (384, 8635), (392, 8659), (400, 8683), (402, 8689), (410, 8716), (426, 8749), (439, 8788), (449, 8815), (456, 8836), (462, 8851), (476, 8878), (477, 8881), (484, 8902), (487, 8914), (489, 8920), (503, 8968), (515, 9004), (531, 9052), (541, 9079), (550, 9100), (570, 9163), (580, 9187), (626, 9244), (653, 9349), (659, 9370), (661, 9382), (673, 9424), (682, 9445), (693, 9466), (745, 9595),

Gene: Cheesecake_12 Start: 7552, Stop: 9657, Start Num: 32

Candidate Starts for Cheesecake_12:

(Start: 32 @7552 has 142 MA's), (Start: 38 @7573 has 3 MA's), (80, 7750), (81, 7759), (85, 7783), (101, 7855), (106, 7879), (109, 7885), (149, 8035), (156, 8056), (158, 8068), (160, 8077), (212, 8284), (218, 8302), (270, 8389), (298, 8458), (313, 8470), (328, 8518), (346, 8548), (350, 8563), (363, 8599), (374, 8626), (384, 8647), (392, 8671), (400, 8695), (402, 8701), (410, 8728), (426, 8761), (439, 8800), (449, 8827), (456, 8848), (462, 8863), (476, 8890), (477, 8893), (484, 8914), (487, 8926), (489, 8932), (503, 8980), (529, 9055), (531, 9064), (541, 9091), (550, 9112), (570, 9175), (580, 9199), (626, 9256), (653, 9361), (659, 9382), (661, 9394), (673, 9436), (682, 9457), (693, 9478),

Gene: Cheeto1_18 Start: 9400, Stop: 11808, Start Num: 21

Candidate Starts for Cheeto1_18:

(Start: 21 @9400 has 86 MA's), (47, 9514), (71, 9604), (81, 9655), (85, 9679), (96, 9736), (120, 9823), (122, 9832), (146, 9916), (158, 9961), (169, 9991), (176, 10024), (191, 10081), (210, 10141), (232, 10198), (273, 10285), (287, 10315), (288, 10318), (292, 10330), (308, 10375), (337, 10468), (350, 10507), (354, 10519), (374, 10570), (419, 10693), (422, 10699), (442, 10753), (472, 10825), (511, 10948), (514, 10957), (525, 10987), (559, 11089), (570, 11119), (580, 11143), (592, 11188), (618, 11284), (622, 11308), (638, 11383), (639, 11386), (650, 11434), (675, 11524), (678, 11536), (740, 11704), (743, 11713), (744, 11719), (760, 11770), (768, 11797), (769, 11800),

Gene: Chepli_18 Start: 9872, Stop: 12301, Start Num: 21

Candidate Starts for Chepli_18:

(Start: 21 @9872 has 86 MA's), (27, 9887), (Start: 30 @9905 has 5 MA's), (81, 10127), (85, 10151), (96, 10208), (116, 10280), (122, 10304), (146, 10388), (158, 10433), (169, 10463), (191, 10553), (210, 10613), (255, 10724), (287, 10787), (288, 10790), (292, 10802), (308, 10847), (310, 10853), (327, 10910), (336, 10934), (341, 10952), (353, 10988), (354, 10991), (357, 11000), (384, 11063), (385, 11066), (388, 11075), (404, 11123), (410, 11144), (442, 11225), (451, 11249), (453, 11255), (456, 11264), (474, 11303), (479, 11315), (487, 11342), (492, 11357), (494, 11363), (503, 11396), (508, 11411), (525, 11459), (529, 11471), (559, 11561), (574, 11603), (575, 11606), (584, 11630), (590, 11651), (594, 11669), (616, 11747), (630, 11825), (636, 11846), (638, 11855), (662, 11948), (678, 12008), (679, 12011), (709, 12086), (721, 12122), (729, 12146), (756, 12233), (765, 12260), (772, 12284),

Gene: ChewChew_14 Start: 9716, Stop: 12277, Start Num: 12

Candidate Starts for ChewChew_14:

(6, 9695), (Start: 12 @9716 has 84 MA's), (26, 9764), (45, 9845), (53, 9869), (72, 9941), (82, 9989), (84, 10004), (85, 10010), (123, 10172), (151, 10268), (153, 10271), (163, 10301), (197, 10439), (218, 10517), (233, 10562), (237, 10571), (250, 10622), (257, 10640), (260, 10652), (267, 10676), (335, 10892), (391, 10982), (402, 11003), (414, 11030), (423, 11048), (428, 11054), (436, 11078), (439, 11087), (460, 11135), (471, 11162), (481, 11192), (499, 11249), (503, 11264), (507, 11276), (509, 11282), (510, 11285), (513, 11294), (522, 11321), (526, 11333), (529, 11342), (534, 11354), (536, 11360), (546, 11384), (552, 11405), (555, 11414), (559, 11429), (566, 11450), (567, 11453), (588, 11504), (592, 11507), (596, 11519), (618, 11594), (627, 11624), (636, 11660), (663, 11768), (666, 11780), (672, 11804), (709, 11900), (710, 11903), (720, 11936), (726, 11957), (739, 11996), (744, 12014), (753, 12044), (755, 12053), (763, 12077), (789, 12152), (801, 12218),

Gene: ChickenKing_17 Start: 9301, Stop: 11709, Start Num: 21

Candidate Starts for ChickenKing_17:

(6, 9247), (Start: 21 @9301 has 86 MA's), (47, 9415), (56, 9454), (71, 9505), (81, 9556), (85, 9580), (96, 9637), (120, 9724), (122, 9733), (146, 9817), (158, 9862), (169, 9892), (176, 9925), (191, 9982), (210, 10042), (232, 10099), (273, 10186), (287, 10216), (288, 10219), (308, 10276), (337, 10369), (354, 10420), (374, 10471), (384, 10492), (386, 10498), (419, 10594), (422, 10600), (427, 10609), (442, 10654), (472, 10726), (511, 10849), (525, 10888), (559, 10990), (570, 11020), (580, 11044), (583, 11056), (592, 11089), (618, 11185), (622, 11209), (638, 11284), (639, 11287), (650, 11335), (675, 11425), (678, 11437), (740, 11605), (743, 11614), (744, 11620), (760, 11671), (768, 11698), (769, 11701),

Gene: ChikPic_16 Start: 9447, Stop: 11855, Start Num: 21

Candidate Starts for ChikPic_16:

(Start: 21 @9447 has 86 MA's), (27, 9462), (47, 9561), (71, 9651), (85, 9726), (96, 9783), (99, 9792), (116, 9855), (120, 9870), (122, 9879), (146, 9963), (158, 10008), (169, 10038), (179, 10080), (191, 10128), (210, 10188), (232, 10245), (273, 10332), (287, 10362), (288, 10365), (292, 10377), (336,

10509), (337, 10515), (354, 10566), (374, 10617), (375, 10620), (384, 10638), (394, 10668), (398, 10680), (410, 10719), (432, 10773), (440, 10794), (442, 10800), (472, 10872), (474, 10878), (486, 10914), (487, 10917), (503, 10971), (525, 11034), (529, 11046), (535, 11064), (559, 11136), (570, 11166), (583, 11202), (590, 11226), (600, 11265), (608, 11301), (611, 11310), (618, 11331), (638, 11430), (639, 11433), (650, 11481), (675, 11571), (679, 11586), (700, 11631), (709, 11658), (715, 11676), (722, 11697), (727, 11715), (732, 11724), (738, 11745), (740, 11751), (743, 11760), (760, 11817), (768, 11844), (769, 11847),

Gene: ChipsNGuac_17 Start: 9567, Stop: 11855, Start Num: 9

Candidate Starts for ChipsNGuac_17:

(Start: 9 @9567 has 3 MA's), (Start: 11 @9570 has 8 MA's), (40, 9669), (80, 9828), (131, 10044), (168, 10188), (196, 10299), (203, 10335), (215, 10377), (322, 10515), (332, 10545), (333, 10548), (339, 10566), (373, 10608), (435, 10692), (443, 10716), (470, 10764), (484, 10806), (485, 10812), (499, 10854), (504, 10872), (518, 10914), (522, 10926), (529, 10947), (537, 10968), (540, 10977), (543, 10983), (550, 11001), (551, 11004), (559, 11034), (562, 11043), (592, 11112), (599, 11139), (600, 11142), (623, 11208), (627, 11229), (633, 11253), (639, 11277), (646, 11316), (666, 11385), (668, 11394), (676, 11421), (709, 11505), (710, 11508), (739, 11601), (742, 11607), (755, 11658), (763, 11682), (766, 11691), (783, 11736), (812, 11850),

Gene: Cholula_18 Start: 12619, Stop: 15180, Start Num: 12

Candidate Starts for Cholula_18:

(6, 12598), (Start: 12 @12619 has 84 MA's), (26, 12667), (34, 12700), (45, 12748), (53, 12772), (55, 12784), (72, 12844), (82, 12892), (84, 12907), (85, 12913), (113, 13033), (123, 13075), (149, 13168), (151, 13171), (153, 13174), (163, 13204), (175, 13258), (212, 13399), (218, 13420), (226, 13444), (233, 13465), (237, 13474), (250, 13525), (257, 13543), (263, 13567), (313, 13729), (373, 13873), (402, 13906), (414, 13933), (423, 13951), (428, 13957), (436, 13981), (439, 13990), (460, 14038), (471, 14065), (479, 14089), (481, 14095), (483, 14101), (499, 14152), (503, 14167), (507, 14179), (509, 14185), (510, 14188), (513, 14197), (522, 14224), (526, 14236), (529, 14245), (534, 14257), (536, 14263), (544, 14284), (555, 14317), (567, 14356), (588, 14407), (592, 14410), (594, 14419), (596, 14422), (599, 14437), (626, 14521), (627, 14527), (636, 14563), (663, 14671), (666, 14683), (672, 14707), (709, 14803), (710, 14806), (726, 14860), (739, 14899), (753, 14947), (755, 14956), (763, 14980), (770, 14998), (788, 15049), (793, 15073), (795, 15091), (801, 15121),

Gene: Chridison_14 Start: 9739, Stop: 12297, Start Num: 12

Candidate Starts for Chridison_14:

(Start: 12 @9739 has 84 MA's), (15, 9748), (22, 9778), (45, 9868), (72, 9964), (81, 10009), (84, 10027), (123, 10195), (151, 10291), (153, 10294), (156, 10309), (180, 10396), (240, 10600), (241, 10603), (262, 10687), (373, 10993), (414, 11053), (423, 11071), (428, 11077), (439, 11110), (443, 11122), (460, 11158), (471, 11185), (479, 11209), (481, 11215), (499, 11272), (506, 11296), (509, 11305), (514, 11320), (522, 11344), (526, 11356), (534, 11377), (536, 11383), (544, 11404), (552, 11428), (555, 11437), (560, 11455), (567, 11476), (569, 11482), (573, 11494), (588, 11527), (592, 11530), (596, 11542), (599, 11557), (600, 11560), (627, 11647), (648, 11737), (649, 11740), (663, 11791), (678, 11848), (683, 11857), (689, 11869), (709, 11923), (710, 11926), (726, 11980), (739, 12019), (753, 12067), (755, 12076), (763, 12100), (767, 12112), (795, 12208), (801, 12238),

Gene: Christian_14 Start: 9717, Stop: 12278, Start Num: 12

Candidate Starts for Christian_14:

(6, 9696), (Start: 12 @9717 has 84 MA's), (26, 9765), (45, 9846), (53, 9870), (72, 9942), (82, 9990), (84, 10005), (85, 10011), (123, 10173), (151, 10269), (153, 10272), (163, 10302), (197, 10440), (218, 10518), (233, 10563), (237, 10572), (250, 10623), (257, 10641), (260, 10653), (267, 10677), (335, 10893), (391, 10983), (402, 11004), (414, 11031), (423, 11049), (428, 11055), (436, 11079), (439, 11088), (460, 11136), (471, 11163), (481, 11193), (499, 11250), (509, 11283), (513, 11295), (522, 11322), (524, 11328), (526, 11334), (529, 11343), (534, 11355), (536, 11361), (546, 11385), (552,

11406), (555, 11415), (559, 11430), (567, 11454), (588, 11505), (592, 11508), (596, 11520), (618, 11595), (627, 11625), (636, 11661), (663, 11769), (666, 11781), (672, 11805), (709, 11901), (710, 11904), (720, 11937), (726, 11958), (739, 11997), (744, 12015), (753, 12045), (755, 12054), (763, 12078), (789, 12153), (801, 12219),

Gene: Christoph_17 Start: 9665, Stop: 11935, Start Num: 20

Candidate Starts for Christoph_17:

(Start: 20 @9665 has 123 MA's), (47, 9782), (54, 9812), (71, 9872), (81, 9923), (85, 9947), (96, 10004), (120, 10091), (122, 10100), (146, 10184), (158, 10229), (168, 10256), (169, 10259), (191, 10349), (210, 10409), (232, 10466), (245, 10487), (287, 10583), (288, 10586), (304, 10628), (328, 10709), (336, 10730), (339, 10742), (350, 10775), (380, 10853), (384, 10859), (394, 10889), (406, 10928), (419, 10961), (422, 10967), (428, 10979), (432, 10994), (437, 11006), (440, 11015), (442, 11021), (460, 11069), (472, 11093), (474, 11099), (486, 11135), (503, 11192), (559, 11357), (580, 11411), (630, 11489), (638, 11519), (639, 11522), (650, 11570), (675, 11660), (679, 11675), (700, 11717), (703, 11729), (710, 11744), (740, 11831), (743, 11840), (760, 11897),

Gene: Cicada_21 Start: 13577, Stop: 15565, Start Num: 24

Candidate Starts for Cicada_21:

(Start: 24 @13577 has 21 MA's), (36, 13616), (64, 13727), (69, 13742), (72, 13754), (113, 13946), (120, 13970), (132, 14012), (154, 14102), (168, 14153), (185, 14219), (203, 14300), (208, 14315), (214, 14339), (279, 14402), (296, 14426), (337, 14528), (350, 14552), (417, 14621), (433, 14654), (547, 14852), (592, 14879), (597, 14897), (623, 14951), (634, 14999), (637, 15011), (638, 15017), (654, 15083), (658, 15095), (727, 15272), (739, 15308), (747, 15338), (766, 15398), (808, 15539),

Gene: Cidela_16 Start: 10261, Stop: 12672, Start Num: 21

Candidate Starts for Cidela_16:

(Start: 21 @10261 has 86 MA's), (27, 10276), (Start: 30 @10294 has 5 MA's), (47, 10375), (70, 10459), (72, 10468), (85, 10540), (96, 10597), (99, 10606), (116, 10669), (120, 10684), (122, 10693), (146, 10777), (158, 10822), (169, 10852), (176, 10885), (179, 10894), (191, 10942), (210, 11002), (232, 11059), (273, 11146), (287, 11176), (288, 11179), (292, 11191), (295, 11200), (314, 11257), (328, 11302), (353, 11377), (384, 11452), (403, 11509), (404, 11512), (419, 11554), (422, 11560), (432, 11587), (442, 11614), (472, 11686), (486, 11728), (490, 11740), (494, 11752), (503, 11785), (513, 11815), (514, 11818), (525, 11848), (529, 11860), (570, 11980), (584, 12019), (608, 12115), (638, 12244), (639, 12247), (650, 12295), (679, 12400), (700, 12445), (713, 12484), (715, 12490), (727, 12529), (740, 12568), (743, 12577), (760, 12634), (768, 12661), (769, 12664),

Gene: Ciel_12 Start: 7546, Stop: 9651, Start Num: 32

Candidate Starts for Ciel_12:

(Start: 32 @7546 has 142 MA's), (Start: 38 @7567 has 3 MA's), (80, 7744), (81, 7753), (85, 7777), (101, 7849), (106, 7873), (109, 7879), (149, 8029), (156, 8050), (158, 8062), (160, 8071), (212, 8278), (218, 8296), (270, 8383), (298, 8452), (313, 8464), (328, 8512), (346, 8542), (350, 8557), (363, 8593), (374, 8620), (384, 8641), (392, 8665), (400, 8689), (402, 8695), (410, 8722), (426, 8755), (439, 8794), (449, 8821), (456, 8842), (462, 8857), (476, 8884), (477, 8887), (484, 8908), (487, 8920), (489, 8926), (503, 8974), (529, 9049), (531, 9058), (541, 9085), (550, 9106), (570, 9169), (580, 9193), (626, 9250), (653, 9355), (659, 9376), (661, 9388), (673, 9430), (682, 9451), (693, 9472),

Gene: Clancy_17 Start: 9654, Stop: 11924, Start Num: 20

Candidate Starts for Clancy_17:

(Start: 20 @9654 has 123 MA's), (47, 9771), (54, 9801), (71, 9861), (81, 9912), (85, 9936), (96, 9993), (120, 10080), (122, 10089), (146, 10173), (158, 10218), (168, 10245), (169, 10248), (191, 10338), (210, 10398), (232, 10455), (245, 10476), (287, 10572), (288, 10575), (304, 10617), (328, 10698), (336, 10719), (339, 10731), (350, 10764), (380, 10842), (384, 10848), (394, 10878), (406, 10917), (419, 10950), (422, 10956), (428, 10968), (432, 10983), (437, 10995), (440, 11004), (442, 11010),

(460, 11058), (472, 11082), (474, 11088), (486, 11124), (503, 11181), (559, 11346), (580, 11400), (630, 11478), (638, 11508), (639, 11511), (650, 11559), (675, 11649), (679, 11664), (700, 11706), (703, 11718), (710, 11733), (740, 11820), (743, 11829), (760, 11886),

Gene: Clock_18 Start: 10608, Stop: 13046, Start Num: 21

Candidate Starts for Clock_18:

(Start: 21 @10608 has 86 MA's), (56, 10758), (60, 10773), (78, 10842), (85, 10884), (96, 10941), (102, 10959), (122, 11037), (127, 11058), (134, 11076), (146, 11121), (158, 11166), (191, 11277), (210, 11337), (238, 11412), (251, 11454), (273, 11499), (287, 11529), (288, 11532), (292, 11544), (304, 11574), (308, 11589), (311, 11598), (328, 11655), (336, 11676), (337, 11682), (341, 11694), (353, 11730), (375, 11787), (384, 11805), (385, 11808), (394, 11835), (415, 11895), (427, 11922), (432, 11940), (442, 11967), (472, 12039), (474, 12045), (479, 12057), (492, 12099), (494, 12105), (503, 12138), (514, 12171), (529, 12213), (557, 12294), (575, 12348), (587, 12381), (594, 12411), (613, 12480), (616, 12489), (630, 12567), (639, 12600), (650, 12648), (664, 12696), (679, 12753), (704, 12819), (709, 12828), (765, 13005), (772, 13029),

Gene: Clownery_12 Start: 7648, Stop: 9753, Start Num: 32

Candidate Starts for Clownery_12:

(Start: 32 @7648 has 142 MA's), (Start: 38 @7669 has 3 MA's), (80, 7846), (81, 7855), (85, 7879), (101, 7951), (106, 7975), (137, 8074), (149, 8131), (156, 8152), (158, 8164), (160, 8173), (212, 8380), (218, 8398), (270, 8485), (298, 8554), (313, 8566), (328, 8614), (346, 8644), (350, 8659), (384, 8743), (385, 8746), (392, 8767), (402, 8797), (410, 8824), (426, 8857), (439, 8896), (449, 8923), (451, 8929), (456, 8944), (462, 8959), (477, 8989), (484, 9010), (487, 9022), (489, 9028), (503, 9076), (515, 9112), (531, 9160), (541, 9187), (550, 9208), (570, 9271), (580, 9295), (626, 9352), (653, 9457), (659, 9478), (673, 9532), (682, 9553), (693, 9574),

Gene: ColaCorta_16 Start: 9431, Stop: 11839, Start Num: 21

Candidate Starts for ColaCorta_16:

(Start: 21 @9431 has 86 MA's), (27, 9446), (47, 9545), (71, 9635), (85, 9710), (96, 9767), (99, 9776), (116, 9839), (120, 9854), (122, 9863), (146, 9947), (158, 9992), (169, 10022), (179, 10064), (191, 10112), (210, 10172), (232, 10229), (273, 10316), (287, 10346), (288, 10349), (292, 10361), (336, 10493), (337, 10499), (354, 10550), (374, 10601), (375, 10604), (389, 10637), (394, 10652), (398, 10664), (410, 10703), (432, 10757), (440, 10778), (442, 10784), (472, 10856), (474, 10862), (486, 10898), (487, 10901), (503, 10955), (525, 11018), (529, 11030), (535, 11048), (559, 11120), (570, 11150), (583, 11186), (590, 11210), (600, 11249), (608, 11285), (611, 11294), (618, 11315), (638, 11414), (639, 11417), (650, 11465), (675, 11555), (679, 11570), (700, 11615), (709, 11642), (715, 11660), (722, 11681), (727, 11699), (732, 11708), (738, 11729), (740, 11735), (743, 11744), (760, 11801), (768, 11828), (769, 11831),

Gene: Community_16 Start: 11793, Stop: 14270, Start Num: 14

Candidate Starts for Community_16:

(Start: 14 @11793 has 63 MA's), (53, 11949), (54, 11958), (75, 12039), (87, 12099), (95, 12144), (113, 12216), (139, 12300), (144, 12330), (158, 12384), (167, 12414), (181, 12471), (187, 12495), (201, 12555), (202, 12561), (211, 12585), (238, 12663), (256, 12696), (316, 12831), (329, 12873), (368, 12972), (401, 13044), (417, 13083), (428, 13110), (444, 13158), (459, 13191), (482, 13254), (499, 13311), (512, 13353), (517, 13368), (547, 13446), (598, 13569), (631, 13617), (635, 13632), (659, 13725), (663, 13743), (666, 13755), (709, 13875), (710, 13878), (744, 13989), (755, 14028), (785, 14118),

Gene: Concrete_12 Start: 7587, Stop: 9692, Start Num: 32

Candidate Starts for Concrete_12:

(Start: 32 @7587 has 142 MA's), (Start: 38 @7608 has 3 MA's), (80, 7785), (81, 7794), (85, 7818), (101, 7890), (106, 7914), (109, 7920), (137, 8013), (149, 8070), (156, 8091), (158, 8103), (160, 8112),

(212, 8319), (218, 8337), (270, 8424), (298, 8493), (313, 8505), (328, 8553), (346, 8583), (350, 8598), (363, 8634), (374, 8661), (385, 8685), (392, 8706), (400, 8730), (402, 8736), (410, 8763), (426, 8796), (439, 8835), (449, 8862), (456, 8883), (462, 8898), (476, 8925), (477, 8928), (484, 8949), (487, 8961), (489, 8967), (503, 9015), (515, 9051), (531, 9099), (541, 9126), (550, 9147), (570, 9210), (580, 9234), (626, 9291), (653, 9396), (659, 9417), (661, 9429), (673, 9471), (682, 9492), (693, 9513), (745, 9642),

Gene: Convict_17 Start: 9362, Stop: 11632, Start Num: 20

Candidate Starts for Convict_17:

(Start: 20 @9362 has 123 MA's), (47, 9479), (54, 9509), (81, 9620), (85, 9644), (96, 9701), (116, 9773), (120, 9788), (122, 9797), (146, 9881), (158, 9926), (169, 9956), (191, 10046), (210, 10106), (232, 10163), (245, 10184), (287, 10280), (288, 10283), (304, 10325), (328, 10406), (336, 10427), (339, 10439), (350, 10472), (384, 10556), (394, 10586), (406, 10625), (419, 10658), (422, 10664), (437, 10703), (440, 10712), (442, 10718), (455, 10754), (460, 10766), (474, 10796), (486, 10832), (503, 10889), (514, 10922), (535, 10982), (559, 11054), (630, 11186), (638, 11216), (639, 11219), (650, 11267), (662, 11309), (675, 11357), (679, 11372), (700, 11414), (710, 11441), (740, 11528), (743, 11537), (760, 11594),

Gene: CoraRita_17 Start: 9654, Stop: 11924, Start Num: 20

Candidate Starts for CoraRita_17:

(Start: 20 @9654 has 123 MA's), (47, 9771), (54, 9801), (71, 9861), (81, 9912), (85, 9936), (96, 9993), (120, 10080), (122, 10089), (146, 10173), (158, 10218), (168, 10245), (169, 10248), (191, 10338), (210, 10398), (232, 10455), (245, 10476), (287, 10572), (288, 10575), (304, 10617), (328, 10698), (336, 10719), (339, 10731), (350, 10764), (380, 10842), (384, 10848), (394, 10878), (406, 10917), (419, 10950), (422, 10956), (432, 10983), (437, 10995), (440, 11004), (442, 11010), (460, 11058), (472, 11082), (474, 11088), (486, 11124), (503, 11181), (559, 11346), (580, 11400), (630, 11478), (638, 11508), (639, 11511), (650, 11559), (675, 11649), (679, 11664), (700, 11706), (703, 11718), (710, 11733), (740, 11820), (743, 11829), (760, 11886),

Gene: Crewmate_17 Start: 11180, Stop: 13486, Start Num: 14

Candidate Starts for Crewmate_17:

(Start: 14 @11180 has 63 MA's), (52, 11333), (53, 11336), (54, 11345), (87, 11486), (113, 11603), (139, 11687), (144, 11717), (158, 11771), (181, 11858), (187, 11882), (201, 11942), (202, 11948), (224, 12014), (328, 12164), (329, 12167), (425, 12326), (428, 12335), (444, 12383), (468, 12437), (482, 12479), (494, 12518), (512, 12578), (517, 12593), (547, 12671), (561, 12719), (598, 12794), (611, 12806), (633, 12848), (635, 12857), (663, 12968), (709, 13100), (710, 13103), (744, 13214), (755, 13253), (775, 13307), (781, 13328), (785, 13343), (800, 13421),

Gene: CristinaYang_14 Start: 9717, Stop: 12278, Start Num: 12

Candidate Starts for CristinaYang_14:

(6, 9696), (Start: 12 @9717 has 84 MA's), (26, 9765), (45, 9846), (53, 9870), (72, 9942), (82, 9990), (84, 10005), (85, 10011), (113, 10131), (123, 10173), (151, 10269), (153, 10272), (163, 10302), (197, 10440), (218, 10518), (233, 10563), (237, 10572), (250, 10623), (257, 10641), (260, 10653), (267, 10677), (335, 10893), (391, 10983), (402, 11004), (414, 11031), (423, 11049), (428, 11055), (436, 11079), (439, 11088), (460, 11136), (471, 11163), (481, 11193), (499, 11250), (503, 11265), (507, 11277), (509, 11283), (510, 11286), (513, 11295), (522, 11322), (526, 11334), (529, 11343), (534, 11355), (536, 11361), (546, 11385), (552, 11406), (555, 11415), (559, 11430), (567, 11454), (588, 11505), (592, 11508), (596, 11520), (618, 11595), (627, 11625), (636, 11661), (663, 11769), (666, 11781), (672, 11805), (709, 11901), (710, 11904), (720, 11937), (726, 11958), (739, 11997), (744, 12015), (753, 12045), (755, 12054), (763, 12078), (789, 12153), (801, 12219),

Gene: Cyan_16 Start: 10730, Stop: 13045, Start Num: 14

Candidate Starts for Cyan_16:

(Start: 14 @10730 has 63 MA's), (53, 10886), (54, 10895), (75, 10976), (78, 10988), (87, 11036), (113, 11153), (138, 11234), (139, 11237), (144, 11267), (158, 11321), (167, 11351), (181, 11408), (187, 11432), (201, 11492), (329, 11717), (399, 11813), (428, 11885), (444, 11933), (468, 11987), (482, 12029), (494, 12068), (512, 12128), (635, 12407), (641, 12431), (648, 12464), (649, 12467), (663, 12518), (701, 12629), (709, 12650), (710, 12653), (720, 12686), (744, 12764), (755, 12803), (778, 12863), (785, 12893), (795, 12944), (807, 12989), (814, 13034),

Gene: DaftyDuck_12 Start: 7546, Stop: 9651, Start Num: 32

Candidate Starts for DaftyDuck_12:

(Start: 32 @7546 has 142 MA's), (Start: 38 @7567 has 3 MA's), (80, 7744), (81, 7753), (85, 7777), (101, 7849), (106, 7873), (109, 7879), (149, 8029), (156, 8050), (158, 8062), (160, 8071), (212, 8278), (218, 8296), (270, 8383), (298, 8452), (313, 8464), (328, 8512), (346, 8542), (350, 8557), (363, 8593), (374, 8620), (384, 8641), (392, 8665), (400, 8689), (402, 8695), (410, 8722), (426, 8755), (439, 8794), (449, 8821), (456, 8842), (462, 8857), (476, 8884), (477, 8887), (484, 8908), (487, 8920), (489, 8926), (503, 8974), (531, 9058), (541, 9085), (550, 9106), (570, 9169), (626, 9250), (653, 9355), (659, 9376), (661, 9388), (673, 9430), (682, 9451), (693, 9472), (745, 9601),

Gene: Daiboju_14 Start: 9744, Stop: 12302, Start Num: 12

Candidate Starts for Daiboju_14:

(Start: 12 @9744 has 84 MA's), (15, 9753), (22, 9783), (45, 9873), (55, 9909), (82, 10017), (84, 10032), (123, 10200), (151, 10296), (226, 10569), (233, 10590), (244, 10620), (250, 10650), (276, 10737), (314, 10860), (339, 10935), (373, 10998), (402, 11031), (411, 11052), (414, 11058), (423, 11076), (428, 11082), (436, 11106), (454, 11148), (460, 11163), (464, 11169), (473, 11196), (489, 11247), (500, 11280), (502, 11289), (509, 11310), (513, 11322), (522, 11349), (526, 11361), (529, 11370), (534, 11382), (536, 11388), (537, 11391), (546, 11412), (555, 11442), (560, 11460), (567, 11481), (570, 11490), (573, 11499), (588, 11532), (592, 11535), (596, 11547), (599, 11562), (626, 11646), (627, 11652), (636, 11688), (649, 11745), (651, 11754), (663, 11796), (678, 11853), (709, 11928), (710, 11931), (719, 11961), (726, 11985), (744, 12042), (753, 12072), (755, 12081), (763, 12105), (767, 12117), (801, 12243),

Gene: Danimal_12 Start: 7540, Stop: 9645, Start Num: 32

Candidate Starts for Danimal_12:

(Start: 32 @7540 has 142 MA's), (Start: 38 @7561 has 3 MA's), (80, 7738), (81, 7747), (85, 7771), (101, 7843), (106, 7867), (109, 7873), (149, 8023), (156, 8044), (158, 8056), (160, 8065), (212, 8272), (218, 8290), (270, 8377), (298, 8446), (313, 8458), (328, 8506), (346, 8536), (350, 8551), (363, 8587), (374, 8614), (384, 8635), (392, 8659), (400, 8683), (402, 8689), (410, 8716), (426, 8749), (439, 8788), (449, 8815), (456, 8836), (462, 8851), (476, 8878), (477, 8881), (484, 8902), (487, 8914), (489, 8920), (503, 8968), (515, 9004), (531, 9052), (541, 9079), (550, 9100), (570, 9163), (580, 9187), (626, 9244), (653, 9349), (659, 9370), (661, 9382), (673, 9424), (682, 9445), (693, 9466), (745, 9595),

Gene: Danno_12 Start: 7552, Stop: 9657, Start Num: 32

Candidate Starts for Danno_12:

(Start: 32 @7552 has 142 MA's), (Start: 38 @7573 has 3 MA's), (80, 7750), (81, 7759), (85, 7783), (101, 7855), (106, 7879), (109, 7885), (149, 8035), (156, 8056), (158, 8068), (160, 8077), (212, 8284), (218, 8302), (270, 8389), (298, 8458), (313, 8470), (328, 8518), (346, 8548), (350, 8563), (363, 8599), (374, 8626), (384, 8647), (392, 8671), (400, 8695), (402, 8701), (410, 8728), (426, 8761), (439, 8800), (449, 8827), (456, 8848), (462, 8863), (476, 8890), (477, 8893), (484, 8914), (487, 8926), (489, 8932), (503, 8980), (529, 9055), (531, 9064), (541, 9091), (550, 9112), (570, 9175), (580, 9199), (626, 9256), (653, 9361), (659, 9382), (661, 9394), (673, 9436), (682, 9457), (693, 9478),

Gene: Dave_17 Start: 9353, Stop: 11623, Start Num: 20

Candidate Starts for Dave_17:

(Start: 20 @9353 has 123 MA's), (47, 9470), (54, 9500), (81, 9611), (85, 9635), (96, 9692), (116, 9764), (120, 9779), (122, 9788), (146, 9872), (158, 9917), (169, 9947), (191, 10037), (210, 10097), (232, 10154), (245, 10175), (287, 10271), (288, 10274), (304, 10316), (328, 10397), (336, 10418), (339, 10430), (350, 10463), (384, 10547), (394, 10577), (406, 10616), (419, 10649), (422, 10655), (432, 10682), (437, 10694), (440, 10703), (442, 10709), (455, 10745), (460, 10757), (474, 10787), (486, 10823), (503, 10880), (535, 10973), (559, 11045), (580, 11099), (630, 11177), (638, 11207), (639, 11210), (650, 11258), (662, 11300), (675, 11348), (679, 11363), (700, 11405), (740, 11519), (743, 11528), (760, 11585),

Gene: Delphidian_17 Start: 9361, Stop: 11631, Start Num: 20

Candidate Starts for Delphidian_17:

(Start: 20 @9361 has 123 MA's), (47, 9478), (54, 9508), (71, 9568), (81, 9619), (85, 9643), (96, 9700), (120, 9787), (122, 9796), (146, 9880), (158, 9925), (168, 9952), (169, 9955), (191, 10045), (210, 10105), (232, 10162), (245, 10183), (287, 10279), (288, 10282), (304, 10324), (328, 10405), (336, 10426), (339, 10438), (350, 10471), (380, 10549), (384, 10555), (394, 10585), (406, 10624), (419, 10657), (422, 10663), (428, 10675), (432, 10690), (437, 10702), (440, 10711), (442, 10717), (460, 10765), (486, 10831), (503, 10888), (559, 11053), (580, 11107), (630, 11185), (638, 11215), (639, 11218), (650, 11266), (675, 11356), (679, 11371), (703, 11425), (710, 11440), (740, 11527), (743, 11536), (760, 11593),

Gene: Den3_17 Start: 9366, Stop: 11636, Start Num: 20

Candidate Starts for Den3_17:

(Start: 20 @9366 has 123 MA's), (47, 9483), (54, 9513), (81, 9624), (85, 9648), (96, 9705), (116, 9777), (120, 9792), (122, 9801), (146, 9885), (158, 9930), (169, 9960), (191, 10050), (210, 10110), (232, 10167), (245, 10188), (287, 10284), (288, 10287), (304, 10329), (328, 10410), (336, 10431), (339, 10443), (350, 10476), (384, 10560), (394, 10590), (406, 10629), (419, 10662), (422, 10668), (437, 10707), (440, 10716), (442, 10722), (455, 10758), (460, 10770), (474, 10800), (486, 10836), (503, 10893), (514, 10926), (535, 10986), (559, 11058), (630, 11190), (638, 11220), (639, 11223), (650, 11271), (662, 11313), (675, 11361), (679, 11376), (700, 11418), (710, 11445), (740, 11532), (743, 11541), (760, 11598),

Gene: Dino_18 Start: 12572, Stop: 15133, Start Num: 12

Candidate Starts for Dino_18:

(6, 12551), (Start: 12 @12572 has 84 MA's), (26, 12620), (34, 12653), (45, 12701), (53, 12725), (55, 12737), (72, 12797), (82, 12845), (84, 12860), (85, 12866), (113, 12986), (123, 13028), (151, 13124), (153, 13127), (163, 13157), (175, 13211), (212, 13352), (218, 13373), (226, 13397), (233, 13418), (237, 13427), (250, 13478), (257, 13496), (313, 13682), (373, 13826), (402, 13859), (414, 13886), (423, 13904), (428, 13910), (436, 13934), (439, 13943), (460, 13991), (471, 14018), (472, 14021), (479, 14042), (483, 14054), (499, 14105), (503, 14120), (507, 14132), (510, 14141), (513, 14150), (522, 14177), (526, 14189), (529, 14198), (534, 14210), (536, 14216), (544, 14237), (552, 14261), (555, 14270), (567, 14309), (588, 14360), (592, 14363), (594, 14372), (596, 14375), (599, 14390), (627, 14480), (636, 14516), (663, 14624), (672, 14660), (709, 14756), (710, 14759), (726, 14813), (739, 14852), (753, 14900), (755, 14909), (763, 14933), (770, 14951), (788, 15002), (793, 15026), (795, 15044), (801, 15074),

Gene: DirtPie_12 Start: 7639, Stop: 9744, Start Num: 32

Candidate Starts for DirtPie_12:

(Start: 32 @7639 has 142 MA's), (Start: 38 @7660 has 3 MA's), (80, 7837), (81, 7846), (85, 7870), (101, 7942), (106, 7966), (109, 7972), (149, 8122), (156, 8143), (158, 8155), (160, 8164), (212, 8371), (218, 8389), (270, 8476), (298, 8545), (313, 8557), (328, 8605), (346, 8635), (350, 8650), (363, 8686), (374, 8713), (384, 8734), (392, 8758), (400, 8782), (402, 8788), (410, 8815), (426, 8848), (439, 8887), (449, 8914), (456, 8935), (462, 8950), (476, 8977), (477, 8980), (484, 9001), (487, 9013), (489, 9019), (503, 9067), (529, 9142), (531, 9151), (541, 9178), (550, 9199), (570, 9262), (580, 9286), (626, 9343),

(653, 9448), (659, 9469), (661, 9481), (673, 9523), (682, 9544), (693, 9565), (745, 9694),

Gene: Doedicurus_23 Start: 13965, Stop: 15959, Start Num: 19

Candidate Starts for Doedicurus_23:

(Start: 19 @13965 has 21 MA's), (105, 14331), (116, 14373), (119, 14388), (165, 14541), (178, 14595), (181, 14607), (187, 14631), (202, 14694), (230, 14775), (258, 14805), (281, 14826), (294, 14832), (323, 14889), (359, 14973), (420, 15069), (498, 15189), (504, 15210), (545, 15264), (625, 15465), (636, 15510), (675, 15663), (696, 15714),

Gene: Dongwon_12 Start: 7540, Stop: 9645, Start Num: 32

Candidate Starts for Dongwon_12:

(Start: 32 @7540 has 142 MA's), (Start: 38 @7561 has 3 MA's), (80, 7738), (81, 7747), (85, 7771), (101, 7843), (106, 7867), (109, 7873), (149, 8023), (156, 8044), (158, 8056), (160, 8065), (212, 8272), (218, 8290), (270, 8377), (298, 8446), (313, 8458), (328, 8506), (346, 8536), (350, 8551), (363, 8587), (374, 8614), (384, 8635), (392, 8659), (400, 8683), (402, 8689), (410, 8716), (426, 8749), (439, 8788), (449, 8815), (456, 8836), (462, 8851), (476, 8878), (477, 8881), (484, 8902), (487, 8914), (489, 8920), (503, 8968), (515, 9004), (531, 9052), (541, 9079), (550, 9100), (570, 9163), (580, 9187), (626, 9244), (653, 9349), (659, 9370), (661, 9382), (673, 9424), (682, 9445), (693, 9466), (745, 9595),

Gene: Donkey_16 Start: 10243, Stop: 12663, Start Num: 19

Candidate Starts for Donkey_16:

(Start: 19 @10243 has 21 MA's), (41, 10330), (53, 10387), (65, 10435), (69, 10447), (81, 10507), (104, 10618), (126, 10699), (160, 10825), (164, 10840), (177, 10894), (226, 11068), (251, 11152), (258, 11173), (263, 11194), (269, 11215), (282, 11266), (305, 11341), (312, 11362), (321, 11395), (340, 11452), (353, 11494), (358, 11509), (379, 11560), (393, 11596), (431, 11704), (439, 11725), (454, 11767), (459, 11779), (472, 11833), (487, 11881), (518, 11977), (572, 12133), (580, 12154), (583, 12166), (597, 12217), (650, 12367), (660, 12403), (686, 12484), (728, 12595),

Gene: Dooby_12 Start: 7540, Stop: 9645, Start Num: 32

Candidate Starts for Dooby_12:

(Start: 32 @7540 has 142 MA's), (Start: 38 @7561 has 3 MA's), (80, 7738), (81, 7747), (85, 7771), (101, 7843), (106, 7867), (109, 7873), (149, 8023), (156, 8044), (158, 8056), (160, 8065), (212, 8272), (218, 8290), (270, 8377), (298, 8446), (313, 8458), (328, 8506), (346, 8536), (350, 8551), (363, 8587), (374, 8614), (384, 8635), (392, 8659), (400, 8683), (402, 8689), (410, 8716), (426, 8749), (439, 8788), (449, 8815), (456, 8836), (462, 8851), (476, 8878), (477, 8881), (484, 8902), (487, 8914), (489, 8920), (503, 8968), (515, 9004), (531, 9052), (541, 9079), (550, 9100), (570, 9163), (580, 9187), (626, 9244), (653, 9349), (659, 9370), (661, 9382), (673, 9424), (682, 9445), (693, 9466), (745, 9595),

Gene: Dothraki_17 Start: 9364, Stop: 11634, Start Num: 20

Candidate Starts for Dothraki_17:

(Start: 20 @9364 has 123 MA's), (47, 9481), (54, 9511), (71, 9571), (81, 9622), (85, 9646), (96, 9703), (120, 9790), (122, 9799), (146, 9883), (158, 9928), (168, 9955), (169, 9958), (191, 10048), (210, 10108), (232, 10165), (245, 10186), (287, 10282), (288, 10285), (304, 10327), (328, 10408), (336, 10429), (339, 10441), (350, 10474), (380, 10552), (384, 10558), (394, 10588), (406, 10627), (419, 10660), (422, 10666), (428, 10678), (432, 10693), (437, 10705), (440, 10714), (442, 10720), (460, 10768), (486, 10834), (503, 10891), (559, 11056), (580, 11110), (630, 11188), (638, 11218), (639, 11221), (650, 11269), (675, 11359), (679, 11374), (703, 11428), (710, 11443), (740, 11530), (743, 11539), (760, 11596),

Gene: Douggie_12 Start: 7533, Stop: 9638, Start Num: 32

Candidate Starts for Douggie_12:

(Start: 32 @7533 has 142 MA's), (Start: 38 @7554 has 3 MA's), (80, 7731), (81, 7740), (85, 7764), (101, 7836), (106, 7860), (109, 7866), (137, 7959), (149, 8016), (156, 8037), (158, 8049), (160, 8058),

(212, 8265), (218, 8283), (270, 8370), (298, 8439), (313, 8451), (328, 8499), (346, 8529), (350, 8544), (363, 8580), (374, 8607), (385, 8631), (392, 8652), (400, 8676), (402, 8682), (410, 8709), (426, 8742), (439, 8781), (449, 8808), (456, 8829), (462, 8844), (476, 8871), (477, 8874), (487, 8907), (489, 8913), (503, 8961), (515, 8997), (531, 9045), (541, 9072), (550, 9093), (570, 9156), (580, 9180), (626, 9237), (653, 9342), (659, 9363), (661, 9375), (673, 9417), (682, 9438), (693, 9459), (745, 9588),

Gene: DrManhattan_16 Start: 10713, Stop: 12947, Start Num: 14

Candidate Starts for DrManhattan_16:

(Start: 14 @10713 has 63 MA's), (Start: 32 @10788 has 142 MA's), (53, 10869), (54, 10878), (61, 10905), (75, 10959), (78, 10971), (87, 11019), (90, 11031), (113, 11136), (138, 11217), (139, 11220), (144, 11250), (167, 11334), (181, 11391), (187, 11415), (197, 11457), (201, 11475), (211, 11505), (227, 11544), (233, 11562), (318, 11634), (319, 11637), (327, 11655), (374, 11700), (406, 11757), (425, 11796), (428, 11805), (444, 11853), (450, 11862), (482, 11949), (485, 11961), (494, 11988), (499, 12006), (512, 12048), (550, 12150), (568, 12210), (598, 12264), (614, 12282), (630, 12309), (633, 12318), (655, 12408), (660, 12429), (669, 12462), (689, 12516), (697, 12537), (742, 12669), (749, 12699), (792, 12828), (800, 12882),

Gene: DrRobert_14 Start: 9717, Stop: 12278, Start Num: 12

Candidate Starts for DrRobert_14:

(6, 9696), (Start: 12 @9717 has 84 MA's), (26, 9765), (45, 9846), (53, 9870), (72, 9942), (82, 9990), (84, 10005), (85, 10011), (123, 10173), (151, 10269), (153, 10272), (163, 10302), (197, 10440), (218, 10518), (233, 10563), (237, 10572), (250, 10623), (257, 10641), (260, 10653), (267, 10677), (335, 10893), (391, 10983), (402, 11004), (414, 11031), (423, 11049), (436, 11079), (439, 11088), (460, 11136), (471, 11163), (481, 11193), (499, 11250), (503, 11265), (507, 11277), (509, 11283), (510, 11286), (513, 11295), (522, 11322), (526, 11334), (529, 11343), (534, 11355), (536, 11361), (546, 11385), (552, 11406), (555, 11415), (559, 11430), (567, 11454), (588, 11505), (592, 11508), (596, 11520), (618, 11595), (627, 11625), (636, 11661), (663, 11769), (666, 11781), (671, 11802), (672, 11805), (709, 11901), (710, 11904), (720, 11937), (726, 11958), (744, 12015), (753, 12045), (755, 12054), (763, 12078), (789, 12153), (801, 12219),

Gene: DrSierra_16 Start: 10741, Stop: 13035, Start Num: 14

Candidate Starts for DrSierra_16:

(Start: 14 @10741 has 63 MA's), (53, 10897), (54, 10906), (56, 10915), (61, 10933), (75, 10987), (78, 10999), (87, 11047), (113, 11164), (138, 11245), (139, 11248), (144, 11278), (158, 11332), (167, 11362), (177, 11404), (181, 11419), (187, 11443), (197, 11485), (201, 11503), (237, 11608), (329, 11728), (406, 11848), (417, 11869), (425, 11887), (428, 11896), (444, 11944), (450, 11953), (468, 11998), (482, 12040), (494, 12079), (499, 12097), (512, 12139), (550, 12241), (563, 12286), (568, 12301), (598, 12355), (614, 12373), (630, 12400), (633, 12409), (655, 12499), (669, 12553), (689, 12607), (697, 12628), (742, 12760), (749, 12790), (800, 12970),

Gene: DreamTeam_14 Start: 9784, Stop: 12330, Start Num: 12

Candidate Starts for DreamTeam_14:

(6, 9763), (Start: 12 @9784 has 84 MA's), (26, 9832), (45, 9913), (59, 9967), (72, 10009), (82, 10057), (84, 10072), (85, 10078), (123, 10240), (140, 10285), (151, 10336), (153, 10339), (212, 10564), (218, 10585), (237, 10639), (243, 10657), (244, 10660), (250, 10690), (373, 11026), (411, 11080), (414, 11086), (423, 11104), (428, 11110), (443, 11155), (459, 11188), (460, 11191), (478, 11239), (479, 11242), (483, 11254), (485, 11263), (500, 11308), (502, 11317), (509, 11338), (513, 11350), (514, 11353), (522, 11377), (524, 11383), (526, 11389), (534, 11410), (536, 11416), (544, 11437), (552, 11461), (555, 11470), (560, 11488), (567, 11509), (569, 11515), (588, 11560), (592, 11563), (594, 11572), (596, 11575), (626, 11674), (627, 11680), (640, 11734), (663, 11824), (709, 11956), (710, 11959), (726, 12013), (739, 12052), (744, 12070), (753, 12100), (755, 12109), (770, 12151), (801, 12271),

Gene: Duggle_12 Start: 7540, Stop: 9645, Start Num: 32

Candidate Starts for Duggle_12:

(Start: 32 @7540 has 142 MA's), (Start: 38 @7561 has 3 MA's), (80, 7738), (81, 7747), (85, 7771), (101, 7843), (106, 7867), (109, 7873), (149, 8023), (156, 8044), (158, 8056), (160, 8065), (212, 8272), (218, 8290), (270, 8377), (298, 8446), (313, 8458), (328, 8506), (346, 8536), (350, 8551), (363, 8587), (374, 8614), (384, 8635), (392, 8659), (400, 8683), (402, 8689), (410, 8716), (426, 8749), (439, 8788), (449, 8815), (456, 8836), (462, 8851), (476, 8878), (477, 8881), (484, 8902), (487, 8914), (489, 8920), (503, 8968), (515, 9004), (531, 9052), (541, 9079), (550, 9100), (570, 9163), (580, 9187), (626, 9244), (653, 9349), (659, 9370), (661, 9382), (673, 9424), (682, 9445), (693, 9466), (745, 9595),

Gene: Duocatuli_17 Start: 9654, Stop: 11924, Start Num: 20

Candidate Starts for Duocatuli_17:

(Start: 20 @9654 has 123 MA's), (47, 9771), (54, 9801), (71, 9861), (81, 9912), (85, 9936), (96, 9993), (120, 10080), (122, 10089), (146, 10173), (158, 10218), (168, 10245), (169, 10248), (191, 10338), (210, 10398), (232, 10455), (245, 10476), (287, 10572), (288, 10575), (304, 10617), (328, 10698), (336, 10719), (339, 10731), (350, 10764), (380, 10842), (384, 10848), (394, 10878), (406, 10917), (419, 10950), (422, 10956), (428, 10968), (432, 10983), (437, 10995), (440, 11004), (442, 11010), (460, 11058), (472, 11082), (474, 11088), (486, 11124), (503, 11181), (559, 11346), (580, 11400), (630, 11478), (638, 11508), (639, 11511), (650, 11559), (675, 11649), (679, 11664), (700, 11706), (703, 11718), (710, 11733), (740, 11820), (743, 11829), (760, 11886),

Gene: ELee24_12 Start: 7568, Stop: 9673, Start Num: 32

Candidate Starts for ELee24_12:

(Start: 32 @7568 has 142 MA's), (36, 7583), (Start: 38 @7589 has 3 MA's), (51, 7649), (80, 7766), (81, 7775), (85, 7799), (101, 7871), (106, 7895), (137, 7994), (149, 8051), (156, 8072), (160, 8093), (212, 8300), (218, 8318), (270, 8405), (298, 8474), (313, 8486), (319, 8507), (325, 8525), (328, 8534), (350, 8579), (363, 8615), (384, 8663), (385, 8666), (402, 8717), (413, 8750), (426, 8777), (439, 8816), (449, 8843), (456, 8864), (462, 8879), (484, 8930), (487, 8942), (489, 8948), (493, 8960), (526, 9062), (529, 9071), (531, 9080), (541, 9107), (570, 9191), (580, 9215), (659, 9398), (661, 9410), (673, 9452), (682, 9473), (693, 9494), (745, 9623),

Gene: EdElric_12 Start: 7540, Stop: 9645, Start Num: 32

Candidate Starts for EdElric_12:

(Start: 32 @7540 has 142 MA's), (Start: 38 @7561 has 3 MA's), (80, 7738), (81, 7747), (85, 7771), (101, 7843), (106, 7867), (109, 7873), (149, 8023), (156, 8044), (158, 8056), (160, 8065), (212, 8272), (218, 8290), (270, 8377), (298, 8446), (313, 8458), (328, 8506), (346, 8536), (350, 8551), (363, 8587), (374, 8614), (384, 8635), (392, 8659), (400, 8683), (402, 8689), (410, 8716), (426, 8749), (439, 8788), (449, 8815), (456, 8836), (462, 8851), (476, 8878), (477, 8881), (484, 8902), (487, 8914), (489, 8920), (503, 8968), (515, 9004), (531, 9052), (541, 9079), (550, 9100), (570, 9163), (580, 9187), (626, 9244), (653, 9349), (659, 9370), (661, 9382), (673, 9424), (682, 9445), (693, 9466), (745, 9595),

Gene: Edmundo_67 Start: 37140, Stop: 40157, Start Num: 4

Candidate Starts for Edmundo_67:

(Start: 4 @37140 has 6 MA's), (8, 37161), (16, 37191), (17, 37194), (43, 37299), (66, 37392), (80, 37452), (128, 37662), (131, 37668), (132, 37671), (133, 37674), (141, 37701), (154, 37761), (168, 37812), (178, 37854), (179, 37857), (186, 37884), (199, 37941), (203, 37959), (252, 38109), (278, 38169), (296, 38202), (298, 38211), (319, 38277), (326, 38301), (355, 38397), (369, 38445), (371, 38448), (376, 38460), (381, 38481), (386, 38493), (403, 38544), (434, 38637), (439, 38652), (469, 38727), (480, 38760), (484, 38772), (486, 38781), (495, 38811), (500, 38826), (502, 38835), (507, 38850), (525, 38904), (538, 38943), (578, 39069), (620, 39219), (623, 39240), (629, 39273), (630, 39276), (635, 39294), (641, 39318), (643, 39330), (648, 39351), (690, 39486), (699, 39507), (704, 39528), (719, 39570), (720, 39573), (753, 39681), (761, 39705), (763, 39714), (782, 39768), (784, 39777), (798, 39840), (805, 39870), (810, 39879), (818, 39978), (819, 39984), (821, 40014), (822,

40053), (824, 40140),

Gene: Efeko_13 Start: 7413, Stop: 9512, Start Num: 32

Candidate Starts for Efeko_13:

(Start: 32 @7413 has 142 MA's), (68, 7557), (72, 7572), (78, 7602), (81, 7620), (85, 7644), (101, 7716), (106, 7740), (109, 7746), (137, 7839), (156, 7917), (158, 7929), (160, 7938), (212, 8145), (221, 8169), (226, 8178), (235, 8205), (270, 8250), (291, 8295), (352, 8430), (372, 8478), (377, 8490), (389, 8523), (400, 8556), (402, 8562), (406, 8577), (415, 8598), (439, 8661), (442, 8670), (451, 8694), (453, 8700), (456, 8709), (468, 8730), (476, 8751), (477, 8754), (484, 8775), (487, 8787), (489, 8793), (497, 8820), (503, 8841), (512, 8868), (526, 8907), (531, 8925), (541, 8952), (550, 8973), (570, 9036), (572, 9039), (580, 9060), (624, 9105), (639, 9171), (653, 9222), (659, 9243), (661, 9255), (673, 9297), (732, 9420), (734, 9426),

Gene: Eightball_12 Start: 7546, Stop: 9651, Start Num: 32

Candidate Starts for Eightball_12:

(Start: 32 @7546 has 142 MA's), (Start: 38 @7567 has 3 MA's), (80, 7744), (81, 7753), (85, 7777), (101, 7849), (106, 7873), (109, 7879), (149, 8029), (156, 8050), (158, 8062), (160, 8071), (212, 8278), (218, 8296), (270, 8383), (298, 8452), (313, 8464), (328, 8512), (346, 8542), (350, 8557), (363, 8593), (374, 8620), (384, 8641), (392, 8665), (400, 8689), (402, 8695), (410, 8722), (426, 8755), (439, 8794), (449, 8821), (456, 8842), (462, 8857), (476, 8884), (477, 8887), (484, 8908), (487, 8920), (489, 8926), (503, 8974), (529, 9049), (531, 9058), (541, 9085), (550, 9106), (570, 9169), (580, 9193), (626, 9250), (653, 9355), (659, 9376), (661, 9388), (673, 9430), (682, 9451), (693, 9472),

Gene: Ekko14_12 Start: 7529, Stop: 9634, Start Num: 32

Candidate Starts for Ekko14_12:

(Start: 32 @7529 has 142 MA's), (Start: 38 @7550 has 3 MA's), (80, 7727), (81, 7736), (85, 7760), (101, 7832), (106, 7856), (137, 7955), (156, 8033), (158, 8045), (160, 8054), (212, 8261), (218, 8279), (270, 8366), (298, 8435), (313, 8447), (328, 8495), (346, 8525), (350, 8540), (384, 8624), (385, 8627), (392, 8648), (402, 8678), (410, 8705), (426, 8738), (439, 8777), (449, 8804), (451, 8810), (456, 8825), (462, 8840), (477, 8870), (484, 8891), (487, 8903), (489, 8909), (503, 8957), (515, 8993), (531, 9041), (541, 9068), (550, 9089), (570, 9152), (580, 9176), (626, 9233), (653, 9338), (659, 9359), (673, 9413), (682, 9434), (693, 9455),

Gene: Eleri_16 Start: 9444, Stop: 11852, Start Num: 21

Candidate Starts for Eleri_16:

(Start: 21 @9444 has 86 MA's), (27, 9459), (47, 9558), (71, 9648), (85, 9723), (96, 9780), (99, 9789), (116, 9852), (120, 9867), (122, 9876), (146, 9960), (158, 10005), (169, 10035), (179, 10077), (191, 10125), (210, 10185), (232, 10242), (273, 10329), (287, 10359), (288, 10362), (292, 10374), (336, 10506), (337, 10512), (354, 10563), (374, 10614), (375, 10617), (389, 10650), (394, 10665), (398, 10677), (410, 10716), (432, 10770), (440, 10791), (442, 10797), (472, 10869), (474, 10875), (486, 10911), (487, 10914), (503, 10968), (525, 11031), (529, 11043), (535, 11061), (559, 11133), (570, 11163), (583, 11199), (590, 11223), (600, 11262), (608, 11298), (611, 11307), (618, 11328), (638, 11427), (639, 11430), (650, 11478), (675, 11568), (679, 11583), (700, 11628), (709, 11655), (715, 11673), (722, 11694), (727, 11712), (732, 11721), (738, 11742), (740, 11748), (743, 11757), (760, 11814), (768, 11841), (769, 11844),

Gene: Elezi_16 Start: 10704, Stop: 13028, Start Num: 14

Candidate Starts for Elezi_16:

(Start: 14 @10704 has 63 MA's), (52, 10857), (53, 10860), (54, 10869), (75, 10950), (87, 11010), (95, 11055), (113, 11127), (138, 11208), (139, 11211), (144, 11241), (158, 11295), (167, 11325), (181, 11382), (187, 11406), (201, 11466), (202, 11472), (211, 11496), (258, 11592), (329, 11691), (399, 11787), (428, 11859), (444, 11907), (468, 11961), (482, 12003), (494, 12042), (499, 12060), (512, 12102), (547, 12195), (631, 12366), (635, 12381), (663, 12492), (709, 12624), (710, 12627), (720,

12660), (744, 12738), (755, 12777), (778, 12837), (795, 12927),

Gene: Elspeth_12 Start: 7529, Stop: 9634, Start Num: 32

Candidate Starts for Elspeth_12:

(Start: 32 @7529 has 142 MA's), (Start: 38 @7550 has 3 MA's), (80, 7727), (81, 7736), (85, 7760), (101, 7832), (106, 7856), (137, 7955), (156, 8033), (158, 8045), (160, 8054), (212, 8261), (218, 8279), (270, 8366), (298, 8435), (313, 8447), (328, 8495), (346, 8525), (350, 8540), (384, 8624), (385, 8627), (392, 8648), (402, 8678), (410, 8705), (426, 8738), (439, 8777), (449, 8804), (451, 8810), (456, 8825), (462, 8840), (477, 8870), (484, 8891), (487, 8903), (489, 8909), (503, 8957), (515, 8993), (531, 9041), (541, 9068), (550, 9089), (570, 9152), (580, 9176), (626, 9233), (653, 9338), (659, 9359), (673, 9413), (682, 9434), (693, 9455),

Gene: Emotion_15 Start: 9044, Stop: 11284, Start Num: 14

Candidate Starts for Emotion_15:

(Start: 14 @9044 has 63 MA's), (Start: 38 @9131 has 3 MA's), (64, 9233), (80, 9299), (103, 9404), (131, 9515), (133, 9521), (168, 9659), (179, 9704), (203, 9806), (209, 9824), (319, 9938), (403, 10034), (441, 10121), (459, 10160), (473, 10184), (481, 10208), (484, 10217), (489, 10235), (498, 10262), (514, 10313), (518, 10325), (538, 10382), (557, 10436), (570, 10478), (617, 10607), (633, 10664), (666, 10796), (667, 10799), (709, 10916), (739, 11012), (742, 11018), (749, 11048),

Gene: Endor_18 Start: 9902, Stop: 12169, Start Num: 20

Candidate Starts for Endor_18:

(Start: 20 @9902 has 123 MA's), (54, 10049), (71, 10109), (81, 10160), (85, 10184), (96, 10241), (99, 10250), (118, 10322), (120, 10328), (122, 10337), (146, 10421), (158, 10466), (169, 10496), (191, 10586), (210, 10646), (232, 10703), (245, 10724), (287, 10820), (288, 10823), (292, 10835), (308, 10880), (328, 10946), (336, 10967), (339, 10979), (350, 11012), (384, 11096), (389, 11111), (394, 11126), (406, 11165), (410, 11177), (432, 11231), (440, 11252), (442, 11258), (456, 11297), (471, 11327), (472, 11330), (474, 11336), (486, 11372), (535, 11522), (552, 11570), (559, 11594), (580, 11648), (630, 11726), (638, 11756), (639, 11759), (650, 11807), (662, 11849), (675, 11897), (679, 11912), (713, 11987), (738, 12059), (740, 12065), (743, 12074), (760, 12131),

Gene: Eraser_16 Start: 10704, Stop: 13028, Start Num: 14

Candidate Starts for Eraser_16:

(Start: 14 @10704 has 63 MA's), (52, 10857), (53, 10860), (54, 10869), (75, 10950), (87, 11010), (95, 11055), (113, 11127), (138, 11208), (139, 11211), (144, 11241), (158, 11295), (167, 11325), (181, 11382), (187, 11406), (201, 11466), (202, 11472), (211, 11496), (258, 11592), (329, 11691), (399, 11787), (410, 11820), (428, 11859), (444, 11907), (468, 11961), (482, 12003), (494, 12042), (499, 12060), (512, 12102), (547, 12195), (631, 12366), (635, 12381), (663, 12492), (709, 12624), (710, 12627), (720, 12660), (744, 12738), (755, 12777), (778, 12837),

Gene: Erin_12 Start: 7540, Stop: 9645, Start Num: 32

Candidate Starts for Erin_12:

(Start: 32 @7540 has 142 MA's), (Start: 38 @7561 has 3 MA's), (80, 7738), (81, 7747), (85, 7771), (101, 7843), (106, 7867), (109, 7873), (149, 8023), (156, 8044), (158, 8056), (160, 8065), (212, 8272), (218, 8290), (270, 8377), (298, 8446), (313, 8458), (328, 8506), (346, 8536), (350, 8551), (363, 8587), (374, 8614), (384, 8635), (392, 8659), (400, 8683), (402, 8689), (410, 8716), (426, 8749), (439, 8788), (449, 8815), (456, 8836), (462, 8851), (476, 8878), (477, 8881), (484, 8902), (487, 8914), (489, 8920), (503, 8968), (515, 9004), (531, 9052), (541, 9079), (550, 9100), (570, 9163), (580, 9187), (626, 9244), (653, 9349), (659, 9370), (661, 9382), (673, 9424), (682, 9445), (693, 9466), (745, 9595),

Gene: Erla_17 Start: 9645, Stop: 11915, Start Num: 20

Candidate Starts for Erla_17:

(Start: 20 @9645 has 123 MA's), (47, 9762), (54, 9792), (71, 9852), (81, 9903), (85, 9927), (96, 9984), (116, 10056), (120, 10071), (122, 10080), (146, 10164), (158, 10209), (169, 10239), (191, 10329), (210, 10389), (232, 10446), (245, 10467), (287, 10563), (288, 10566), (304, 10608), (328, 10689), (336, 10710), (339, 10722), (350, 10755), (384, 10839), (394, 10869), (406, 10908), (419, 10941), (422, 10947), (432, 10974), (437, 10986), (440, 10995), (442, 11001), (455, 11037), (460, 11049), (474, 11079), (486, 11115), (503, 11172), (535, 11265), (559, 11337), (580, 11391), (630, 11469), (638, 11499), (639, 11502), (650, 11550), (662, 11592), (675, 11640), (679, 11655), (700, 11697), (732, 11784), (740, 11811), (760, 11877),

Gene: Espinosa_17 Start: 9665, Stop: 11935, Start Num: 20

Candidate Starts for Espinosa_17:

(Start: 20 @9665 has 123 MA's), (47, 9782), (54, 9812), (71, 9872), (81, 9923), (85, 9947), (96, 10004), (120, 10091), (122, 10100), (146, 10184), (158, 10229), (168, 10256), (169, 10259), (191, 10349), (210, 10409), (232, 10466), (245, 10487), (287, 10583), (288, 10586), (304, 10628), (328, 10709), (336, 10730), (339, 10742), (350, 10775), (380, 10853), (384, 10859), (394, 10889), (406, 10928), (419, 10961), (422, 10967), (428, 10979), (432, 10994), (437, 11006), (440, 11015), (442, 11021), (460, 11069), (472, 11093), (474, 11099), (486, 11135), (503, 11192), (559, 11357), (580, 11411), (630, 11489), (638, 11519), (639, 11522), (650, 11570), (675, 11660), (679, 11675), (700, 11717), (703, 11729), (710, 11744), (740, 11831), (743, 11840), (760, 11897),

Gene: EstebanJulior_14 Start: 9752, Stop: 12301, Start Num: 12

Candidate Starts for EstebanJulior_14:

(5, 9722), (Start: 12 @9752 has 84 MA's), (45, 9881), (55, 9917), (82, 10025), (84, 10040), (118, 10187), (123, 10208), (151, 10304), (176, 10394), (200, 10487), (233, 10598), (250, 10658), (253, 10667), (342, 10940), (373, 10994), (402, 11027), (411, 11048), (414, 11054), (423, 11072), (460, 11159), (483, 11222), (500, 11276), (502, 11285), (509, 11306), (513, 11318), (514, 11321), (522, 11345), (524, 11351), (526, 11357), (529, 11366), (534, 11378), (536, 11384), (544, 11405), (555, 11438), (559, 11453), (560, 11456), (567, 11477), (569, 11483), (573, 11495), (588, 11528), (592, 11531), (594, 11540), (596, 11543), (599, 11558), (626, 11642), (635, 11681), (663, 11792), (666, 11804), (678, 11849), (709, 11924), (710, 11927), (726, 11981), (753, 12068), (755, 12077), (763, 12101), (767, 12113), (788, 12170), (789, 12176), (801, 12242), (812, 12284),

Gene: Etna_17 Start: 9762, Stop: 12029, Start Num: 20

Candidate Starts for Etna_17:

(Start: 20 @9762 has 123 MA's), (54, 9909), (72, 9972), (81, 10020), (85, 10044), (96, 10101), (99, 10110), (116, 10173), (118, 10182), (120, 10188), (122, 10197), (146, 10281), (158, 10326), (169, 10356), (191, 10446), (210, 10506), (232, 10563), (245, 10584), (287, 10680), (288, 10683), (292, 10695), (308, 10740), (328, 10806), (336, 10827), (339, 10839), (350, 10872), (384, 10956), (394, 10986), (406, 11025), (410, 11037), (432, 11091), (440, 11112), (442, 11118), (460, 11166), (471, 11187), (486, 11232), (503, 11289), (535, 11382), (580, 11508), (630, 11586), (638, 11616), (639, 11619), (650, 11667), (662, 11709), (675, 11757), (679, 11772), (700, 11814), (703, 11826), (740, 11925), (743, 11934), (760, 11991),

Gene: Etta_17 Start: 9649, Stop: 11919, Start Num: 20

Candidate Starts for Etta_17:

(Start: 20 @9649 has 123 MA's), (47, 9766), (54, 9796), (71, 9856), (81, 9907), (85, 9931), (96, 9988), (116, 10060), (120, 10075), (122, 10084), (146, 10168), (158, 10213), (169, 10243), (191, 10333), (210, 10393), (232, 10450), (245, 10471), (287, 10567), (288, 10570), (304, 10612), (328, 10693), (336, 10714), (339, 10726), (350, 10759), (384, 10843), (394, 10873), (406, 10912), (419, 10945), (422, 10951), (437, 10990), (440, 10999), (442, 11005), (455, 11041), (460, 11053), (474, 11083), (486, 11119), (503, 11176), (535, 11269), (559, 11341), (580, 11395), (630, 11473), (638, 11503), (639, 11506), (650, 11554), (662, 11596), (675, 11644), (679, 11659), (700, 11701), (732, 11788), (740, 11815), (760, 11881),

Gene: Eunoia_14 Start: 9738, Stop: 12296, Start Num: 12

Candidate Starts for Eunoia_14:

(Start: 12 @9738 has 84 MA's), (15, 9747), (22, 9777), (45, 9867), (72, 9963), (81, 10008), (84, 10026), (123, 10194), (151, 10290), (153, 10293), (156, 10308), (180, 10395), (240, 10599), (241, 10602), (262, 10686), (373, 10992), (414, 11052), (423, 11070), (428, 11076), (439, 11109), (443, 11121), (460, 11157), (471, 11184), (479, 11208), (481, 11214), (499, 11271), (506, 11295), (509, 11304), (514, 11319), (522, 11343), (526, 11355), (534, 11376), (536, 11382), (544, 11403), (552, 11427), (555, 11436), (560, 11454), (567, 11475), (569, 11481), (573, 11493), (588, 11526), (592, 11529), (596, 11541), (599, 11556), (600, 11559), (627, 11646), (648, 11736), (649, 11739), (663, 11790), (678, 11847), (683, 11856), (689, 11868), (709, 11922), (710, 11925), (726, 11979), (739, 12018), (753, 12066), (755, 12075), (763, 12099), (767, 12111), (795, 12207), (801, 12237),

Gene: Exploradora_17 Start: 9654, Stop: 11924, Start Num: 20

Candidate Starts for Exploradora_17:

(Start: 20 @9654 has 123 MA's), (47, 9771), (54, 9801), (71, 9861), (81, 9912), (85, 9936), (96, 9993), (120, 10080), (122, 10089), (146, 10173), (158, 10218), (168, 10245), (169, 10248), (191, 10338), (210, 10398), (232, 10455), (245, 10476), (287, 10572), (288, 10575), (304, 10617), (328, 10698), (336, 10719), (339, 10731), (350, 10764), (380, 10842), (384, 10848), (394, 10878), (406, 10917), (419, 10950), (422, 10956), (432, 10983), (437, 10995), (440, 11004), (442, 11010), (460, 11058), (472, 11082), (474, 11088), (486, 11124), (503, 11181), (559, 11346), (580, 11400), (630, 11478), (638, 11508), (639, 11511), (650, 11559), (675, 11649), (679, 11664), (700, 11706), (703, 11718), (710, 11733), (740, 11820), (743, 11829), (760, 11886),

Gene: Ezurina_16 Start: 9139, Stop: 11424, Start Num: 11

Candidate Starts for Ezurina_16:

(Start: 11 @9139 has 8 MA's), (54, 9295), (80, 9397), (131, 9613), (132, 9616), (168, 9757), (203, 9904), (229, 9967), (322, 10084), (333, 10117), (339, 10135), (434, 10258), (470, 10333), (484, 10375), (485, 10381), (499, 10423), (502, 10435), (503, 10438), (504, 10441), (522, 10495), (529, 10516), (532, 10525), (534, 10528), (537, 10537), (540, 10546), (543, 10552), (550, 10570), (551, 10573), (553, 10582), (559, 10603), (562, 10612), (566, 10624), (592, 10681), (599, 10708), (600, 10711), (623, 10777), (635, 10831), (646, 10885), (648, 10888), (651, 10900), (667, 10957), (668, 10963), (676, 10990), (697, 11041), (709, 11074), (710, 11077), (739, 11170), (742, 11176), (755, 11227), (763, 11251), (766, 11260), (767, 11263), (812, 11419),

Gene: Fabyndrax_16 Start: 10261, Stop: 12672, Start Num: 21

Candidate Starts for Fabyndrax_16:

(Start: 21 @10261 has 86 MA's), (27, 10276), (Start: 30 @10294 has 5 MA's), (47, 10375), (70, 10459), (72, 10468), (85, 10540), (96, 10597), (99, 10606), (116, 10669), (120, 10684), (122, 10693), (146, 10777), (158, 10822), (169, 10852), (176, 10885), (179, 10894), (191, 10942), (210, 11002), (232, 11059), (273, 11146), (287, 11176), (288, 11179), (292, 11191), (295, 11200), (314, 11257), (328, 11302), (353, 11377), (384, 11452), (403, 11509), (404, 11512), (419, 11554), (422, 11560), (432, 11587), (442, 11614), (472, 11686), (486, 11728), (490, 11740), (494, 11752), (503, 11785), (513, 11815), (514, 11818), (525, 11848), (529, 11860), (570, 11980), (584, 12019), (608, 12115), (638, 12244), (639, 12247), (650, 12295), (679, 12400), (700, 12445), (713, 12484), (715, 12490), (727, 12529), (740, 12568), (743, 12577), (760, 12634), (768, 12661), (769, 12664),

Gene: FarmerDoug_17 Start: 9472, Stop: 11733, Start Num: 21

Candidate Starts for FarmerDoug_17:

(Start: 21 @9472 has 86 MA's), (47, 9586), (54, 9616), (81, 9727), (85, 9751), (96, 9808), (99, 9817), (118, 9889), (120, 9895), (122, 9904), (146, 9988), (158, 10033), (169, 10063), (179, 10105), (191, 10153), (210, 10213), (232, 10270), (245, 10291), (287, 10387), (288, 10390), (292, 10402), (304, 10432), (328, 10513), (336, 10534), (339, 10546), (350, 10579), (384, 10663), (389, 10678), (394,

10693), (410, 10744), (419, 10765), (422, 10771), (437, 10810), (449, 10843), (460, 10873), (474, 10903), (486, 10939), (501, 10987), (503, 10996), (535, 11089), (559, 11161), (580, 11215), (630, 11293), (638, 11323), (639, 11326), (650, 11374), (675, 11464), (679, 11479), (695, 11509), (700, 11521), (738, 11623), (740, 11629), (743, 11638), (760, 11695),

Gene: Figueroism_17 Start: 9349, Stop: 11619, Start Num: 20

Candidate Starts for Figueroism_17:

(Start: 20 @9349 has 123 MA's), (47, 9466), (54, 9496), (81, 9607), (85, 9631), (96, 9688), (116, 9760), (120, 9775), (122, 9784), (146, 9868), (158, 9913), (169, 9943), (191, 10033), (210, 10093), (232, 10150), (245, 10171), (287, 10267), (288, 10270), (304, 10312), (328, 10393), (336, 10414), (339, 10426), (350, 10459), (384, 10543), (394, 10573), (406, 10612), (419, 10645), (422, 10651), (432, 10678), (437, 10690), (440, 10699), (442, 10705), (455, 10741), (460, 10753), (474, 10783), (486, 10819), (503, 10876), (535, 10969), (559, 11041), (580, 11095), (630, 11173), (638, 11203), (639, 11206), (650, 11254), (662, 11296), (675, 11344), (679, 11359), (700, 11401), (740, 11515), (743, 11524), (760, 11581),

Gene: Finny_16 Start: 9431, Stop: 11839, Start Num: 21

Candidate Starts for Finny_16:

(Start: 21 @9431 has 86 MA's), (27, 9446), (47, 9545), (71, 9635), (85, 9710), (96, 9767), (99, 9776), (116, 9839), (120, 9854), (122, 9863), (146, 9947), (158, 9992), (169, 10022), (179, 10064), (191, 10112), (210, 10172), (232, 10229), (273, 10316), (287, 10346), (288, 10349), (292, 10361), (336, 10493), (337, 10499), (354, 10550), (374, 10601), (375, 10604), (384, 10622), (389, 10637), (394, 10652), (398, 10664), (410, 10703), (432, 10757), (440, 10778), (442, 10784), (472, 10856), (474, 10862), (486, 10898), (487, 10901), (503, 10955), (525, 11018), (529, 11030), (535, 11048), (559, 11120), (570, 11150), (583, 11186), (590, 11210), (600, 11249), (608, 11285), (611, 11294), (618, 11315), (638, 11414), (639, 11417), (650, 11465), (675, 11555), (679, 11570), (700, 11615), (709, 11642), (715, 11660), (722, 11681), (727, 11699), (732, 11708), (738, 11729), (740, 11735), (743, 11744), (760, 11801), (768, 11828), (769, 11831),

Gene: FireCastle_19 Start: 13235, Stop: 15373, Start Num: 24

Candidate Starts for FireCastle_19:

(Start: 24 @13235 has 21 MA's), (64, 13385), (113, 13604), (117, 13619), (132, 13670), (168, 13811), (179, 13856), (185, 13877), (190, 13901), (208, 13973), (214, 13997), (215, 14000), (280, 14069), (292, 14078), (296, 14084), (329, 14162), (332, 14168), (350, 14210), (417, 14279), (424, 14294), (433, 14312), (458, 14345), (475, 14378), (519, 14477), (534, 14501), (547, 14534), (626, 14756), (636, 14798), (638, 14807), (654, 14873), (713, 15017), (727, 15062), (735, 15083), (739, 15098), (747, 15128), (766, 15188), (777, 15212),

Gene: FiveHead_15 Start: 8974, Stop: 11217, Start Num: 14

Candidate Starts for FiveHead_15:

(Start: 14 @8974 has 63 MA's), (Start: 38 @9061 has 3 MA's), (64, 9163), (80, 9229), (103, 9334), (131, 9445), (133, 9451), (157, 9547), (168, 9589), (203, 9736), (209, 9754), (315, 9856), (428, 10012), (459, 10090), (481, 10138), (484, 10147), (489, 10165), (502, 10207), (505, 10216), (514, 10243), (524, 10273), (536, 10306), (570, 10408), (573, 10417), (582, 10429), (588, 10450), (592, 10453), (600, 10483), (632, 10591), (709, 10846), (713, 10858), (739, 10942), (742, 10948), (749, 10978),

Gene: Floof_15 Start: 9530, Stop: 12451, Start Num: 13

Candidate Starts for Floof_15:

(Start: 13 @9530 has 7 MA's), (57, 9713), (64, 9737), (72, 9767), (79, 9809), (100, 9917), (114, 9977), (148, 10118), (161, 10172), (193, 10307), (198, 10331), (199, 10334), (217, 10403), (238, 10460), (250, 10505), (252, 10511), (269, 10577), (309, 10724), (323, 10772), (356, 10883), (391, 10988), (429, 11099), (486, 11294), (497, 11330), (510, 11372), (518, 11396), (536, 11450), (538, 11456), (542, 11468), (602, 11666), (604, 11678), (609, 11696), (638, 11798), (664, 11900), (676, 11945),

(724, 12077), (755, 12179), (760, 12191), (775, 12236), (779, 12245), (794, 12317), (804, 12380), (812, 12416),

Gene: Fluke_18 Start: 12615, Stop: 15176, Start Num: 12

Candidate Starts for Fluke_18:

(6, 12594), (Start: 12 @12615 has 84 MA's), (26, 12663), (34, 12696), (45, 12744), (53, 12768), (55, 12780), (72, 12840), (82, 12888), (84, 12903), (85, 12909), (113, 13029), (123, 13071), (151, 13167), (153, 13170), (163, 13200), (175, 13254), (212, 13395), (218, 13416), (226, 13440), (233, 13461), (237, 13470), (250, 13521), (257, 13539), (313, 13725), (373, 13869), (402, 13902), (414, 13929), (423, 13947), (428, 13953), (436, 13977), (439, 13986), (460, 14034), (471, 14061), (481, 14091), (483, 14097), (499, 14148), (503, 14163), (507, 14175), (509, 14181), (510, 14184), (513, 14193), (522, 14220), (526, 14232), (529, 14241), (534, 14253), (536, 14259), (544, 14280), (552, 14304), (555, 14313), (567, 14352), (573, 14370), (588, 14403), (592, 14406), (594, 14415), (596, 14418), (599, 14433), (627, 14523), (636, 14559), (663, 14667), (672, 14703), (709, 14799), (710, 14802), (726, 14856), (739, 14895), (753, 14943), (755, 14952), (763, 14976), (770, 14994), (788, 15045), (793, 15069), (795, 15087), (801, 15117),

Gene: Flutur_16 Start: 10730, Stop: 13045, Start Num: 14

Candidate Starts for Flutur_16:

(Start: 14 @10730 has 63 MA's), (53, 10886), (54, 10895), (75, 10976), (87, 11036), (88, 11039), (95, 11081), (113, 11153), (138, 11234), (139, 11237), (144, 11267), (167, 11351), (177, 11393), (181, 11408), (187, 11432), (201, 11492), (329, 11717), (399, 11813), (425, 11876), (428, 11885), (444, 11933), (450, 11942), (454, 11954), (468, 11987), (482, 12029), (494, 12068), (512, 12128), (561, 12269), (598, 12344), (611, 12356), (633, 12398), (635, 12407), (641, 12431), (659, 12500), (663, 12518), (666, 12530), (701, 12629), (709, 12650), (710, 12653), (720, 12686), (744, 12764), (755, 12803), (778, 12863), (795, 12944), (807, 12989), (814, 13034),

Gene: Forester_15 Start: 11062, Stop: 13983, Start Num: 13

Candidate Starts for Forester_15:

(Start: 13 @11062 has 7 MA's), (57, 11245), (64, 11269), (79, 11341), (100, 11449), (114, 11509), (161, 11704), (193, 11839), (198, 11863), (199, 11866), (238, 11992), (242, 12001), (252, 12043), (269, 12109), (309, 12256), (326, 12316), (356, 12415), (373, 12466), (382, 12496), (408, 12580), (429, 12631), (440, 12664), (497, 12862), (527, 12955), (536, 12982), (548, 13015), (554, 13036), (564, 13069), (574, 13099), (587, 13147), (602, 13198), (638, 13330), (676, 13477), (724, 13609), (755, 13711), (775, 13768), (779, 13777), (796, 13870), (804, 13912), (812, 13948),

Gene: Fulton_18 Start: 9855, Stop: 12296, Start Num: 21

Candidate Starts for Fulton_18:

(Start: 21 @9855 has 86 MA's), (Start: 30 @9888 has 5 MA's), (78, 10089), (85, 10131), (96, 10188), (102, 10206), (108, 10230), (122, 10284), (127, 10305), (146, 10368), (158, 10413), (173, 10455), (178, 10473), (191, 10524), (222, 10620), (245, 10680), (258, 10722), (273, 10746), (287, 10776), (288, 10779), (291, 10788), (308, 10836), (310, 10842), (341, 10941), (347, 10956), (353, 10977), (384, 11052), (385, 11055), (404, 11112), (415, 11142), (442, 11214), (453, 11244), (456, 11253), (472, 11286), (474, 11292), (479, 11304), (489, 11337), (494, 11352), (503, 11385), (514, 11418), (529, 11460), (574, 11592), (590, 11640), (591, 11646), (594, 11658), (613, 11727), (616, 11736), (630, 11814), (638, 11844), (678, 11997), (679, 12000), (685, 12012), (709, 12075), (715, 12093), (730, 12138), (747, 12198), (774, 12279), (776, 12282),

Gene: Gabbspett_12 Start: 7641, Stop: 9746, Start Num: 32

Candidate Starts for Gabbspett_12:

(Start: 32 @7641 has 142 MA's), (Start: 38 @7662 has 3 MA's), (80, 7839), (81, 7848), (85, 7872), (101, 7944), (106, 7968), (109, 7974), (149, 8124), (156, 8145), (158, 8157), (160, 8166), (212, 8373), (218, 8391), (270, 8478), (298, 8547), (313, 8559), (328, 8607), (346, 8637), (350, 8652), (363, 8688),

(374, 8715), (384, 8736), (392, 8760), (400, 8784), (402, 8790), (410, 8817), (426, 8850), (439, 8889), (449, 8916), (456, 8937), (462, 8952), (476, 8979), (477, 8982), (484, 9003), (487, 9015), (489, 9021), (503, 9069), (529, 9144), (531, 9153), (541, 9180), (550, 9201), (570, 9264), (580, 9288), (626, 9345), (653, 9450), (659, 9471), (661, 9483), (673, 9525), (682, 9546), (693, 9567),

Gene: GaeCeo_18 Start: 9471, Stop: 11879, Start Num: 21

Candidate Starts for GaeCeo_18:

(6, 9417), (Start: 21 @9471 has 86 MA's), (47, 9585), (71, 9675), (81, 9726), (85, 9750), (96, 9807), (120, 9894), (122, 9903), (146, 9987), (158, 10032), (169, 10062), (176, 10095), (191, 10152), (210, 10212), (232, 10269), (273, 10356), (287, 10386), (288, 10389), (308, 10446), (337, 10539), (354, 10590), (374, 10641), (384, 10662), (386, 10668), (419, 10764), (422, 10770), (427, 10779), (442, 10824), (472, 10896), (511, 11019), (525, 11058), (559, 11160), (570, 11190), (580, 11214), (583, 11226), (592, 11259), (618, 11355), (622, 11379), (638, 11454), (639, 11457), (650, 11505), (675, 11595), (678, 11607), (740, 11775), (743, 11784), (744, 11790), (760, 11841), (768, 11868), (769, 11871),

Gene: Gambol_16 Start: 10243, Stop: 12663, Start Num: 19

Candidate Starts for Gambol_16:

(Start: 19 @10243 has 21 MA's), (41, 10330), (53, 10387), (65, 10435), (69, 10447), (81, 10507), (104, 10618), (126, 10699), (160, 10825), (164, 10840), (177, 10894), (226, 11068), (251, 11152), (258, 11173), (263, 11194), (269, 11215), (282, 11266), (305, 11341), (312, 11362), (321, 11395), (340, 11452), (353, 11494), (358, 11509), (379, 11560), (393, 11596), (431, 11704), (439, 11725), (454, 11767), (459, 11779), (472, 11833), (487, 11881), (518, 11977), (572, 12133), (580, 12154), (583, 12166), (597, 12217), (650, 12367), (660, 12403), (686, 12484), (728, 12595),

Gene: GardenB_17 Start: 9762, Stop: 12026, Start Num: 21

Candidate Starts for GardenB_17:

(Start: 21 @9762 has 86 MA's), (71, 9966), (72, 9969), (81, 10017), (85, 10041), (96, 10098), (116, 10170), (120, 10185), (122, 10194), (146, 10278), (158, 10323), (169, 10353), (191, 10443), (210, 10503), (232, 10560), (245, 10581), (287, 10677), (288, 10680), (292, 10692), (308, 10737), (336, 10824), (339, 10836), (350, 10869), (353, 10878), (379, 10944), (384, 10953), (389, 10968), (394, 10983), (410, 11034), (437, 11100), (440, 11109), (442, 11115), (460, 11163), (471, 11184), (486, 11229), (503, 11286), (552, 11427), (559, 11451), (580, 11505), (630, 11583), (638, 11613), (639, 11616), (650, 11664), (675, 11754), (679, 11769), (680, 11772), (695, 11799), (740, 11922), (743, 11931), (760, 11988),

Gene: GardenState_15 Start: 10196, Stop: 12547, Start Num: 21

Candidate Starts for GardenState_15:

(Start: 21 @10196 has 86 MA's), (65, 10379), (111, 10595), (126, 10655), (149, 10739), (160, 10781), (177, 10850), (192, 10913), (218, 11009), (220, 11012), (241, 11063), (254, 11114), (285, 11228), (287, 11237), (299, 11276), (357, 11465), (391, 11549), (404, 11588), (410, 11609), (439, 11684), (479, 11786), (489, 11819), (525, 11933), (530, 11948), (531, 11954), (583, 12104), (626, 12149), (627, 12155), (656, 12266), (666, 12305), (688, 12371),

Gene: Gardevoir_12 Start: 7574, Stop: 9679, Start Num: 32

Candidate Starts for Gardevoir_12:

(Start: 32 @7574 has 142 MA's), (Start: 38 @7595 has 3 MA's), (80, 7772), (81, 7781), (85, 7805), (101, 7877), (106, 7901), (109, 7907), (149, 8057), (156, 8078), (158, 8090), (160, 8099), (212, 8306), (218, 8324), (270, 8411), (298, 8480), (313, 8492), (328, 8540), (346, 8570), (350, 8585), (363, 8621), (374, 8648), (384, 8669), (392, 8693), (400, 8717), (402, 8723), (410, 8750), (426, 8783), (439, 8822), (449, 8849), (456, 8870), (462, 8885), (476, 8912), (477, 8915), (484, 8936), (487, 8948), (489, 8954), (503, 9002), (515, 9038), (531, 9086), (541, 9113), (550, 9134), (570, 9197), (580, 9221), (626, 9278), (653, 9383), (659, 9404), (661, 9416), (673, 9458), (682, 9479), (693, 9500), (745, 9629),

Gene: Garey24_17 Start: 9628, Stop: 11898, Start Num: 20

Candidate Starts for Garey24_17:

(Start: 20 @9628 has 123 MA's), (47, 9745), (54, 9775), (71, 9835), (81, 9886), (85, 9910), (96, 9967), (116, 10039), (120, 10054), (122, 10063), (146, 10147), (158, 10192), (169, 10222), (191, 10312), (210, 10372), (232, 10429), (245, 10450), (273, 10516), (287, 10546), (288, 10549), (292, 10561), (328, 10672), (337, 10699), (354, 10750), (384, 10822), (394, 10852), (437, 10969), (442, 10984), (486, 11098), (535, 11248), (580, 11374), (630, 11452), (638, 11482), (639, 11485), (650, 11533), (662, 11575), (675, 11623), (679, 11638), (700, 11680), (732, 11767), (740, 11794), (760, 11860),

Gene: Gargoyle_17 Start: 9364, Stop: 11634, Start Num: 20

Candidate Starts for Gargoyle_17:

(Start: 20 @9364 has 123 MA's), (47, 9481), (54, 9511), (71, 9571), (81, 9622), (85, 9646), (96, 9703), (120, 9790), (122, 9799), (146, 9883), (158, 9928), (168, 9955), (169, 9958), (191, 10048), (210, 10108), (232, 10165), (245, 10186), (287, 10282), (288, 10285), (304, 10327), (328, 10408), (336, 10429), (339, 10441), (350, 10474), (380, 10552), (384, 10558), (394, 10588), (406, 10627), (419, 10660), (422, 10666), (428, 10678), (432, 10693), (437, 10705), (440, 10714), (442, 10720), (460, 10768), (472, 10792), (486, 10834), (503, 10891), (559, 11056), (580, 11110), (630, 11188), (638, 11218), (639, 11221), (650, 11269), (675, 11359), (679, 11374), (703, 11428), (710, 11443), (740, 11530), (743, 11539), (760, 11596),

Gene: Gelo_17 Start: 9649, Stop: 11919, Start Num: 20

Candidate Starts for Gelo_17:

(Start: 20 @9649 has 123 MA's), (47, 9766), (54, 9796), (71, 9856), (81, 9907), (85, 9931), (96, 9988), (116, 10060), (120, 10075), (122, 10084), (146, 10168), (158, 10213), (169, 10243), (191, 10333), (210, 10393), (232, 10450), (245, 10471), (287, 10567), (288, 10570), (304, 10612), (328, 10693), (336, 10714), (339, 10726), (350, 10759), (384, 10843), (394, 10873), (406, 10912), (419, 10945), (422, 10951), (432, 10978), (437, 10990), (440, 10999), (442, 11005), (455, 11041), (460, 11053), (474, 11083), (486, 11119), (503, 11176), (535, 11269), (559, 11341), (580, 11395), (630, 11473), (638, 11503), (639, 11506), (650, 11554), (662, 11596), (675, 11644), (679, 11659), (700, 11701), (732, 11788), (740, 11815), (760, 11881),

Gene: Gerri43_17 Start: 9567, Stop: 11855, Start Num: 9

Candidate Starts for Gerri43_17:

(Start: 9 @9567 has 3 MA's), (Start: 11 @9570 has 8 MA's), (40, 9669), (80, 9828), (131, 10044), (168, 10188), (196, 10299), (203, 10335), (215, 10377), (322, 10515), (332, 10545), (333, 10548), (339, 10566), (373, 10608), (435, 10692), (443, 10716), (470, 10764), (484, 10806), (485, 10812), (499, 10854), (504, 10872), (518, 10914), (522, 10926), (529, 10947), (537, 10968), (540, 10977), (543, 10983), (550, 11001), (551, 11004), (559, 11034), (562, 11043), (592, 11112), (599, 11139), (600, 11142), (623, 11208), (627, 11229), (633, 11253), (639, 11277), (646, 11316), (666, 11385), (668, 11394), (676, 11421), (709, 11505), (710, 11508), (739, 11601), (742, 11607), (755, 11658), (763, 11682), (766, 11691), (783, 11736), (812, 11850),

Gene: Gershwin_17 Start: 9667, Stop: 11937, Start Num: 20

Candidate Starts for Gershwin_17:

(Start: 20 @9667 has 123 MA's), (47, 9784), (54, 9814), (71, 9874), (81, 9925), (85, 9949), (96, 10006), (120, 10093), (122, 10102), (146, 10186), (158, 10231), (168, 10258), (169, 10261), (191, 10351), (210, 10411), (232, 10468), (245, 10489), (287, 10585), (288, 10588), (304, 10630), (328, 10711), (336, 10732), (339, 10744), (350, 10777), (380, 10855), (384, 10861), (394, 10891), (406, 10930), (419, 10963), (422, 10969), (428, 10981), (432, 10996), (437, 11008), (440, 11017), (442, 11023), (460, 11071), (472, 11095), (474, 11101), (486, 11137), (503, 11194), (559, 11359), (580, 11413), (630, 11491), (638, 11521), (639, 11524), (650, 11572), (675, 11662), (679, 11677), (700, 11719), (703, 11731), (710, 11746), (740, 11833), (743, 11842), (760, 11899),

Gene: Gillker_12 Start: 7539, Stop: 9644, Start Num: 32

Candidate Starts for Gillker_12:

(Start: 32 @7539 has 142 MA's), (Start: 38 @7560 has 3 MA's), (80, 7737), (81, 7746), (85, 7770), (101, 7842), (106, 7866), (109, 7872), (149, 8022), (156, 8043), (158, 8055), (160, 8064), (212, 8271), (218, 8289), (270, 8376), (298, 8445), (313, 8457), (328, 8505), (346, 8535), (350, 8550), (363, 8586), (374, 8613), (384, 8634), (392, 8658), (400, 8682), (402, 8688), (410, 8715), (426, 8748), (439, 8787), (449, 8814), (456, 8835), (462, 8850), (476, 8877), (477, 8880), (484, 8901), (487, 8913), (489, 8919), (503, 8967), (515, 9003), (531, 9051), (541, 9078), (550, 9099), (570, 9162), (580, 9186), (626, 9243), (653, 9348), (659, 9369), (661, 9381), (673, 9423), (682, 9444), (693, 9465), (745, 9594),

Gene: Giorgio_16 Start: 10343, Stop: 12763, Start Num: 19

Candidate Starts for Giorgio_16:

(Start: 19 @10343 has 21 MA's), (41, 10430), (65, 10535), (69, 10547), (81, 10607), (104, 10718), (126, 10799), (160, 10925), (164, 10940), (177, 10994), (226, 11168), (251, 11252), (258, 11273), (269, 11315), (305, 11441), (312, 11462), (321, 11495), (340, 11552), (353, 11594), (358, 11609), (379, 11660), (393, 11696), (395, 11702), (431, 11804), (439, 11825), (454, 11867), (470, 11927), (472, 11933), (487, 11981), (518, 12077), (572, 12233), (580, 12254), (583, 12266), (597, 12317), (650, 12467), (660, 12503), (686, 12584), (719, 12671), (728, 12695),

Gene: Gisselle_14 Start: 9784, Stop: 12330, Start Num: 12

Candidate Starts for Gisselle_14:

(6, 9763), (Start: 12 @9784 has 84 MA's), (26, 9832), (45, 9913), (59, 9967), (72, 10009), (82, 10057), (84, 10072), (85, 10078), (123, 10240), (140, 10285), (151, 10336), (153, 10339), (212, 10564), (218, 10585), (237, 10639), (243, 10657), (244, 10660), (250, 10690), (373, 11026), (411, 11080), (414, 11086), (423, 11104), (428, 11110), (443, 11155), (459, 11188), (460, 11191), (478, 11239), (479, 11242), (483, 11254), (485, 11263), (500, 11308), (502, 11317), (509, 11338), (513, 11350), (514, 11353), (522, 11377), (524, 11383), (526, 11389), (534, 11410), (536, 11416), (544, 11437), (552, 11461), (555, 11470), (560, 11488), (567, 11509), (569, 11515), (588, 11560), (592, 11563), (594, 11572), (596, 11575), (626, 11674), (627, 11680), (640, 11734), (663, 11824), (709, 11956), (710, 11959), (726, 12013), (739, 12052), (744, 12070), (753, 12100), (755, 12109), (770, 12151), (801, 12271),

Gene: Glamour_15 Start: 9432, Stop: 11840, Start Num: 21

Candidate Starts for Glamour_15:

(Start: 21 @9432 has 86 MA's), (27, 9447), (47, 9546), (71, 9636), (85, 9711), (96, 9768), (99, 9777), (116, 9840), (120, 9855), (122, 9864), (146, 9948), (158, 9993), (169, 10023), (179, 10065), (191, 10113), (210, 10173), (232, 10230), (273, 10317), (287, 10347), (288, 10350), (292, 10362), (336, 10494), (337, 10500), (354, 10551), (374, 10602), (375, 10605), (389, 10638), (394, 10653), (398, 10665), (410, 10704), (432, 10758), (440, 10779), (442, 10785), (472, 10857), (474, 10863), (486, 10899), (487, 10902), (503, 10956), (525, 11019), (529, 11031), (535, 11049), (559, 11121), (570, 11151), (583, 11187), (590, 11211), (600, 11250), (608, 11286), (611, 11295), (618, 11316), (638, 11415), (639, 11418), (650, 11466), (675, 11556), (679, 11571), (700, 11616), (709, 11643), (715, 11661), (722, 11682), (727, 11700), (732, 11709), (738, 11730), (740, 11736), (743, 11745), (760, 11802), (768, 11829), (769, 11832),

Gene: Glenn_18 Start: 12624, Stop: 15185, Start Num: 12

Candidate Starts for Glenn_18:

(6, 12603), (Start: 12 @12624 has 84 MA's), (26, 12672), (34, 12705), (45, 12753), (53, 12777), (55, 12789), (72, 12849), (82, 12897), (84, 12912), (85, 12918), (113, 13038), (123, 13080), (151, 13176), (153, 13179), (163, 13209), (175, 13263), (212, 13404), (218, 13425), (226, 13449), (233, 13470), (237, 13479), (250, 13530), (257, 13548), (313, 13734), (373, 13878), (402, 13911), (414, 13938), (423, 13956), (428, 13962), (436, 13986), (439, 13995), (460, 14043), (471, 14070), (481, 14100),

(483, 14106), (499, 14157), (503, 14172), (507, 14184), (509, 14190), (510, 14193), (513, 14202), (522, 14229), (526, 14241), (529, 14250), (534, 14262), (536, 14268), (544, 14289), (552, 14313), (555, 14322), (567, 14361), (573, 14379), (588, 14412), (592, 14415), (594, 14424), (596, 14427), (599, 14442), (627, 14532), (636, 14568), (663, 14676), (672, 14712), (709, 14808), (710, 14811), (726, 14865), (739, 14904), (753, 14952), (755, 14961), (763, 14985), (770, 15003), (788, 15054), (793, 15078), (795, 15096), (801, 15126),

Gene: Godfather_12 Start: 7552, Stop: 9657, Start Num: 32

Candidate Starts for Godfather_12:

(Start: 32 @7552 has 142 MA's), (Start: 38 @7573 has 3 MA's), (80, 7750), (81, 7759), (85, 7783), (101, 7855), (106, 7879), (109, 7885), (149, 8035), (156, 8056), (158, 8068), (160, 8077), (212, 8284), (218, 8302), (270, 8389), (298, 8458), (313, 8470), (328, 8518), (346, 8548), (350, 8563), (363, 8599), (374, 8626), (384, 8647), (392, 8671), (400, 8695), (402, 8701), (410, 8728), (426, 8761), (439, 8800), (449, 8827), (456, 8848), (462, 8863), (476, 8890), (477, 8893), (484, 8914), (487, 8926), (489, 8932), (503, 8980), (529, 9055), (531, 9064), (541, 9091), (550, 9112), (570, 9175), (580, 9199), (626, 9256), (653, 9361), (659, 9382), (661, 9394), (673, 9436), (682, 9457), (693, 9478),

Gene: GoingMerry_17 Start: 9375, Stop: 11645, Start Num: 20

Candidate Starts for GoingMerry_17:

(Start: 20 @9375 has 123 MA's), (47, 9492), (54, 9522), (71, 9582), (81, 9633), (85, 9657), (96, 9714), (116, 9786), (120, 9801), (122, 9810), (146, 9894), (158, 9939), (169, 9969), (191, 10059), (210, 10119), (232, 10176), (245, 10197), (287, 10293), (288, 10296), (304, 10338), (328, 10419), (336, 10440), (339, 10452), (350, 10485), (384, 10569), (394, 10599), (406, 10638), (419, 10671), (422, 10677), (432, 10704), (437, 10716), (440, 10725), (442, 10731), (455, 10767), (460, 10779), (474, 10809), (486, 10845), (503, 10902), (514, 10935), (535, 10995), (559, 11067), (630, 11199), (638, 11229), (639, 11232), (650, 11280), (662, 11322), (675, 11370), (679, 11385), (700, 11427), (710, 11454), (740, 11541), (743, 11550), (760, 11607),

Gene: Golden_17 Start: 9668, Stop: 12076, Start Num: 21

Candidate Starts for Golden_17:

(Start: 21 @9668 has 86 MA's), (33, 9719), (47, 9782), (62, 9842), (81, 9923), (85, 9947), (96, 10004), (120, 10091), (122, 10100), (146, 10184), (158, 10229), (169, 10259), (176, 10292), (191, 10349), (210, 10409), (232, 10466), (251, 10508), (258, 10529), (273, 10553), (287, 10583), (288, 10586), (292, 10598), (308, 10643), (333, 10721), (336, 10730), (337, 10736), (354, 10787), (373, 10835), (375, 10841), (384, 10859), (385, 10862), (389, 10874), (404, 10919), (410, 10940), (432, 10994), (442, 11021), (479, 11111), (559, 11357), (570, 11387), (584, 11426), (592, 11456), (594, 11465), (603, 11498), (618, 11552), (622, 11576), (638, 11651), (639, 11654), (650, 11702), (675, 11792), (679, 11807), (695, 11840), (740, 11972), (743, 11981), (744, 11987), (760, 12038),

Gene: GoldenBlanche_12 Start: 7540, Stop: 9645, Start Num: 32

Candidate Starts for GoldenBlanche_12:

(Start: 32 @7540 has 142 MA's), (Start: 38 @7561 has 3 MA's), (80, 7738), (81, 7747), (85, 7771), (101, 7843), (106, 7867), (109, 7873), (149, 8023), (156, 8044), (158, 8056), (160, 8065), (212, 8272), (218, 8290), (270, 8377), (298, 8446), (313, 8458), (328, 8506), (346, 8536), (350, 8551), (363, 8587), (374, 8614), (384, 8635), (392, 8659), (400, 8683), (402, 8689), (410, 8716), (426, 8749), (439, 8788), (449, 8815), (456, 8836), (462, 8851), (476, 8878), (477, 8881), (484, 8902), (487, 8914), (489, 8920), (503, 8968), (515, 9004), (531, 9052), (541, 9079), (550, 9100), (570, 9163), (580, 9187), (626, 9244), (653, 9349), (659, 9370), (661, 9382), (673, 9424), (682, 9445), (693, 9466), (745, 9595),

Gene: GoneGirl_18 Start: 9868, Stop: 12132, Start Num: 21

Candidate Starts for GoneGirl_18:

(Start: 21 @9868 has 86 MA's), (71, 10072), (72, 10075), (81, 10123), (85, 10147), (96, 10204), (116, 10276), (120, 10291), (122, 10300), (146, 10384), (158, 10429), (169, 10459), (191, 10549), (210,

10609), (232, 10666), (245, 10687), (287, 10783), (288, 10786), (292, 10798), (308, 10843), (336, 10930), (339, 10942), (350, 10975), (353, 10984), (379, 11050), (384, 11059), (389, 11074), (394, 11089), (410, 11140), (437, 11206), (440, 11215), (442, 11221), (460, 11269), (471, 11290), (486, 11335), (503, 11392), (552, 11533), (559, 11557), (580, 11611), (630, 11689), (638, 11719), (639, 11722), (650, 11770), (675, 11860), (679, 11875), (680, 11878), (695, 11905), (740, 12028), (743, 12037), (760, 12094),

Gene: Goobery_12 Start: 7546, Stop: 9651, Start Num: 32

Candidate Starts for Goobery_12:

(Start: 32 @7546 has 142 MA's), (Start: 38 @7567 has 3 MA's), (80, 7744), (81, 7753), (85, 7777), (101, 7849), (106, 7873), (109, 7879), (149, 8029), (156, 8050), (158, 8062), (160, 8071), (212, 8278), (218, 8296), (270, 8383), (298, 8452), (313, 8464), (328, 8512), (346, 8542), (350, 8557), (363, 8593), (374, 8620), (384, 8641), (392, 8665), (400, 8689), (402, 8695), (410, 8722), (426, 8755), (439, 8794), (449, 8821), (456, 8842), (462, 8857), (476, 8884), (477, 8887), (484, 8908), (487, 8920), (489, 8926), (503, 8974), (529, 9049), (531, 9058), (541, 9085), (550, 9106), (570, 9169), (580, 9193), (626, 9250), (653, 9355), (659, 9376), (661, 9388), (673, 9430), (682, 9451), (693, 9472),

Gene: Goodman_20 Start: 13490, Stop: 15478, Start Num: 24

Candidate Starts for Goodman_20:

(1, 13391), (Start: 24 @13490 has 21 MA's), (64, 13640), (69, 13655), (72, 13667), (113, 13859), (120, 13883), (132, 13925), (154, 14015), (168, 14066), (185, 14132), (203, 14213), (208, 14228), (214, 14252), (296, 14339), (337, 14441), (350, 14465), (417, 14534), (433, 14567), (547, 14765), (592, 14792), (597, 14810), (623, 14864), (634, 14912), (637, 14924), (638, 14930), (654, 14996), (658, 15008), (659, 15011), (727, 15185), (739, 15221), (747, 15251), (766, 15311), (808, 15452),

Gene: Goulash_12 Start: 7540, Stop: 9645, Start Num: 32

Candidate Starts for Goulash_12:

(Start: 32 @7540 has 142 MA's), (Start: 38 @7561 has 3 MA's), (80, 7738), (81, 7747), (85, 7771), (101, 7843), (106, 7867), (109, 7873), (149, 8023), (156, 8044), (158, 8056), (160, 8065), (212, 8272), (218, 8290), (270, 8377), (298, 8446), (313, 8458), (328, 8506), (346, 8536), (350, 8551), (363, 8587), (374, 8614), (384, 8635), (392, 8659), (400, 8683), (402, 8689), (410, 8716), (426, 8749), (439, 8788), (449, 8815), (456, 8836), (462, 8851), (476, 8878), (477, 8881), (484, 8902), (487, 8914), (489, 8920), (503, 8968), (515, 9004), (531, 9052), (541, 9079), (550, 9100), (570, 9163), (580, 9187), (626, 9244), (639, 9298), (653, 9349), (659, 9370), (661, 9382), (673, 9424), (682, 9445), (693, 9466), (745, 9595),

Gene: Graynor_18 Start: 12633, Stop: 15188, Start Num: 12

Candidate Starts for Graynor_18:

(6, 12612), (Start: 12 @12633 has 84 MA's), (26, 12681), (45, 12762), (53, 12786), (72, 12858), (82, 12906), (84, 12921), (85, 12927), (123, 13089), (140, 13134), (151, 13185), (153, 13188), (163, 13218), (175, 13272), (197, 13356), (233, 13479), (250, 13539), (257, 13557), (261, 13572), (276, 13623), (352, 13854), (368, 13878), (414, 13947), (423, 13965), (428, 13971), (447, 14025), (454, 14037), (464, 14058), (472, 14082), (500, 14169), (507, 14193), (509, 14199), (510, 14202), (514, 14214), (521, 14235), (522, 14238), (524, 14244), (526, 14250), (532, 14268), (534, 14271), (536, 14277), (546, 14301), (552, 14322), (555, 14331), (560, 14349), (567, 14370), (570, 14379), (573, 14388), (588, 14421), (592, 14424), (594, 14433), (596, 14436), (610, 14487), (636, 14577), (663, 14685), (666, 14697), (671, 14718), (672, 14721), (709, 14817), (710, 14820), (726, 14874), (739, 14913), (755, 14970), (770, 15012), (788, 15060), (795, 15102), (801, 15132),

Gene: Grayscar_12 Start: 7552, Stop: 9657, Start Num: 32

Candidate Starts for Grayscar_12:

(Start: 32 @7552 has 142 MA's), (Start: 38 @7573 has 3 MA's), (80, 7750), (81, 7759), (85, 7783), (101, 7855), (106, 7879), (109, 7885), (149, 8035), (156, 8056), (158, 8068), (160, 8077), (212, 8284), (218, 8302), (270, 8389), (298, 8458), (313, 8470), (328, 8518), (346, 8548), (350, 8563), (363, 8599),

(374, 8626), (384, 8647), (392, 8671), (400, 8695), (402, 8701), (410, 8728), (426, 8761), (439, 8800), (449, 8827), (456, 8848), (462, 8863), (476, 8890), (477, 8893), (484, 8914), (487, 8926), (489, 8932), (503, 8980), (529, 9055), (531, 9064), (541, 9091), (550, 9112), (570, 9175), (580, 9199), (626, 9256), (653, 9361), (659, 9382), (661, 9394), (673, 9436), (682, 9457), (693, 9478),

Gene: GreenHearts_18 Start: 12707, Stop: 15268, Start Num: 12

Candidate Starts for GreenHearts_18:

(6, 12686), (Start: 12 @12707 has 84 MA's), (37, 12797), (45, 12836), (55, 12872), (72, 12932), (82, 12980), (84, 12995), (123, 13163), (140, 13208), (151, 13259), (153, 13262), (175, 13346), (226, 13532), (240, 13568), (243, 13580), (253, 13622), (352, 13931), (414, 14024), (423, 14042), (428, 14048), (460, 14129), (464, 14135), (473, 14162), (483, 14192), (502, 14255), (507, 14270), (510, 14279), (511, 14282), (514, 14291), (522, 14315), (526, 14327), (528, 14333), (534, 14348), (536, 14354), (537, 14357), (546, 14378), (551, 14393), (555, 14408), (560, 14426), (562, 14432), (567, 14447), (570, 14456), (573, 14465), (588, 14498), (592, 14501), (596, 14513), (597, 14519), (600, 14531), (623, 14597), (626, 14612), (633, 14642), (635, 14651), (663, 14762), (672, 14798), (678, 14819), (709, 14894), (710, 14897), (726, 14951), (739, 14990), (755, 15047), (763, 15071), (780, 15113), (788, 15140), (801, 15209),

Gene: Greenlvy_18 Start: 9872, Stop: 12313, Start Num: 21

Candidate Starts for Greenlvy_18:

(Start: 21 @9872 has 86 MA's), (Start: 30 @9905 has 5 MA's), (78, 10106), (85, 10148), (96, 10205), (102, 10223), (108, 10247), (122, 10301), (127, 10322), (146, 10385), (158, 10430), (173, 10472), (178, 10490), (191, 10541), (222, 10637), (245, 10697), (258, 10739), (273, 10763), (287, 10793), (288, 10796), (291, 10805), (308, 10853), (310, 10859), (341, 10958), (347, 10973), (353, 10994), (384, 11069), (385, 11072), (404, 11129), (415, 11159), (442, 11231), (453, 11261), (456, 11270), (472, 11303), (474, 11309), (479, 11321), (489, 11354), (494, 11369), (503, 11402), (514, 11435), (525, 11465), (529, 11477), (574, 11609), (590, 11657), (591, 11663), (594, 11675), (613, 11744), (616, 11753), (630, 11831), (638, 11861), (678, 12014), (679, 12017), (685, 12029), (709, 12092), (715, 12110), (730, 12155), (747, 12215), (774, 12296), (776, 12299),

Gene: Greenhouse_18 Start: 12631, Stop: 15192, Start Num: 12

Candidate Starts for Greenhouse_18:

(6, 12610), (Start: 12 @12631 has 84 MA's), (37, 12721), (45, 12760), (60, 12817), (72, 12856), (82, 12904), (84, 12919), (123, 13087), (140, 13132), (151, 13183), (163, 13216), (212, 13411), (233, 13477), (240, 13492), (243, 13504), (253, 13546), (284, 13657), (313, 13744), (352, 13855), (373, 13888), (414, 13948), (428, 13972), (429, 13975), (460, 14053), (464, 14059), (465, 14062), (473, 14086), (483, 14116), (502, 14179), (507, 14194), (509, 14200), (510, 14203), (514, 14215), (522, 14239), (526, 14251), (528, 14257), (534, 14272), (536, 14278), (537, 14281), (546, 14302), (551, 14317), (555, 14332), (560, 14350), (562, 14356), (567, 14371), (570, 14380), (588, 14422), (592, 14425), (596, 14437), (597, 14443), (600, 14455), (616, 14503), (623, 14521), (626, 14536), (633, 14566), (635, 14575), (663, 14686), (672, 14722), (678, 14743), (709, 14818), (710, 14821), (726, 14875), (739, 14914), (755, 14971), (763, 14995), (780, 15037), (788, 15064), (801, 15133),

Gene: Gretchen_15 Start: 11056, Stop: 13977, Start Num: 13

Candidate Starts for Gretchen_15:

(Start: 13 @11056 has 7 MA's), (57, 11239), (64, 11263), (79, 11335), (100, 11443), (114, 11503), (161, 11698), (193, 11833), (198, 11857), (199, 11860), (238, 11986), (242, 11995), (252, 12037), (269, 12103), (309, 12250), (326, 12310), (356, 12409), (373, 12460), (382, 12490), (408, 12574), (429, 12625), (440, 12658), (497, 12856), (527, 12949), (536, 12976), (548, 13009), (554, 13030), (564, 13063), (574, 13093), (587, 13141), (602, 13192), (638, 13324), (676, 13471), (724, 13603), (755, 13705), (775, 13762), (779, 13771), (796, 13864), (804, 13906), (812, 13942),

Gene: Greys_17 Start: 9362, Stop: 11632, Start Num: 20

Candidate Starts for Greys_17:

(Start: 20 @9362 has 123 MA's), (47, 9479), (54, 9509), (81, 9620), (85, 9644), (96, 9701), (116, 9773), (120, 9788), (122, 9797), (146, 9881), (158, 9926), (169, 9956), (191, 10046), (210, 10106), (232, 10163), (245, 10184), (287, 10280), (288, 10283), (304, 10325), (328, 10406), (336, 10427), (339, 10439), (350, 10472), (384, 10556), (394, 10586), (406, 10625), (419, 10658), (422, 10664), (437, 10703), (440, 10712), (442, 10718), (455, 10754), (460, 10766), (474, 10796), (486, 10832), (503, 10889), (514, 10922), (535, 10982), (559, 11054), (630, 11186), (638, 11216), (639, 11219), (650, 11267), (662, 11309), (675, 11357), (679, 11372), (700, 11414), (710, 11441), (740, 11528), (743, 11537), (760, 11594),

Gene: Gubbabump_17 Start: 9656, Stop: 11926, Start Num: 20

Candidate Starts for Gubbabump_17:

(Start: 20 @9656 has 123 MA's), (47, 9773), (54, 9803), (71, 9863), (81, 9914), (85, 9938), (96, 9995), (120, 10082), (122, 10091), (146, 10175), (158, 10220), (168, 10247), (169, 10250), (191, 10340), (210, 10400), (232, 10457), (245, 10478), (287, 10574), (288, 10577), (304, 10619), (328, 10700), (336, 10721), (339, 10733), (350, 10766), (380, 10844), (384, 10850), (394, 10880), (406, 10919), (419, 10952), (422, 10958), (432, 10985), (437, 10997), (440, 11006), (442, 11012), (460, 11060), (472, 11084), (474, 11090), (486, 11126), (503, 11183), (559, 11348), (580, 11402), (630, 11480), (638, 11510), (639, 11513), (650, 11561), (675, 11651), (679, 11666), (700, 11708), (703, 11720), (710, 11735), (740, 11822), (743, 11831), (760, 11888),

Gene: Guetzie_17 Start: 9662, Stop: 12070, Start Num: 21

Candidate Starts for Guetzie_17:

(Start: 21 @9662 has 86 MA's), (33, 9713), (47, 9776), (62, 9836), (81, 9917), (85, 9941), (96, 9998), (120, 10085), (122, 10094), (146, 10178), (158, 10223), (169, 10253), (176, 10286), (191, 10343), (210, 10403), (232, 10460), (251, 10502), (258, 10523), (273, 10547), (287, 10577), (288, 10580), (308, 10637), (333, 10715), (336, 10724), (337, 10730), (354, 10781), (373, 10829), (375, 10835), (384, 10853), (385, 10856), (389, 10868), (404, 10913), (410, 10934), (432, 10988), (442, 11015), (559, 11351), (570, 11381), (584, 11420), (592, 11450), (594, 11459), (603, 11492), (618, 11546), (622, 11570), (638, 11645), (639, 11648), (650, 11696), (675, 11786), (679, 11801), (695, 11834), (740, 11966), (743, 11975), (744, 11981), (752, 12008), (760, 12032),

Gene: Gumpizza_16 Start: 10336, Stop: 12756, Start Num: 19

Candidate Starts for Gumpizza_16:

(Start: 19 @10336 has 21 MA's), (41, 10423), (65, 10528), (69, 10540), (81, 10600), (104, 10711), (126, 10792), (160, 10918), (164, 10933), (177, 10987), (226, 11161), (251, 11245), (258, 11266), (269, 11308), (305, 11434), (312, 11455), (321, 11488), (340, 11545), (353, 11587), (358, 11602), (379, 11653), (393, 11689), (395, 11695), (431, 11797), (439, 11818), (454, 11860), (470, 11920), (472, 11926), (487, 11974), (518, 12070), (572, 12226), (580, 12247), (583, 12259), (597, 12310), (650, 12460), (660, 12496), (719, 12664), (728, 12688),

Gene: HairyMan_15 Start: 9170, Stop: 11575, Start Num: 21

Candidate Starts for HairyMan_15:

(Start: 21 @9170 has 86 MA's), (27, 9185), (72, 9374), (81, 9422), (85, 9446), (91, 9473), (96, 9503), (99, 9512), (116, 9575), (120, 9590), (122, 9599), (146, 9683), (158, 9728), (169, 9758), (191, 9848), (210, 9908), (232, 9965), (273, 10052), (287, 10082), (288, 10085), (310, 10148), (314, 10163), (328, 10208), (336, 10229), (343, 10250), (362, 10307), (374, 10337), (378, 10346), (394, 10388), (404, 10418), (428, 10478), (432, 10493), (442, 10520), (472, 10592), (486, 10634), (514, 10724), (525, 10754), (529, 10766), (570, 10886), (575, 10901), (584, 10925), (601, 10988), (613, 11033), (616, 11042), (622, 11075), (630, 11120), (638, 11150), (639, 11153), (650, 11201), (653, 11207), (675, 11291), (678, 11303), (679, 11306), (698, 11345), (715, 11396), (722, 11417), (738, 11465), (740, 11471), (743, 11480), (752, 11513), (760, 11537), (769, 11567),

Gene: Halsey_16 Start: 10335, Stop: 12755, Start Num: 19

Candidate Starts for Halsey_16:

(Start: 19 @10335 has 21 MA's), (41, 10422), (65, 10527), (69, 10539), (81, 10599), (104, 10710), (126, 10791), (160, 10917), (164, 10932), (177, 10986), (226, 11160), (251, 11244), (258, 11265), (269, 11307), (305, 11433), (312, 11454), (321, 11487), (340, 11544), (353, 11586), (358, 11601), (379, 11652), (393, 11688), (395, 11694), (431, 11796), (439, 11817), (454, 11859), (470, 11919), (472, 11925), (487, 11973), (518, 12069), (580, 12246), (583, 12258), (597, 12309), (633, 12390), (650, 12459), (660, 12495), (686, 12576), (694, 12591), (719, 12663), (728, 12687),

Gene: Hamlet_17 Start: 9771, Stop: 12038, Start Num: 20

Candidate Starts for Hamlet_17:

(Start: 20 @9771 has 123 MA's), (54, 9918), (72, 9981), (81, 10029), (85, 10053), (96, 10110), (99, 10119), (116, 10182), (118, 10191), (120, 10197), (122, 10206), (146, 10290), (158, 10335), (169, 10365), (191, 10455), (210, 10515), (232, 10572), (245, 10593), (287, 10689), (288, 10692), (292, 10704), (308, 10749), (328, 10815), (336, 10836), (339, 10848), (350, 10881), (384, 10965), (394, 10995), (406, 11034), (410, 11046), (432, 11100), (440, 11121), (442, 11127), (460, 11175), (471, 11196), (486, 11241), (503, 11298), (535, 11391), (580, 11517), (630, 11595), (638, 11625), (639, 11628), (650, 11676), (675, 11766), (679, 11781), (695, 11811), (740, 11934), (743, 11943), (760, 12000),

Gene: HanSolo_17 Start: 9654, Stop: 11924, Start Num: 20

Candidate Starts for HanSolo_17:

(Start: 20 @9654 has 123 MA's), (47, 9771), (54, 9801), (71, 9861), (81, 9912), (85, 9936), (96, 9993), (120, 10080), (122, 10089), (146, 10173), (158, 10218), (168, 10245), (169, 10248), (191, 10338), (210, 10398), (232, 10455), (245, 10476), (287, 10572), (288, 10575), (304, 10617), (328, 10698), (336, 10719), (339, 10731), (350, 10764), (380, 10842), (384, 10848), (394, 10878), (406, 10917), (419, 10950), (422, 10956), (428, 10968), (432, 10983), (437, 10995), (440, 11004), (442, 11010), (460, 11058), (472, 11082), (474, 11088), (486, 11124), (503, 11181), (559, 11346), (580, 11400), (630, 11478), (638, 11508), (639, 11511), (650, 11559), (675, 11649), (679, 11664), (700, 11706), (703, 11718), (710, 11733), (740, 11820), (743, 11829), (760, 11886),

Gene: HankSprout_18 Start: 9534, Stop: 11804, Start Num: 20

Candidate Starts for HankSprout_18:

(Start: 20 @9534 has 123 MA's), (47, 9651), (54, 9681), (71, 9741), (81, 9792), (85, 9816), (96, 9873), (120, 9960), (122, 9969), (146, 10053), (158, 10098), (168, 10125), (169, 10128), (191, 10218), (210, 10278), (232, 10335), (245, 10356), (287, 10452), (288, 10455), (304, 10497), (328, 10578), (336, 10599), (339, 10611), (350, 10644), (380, 10722), (384, 10728), (394, 10758), (406, 10797), (419, 10830), (422, 10836), (432, 10863), (437, 10875), (440, 10884), (442, 10890), (460, 10938), (472, 10962), (474, 10968), (486, 11004), (503, 11061), (559, 11226), (580, 11280), (630, 11358), (638, 11388), (639, 11391), (650, 11439), (675, 11529), (679, 11544), (700, 11586), (703, 11598), (710, 11613), (740, 11700), (743, 11709), (760, 11766),

Gene: HarperAnne_12 Start: 7528, Stop: 9633, Start Num: 32

Candidate Starts for HarperAnne_12:

(Start: 32 @7528 has 142 MA's), (Start: 38 @7549 has 3 MA's), (80, 7726), (81, 7735), (85, 7759), (101, 7831), (106, 7855), (137, 7954), (156, 8032), (158, 8044), (160, 8053), (212, 8260), (218, 8278), (270, 8365), (298, 8434), (313, 8446), (328, 8494), (346, 8524), (350, 8539), (384, 8623), (385, 8626), (392, 8647), (402, 8677), (410, 8704), (426, 8737), (439, 8776), (449, 8803), (451, 8809), (456, 8824), (462, 8839), (477, 8869), (484, 8890), (487, 8902), (489, 8908), (503, 8956), (515, 8992), (531, 9040), (541, 9067), (550, 9088), (570, 9151), (580, 9175), (626, 9232), (653, 9337), (659, 9358), (673, 9412), (682, 9433), (693, 9454),

Gene: Hasitha_18 Start: 9873, Stop: 12314, Start Num: 21

Candidate Starts for Hasitha_18:

(Start: 21 @9873 has 86 MA's), (Start: 30 @9906 has 5 MA's), (85, 10149), (96, 10206), (102, 10224), (108, 10248), (122, 10302), (127, 10323), (146, 10386), (158, 10431), (173, 10473), (178, 10491), (191, 10542), (222, 10638), (245, 10698), (258, 10740), (273, 10764), (287, 10794), (288, 10797), (291, 10806), (308, 10854), (310, 10860), (338, 10950), (341, 10959), (347, 10974), (353, 10995), (384, 11070), (385, 11073), (404, 11130), (415, 11160), (442, 11232), (453, 11262), (456, 11271), (472, 11304), (474, 11310), (479, 11322), (489, 11355), (494, 11370), (503, 11403), (514, 11436), (525, 11466), (529, 11478), (574, 11610), (590, 11658), (591, 11664), (594, 11676), (613, 11745), (616, 11754), (630, 11832), (638, 11862), (678, 12015), (679, 12018), (685, 12030), (709, 12093), (715, 12111), (730, 12156), (747, 12216), (774, 12297), (776, 12300),

Gene: HavenFinLeoSun_18 Start: 9605, Stop: 11869, Start Num: 21

Candidate Starts for HavenFinLeoSun_18:

(Start: 21 @9605 has 86 MA's), (71, 9809), (72, 9812), (81, 9860), (85, 9884), (96, 9941), (99, 9950), (118, 10022), (120, 10028), (122, 10037), (146, 10121), (158, 10166), (169, 10196), (191, 10286), (210, 10346), (232, 10403), (245, 10424), (287, 10520), (288, 10523), (308, 10580), (311, 10589), (328, 10646), (339, 10679), (380, 10790), (384, 10796), (394, 10826), (406, 10865), (419, 10898), (422, 10904), (437, 10943), (440, 10952), (460, 11006), (471, 11027), (486, 11072), (501, 11120), (503, 11129), (552, 11270), (559, 11294), (580, 11348), (630, 11426), (638, 11456), (639, 11459), (650, 11507), (675, 11597), (678, 11609), (679, 11612), (713, 11690), (718, 11702), (740, 11765), (743, 11774), (760, 11831),

Gene: HeadMave_12 Start: 7546, Stop: 9651, Start Num: 32

Candidate Starts for HeadMave_12:

(Start: 32 @7546 has 142 MA's), (Start: 38 @7567 has 3 MA's), (80, 7744), (81, 7753), (85, 7777), (101, 7849), (106, 7873), (109, 7879), (149, 8029), (156, 8050), (158, 8062), (160, 8071), (212, 8278), (218, 8296), (270, 8383), (298, 8452), (313, 8464), (328, 8512), (346, 8542), (350, 8557), (363, 8593), (374, 8620), (384, 8641), (392, 8665), (400, 8689), (402, 8695), (410, 8722), (426, 8755), (439, 8794), (449, 8821), (456, 8842), (462, 8857), (476, 8884), (477, 8887), (484, 8908), (487, 8920), (489, 8926), (503, 8974), (529, 9049), (531, 9058), (541, 9085), (550, 9106), (570, 9169), (580, 9193), (626, 9250), (653, 9355), (659, 9376), (661, 9388), (673, 9430), (682, 9451), (693, 9472),

Gene: HeadNerd_14 Start: 9720, Stop: 12287, Start Num: 12

Candidate Starts for HeadNerd_14:

(6, 9699), (Start: 12 @9720 has 84 MA's), (26, 9768), (45, 9849), (53, 9873), (72, 9945), (82, 9993), (84, 10008), (85, 10014), (123, 10176), (149, 10269), (151, 10272), (153, 10275), (163, 10305), (176, 10362), (212, 10500), (218, 10521), (233, 10566), (243, 10593), (250, 10626), (257, 10644), (269, 10686), (284, 10743), (402, 11007), (414, 11034), (423, 11052), (428, 11058), (436, 11082), (443, 11103), (460, 11139), (471, 11166), (481, 11196), (483, 11202), (499, 11253), (509, 11286), (522, 11325), (524, 11331), (526, 11337), (529, 11346), (534, 11358), (536, 11364), (546, 11388), (552, 11409), (555, 11418), (567, 11457), (573, 11475), (588, 11508), (592, 11511), (596, 11523), (599, 11538), (616, 11589), (626, 11622), (629, 11640), (636, 11664), (644, 11706), (663, 11772), (666, 11784), (678, 11829), (709, 11904), (710, 11907), (726, 11961), (739, 12000), (746, 12027), (755, 12057), (760, 12069), (763, 12081), (766, 12090), (788, 12156), (795, 12198), (801, 12228),

Gene: Herb_14 Start: 9744, Stop: 12302, Start Num: 12

Candidate Starts for Herb_14:

(Start: 12 @9744 has 84 MA's), (15, 9753), (22, 9783), (45, 9873), (55, 9909), (82, 10017), (84, 10032), (123, 10200), (151, 10296), (226, 10569), (233, 10590), (244, 10620), (250, 10650), (276, 10737), (314, 10860), (339, 10935), (373, 10998), (402, 11031), (411, 11052), (414, 11058), (423, 11076), (428, 11082), (436, 11106), (454, 11148), (460, 11163), (464, 11169), (473, 11196), (489, 11247), (500, 11280), (502, 11289), (509, 11310), (513, 11322), (522, 11349), (526, 11361), (529, 11370), (534, 11382), (536, 11388), (537, 11391), (546, 11412), (555, 11442), (560, 11460), (567, 11481),

(570, 11490), (573, 11499), (588, 11532), (592, 11535), (596, 11547), (599, 11562), (626, 11646), (627, 11652), (636, 11688), (649, 11745), (651, 11754), (663, 11796), (678, 11853), (709, 11928), (710, 11931), (719, 11961), (726, 11985), (744, 12042), (753, 12072), (755, 12081), (763, 12105), (767, 12117), (801, 12243),

Gene: HerculesXL_18 Start: 9965, Stop: 12403, Start Num: 21

Candidate Starts for HerculesXL_18:

(Start: 21 @9965 has 86 MA's), (39, 10037), (69, 10157), (85, 10241), (96, 10298), (102, 10316), (108, 10340), (122, 10394), (127, 10415), (146, 10478), (158, 10523), (178, 10583), (183, 10601), (191, 10634), (210, 10694), (219, 10724), (222, 10730), (238, 10769), (245, 10790), (273, 10856), (287, 10886), (288, 10889), (292, 10901), (308, 10946), (310, 10952), (328, 11012), (353, 11087), (354, 11090), (384, 11162), (389, 11177), (410, 11243), (432, 11297), (442, 11324), (453, 11354), (456, 11363), (472, 11396), (474, 11402), (479, 11414), (487, 11441), (492, 11456), (497, 11474), (503, 11495), (514, 11528), (525, 11558), (529, 11570), (559, 11660), (575, 11705), (584, 11729), (587, 11738), (590, 11750), (594, 11768), (608, 11825), (613, 11837), (630, 11924), (638, 11954), (639, 11957), (653, 12011), (656, 12023), (678, 12107), (679, 12110), (685, 12122), (692, 12140), (705, 12179), (750, 12314), (754, 12329), (772, 12386),

Gene: Hernandez44_12 Start: 7641, Stop: 9746, Start Num: 32

Candidate Starts for Hernandez44_12:

(Start: 32 @7641 has 142 MA's), (Start: 38 @7662 has 3 MA's), (80, 7839), (81, 7848), (85, 7872), (101, 7944), (106, 7968), (109, 7974), (149, 8124), (156, 8145), (158, 8157), (160, 8166), (212, 8373), (218, 8391), (270, 8478), (298, 8547), (313, 8559), (328, 8607), (346, 8637), (350, 8652), (363, 8688), (374, 8715), (384, 8736), (392, 8760), (400, 8784), (402, 8790), (410, 8817), (426, 8850), (439, 8889), (449, 8916), (456, 8937), (462, 8952), (476, 8979), (477, 8982), (484, 9003), (487, 9015), (489, 9021), (503, 9069), (529, 9144), (531, 9153), (541, 9180), (550, 9201), (570, 9264), (580, 9288), (626, 9345), (653, 9450), (659, 9471), (661, 9483), (673, 9525), (682, 9546), (693, 9567),

Gene: Honk_14 Start: 9008, Stop: 11266, Start Num: 21

Candidate Starts for Honk_14:

(Start: 21 @9008 has 86 MA's), (57, 9167), (65, 9191), (69, 9203), (78, 9245), (85, 9287), (111, 9395), (124, 9446), (126, 9455), (158, 9572), (162, 9587), (164, 9596), (177, 9650), (192, 9713), (214, 9797), (218, 9809), (220, 9812), (224, 9821), (254, 9872), (293, 9986), (328, 10082), (342, 10124), (378, 10223), (391, 10256), (394, 10265), (426, 10349), (476, 10481), (486, 10511), (489, 10520), (515, 10604), (518, 10610), (521, 10619), (530, 10646), (531, 10652), (566, 10751), (624, 10832), (656, 10964), (666, 11003), (669, 11015), (688, 11069), (698, 11084), (708, 11111),

Gene: Horacetta_12 Start: 7540, Stop: 9645, Start Num: 32

Candidate Starts for Horacetta_12:

(Start: 32 @7540 has 142 MA's), (Start: 38 @7561 has 3 MA's), (80, 7738), (81, 7747), (85, 7771), (101, 7843), (106, 7867), (109, 7873), (149, 8023), (156, 8044), (158, 8056), (160, 8065), (212, 8272), (218, 8290), (270, 8377), (298, 8446), (313, 8458), (328, 8506), (346, 8536), (350, 8551), (363, 8587), (374, 8614), (384, 8635), (392, 8659), (400, 8683), (402, 8689), (410, 8716), (426, 8749), (439, 8788), (449, 8815), (456, 8836), (462, 8851), (476, 8878), (477, 8881), (484, 8902), (487, 8914), (489, 8920), (503, 8968), (515, 9004), (531, 9052), (541, 9079), (550, 9100), (570, 9163), (580, 9187), (626, 9244), (653, 9349), (659, 9370), (661, 9382), (673, 9424), (682, 9445), (693, 9466), (745, 9595),

Gene: Htur_19 Start: 13514, Stop: 15508, Start Num: 24

Candidate Starts for Htur_19:

(Start: 24 @13514 has 21 MA's), (36, 13553), (64, 13664), (69, 13679), (72, 13691), (94, 13805), (113, 13883), (120, 13907), (154, 14039), (168, 14090), (185, 14156), (208, 14252), (296, 14363), (350, 14489), (412, 14549), (424, 14573), (433, 14591), (458, 14624), (529, 14771), (547, 14789), (593, 14822), (598, 14837), (626, 14903), (674, 15062), (676, 15068), (677, 15074), (709, 15152), (714,

15167), (727, 15209), (747, 15275), (770, 15344), (808, 15482),

Gene: Huckleberry_14 Start: 9720, Stop: 12287, Start Num: 12

Candidate Starts for Huckleberry_14:

(6, 9699), (Start: 12 @9720 has 84 MA's), (26, 9768), (45, 9849), (53, 9873), (72, 9945), (82, 9993), (84, 10008), (85, 10014), (123, 10176), (149, 10269), (151, 10272), (153, 10275), (163, 10305), (176, 10362), (212, 10500), (218, 10521), (233, 10566), (243, 10593), (250, 10626), (257, 10644), (269, 10686), (284, 10743), (402, 11007), (414, 11034), (423, 11052), (428, 11058), (436, 11082), (443, 11103), (460, 11139), (471, 11166), (481, 11196), (483, 11202), (499, 11253), (509, 11286), (522, 11325), (524, 11331), (526, 11337), (529, 11346), (534, 11358), (536, 11364), (546, 11388), (552, 11409), (555, 11418), (567, 11457), (573, 11475), (588, 11508), (592, 11511), (596, 11523), (599, 11538), (616, 11589), (626, 11622), (629, 11640), (636, 11664), (644, 11706), (663, 11772), (666, 11784), (678, 11829), (709, 11904), (710, 11907), (726, 11961), (739, 12000), (746, 12027), (755, 12057), (760, 12069), (763, 12081), (766, 12090), (788, 12156), (795, 12198), (801, 12228),

Gene: Hulk_12 Start: 7553, Stop: 9658, Start Num: 32

Candidate Starts for Hulk_12:

(Start: 32 @7553 has 142 MA's), (Start: 38 @7574 has 3 MA's), (80, 7751), (81, 7760), (85, 7784), (101, 7856), (106, 7880), (109, 7886), (149, 8036), (156, 8057), (158, 8069), (160, 8078), (212, 8285), (218, 8303), (270, 8390), (298, 8459), (313, 8471), (328, 8519), (346, 8549), (350, 8564), (363, 8600), (374, 8627), (384, 8648), (392, 8672), (400, 8696), (402, 8702), (410, 8729), (426, 8762), (439, 8801), (449, 8828), (456, 8849), (462, 8864), (476, 8891), (477, 8894), (484, 8915), (487, 8927), (489, 8933), (503, 8981), (529, 9056), (531, 9065), (541, 9092), (550, 9113), (570, 9176), (626, 9257), (653, 9362), (659, 9383), (661, 9395), (673, 9437), (682, 9458), (693, 9479), (745, 9608),

Gene: HungryHenry_17 Start: 9655, Stop: 11925, Start Num: 20

Candidate Starts for HungryHenry_17:

(Start: 20 @9655 has 123 MA's), (47, 9772), (54, 9802), (71, 9862), (81, 9913), (85, 9937), (96, 9994), (120, 10081), (122, 10090), (146, 10174), (158, 10219), (168, 10246), (169, 10249), (191, 10339), (210, 10399), (232, 10456), (245, 10477), (287, 10573), (288, 10576), (304, 10618), (328, 10699), (336, 10720), (339, 10732), (350, 10765), (380, 10843), (384, 10849), (394, 10879), (406, 10918), (419, 10951), (422, 10957), (428, 10969), (432, 10984), (437, 10996), (440, 11005), (442, 11011), (460, 11059), (472, 11083), (474, 11089), (486, 11125), (503, 11182), (559, 11347), (580, 11401), (630, 11479), (638, 11509), (639, 11512), (650, 11560), (675, 11650), (679, 11665), (700, 11707), (703, 11719), (710, 11734), (740, 11821), (743, 11830), (760, 11887),

Gene: HunterDalle_14 Start: 9738, Stop: 12296, Start Num: 12

Candidate Starts for HunterDalle_14:

(Start: 12 @9738 has 84 MA's), (15, 9747), (22, 9777), (45, 9867), (72, 9963), (84, 10026), (123, 10194), (151, 10290), (153, 10293), (156, 10308), (180, 10395), (197, 10461), (240, 10599), (241, 10602), (262, 10686), (373, 10992), (414, 11052), (423, 11070), (428, 11076), (439, 11109), (443, 11121), (460, 11157), (471, 11184), (479, 11208), (481, 11214), (499, 11271), (506, 11295), (509, 11304), (514, 11319), (522, 11343), (526, 11355), (534, 11376), (536, 11382), (544, 11403), (552, 11427), (555, 11436), (560, 11454), (567, 11475), (569, 11481), (573, 11493), (588, 11526), (592, 11529), (596, 11541), (599, 11556), (600, 11559), (627, 11646), (648, 11736), (649, 11739), (663, 11790), (678, 11847), (683, 11856), (689, 11868), (709, 11922), (710, 11925), (726, 11979), (739, 12018), (753, 12066), (755, 12075), (763, 12099), (767, 12111), (795, 12207), (801, 12237),

Gene: Huntingdon_18 Start: 12617, Stop: 15178, Start Num: 12

Candidate Starts for Huntingdon_18:

(6, 12596), (Start: 12 @12617 has 84 MA's), (37, 12707), (45, 12746), (55, 12782), (72, 12842), (84, 12905), (123, 13073), (140, 13118), (149, 13166), (151, 13169), (153, 13172), (175, 13256), (176, 13259), (212, 13397), (233, 13463), (243, 13490), (253, 13532), (352, 13841), (373, 13874), (414,

13934), (428, 13958), (460, 14039), (464, 14045), (465, 14048), (473, 14072), (483, 14102), (489, 14123), (504, 14171), (509, 14186), (514, 14201), (522, 14225), (526, 14237), (528, 14243), (534, 14258), (536, 14264), (551, 14303), (552, 14309), (555, 14318), (560, 14336), (562, 14342), (566, 14354), (567, 14357), (570, 14366), (581, 14384), (588, 14408), (592, 14411), (596, 14423), (600, 14441), (623, 14507), (626, 14522), (633, 14552), (635, 14561), (649, 14621), (663, 14672), (672, 14708), (709, 14804), (710, 14807), (726, 14861), (739, 14900), (746, 14927), (755, 14957), (763, 14981), (780, 15023), (788, 15050), (801, 15119),

Gene: IAmGroot_15 Start: 10840, Stop: 13191, Start Num: 21

Candidate Starts for IAmGroot_15:

(Start: 21 @10840 has 86 MA's), (65, 11023), (111, 11239), (126, 11299), (149, 11383), (160, 11425), (177, 11494), (192, 11557), (218, 11653), (220, 11656), (241, 11707), (254, 11758), (285, 11872), (287, 11881), (299, 11920), (357, 12109), (391, 12193), (404, 12232), (410, 12253), (439, 12328), (479, 12430), (483, 12442), (489, 12463), (525, 12577), (530, 12592), (531, 12598), (627, 12799), (666, 12949), (688, 13015),

Gene: IUFootball_15 Start: 9206, Stop: 11569, Start Num: 14

Candidate Starts for IUFootball_15:

(Start: 14 @9206 has 63 MA's), (64, 9395), (80, 9461), (94, 9536), (110, 9602), (131, 9677), (132, 9680), (133, 9683), (154, 9770), (157, 9779), (168, 9821), (203, 9968), (209, 9986), (247, 10061), (279, 10094), (309, 10127), (383, 10268), (447, 10391), (453, 10400), (473, 10439), (479, 10457), (484, 10472), (502, 10532), (504, 10538), (506, 10544), (510, 10556), (511, 10559), (529, 10613), (534, 10625), (538, 10637), (544, 10652), (567, 10724), (573, 10742), (581, 10751), (586, 10766), (592, 10778), (597, 10796), (600, 10808), (660, 11030), (709, 11171), (710, 11174), (720, 11207), (724, 11222), (726, 11228), (739, 11267), (755, 11324), (770, 11366), (785, 11414),

Gene: Ilzat_17 Start: 9654, Stop: 11924, Start Num: 20

Candidate Starts for Ilzat_17:

(Start: 20 @9654 has 123 MA's), (47, 9771), (54, 9801), (71, 9861), (81, 9912), (85, 9936), (96, 9993), (120, 10080), (122, 10089), (146, 10173), (158, 10218), (168, 10245), (169, 10248), (191, 10338), (210, 10398), (232, 10455), (245, 10476), (287, 10572), (288, 10575), (304, 10617), (328, 10698), (336, 10719), (339, 10731), (350, 10764), (380, 10842), (384, 10848), (394, 10878), (406, 10917), (419, 10950), (422, 10956), (428, 10968), (432, 10983), (437, 10995), (440, 11004), (442, 11010), (460, 11058), (472, 11082), (474, 11088), (486, 11124), (503, 11181), (559, 11346), (580, 11400), (630, 11478), (638, 11508), (639, 11511), (650, 11559), (675, 11649), (679, 11664), (700, 11706), (703, 11718), (710, 11733), (740, 11820), (743, 11829), (760, 11886),

Gene: Immaculata_18 Start: 12618, Stop: 15179, Start Num: 12

Candidate Starts for Immaculata_18:

(6, 12597), (Start: 12 @12618 has 84 MA's), (26, 12666), (34, 12699), (45, 12747), (53, 12771), (55, 12783), (72, 12843), (82, 12891), (84, 12906), (85, 12912), (113, 13032), (123, 13074), (149, 13167), (151, 13170), (153, 13173), (163, 13203), (175, 13257), (212, 13398), (218, 13419), (226, 13443), (233, 13464), (237, 13473), (250, 13524), (257, 13542), (263, 13566), (313, 13728), (373, 13872), (402, 13905), (414, 13932), (423, 13950), (428, 13956), (436, 13980), (439, 13989), (460, 14037), (471, 14064), (479, 14088), (481, 14094), (483, 14100), (499, 14151), (503, 14166), (507, 14178), (509, 14184), (510, 14187), (513, 14196), (522, 14223), (526, 14235), (529, 14244), (534, 14256), (536, 14262), (544, 14283), (555, 14316), (567, 14355), (588, 14406), (592, 14409), (594, 14418), (596, 14421), (599, 14436), (626, 14520), (627, 14526), (636, 14562), (663, 14670), (666, 14682), (672, 14706), (709, 14802), (710, 14805), (726, 14859), (739, 14898), (753, 14946), (755, 14955), (763, 14979), (770, 14997), (788, 15048), (793, 15072), (795, 15090), (801, 15120),

Gene: IndiRoo_19 Start: 11519, Stop: 13810, Start Num: 24

Candidate Starts for IndiRoo_19:

(Start: 24 @11519 has 21 MA's), (55, 11636), (64, 11669), (94, 11810), (113, 11888), (120, 11912), (154, 12044), (168, 12095), (180, 12146), (204, 12245), (215, 12284), (257, 12332), (292, 12362), (329, 12446), (350, 12494), (370, 12512), (417, 12563), (445, 12629), (482, 12716), (502, 12782), (507, 12797), (513, 12815), (520, 12836), (532, 12869), (597, 13058), (602, 13079), (604, 13091), (606, 13100), (625, 13157), (633, 13190), (638, 13211), (658, 13289), (660, 13301), (668, 13331), (676, 13358), (709, 13442), (713, 13454), (719, 13475), (720, 13478), (755, 13592), (773, 13643), (780, 13658),

Gene: Inventa_17 Start: 9364, Stop: 11634, Start Num: 20

Candidate Starts for Inventa_17:

(Start: 20 @9364 has 123 MA's), (47, 9481), (54, 9511), (71, 9571), (81, 9622), (85, 9646), (96, 9703), (120, 9790), (122, 9799), (146, 9883), (158, 9928), (168, 9955), (169, 9958), (191, 10048), (210, 10108), (232, 10165), (245, 10186), (287, 10282), (288, 10285), (304, 10327), (328, 10408), (336, 10429), (339, 10441), (350, 10474), (380, 10552), (384, 10558), (394, 10588), (406, 10627), (419, 10660), (422, 10666), (428, 10678), (432, 10693), (437, 10705), (440, 10714), (442, 10720), (460, 10768), (486, 10834), (503, 10891), (559, 11056), (580, 11110), (630, 11188), (638, 11218), (639, 11221), (650, 11269), (675, 11359), (679, 11374), (703, 11428), (710, 11443), (740, 11530), (743, 11539), (760, 11596),

Gene: loannes_17 Start: 9362, Stop: 11632, Start Num: 20

Candidate Starts for loannes_17:

(Start: 20 @9362 has 123 MA's), (47, 9479), (54, 9509), (81, 9620), (85, 9644), (96, 9701), (116, 9773), (120, 9788), (122, 9797), (146, 9881), (158, 9926), (169, 9956), (191, 10046), (210, 10106), (232, 10163), (245, 10184), (287, 10280), (288, 10283), (304, 10325), (328, 10406), (336, 10427), (339, 10439), (350, 10472), (384, 10556), (394, 10586), (406, 10625), (419, 10658), (422, 10664), (437, 10703), (440, 10712), (442, 10718), (455, 10754), (460, 10766), (474, 10796), (486, 10832), (503, 10889), (514, 10922), (535, 10982), (559, 11054), (630, 11186), (638, 11216), (639, 11219), (650, 11267), (662, 11309), (675, 11357), (679, 11372), (700, 11414), (710, 11441), (740, 11528), (743, 11537), (760, 11594),

Gene: Isperia_22 Start: 13262, Stop: 15256, Start Num: 19

Candidate Starts for Isperia_22:

(Start: 19 @13262 has 21 MA's), (105, 13628), (116, 13670), (119, 13685), (150, 13790), (165, 13838), (181, 13904), (187, 13928), (202, 13991), (223, 14054), (230, 14072), (258, 14102), (281, 14123), (310, 14141), (323, 14186), (359, 14270), (420, 14366), (498, 14486), (501, 14495), (504, 14507), (509, 14522), (545, 14561), (625, 14762), (636, 14807), (651, 14873), (675, 14960), (696, 15011),

Gene: Iter_16 Start: 10739, Stop: 13054, Start Num: 14

Candidate Starts for Iter_16:

(Start: 14 @10739 has 63 MA's), (53, 10895), (56, 10913), (63, 10937), (75, 10985), (87, 11045), (95, 11090), (113, 11162), (139, 11246), (144, 11276), (158, 11330), (167, 11360), (181, 11417), (187, 11441), (201, 11501), (202, 11507), (329, 11726), (428, 11894), (444, 11942), (482, 12038), (494, 12077), (499, 12095), (512, 12137), (520, 12161), (541, 12218), (547, 12230), (586, 12341), (631, 12401), (635, 12416), (663, 12527), (701, 12638), (709, 12659), (710, 12662), (720, 12695), (744, 12773), (755, 12812), (785, 12902), (789, 12914), (807, 12998),

Gene: IttyBittyPiggy_16 Start: 10723, Stop: 13035, Start Num: 14

Candidate Starts for IttyBittyPiggy_16:

(Start: 14 @10723 has 63 MA's), (53, 10879), (58, 10903), (75, 10969), (78, 10981), (87, 11029), (113, 11146), (138, 11227), (139, 11230), (144, 11260), (167, 11344), (181, 11401), (187, 11425), (201, 11485), (202, 11491), (410, 11839), (428, 11878), (444, 11926), (468, 11980), (482, 12022), (494, 12061), (512, 12121), (547, 12214), (628, 12370), (630, 12382), (633, 12391), (663, 12511), (709, 12643), (710, 12646), (744, 12757), (755, 12796), (763, 12820), (778, 12856), (782, 12871), (800,

12970),

Gene: Ixel_17 Start: 9554, Stop: 11992, Start Num: 21

Candidate Starts for Ixel_17:

(Start: 21 @9554 has 86 MA's), (27, 9569), (39, 9626), (85, 9830), (96, 9887), (102, 9905), (122, 9983), (127, 10004), (146, 10067), (158, 10112), (191, 10223), (210, 10283), (219, 10313), (222, 10319), (273, 10445), (287, 10475), (288, 10478), (308, 10535), (328, 10601), (336, 10622), (354, 10679), (367, 10715), (379, 10742), (384, 10751), (410, 10832), (437, 10898), (440, 10907), (442, 10913), (453, 10943), (456, 10952), (472, 10985), (474, 10991), (479, 11003), (487, 11030), (492, 11045), (494, 11051), (503, 11084), (514, 11117), (525, 11147), (529, 11159), (574, 11291), (587, 11327), (594, 11357), (608, 11414), (616, 11435), (629, 11510), (630, 11513), (636, 11534), (638, 11543), (656, 11612), (678, 11696), (679, 11699), (692, 11729), (709, 11774), (747, 11897), (772, 11975),

Gene: IzzyPants24_11 Start: 7579, Stop: 9684, Start Num: 32

Candidate Starts for IzzyPants24_11:

(Start: 32 @7579 has 142 MA's), (Start: 38 @7600 has 3 MA's), (80, 7777), (81, 7786), (85, 7810), (101, 7882), (106, 7906), (137, 8005), (156, 8083), (158, 8095), (160, 8104), (212, 8311), (218, 8329), (270, 8416), (298, 8485), (313, 8497), (328, 8545), (346, 8575), (350, 8590), (370, 8644), (384, 8674), (385, 8677), (392, 8698), (402, 8728), (410, 8755), (426, 8788), (439, 8827), (449, 8854), (451, 8860), (456, 8875), (462, 8890), (476, 8917), (477, 8920), (484, 8941), (487, 8953), (489, 8959), (503, 9007), (515, 9043), (531, 9091), (541, 9118), (550, 9139), (570, 9202), (580, 9226), (626, 9283), (653, 9388), (659, 9409), (673, 9463), (682, 9484), (693, 9505),

Gene: JRok_12 Start: 7531, Stop: 9636, Start Num: 32

Candidate Starts for JRok_12:

(Start: 32 @7531 has 142 MA's), (Start: 38 @7552 has 3 MA's), (80, 7729), (81, 7738), (85, 7762), (101, 7834), (106, 7858), (109, 7864), (149, 8014), (156, 8035), (158, 8047), (160, 8056), (212, 8263), (218, 8281), (270, 8368), (298, 8437), (313, 8449), (328, 8497), (346, 8527), (350, 8542), (374, 8605), (384, 8626), (385, 8629), (402, 8680), (410, 8707), (426, 8740), (439, 8779), (449, 8806), (456, 8827), (462, 8842), (476, 8869), (484, 8893), (487, 8905), (489, 8911), (503, 8959), (531, 9043), (541, 9070), (550, 9091), (570, 9154), (580, 9178), (587, 9202), (624, 9223), (653, 9340), (659, 9361), (661, 9373), (673, 9415), (682, 9436), (693, 9457), (745, 9586),

Gene: Jahseh_12 Start: 7540, Stop: 9645, Start Num: 32

Candidate Starts for Jahseh_12:

(Start: 32 @7540 has 142 MA's), (Start: 38 @7561 has 3 MA's), (80, 7738), (81, 7747), (85, 7771), (101, 7843), (106, 7867), (109, 7873), (149, 8023), (156, 8044), (158, 8056), (160, 8065), (212, 8272), (218, 8290), (270, 8377), (298, 8446), (313, 8458), (328, 8506), (346, 8536), (350, 8551), (363, 8587), (374, 8614), (384, 8635), (392, 8659), (400, 8683), (402, 8689), (410, 8716), (426, 8749), (439, 8788), (449, 8815), (456, 8836), (462, 8851), (476, 8878), (477, 8881), (484, 8902), (487, 8914), (489, 8920), (531, 9052), (541, 9079), (550, 9100), (570, 9163), (580, 9187), (626, 9244), (653, 9349), (659, 9370), (661, 9382), (673, 9424), (682, 9445), (693, 9466), (745, 9595),

Gene: JaimeB_12 Start: 7546, Stop: 9651, Start Num: 32

Candidate Starts for JaimeB_12:

(Start: 32 @7546 has 142 MA's), (Start: 38 @7567 has 3 MA's), (80, 7744), (81, 7753), (85, 7777), (101, 7849), (106, 7873), (109, 7879), (149, 8029), (156, 8050), (158, 8062), (160, 8071), (212, 8278), (218, 8296), (270, 8383), (298, 8452), (313, 8464), (328, 8512), (346, 8542), (350, 8557), (363, 8593), (374, 8620), (384, 8641), (392, 8665), (400, 8689), (402, 8695), (410, 8722), (426, 8755), (439, 8794), (449, 8821), (456, 8842), (462, 8857), (476, 8884), (477, 8887), (484, 8908), (487, 8920), (489, 8926), (503, 8974), (529, 9049), (531, 9058), (541, 9085), (550, 9106), (570, 9169), (580, 9193), (626, 9250), (653, 9355), (659, 9376), (661, 9388), (673, 9430), (682, 9451), (693, 9472),

Gene: Janeemi_17 Start: 11821, Stop: 14298, Start Num: 14

Candidate Starts for Janeemi_17:

(Start: 14 @11821 has 63 MA's), (53, 11977), (54, 11986), (113, 12244), (144, 12358), (145, 12367), (158, 12412), (181, 12499), (187, 12523), (201, 12583), (202, 12589), (211, 12613), (238, 12691), (256, 12724), (316, 12859), (329, 12901), (401, 13072), (417, 13111), (428, 13138), (444, 13186), (482, 13282), (494, 13321), (499, 13339), (502, 13351), (512, 13381), (541, 13462), (598, 13597), (631, 13645), (635, 13660), (659, 13753), (663, 13771), (666, 13783), (709, 13903), (710, 13906), (744, 14017), (755, 14056), (781, 14131), (785, 14146),

Gene: Jannah_12 Start: 7540, Stop: 9645, Start Num: 32

Candidate Starts for Jannah_12:

(Start: 32 @7540 has 142 MA's), (Start: 38 @7561 has 3 MA's), (80, 7738), (81, 7747), (85, 7771), (101, 7843), (106, 7867), (109, 7873), (149, 8023), (156, 8044), (158, 8056), (160, 8065), (212, 8272), (218, 8290), (270, 8377), (298, 8446), (313, 8458), (328, 8506), (346, 8536), (350, 8551), (363, 8587), (374, 8614), (384, 8635), (392, 8659), (400, 8683), (402, 8689), (410, 8716), (426, 8749), (439, 8788), (449, 8815), (456, 8836), (462, 8851), (476, 8878), (477, 8881), (484, 8902), (487, 8914), (489, 8920), (503, 8968), (531, 9052), (541, 9079), (550, 9100), (570, 9163), (580, 9187), (626, 9244), (653, 9349), (659, 9370), (661, 9382), (673, 9424), (682, 9445), (693, 9466),

Gene: Janus167_17 Start: 9654, Stop: 11924, Start Num: 20

Candidate Starts for Janus167_17:

(Start: 20 @9654 has 123 MA's), (47, 9771), (54, 9801), (71, 9861), (81, 9912), (85, 9936), (96, 9993), (120, 10080), (122, 10089), (146, 10173), (158, 10218), (168, 10245), (169, 10248), (191, 10338), (210, 10398), (232, 10455), (245, 10476), (287, 10572), (288, 10575), (304, 10617), (328, 10698), (336, 10719), (339, 10731), (350, 10764), (380, 10842), (384, 10848), (394, 10878), (406, 10917), (419, 10950), (422, 10956), (428, 10968), (432, 10983), (437, 10995), (440, 11004), (442, 11010), (460, 11058), (472, 11082), (474, 11088), (486, 11124), (503, 11181), (559, 11346), (580, 11400), (630, 11478), (638, 11508), (639, 11511), (650, 11559), (675, 11649), (679, 11664), (700, 11706), (703, 11718), (710, 11733), (740, 11820), (743, 11829), (760, 11886),

Gene: JasmineDragon_15 Start: 8971, Stop: 11214, Start Num: 14

Candidate Starts for JasmineDragon_15:

(Start: 14 @8971 has 63 MA's), (Start: 38 @9058 has 3 MA's), (64, 9160), (80, 9226), (103, 9331), (131, 9442), (133, 9448), (157, 9544), (168, 9586), (203, 9733), (209, 9751), (319, 9868), (327, 9895), (349, 9928), (403, 9964), (428, 10012), (441, 10051), (459, 10090), (481, 10138), (484, 10147), (486, 10156), (489, 10165), (502, 10207), (514, 10243), (518, 10255), (534, 10300), (536, 10306), (546, 10330), (557, 10366), (562, 10384), (570, 10408), (573, 10417), (582, 10429), (588, 10450), (592, 10453), (600, 10483), (667, 10729), (709, 10846), (739, 10942), (742, 10948), (749, 10978),

Gene: JasonD_19 Start: 9789, Stop: 12053, Start Num: 21

Candidate Starts for JasonD_19:

(Start: 21 @9789 has 86 MA's), (71, 9993), (72, 9996), (81, 10044), (85, 10068), (96, 10125), (99, 10134), (118, 10206), (120, 10212), (122, 10221), (146, 10305), (158, 10350), (169, 10380), (191, 10470), (210, 10530), (232, 10587), (245, 10608), (287, 10704), (288, 10707), (292, 10719), (308, 10764), (335, 10848), (379, 10971), (384, 10980), (394, 11010), (406, 11049), (419, 11082), (422, 11088), (437, 11127), (460, 11190), (471, 11211), (486, 11256), (501, 11304), (503, 11313), (535, 11406), (559, 11478), (580, 11532), (630, 11610), (638, 11640), (639, 11643), (650, 11691), (675, 11781), (678, 11793), (679, 11796), (718, 11886), (740, 11949), (743, 11958), (760, 12015),

Gene: JasperRussell_17 Start: 9654, Stop: 11924, Start Num: 20

Candidate Starts for JasperRussell_17:

(Start: 20 @9654 has 123 MA's), (47, 9771), (54, 9801), (71, 9861), (81, 9912), (85, 9936), (96, 9993), (120, 10080), (122, 10089), (146, 10173), (158, 10218), (168, 10245), (169, 10248), (191, 10338),

(210, 10398), (232, 10455), (245, 10476), (287, 10572), (288, 10575), (304, 10617), (328, 10698), (336, 10719), (339, 10731), (350, 10764), (380, 10842), (384, 10848), (394, 10878), (406, 10917), (419, 10950), (422, 10956), (428, 10968), (432, 10983), (437, 10995), (440, 11004), (442, 11010), (460, 11058), (472, 11082), (474, 11088), (486, 11124), (503, 11181), (559, 11346), (580, 11400), (630, 11478), (638, 11508), (639, 11511), (650, 11559), (675, 11649), (679, 11664), (700, 11706), (703, 11718), (710, 11733), (740, 11820), (743, 11829), (760, 11886),

Gene: Jella_12 Start: 7564, Stop: 9669, Start Num: 32

Candidate Starts for Jella_12:

(Start: 32 @7564 has 142 MA's), (Start: 38 @7585 has 3 MA's), (80, 7762), (81, 7771), (85, 7795), (101, 7867), (106, 7891), (109, 7897), (149, 8047), (156, 8068), (158, 8080), (160, 8089), (212, 8296), (218, 8314), (270, 8401), (298, 8470), (313, 8482), (328, 8530), (346, 8560), (350, 8575), (363, 8611), (374, 8638), (384, 8659), (392, 8683), (400, 8707), (402, 8713), (410, 8740), (426, 8773), (439, 8812), (449, 8839), (456, 8860), (462, 8875), (476, 8902), (477, 8905), (484, 8926), (487, 8938), (489, 8944), (503, 8992), (529, 9067), (531, 9076), (541, 9103), (550, 9124), (570, 9187), (580, 9211), (626, 9268), (653, 9373), (659, 9394), (661, 9406), (673, 9448), (682, 9469), (693, 9490),

Gene: Jemerald_18 Start: 10820, Stop: 13258, Start Num: 21

Candidate Starts for Jemerald_18:

(Start: 21 @10820 has 86 MA's), (27, 10835), (54, 10964), (71, 11024), (81, 11075), (85, 11099), (96, 11156), (102, 11174), (108, 11198), (122, 11252), (127, 11273), (146, 11336), (158, 11381), (173, 11423), (191, 11492), (210, 11552), (219, 11582), (222, 11588), (238, 11627), (245, 11648), (258, 11690), (273, 11714), (287, 11744), (288, 11747), (308, 11804), (310, 11810), (311, 11813), (314, 11825), (327, 11867), (354, 11948), (361, 11966), (367, 11984), (380, 12014), (384, 12020), (385, 12023), (404, 12080), (440, 12176), (442, 12182), (453, 12212), (456, 12221), (472, 12254), (474, 12260), (479, 12272), (492, 12314), (494, 12320), (503, 12353), (525, 12416), (529, 12428), (584, 12587), (590, 12608), (592, 12617), (594, 12626), (608, 12683), (630, 12782), (636, 12803), (638, 12812), (662, 12905), (679, 12968), (705, 13037), (709, 13043), (711, 13049), (721, 13079), (727, 13100), (737, 13130), (741, 13139), (756, 13190), (772, 13241), (776, 13244),

Gene: Jenos_19 Start: 10116, Stop: 12380, Start Num: 21

Candidate Starts for Jenos_19:

(Start: 21 @10116 has 86 MA's), (71, 10320), (72, 10323), (81, 10371), (85, 10395), (96, 10452), (99, 10461), (118, 10533), (120, 10539), (122, 10548), (146, 10632), (158, 10677), (169, 10707), (191, 10797), (210, 10857), (232, 10914), (245, 10935), (287, 11031), (288, 11034), (292, 11046), (295, 11055), (308, 11091), (335, 11175), (375, 11289), (384, 11307), (389, 11322), (394, 11337), (406, 11376), (410, 11388), (437, 11454), (440, 11463), (442, 11469), (460, 11517), (472, 11541), (474, 11547), (486, 11583), (501, 11631), (503, 11640), (535, 11733), (559, 11805), (580, 11859), (630, 11937), (638, 11967), (639, 11970), (650, 12018), (675, 12108), (678, 12120), (679, 12123), (718, 12213), (740, 12276), (743, 12285), (760, 12342),

Gene: Jera_20 Start: 12587, Stop: 14575, Start Num: 24

Candidate Starts for Jera_20:

(Start: 24 @12587 has 21 MA's), (36, 12626), (64, 12737), (69, 12752), (72, 12764), (113, 12956), (120, 12980), (168, 13163), (185, 13229), (208, 13325), (214, 13349), (296, 13436), (337, 13538), (350, 13562), (417, 13631), (433, 13664), (458, 13697), (519, 13829), (592, 13889), (615, 13940), (634, 14009), (637, 14021), (638, 14027), (727, 14282), (747, 14348), (766, 14408), (808, 14549),

Gene: Jerbirus_17 Start: 9654, Stop: 11924, Start Num: 20

Candidate Starts for Jerbirus_17:

(Start: 20 @9654 has 123 MA's), (47, 9771), (54, 9801), (71, 9861), (81, 9912), (85, 9936), (96, 9993), (120, 10080), (122, 10089), (146, 10173), (158, 10218), (168, 10245), (169, 10248), (191, 10338), (210, 10398), (232, 10455), (245, 10476), (287, 10572), (288, 10575), (304, 10617), (328, 10698),

(336, 10719), (339, 10731), (350, 10764), (380, 10842), (384, 10848), (394, 10878), (406, 10917), (419, 10950), (422, 10956), (432, 10983), (437, 10995), (440, 11004), (442, 11010), (460, 11058), (472, 11082), (474, 11088), (486, 11124), (503, 11181), (559, 11346), (580, 11400), (630, 11478), (638, 11508), (639, 11511), (650, 11559), (675, 11649), (679, 11664), (700, 11706), (703, 11718), (710, 11733), (740, 11820), (743, 11829), (760, 11886),

Gene: JeriBeth_17 Start: 9501, Stop: 11771, Start Num: 20

Candidate Starts for JeriBeth_17:

(Start: 20 @9501 has 123 MA's), (47, 9618), (54, 9648), (71, 9708), (81, 9759), (85, 9783), (96, 9840), (120, 9927), (122, 9936), (146, 10020), (158, 10065), (168, 10092), (169, 10095), (191, 10185), (210, 10245), (232, 10302), (245, 10323), (287, 10419), (288, 10422), (304, 10464), (328, 10545), (336, 10566), (339, 10578), (350, 10611), (380, 10689), (384, 10695), (394, 10725), (406, 10764), (419, 10797), (422, 10803), (428, 10815), (432, 10830), (437, 10842), (440, 10851), (442, 10857), (460, 10905), (472, 10929), (474, 10935), (486, 10971), (503, 11028), (559, 11193), (580, 11247), (630, 11325), (638, 11355), (639, 11358), (650, 11406), (675, 11496), (679, 11511), (700, 11553), (703, 11565), (710, 11580), (740, 11667), (743, 11676), (760, 11733),

Gene: Jerky_12 Start: 7627, Stop: 9732, Start Num: 32

Candidate Starts for Jerky_12:

(Start: 32 @7627 has 142 MA's), (Start: 38 @7648 has 3 MA's), (80, 7825), (81, 7834), (85, 7858), (101, 7930), (106, 7954), (109, 7960), (149, 8110), (156, 8131), (158, 8143), (160, 8152), (212, 8359), (218, 8377), (270, 8464), (298, 8533), (313, 8545), (328, 8593), (346, 8623), (350, 8638), (374, 8701), (384, 8722), (392, 8746), (400, 8770), (402, 8776), (410, 8803), (426, 8836), (439, 8875), (449, 8902), (456, 8923), (462, 8938), (476, 8965), (477, 8968), (484, 8989), (487, 9001), (489, 9007), (503, 9055), (515, 9091), (529, 9130), (531, 9139), (541, 9166), (550, 9187), (570, 9250), (580, 9274), (626, 9331), (653, 9436), (659, 9457), (661, 9469), (673, 9511), (682, 9532), (693, 9553), (745, 9682),

Gene: Jingles_17 Start: 9596, Stop: 12004, Start Num: 21

Candidate Starts for Jingles_17:

(Start: 21 @9596 has 86 MA's), (47, 9710), (56, 9749), (71, 9800), (72, 9803), (81, 9851), (85, 9875), (96, 9932), (108, 9974), (120, 10019), (122, 10028), (146, 10112), (158, 10157), (169, 10187), (176, 10220), (179, 10229), (191, 10277), (210, 10337), (232, 10394), (287, 10511), (288, 10514), (292, 10526), (308, 10571), (328, 10637), (333, 10649), (336, 10658), (337, 10664), (354, 10715), (374, 10766), (375, 10769), (384, 10787), (394, 10817), (430, 10913), (442, 10949), (487, 11066), (503, 11120), (514, 11153), (525, 11183), (559, 11285), (570, 11315), (574, 11327), (580, 11339), (592, 11384), (598, 11405), (603, 11426), (611, 11459), (616, 11471), (618, 11480), (619, 11483), (622, 11504), (638, 11579), (639, 11582), (650, 11630), (675, 11720), (695, 11768), (707, 11804), (712, 11816), (740, 11900), (743, 11909), (760, 11966),

Gene: JoBros_12 Start: 7541, Stop: 9646, Start Num: 32

Candidate Starts for JoBros_12:

(Start: 32 @7541 has 142 MA's), (Start: 38 @7562 has 3 MA's), (80, 7739), (81, 7748), (85, 7772), (101, 7844), (106, 7868), (109, 7874), (149, 8024), (156, 8045), (158, 8057), (160, 8066), (212, 8273), (218, 8291), (270, 8378), (298, 8447), (313, 8459), (328, 8507), (346, 8537), (350, 8552), (363, 8588), (374, 8615), (384, 8636), (392, 8660), (400, 8684), (402, 8690), (410, 8717), (426, 8750), (439, 8789), (449, 8816), (456, 8837), (462, 8852), (476, 8879), (477, 8882), (484, 8903), (487, 8915), (489, 8921), (503, 8969), (515, 9005), (531, 9053), (541, 9080), (550, 9101), (570, 9164), (580, 9188), (626, 9245), (653, 9350), (659, 9371), (661, 9383), (673, 9425), (682, 9446), (693, 9467), (745, 9596),

Gene: Joann_18 Start: 12611, Stop: 15172, Start Num: 12

Candidate Starts for Joann_18:

(6, 12590), (Start: 12 @12611 has 84 MA's), (37, 12701), (45, 12740), (55, 12776), (72, 12836), (82, 12884), (84, 12899), (123, 13067), (140, 13112), (151, 13163), (153, 13166), (175, 13250), (233,

13457), (237, 13466), (243, 13484), (253, 13526), (352, 13835), (373, 13868), (414, 13928), (428, 13952), (460, 14033), (464, 14039), (465, 14042), (473, 14066), (483, 14096), (489, 14117), (509, 14180), (514, 14195), (522, 14219), (526, 14231), (528, 14237), (534, 14252), (536, 14258), (537, 14261), (546, 14282), (551, 14297), (555, 14312), (560, 14330), (562, 14336), (567, 14351), (570, 14360), (573, 14369), (588, 14402), (592, 14405), (596, 14417), (597, 14423), (600, 14435), (623, 14501), (626, 14516), (649, 14615), (663, 14666), (666, 14678), (671, 14699), (709, 14798), (710, 14801), (726, 14855), (739, 14894), (755, 14951), (763, 14975), (780, 15017), (788, 15044), (801, 15113),

Gene: Joemato_16 Start: 10730, Stop: 13045, Start Num: 14

Candidate Starts for Joemato_16:

(Start: 14 @10730 has 63 MA's), (53, 10886), (54, 10895), (75, 10976), (78, 10988), (87, 11036), (113, 11153), (138, 11234), (139, 11237), (144, 11267), (158, 11321), (167, 11351), (181, 11408), (187, 11432), (201, 11492), (329, 11717), (399, 11813), (428, 11885), (444, 11933), (468, 11987), (482, 12029), (494, 12068), (512, 12128), (635, 12407), (641, 12431), (648, 12464), (649, 12467), (663, 12518), (701, 12629), (709, 12650), (710, 12653), (720, 12686), (744, 12764), (751, 12785), (755, 12803), (778, 12863), (785, 12893), (795, 12944), (807, 12989), (814, 13034),

Gene: Johann_20 Start: 13490, Stop: 15478, Start Num: 24

Candidate Starts for Johann_20:

(1, 13391), (Start: 24 @13490 has 21 MA's), (64, 13640), (69, 13655), (72, 13667), (113, 13859), (120, 13883), (132, 13925), (154, 14015), (168, 14066), (185, 14132), (203, 14213), (208, 14228), (214, 14252), (296, 14339), (337, 14441), (350, 14465), (417, 14534), (433, 14567), (547, 14765), (592, 14792), (597, 14810), (623, 14864), (634, 14912), (637, 14924), (638, 14930), (654, 14996), (658, 15008), (659, 15011), (727, 15185), (739, 15221), (747, 15251), (766, 15311), (808, 15452),

Gene: JohnDoe_16 Start: 10725, Stop: 13040, Start Num: 14

Candidate Starts for JohnDoe_16:

(Start: 14 @10725 has 63 MA's), (53, 10881), (54, 10890), (75, 10971), (78, 10983), (87, 11031), (113, 11148), (138, 11229), (139, 11232), (144, 11262), (158, 11316), (167, 11346), (181, 11403), (187, 11427), (201, 11487), (329, 11712), (399, 11808), (428, 11880), (444, 11928), (468, 11982), (482, 12024), (494, 12063), (512, 12123), (635, 12402), (641, 12426), (648, 12459), (649, 12462), (663, 12513), (701, 12624), (709, 12645), (710, 12648), (720, 12681), (744, 12759), (755, 12798), (778, 12858), (785, 12888), (795, 12939), (807, 12984), (814, 13029),

Gene: JohnThicc_15 Start: 8974, Stop: 11217, Start Num: 14

Candidate Starts for JohnThicc_15:

(Start: 14 @8974 has 63 MA's), (Start: 38 @9061 has 3 MA's), (64, 9163), (80, 9229), (103, 9334), (131, 9445), (133, 9451), (157, 9547), (168, 9589), (203, 9736), (209, 9754), (315, 9856), (428, 10012), (459, 10090), (481, 10138), (484, 10147), (489, 10165), (502, 10207), (505, 10216), (514, 10243), (524, 10273), (536, 10306), (570, 10408), (573, 10417), (582, 10429), (588, 10450), (592, 10453), (600, 10483), (632, 10591), (709, 10846), (713, 10858), (739, 10942), (742, 10948), (749, 10978),

Gene: JooneeDee_12 Start: 7572, Stop: 9677, Start Num: 32

Candidate Starts for JooneeDee_12:

(6, 7476), (Start: 32 @7572 has 142 MA's), (Start: 38 @7593 has 3 MA's), (69, 7719), (80, 7770), (81, 7779), (85, 7803), (101, 7875), (106, 7899), (137, 7998), (156, 8076), (158, 8088), (160, 8097), (212, 8304), (218, 8322), (270, 8409), (298, 8478), (313, 8490), (328, 8538), (346, 8568), (350, 8583), (370, 8637), (384, 8667), (385, 8670), (392, 8691), (402, 8721), (410, 8748), (426, 8781), (439, 8820), (449, 8847), (451, 8853), (456, 8868), (462, 8883), (476, 8910), (477, 8913), (484, 8934), (487, 8946), (489, 8952), (503, 9000), (515, 9036), (531, 9084), (541, 9111), (550, 9132), (570, 9195), (580, 9219), (626, 9276), (653, 9381), (659, 9402), (661, 9414), (673, 9456), (682, 9477), (693, 9498),

Gene: Josuke_12 Start: 7552, Stop: 9657, Start Num: 32

Candidate Starts for Josuke_12:

(Start: 32 @7552 has 142 MA's), (Start: 38 @7573 has 3 MA's), (80, 7750), (81, 7759), (85, 7783), (101, 7855), (106, 7879), (109, 7885), (149, 8035), (156, 8056), (158, 8068), (160, 8077), (212, 8284), (218, 8302), (270, 8389), (298, 8458), (313, 8470), (328, 8518), (346, 8548), (350, 8563), (363, 8599), (374, 8626), (384, 8647), (392, 8671), (400, 8695), (402, 8701), (410, 8728), (426, 8761), (439, 8800), (449, 8827), (456, 8848), (462, 8863), (476, 8890), (477, 8893), (484, 8914), (487, 8926), (489, 8932), (503, 8980), (529, 9055), (531, 9064), (541, 9091), (550, 9112), (570, 9175), (580, 9199), (626, 9256), (653, 9361), (659, 9382), (661, 9394), (673, 9436), (682, 9457), (693, 9478),

Gene: JrWilcox_69 Start: 33279, Stop: 35780, Start Num: 83

Candidate Starts for JrWilcox_69:

(83, 33279), (115, 33426), (126, 33459), (135, 33483), (147, 33540), (152, 33558), (159, 33582), (168, 33615), (181, 33669), (205, 33750), (212, 33777), (225, 33819), (248, 33882), (300, 34071), (301, 34074), (306, 34092), (346, 34212), (347, 34221), (350, 34233), (382, 34326), (386, 34335), (390, 34347), (391, 34350), (397, 34368), (428, 34458), (472, 34578), (483, 34611), (491, 34638), (493, 34644), (502, 34677), (523, 34740), (527, 34752), (539, 34788), (542, 34797), (551, 34821), (568, 34878), (577, 34908), (582, 34929), (603, 34998), (604, 35007), (625, 35073), (658, 35205), (660, 35217), (675, 35271), (676, 35274), (709, 35358), (720, 35394), (740, 35454), (742, 35457), (758, 35517), (764, 35535), (775, 35565), (790, 35625), (802, 35709), (816, 35769), (817, 35775),

Gene: Jstan_16 Start: 10704, Stop: 13028, Start Num: 14

Candidate Starts for Jstan_16:

(Start: 14 @10704 has 63 MA's), (52, 10857), (53, 10860), (54, 10869), (75, 10950), (87, 11010), (95, 11055), (113, 11127), (138, 11208), (139, 11211), (144, 11241), (158, 11295), (167, 11325), (181, 11382), (187, 11406), (201, 11466), (202, 11472), (211, 11496), (258, 11592), (329, 11691), (399, 11787), (410, 11820), (428, 11859), (444, 11907), (468, 11961), (482, 12003), (494, 12042), (499, 12060), (512, 12102), (547, 12195), (631, 12366), (635, 12381), (663, 12492), (709, 12624), (710, 12627), (720, 12660), (744, 12738), (755, 12777), (778, 12837), (795, 12927),

Gene: Juanyo_16 Start: 9602, Stop: 12022, Start Num: 21

Candidate Starts for Juanyo_16:

(Start: 21 @9602 has 86 MA's), (27, 9617), (Start: 30 @9635 has 5 MA's), (47, 9716), (85, 9881), (96, 9938), (102, 9956), (108, 9980), (122, 10034), (127, 10055), (134, 10073), (146, 10118), (158, 10163), (191, 10274), (210, 10334), (222, 10370), (238, 10409), (245, 10430), (251, 10451), (255, 10463), (273, 10496), (287, 10526), (288, 10529), (292, 10541), (308, 10586), (310, 10592), (314, 10607), (336, 10673), (341, 10691), (347, 10706), (350, 10718), (362, 10751), (378, 10790), (394, 10832), (403, 10859), (404, 10862), (428, 10922), (432, 10937), (442, 10964), (456, 11003), (472, 11036), (474, 11042), (479, 11054), (490, 11090), (494, 11102), (503, 11135), (514, 11168), (525, 11198), (529, 11210), (570, 11330), (584, 11369), (601, 11432), (608, 11465), (619, 11498), (638, 11594), (639, 11597), (650, 11645), (679, 11750), (700, 11795), (712, 11831), (713, 11834), (715, 11840), (732, 11891), (740, 11918), (743, 11927), (760, 11984), (768, 12011), (769, 12014),

Gene: Juicer_18 Start: 10820, Stop: 13258, Start Num: 21

Candidate Starts for Juicer_18:

(Start: 21 @10820 has 86 MA's), (27, 10835), (54, 10964), (71, 11024), (81, 11075), (85, 11099), (96, 11156), (102, 11174), (108, 11198), (122, 11252), (127, 11273), (146, 11336), (158, 11381), (173, 11423), (191, 11492), (210, 11552), (219, 11582), (222, 11588), (238, 11627), (245, 11648), (258, 11690), (273, 11714), (287, 11744), (288, 11747), (308, 11804), (310, 11810), (311, 11813), (314, 11825), (327, 11867), (354, 11948), (361, 11966), (367, 11984), (380, 12014), (384, 12020), (385, 12023), (404, 12080), (440, 12176), (442, 12182), (453, 12212), (456, 12221), (472, 12254), (474, 12260), (479, 12272), (492, 12314), (494, 12320), (503, 12353), (525, 12416), (529, 12428), (584, 12587), (590, 12608), (592, 12617), (594, 12626), (608, 12683), (630, 12782), (636, 12803), (638,

12812), (662, 12905), (679, 12968), (705, 13037), (709, 13043), (711, 13049), (721, 13079), (727, 13100), (737, 13130), (741, 13139), (756, 13190), (772, 13241), (776, 13244),

Gene: Jumboset_18 Start: 12567, Stop: 15128, Start Num: 12

Candidate Starts for Jumboset_18:

(6, 12546), (Start: 12 @12567 has 84 MA's), (26, 12615), (34, 12648), (45, 12696), (53, 12720), (55, 12732), (72, 12792), (82, 12840), (84, 12855), (85, 12861), (113, 12981), (123, 13023), (151, 13119), (153, 13122), (163, 13152), (175, 13206), (176, 13209), (212, 13347), (218, 13368), (226, 13392), (233, 13413), (237, 13422), (250, 13473), (257, 13491), (313, 13677), (373, 13821), (402, 13854), (414, 13881), (423, 13899), (428, 13905), (436, 13929), (439, 13938), (460, 13986), (471, 14013), (472, 14016), (479, 14037), (481, 14043), (483, 14049), (499, 14100), (503, 14115), (507, 14127), (509, 14133), (510, 14136), (513, 14145), (522, 14172), (526, 14184), (529, 14193), (534, 14205), (536, 14211), (544, 14232), (555, 14265), (567, 14304), (588, 14355), (592, 14358), (594, 14367), (596, 14370), (599, 14385), (627, 14475), (636, 14511), (663, 14619), (672, 14655), (709, 14751), (710, 14754), (726, 14808), (739, 14847), (753, 14895), (755, 14904), (763, 14928), (770, 14946), (788, 14997), (793, 15021), (795, 15039), (801, 15069),

Gene: JuneStar_16 Start: 10824, Stop: 13148, Start Num: 14

Candidate Starts for JuneStar_16:

(Start: 14 @10824 has 63 MA's), (56, 10998), (63, 11022), (75, 11070), (87, 11130), (110, 11235), (113, 11247), (138, 11328), (139, 11331), (144, 11361), (158, 11415), (167, 11445), (177, 11487), (181, 11502), (187, 11526), (195, 11556), (201, 11586), (202, 11592), (329, 11811), (410, 11940), (428, 11979), (444, 12027), (454, 12048), (468, 12081), (482, 12123), (494, 12162), (512, 12222), (547, 12315), (568, 12384), (663, 12612), (701, 12723), (709, 12744), (710, 12747), (744, 12858), (755, 12897),

Gene: Kaijohn_12 Start: 7545, Stop: 9650, Start Num: 32

Candidate Starts for Kaijohn_12:

(Start: 32 @7545 has 142 MA's), (Start: 38 @7566 has 3 MA's), (80, 7743), (81, 7752), (85, 7776), (101, 7848), (106, 7872), (109, 7878), (137, 7971), (149, 8028), (156, 8049), (158, 8061), (160, 8070), (212, 8277), (218, 8295), (270, 8382), (298, 8451), (313, 8463), (328, 8511), (346, 8541), (350, 8556), (363, 8592), (374, 8619), (384, 8640), (392, 8664), (400, 8688), (402, 8694), (410, 8721), (426, 8754), (439, 8793), (449, 8820), (456, 8841), (462, 8856), (476, 8883), (477, 8886), (484, 8907), (487, 8919), (489, 8925), (503, 8973), (531, 9057), (541, 9084), (550, 9105), (570, 9168), (626, 9249), (653, 9354), (661, 9387), (673, 9429), (682, 9450), (693, 9471), (745, 9600),

Gene: Kale_17 Start: 9669, Stop: 11939, Start Num: 20

Candidate Starts for Kale_17:

(Start: 20 @9669 has 123 MA's), (47, 9786), (54, 9816), (71, 9876), (81, 9927), (85, 9951), (96, 10008), (120, 10095), (122, 10104), (146, 10188), (158, 10233), (168, 10260), (169, 10263), (191, 10353), (210, 10413), (232, 10470), (245, 10491), (287, 10587), (288, 10590), (304, 10632), (328, 10713), (336, 10734), (339, 10746), (350, 10779), (380, 10857), (384, 10863), (394, 10893), (406, 10932), (419, 10965), (422, 10971), (428, 10983), (432, 10998), (437, 11010), (440, 11019), (442, 11025), (460, 11073), (472, 11097), (474, 11103), (486, 11139), (503, 11196), (559, 11361), (580, 11415), (630, 11493), (639, 11526), (650, 11574), (675, 11664), (679, 11679), (700, 11721), (703, 11733), (710, 11748), (740, 11835), (743, 11844), (760, 11901),

Gene: Kalimba_16 Start: 10244, Stop: 12664, Start Num: 19

Candidate Starts for Kalimba_16:

(Start: 19 @10244 has 21 MA's), (41, 10331), (53, 10388), (65, 10436), (69, 10448), (81, 10508), (104, 10619), (126, 10700), (160, 10826), (164, 10841), (177, 10895), (226, 11069), (251, 11153), (258, 11174), (263, 11195), (269, 11216), (282, 11267), (305, 11342), (312, 11363), (321, 11396), (340, 11453), (353, 11495), (358, 11510), (379, 11561), (393, 11597), (431, 11705), (439, 11726), (454,

11768), (459, 11780), (472, 11834), (487, 11882), (518, 11978), (572, 12134), (580, 12155), (583, 12167), (597, 12218), (650, 12368), (660, 12404), (669, 12437), (728, 12596),

Gene: Kalizoi_18 Start: 12566, Stop: 15127, Start Num: 12

Candidate Starts for Kalizoi_18:

(6, 12545), (Start: 12 @12566 has 84 MA's), (26, 12614), (34, 12647), (45, 12695), (53, 12719), (55, 12731), (72, 12791), (82, 12839), (84, 12854), (85, 12860), (113, 12980), (123, 13022), (151, 13118), (153, 13121), (163, 13151), (175, 13205), (212, 13346), (218, 13367), (226, 13391), (233, 13412), (237, 13421), (250, 13472), (257, 13490), (313, 13676), (373, 13820), (402, 13853), (414, 13880), (423, 13898), (428, 13904), (436, 13928), (439, 13937), (460, 13985), (471, 14012), (472, 14015), (479, 14036), (483, 14048), (499, 14099), (503, 14114), (507, 14126), (510, 14135), (513, 14144), (522, 14171), (526, 14183), (529, 14192), (534, 14204), (536, 14210), (544, 14231), (552, 14255), (555, 14264), (567, 14303), (588, 14354), (592, 14357), (594, 14366), (596, 14369), (599, 14384), (627, 14474), (636, 14510), (663, 14618), (672, 14654), (709, 14750), (710, 14753), (726, 14807), (739, 14846), (753, 14894), (755, 14903), (763, 14927), (770, 14945), (788, 14996), (793, 15020), (795, 15038), (801, 15068),

Gene: KannH_17 Start: 9654, Stop: 11924, Start Num: 20

Candidate Starts for KannH_17:

(Start: 20 @9654 has 123 MA's), (47, 9771), (54, 9801), (71, 9861), (81, 9912), (85, 9936), (96, 9993), (120, 10080), (122, 10089), (146, 10173), (158, 10218), (168, 10245), (169, 10248), (191, 10338), (210, 10398), (232, 10455), (245, 10476), (287, 10572), (288, 10575), (304, 10617), (328, 10698), (336, 10719), (339, 10731), (350, 10764), (380, 10842), (384, 10848), (394, 10878), (406, 10917), (419, 10950), (422, 10956), (432, 10983), (437, 10995), (440, 11004), (442, 11010), (460, 11058), (472, 11082), (474, 11088), (486, 11124), (503, 11181), (559, 11346), (580, 11400), (630, 11478), (638, 11508), (639, 11511), (650, 11559), (675, 11649), (679, 11664), (700, 11706), (703, 11718), (710, 11733), (740, 11820), (743, 11829), (760, 11886),

Gene: KatChan_18 Start: 9878, Stop: 12307, Start Num: 21

Candidate Starts for KatChan_18:

(Start: 21 @9878 has 86 MA's), (27, 9893), (Start: 30 @9911 has 5 MA's), (81, 10133), (85, 10157), (96, 10214), (116, 10286), (122, 10310), (146, 10394), (158, 10439), (169, 10469), (191, 10559), (210, 10619), (255, 10730), (287, 10793), (288, 10796), (292, 10808), (308, 10853), (310, 10859), (327, 10916), (336, 10940), (341, 10958), (353, 10994), (354, 10997), (357, 11006), (384, 11069), (385, 11072), (388, 11081), (404, 11129), (410, 11150), (442, 11231), (451, 11255), (453, 11261), (456, 11270), (474, 11309), (479, 11321), (487, 11348), (492, 11363), (494, 11369), (503, 11402), (508, 11417), (525, 11465), (529, 11477), (559, 11567), (574, 11609), (575, 11612), (584, 11636), (590, 11657), (594, 11675), (616, 11753), (630, 11831), (636, 11852), (638, 11861), (662, 11954), (678, 12014), (679, 12017), (704, 12083), (709, 12092), (721, 12128), (729, 12152), (756, 12239), (765, 12266), (772, 12290),

Gene: Kauala_17 Start: 9586, Stop: 11994, Start Num: 21

Candidate Starts for Kauala_17:

(Start: 21 @9586 has 86 MA's), (47, 9700), (71, 9790), (72, 9793), (81, 9841), (85, 9865), (96, 9922), (120, 10009), (122, 10018), (146, 10102), (158, 10147), (169, 10177), (176, 10210), (179, 10219), (191, 10267), (210, 10327), (232, 10384), (287, 10501), (288, 10504), (292, 10516), (308, 10561), (328, 10627), (333, 10639), (336, 10648), (337, 10654), (350, 10693), (354, 10705), (373, 10753), (375, 10759), (384, 10777), (389, 10792), (430, 10903), (437, 10924), (442, 10939), (486, 11053), (525, 11173), (570, 11305), (574, 11317), (592, 11374), (598, 11395), (611, 11449), (618, 11470), (619, 11473), (622, 11494), (638, 11569), (639, 11572), (650, 11620), (664, 11668), (675, 11710), (695, 11758), (700, 11770), (740, 11890), (743, 11899), (744, 11905), (760, 11956),

Gene: Kavo_17 Start: 9804, Stop: 12242, Start Num: 21

Candidate Starts for Kavo_17:

(Start: 21 @9804 has 86 MA's), (39, 9876), (62, 9975), (69, 9996), (70, 9999), (85, 10080), (96, 10137), (102, 10155), (108, 10179), (122, 10233), (127, 10254), (146, 10317), (158, 10362), (178, 10422), (183, 10440), (191, 10473), (210, 10533), (219, 10563), (222, 10569), (238, 10608), (245, 10629), (273, 10695), (287, 10725), (288, 10728), (292, 10740), (308, 10785), (310, 10791), (328, 10851), (336, 10872), (353, 10926), (354, 10929), (384, 11001), (389, 11016), (410, 11082), (432, 11136), (442, 11163), (453, 11193), (456, 11202), (472, 11235), (474, 11241), (479, 11253), (487, 11280), (492, 11295), (494, 11301), (497, 11313), (503, 11334), (514, 11367), (525, 11397), (529, 11409), (575, 11544), (590, 11589), (592, 11598), (594, 11607), (608, 11664), (613, 11676), (616, 11685), (630, 11763), (638, 11793), (639, 11796), (656, 11862), (678, 11946), (679, 11949), (685, 11961), (692, 11979), (705, 12018), (709, 12024), (750, 12153), (772, 12225),

Gene: KayPaulus_12 Start: 7533, Stop: 9638, Start Num: 32

Candidate Starts for KayPaulus_12:

(Start: 32 @7533 has 142 MA's), (Start: 38 @7554 has 3 MA's), (80, 7731), (81, 7740), (85, 7764), (101, 7836), (106, 7860), (109, 7866), (137, 7959), (149, 8016), (156, 8037), (158, 8049), (160, 8058), (212, 8265), (218, 8283), (270, 8370), (298, 8439), (313, 8451), (328, 8499), (346, 8529), (350, 8544), (363, 8580), (374, 8607), (385, 8631), (392, 8652), (400, 8676), (402, 8682), (410, 8709), (426, 8742), (439, 8781), (449, 8808), (456, 8829), (462, 8844), (476, 8871), (477, 8874), (487, 8907), (489, 8913), (503, 8961), (515, 8997), (531, 9045), (541, 9072), (550, 9093), (570, 9156), (580, 9180), (626, 9237), (653, 9342), (659, 9363), (661, 9375), (673, 9417), (682, 9438), (693, 9459), (745, 9588),

Gene: Kaylissa_16 Start: 10731, Stop: 13046, Start Num: 14

Candidate Starts for Kaylissa_16:

(Start: 14 @10731 has 63 MA's), (53, 10887), (54, 10896), (75, 10977), (78, 10989), (87, 11037), (113, 11154), (138, 11235), (139, 11238), (144, 11268), (158, 11322), (167, 11352), (181, 11409), (187, 11433), (201, 11493), (329, 11718), (399, 11814), (428, 11886), (444, 11934), (468, 11988), (482, 12030), (494, 12069), (512, 12129), (635, 12408), (641, 12432), (648, 12465), (649, 12468), (663, 12519), (701, 12630), (709, 12651), (710, 12654), (720, 12687), (744, 12765), (751, 12786), (755, 12804), (778, 12864), (785, 12894), (795, 12945), (807, 12990), (814, 13035),

Gene: KeAlii_16 Start: 10771, Stop: 13071, Start Num: 14

Candidate Starts for KeAlii_16:

(Start: 14 @10771 has 63 MA's), (53, 10927), (54, 10936), (75, 11017), (87, 11077), (113, 11194), (125, 11245), (138, 11275), (139, 11278), (144, 11308), (158, 11362), (167, 11392), (174, 11425), (181, 11449), (187, 11473), (195, 11503), (201, 11533), (202, 11539), (211, 11563), (336, 11776), (399, 11857), (417, 11902), (428, 11929), (444, 11977), (482, 12073), (494, 12112), (496, 12121), (516, 12184), (517, 12187), (550, 12274), (560, 12310), (568, 12334), (635, 12451), (639, 12466), (655, 12532), (675, 12607), (712, 12703), (742, 12793), (749, 12823), (769, 12877), (778, 12898), (800, 13006),

Gene: KellyGreen_17 Start: 9654, Stop: 11924, Start Num: 20

Candidate Starts for KellyGreen_17:

(Start: 20 @9654 has 123 MA's), (47, 9771), (54, 9801), (71, 9861), (81, 9912), (85, 9936), (96, 9993), (120, 10080), (122, 10089), (146, 10173), (158, 10218), (168, 10245), (169, 10248), (191, 10338), (210, 10398), (232, 10455), (245, 10476), (287, 10572), (288, 10575), (304, 10617), (328, 10698), (336, 10719), (339, 10731), (350, 10764), (380, 10842), (384, 10848), (394, 10878), (406, 10917), (419, 10950), (422, 10956), (428, 10968), (432, 10983), (437, 10995), (440, 11004), (442, 11010), (460, 11058), (472, 11082), (474, 11088), (486, 11124), (503, 11181), (559, 11346), (580, 11400), (630, 11478), (638, 11508), (639, 11511), (650, 11559), (675, 11649), (679, 11664), (700, 11706), (703, 11718), (710, 11733), (740, 11820), (743, 11829), (760, 11886),

Gene: Kevanna_12 Start: 7533, Stop: 9638, Start Num: 32

Candidate Starts for Kevanna_12:

(Start: 32 @7533 has 142 MA's), (Start: 38 @7554 has 3 MA's), (80, 7731), (81, 7740), (85, 7764), (101, 7836), (106, 7860), (109, 7866), (137, 7959), (149, 8016), (156, 8037), (158, 8049), (160, 8058), (212, 8265), (218, 8283), (270, 8370), (298, 8439), (313, 8451), (328, 8499), (346, 8529), (350, 8544), (363, 8580), (374, 8607), (385, 8631), (392, 8652), (400, 8676), (402, 8682), (410, 8709), (426, 8742), (439, 8781), (449, 8808), (456, 8829), (462, 8844), (476, 8871), (477, 8874), (487, 8907), (489, 8913), (503, 8961), (515, 8997), (531, 9045), (541, 9072), (550, 9093), (570, 9156), (580, 9180), (626, 9237), (653, 9342), (659, 9363), (661, 9375), (673, 9417), (682, 9438), (693, 9459), (745, 9588),

Gene: KillerTomato_12 Start: 7586, Stop: 9691, Start Num: 32

Candidate Starts for KillerTomato_12:

(Start: 32 @7586 has 142 MA's), (Start: 38 @7607 has 3 MA's), (80, 7784), (81, 7793), (85, 7817), (101, 7889), (106, 7913), (109, 7919), (137, 8012), (149, 8069), (156, 8090), (158, 8102), (160, 8111), (212, 8318), (218, 8336), (270, 8423), (298, 8492), (313, 8504), (328, 8552), (346, 8582), (350, 8597), (363, 8633), (374, 8660), (385, 8684), (392, 8705), (400, 8729), (402, 8735), (410, 8762), (426, 8795), (439, 8834), (449, 8861), (456, 8882), (462, 8897), (476, 8924), (477, 8927), (484, 8948), (487, 8960), (489, 8966), (503, 9014), (515, 9050), (531, 9098), (541, 9125), (550, 9146), (570, 9209), (580, 9233), (626, 9290), (653, 9395), (659, 9416), (661, 9428), (673, 9470), (682, 9491), (693, 9512), (745, 9641),

Gene: KingBob_14 Start: 9744, Stop: 12302, Start Num: 12

Candidate Starts for KingBob_14:

(Start: 12 @9744 has 84 MA's), (15, 9753), (22, 9783), (45, 9873), (55, 9909), (82, 10017), (84, 10032), (123, 10200), (151, 10296), (226, 10569), (233, 10590), (244, 10620), (250, 10650), (276, 10737), (314, 10860), (339, 10935), (373, 10998), (402, 11031), (411, 11052), (414, 11058), (423, 11076), (428, 11082), (436, 11106), (454, 11148), (460, 11163), (464, 11169), (473, 11196), (489, 11247), (500, 11280), (502, 11289), (509, 11310), (513, 11322), (522, 11349), (526, 11361), (529, 11370), (534, 11382), (536, 11388), (537, 11391), (546, 11412), (555, 11442), (560, 11460), (567, 11481), (570, 11490), (573, 11499), (588, 11532), (592, 11535), (596, 11547), (599, 11562), (626, 11646), (627, 11652), (636, 11688), (649, 11745), (651, 11754), (663, 11796), (678, 11853), (709, 11928), (710, 11931), (719, 11961), (726, 11985), (744, 12042), (753, 12072), (755, 12081), (763, 12105), (767, 12117), (801, 12243),

Gene: KingJulien_17 Start: 9762, Stop: 12029, Start Num: 20

Candidate Starts for KingJulien_17:

(Start: 20 @9762 has 123 MA's), (69, 9960), (72, 9972), (81, 10020), (85, 10044), (96, 10101), (99, 10110), (116, 10173), (120, 10188), (122, 10197), (146, 10281), (158, 10326), (169, 10356), (191, 10446), (210, 10506), (232, 10563), (287, 10680), (288, 10683), (292, 10695), (308, 10740), (328, 10806), (336, 10827), (339, 10839), (350, 10872), (384, 10956), (394, 10986), (406, 11025), (410, 11037), (432, 11091), (440, 11112), (442, 11118), (460, 11166), (471, 11187), (486, 11232), (503, 11289), (535, 11382), (580, 11508), (630, 11586), (638, 11616), (639, 11619), (650, 11667), (675, 11757), (679, 11772), (695, 11802), (740, 11925), (743, 11934), (760, 11991),

Gene: Kittykat_14 Start: 9756, Stop: 12314, Start Num: 12

Candidate Starts for Kittykat_14:

(6, 9735), (Start: 12 @9756 has 84 MA's), (26, 9804), (45, 9885), (72, 9981), (81, 10026), (84, 10044), (85, 10050), (118, 10191), (123, 10212), (140, 10257), (151, 10308), (153, 10311), (163, 10341), (175, 10395), (209, 10524), (233, 10602), (237, 10611), (240, 10617), (243, 10629), (250, 10662), (262, 10704), (276, 10749), (313, 10869), (314, 10872), (339, 10947), (373, 11010), (414, 11070), (423, 11088), (428, 11094), (431, 11106), (438, 11124), (460, 11175), (464, 11181), (472, 11205), (478, 11223), (483, 11238), (485, 11247), (500, 11292), (502, 11301), (509, 11322), (513, 11334), (514, 11337), (521, 11358), (522, 11361), (524, 11367), (526, 11373), (534, 11394), (536, 11400), (544, 11421), (552, 11445), (555, 11454), (558, 11466), (560, 11472), (567, 11493), (588, 11544), (592, 11547), (594, 11556), (596, 11559), (627, 11664), (629, 11676), (635, 11697), (651, 11766), (663,

11808), (666, 11820), (667, 11823), (671, 11841), (672, 11844), (709, 11940), (710, 11943), (726, 11997), (739, 12036), (744, 12054), (753, 12084), (755, 12093), (770, 12135), (801, 12255),

Gene: Klimt_17 Start: 9647, Stop: 11917, Start Num: 20

Candidate Starts for Klimt_17:

(Start: 20 @9647 has 123 MA's), (47, 9764), (54, 9794), (71, 9854), (81, 9905), (85, 9929), (96, 9986), (116, 10058), (120, 10073), (122, 10082), (146, 10166), (158, 10211), (169, 10241), (191, 10331), (210, 10391), (232, 10448), (245, 10469), (287, 10565), (288, 10568), (304, 10610), (328, 10691), (336, 10712), (339, 10724), (350, 10757), (384, 10841), (394, 10871), (406, 10910), (419, 10943), (422, 10949), (432, 10976), (437, 10988), (440, 10997), (442, 11003), (455, 11039), (460, 11051), (474, 11081), (486, 11117), (503, 11174), (535, 11267), (559, 11339), (580, 11393), (630, 11471), (638, 11501), (639, 11504), (650, 11552), (662, 11594), (675, 11642), (679, 11657), (700, 11699), (732, 11786), (740, 11813), (760, 11879),

Gene: Knox_17 Start: 9362, Stop: 11632, Start Num: 20

Candidate Starts for Knox_17:

(Start: 20 @9362 has 123 MA's), (47, 9479), (54, 9509), (81, 9620), (85, 9644), (96, 9701), (116, 9773), (120, 9788), (122, 9797), (146, 9881), (158, 9926), (169, 9956), (191, 10046), (210, 10106), (232, 10163), (245, 10184), (287, 10280), (288, 10283), (304, 10325), (328, 10406), (336, 10427), (339, 10439), (350, 10472), (384, 10556), (394, 10586), (406, 10625), (419, 10658), (422, 10664), (437, 10703), (440, 10712), (442, 10718), (455, 10754), (460, 10766), (474, 10796), (486, 10832), (503, 10889), (514, 10922), (535, 10982), (559, 11054), (630, 11186), (638, 11216), (639, 11219), (650, 11267), (662, 11309), (675, 11357), (679, 11372), (700, 11414), (710, 11441), (740, 11528), (743, 11537), (760, 11594),

Gene: Kojax4_12 Start: 7552, Stop: 9657, Start Num: 32

Candidate Starts for Kojax4_12:

(Start: 32 @7552 has 142 MA's), (Start: 38 @7573 has 3 MA's), (80, 7750), (81, 7759), (85, 7783), (101, 7855), (106, 7879), (109, 7885), (149, 8035), (156, 8056), (158, 8068), (160, 8077), (212, 8284), (218, 8302), (270, 8389), (298, 8458), (313, 8470), (328, 8518), (346, 8548), (350, 8563), (363, 8599), (374, 8626), (384, 8647), (392, 8671), (400, 8695), (402, 8701), (410, 8728), (426, 8761), (439, 8800), (449, 8827), (456, 8848), (462, 8863), (476, 8890), (477, 8893), (484, 8914), (487, 8926), (489, 8932), (503, 8980), (529, 9055), (531, 9064), (541, 9091), (550, 9112), (570, 9175), (580, 9199), (626, 9256), (653, 9361), (659, 9382), (661, 9394), (673, 9436), (682, 9457), (693, 9478),

Gene: Koji_17 Start: 9718, Stop: 12126, Start Num: 21

Candidate Starts for Koji_17:

(Start: 21 @9718 has 86 MA's), (47, 9832), (56, 9871), (81, 9973), (85, 9997), (96, 10054), (108, 10096), (118, 10135), (120, 10141), (122, 10150), (146, 10234), (158, 10279), (169, 10309), (176, 10342), (179, 10351), (191, 10399), (210, 10459), (232, 10516), (287, 10633), (288, 10636), (292, 10648), (308, 10693), (328, 10759), (333, 10771), (336, 10780), (337, 10786), (354, 10837), (374, 10888), (375, 10891), (384, 10909), (389, 10924), (419, 11011), (430, 11035), (442, 11071), (487, 11188), (503, 11242), (514, 11275), (525, 11305), (559, 11407), (570, 11437), (574, 11449), (592, 11506), (598, 11527), (603, 11548), (611, 11581), (616, 11593), (618, 11602), (619, 11605), (622, 11626), (629, 11668), (638, 11701), (639, 11704), (650, 11752), (664, 11800), (675, 11842), (700, 11902), (707, 11926), (740, 12022), (743, 12031), (760, 12088),

Gene: Korra_19 Start: 12572, Stop: 15133, Start Num: 12

Candidate Starts for Korra_19:

(6, 12551), (Start: 12 @12572 has 84 MA's), (26, 12620), (34, 12653), (45, 12701), (53, 12725), (55, 12737), (72, 12797), (82, 12845), (84, 12860), (85, 12866), (113, 12986), (123, 13028), (151, 13124), (153, 13127), (163, 13157), (175, 13211), (212, 13352), (218, 13373), (226, 13397), (233, 13418), (237, 13427), (250, 13478), (257, 13496), (313, 13682), (373, 13826), (402, 13859), (414, 13886),

(423, 13904), (428, 13910), (436, 13934), (439, 13943), (460, 13991), (471, 14018), (472, 14021), (479, 14042), (483, 14054), (499, 14105), (503, 14120), (507, 14132), (510, 14141), (513, 14150), (522, 14177), (526, 14189), (529, 14198), (534, 14210), (536, 14216), (544, 14237), (552, 14261), (555, 14270), (567, 14309), (588, 14360), (592, 14363), (594, 14372), (596, 14375), (599, 14390), (627, 14480), (636, 14516), (663, 14624), (672, 14660), (709, 14756), (710, 14759), (726, 14813), (739, 14852), (753, 14900), (755, 14909), (763, 14933), (770, 14951), (788, 15002), (793, 15026), (801, 15074),

Gene: Kouch_17 Start: 9654, Stop: 11924, Start Num: 20

Candidate Starts for Kouch_17:

(Start: 20 @9654 has 123 MA's), (47, 9771), (54, 9801), (71, 9861), (81, 9912), (85, 9936), (96, 9993), (120, 10080), (122, 10089), (146, 10173), (158, 10218), (168, 10245), (169, 10248), (191, 10338), (210, 10398), (232, 10455), (245, 10476), (287, 10572), (288, 10575), (304, 10617), (328, 10698), (336, 10719), (339, 10731), (350, 10764), (380, 10842), (384, 10848), (394, 10878), (406, 10917), (419, 10950), (422, 10956), (432, 10983), (437, 10995), (440, 11004), (442, 11010), (460, 11058), (472, 11082), (474, 11088), (486, 11124), (503, 11181), (559, 11346), (580, 11400), (630, 11478), (638, 11508), (639, 11511), (650, 11559), (675, 11649), (679, 11664), (700, 11706), (703, 11718), (710, 11733), (740, 11820), (743, 11829), (760, 11886),

Gene: Kurt1_17 Start: 9364, Stop: 11634, Start Num: 20

Candidate Starts for Kurt1_17:

(Start: 20 @9364 has 123 MA's), (47, 9481), (54, 9511), (71, 9571), (81, 9622), (85, 9646), (96, 9703), (120, 9790), (122, 9799), (146, 9883), (158, 9928), (168, 9955), (169, 9958), (191, 10048), (210, 10108), (232, 10165), (245, 10186), (287, 10282), (288, 10285), (304, 10327), (328, 10408), (336, 10429), (339, 10441), (350, 10474), (380, 10552), (384, 10558), (394, 10588), (406, 10627), (419, 10660), (422, 10666), (428, 10678), (432, 10693), (437, 10705), (440, 10714), (442, 10720), (460, 10768), (486, 10834), (503, 10891), (559, 11056), (580, 11110), (630, 11188), (638, 11218), (639, 11221), (650, 11269), (675, 11359), (679, 11374), (703, 11428), (710, 11443), (740, 11530), (743, 11539), (760, 11596),

Gene: KyriosFaba_12 Start: 7540, Stop: 9645, Start Num: 32

Candidate Starts for KyriosFaba_12:

(Start: 32 @7540 has 142 MA's), (Start: 38 @7561 has 3 MA's), (80, 7738), (81, 7747), (85, 7771), (101, 7843), (106, 7867), (109, 7873), (149, 8023), (156, 8044), (158, 8056), (160, 8065), (212, 8272), (218, 8290), (270, 8377), (298, 8446), (313, 8458), (328, 8506), (346, 8536), (350, 8551), (363, 8587), (374, 8614), (384, 8635), (392, 8659), (400, 8683), (402, 8689), (410, 8716), (426, 8749), (439, 8788), (449, 8815), (456, 8836), (462, 8851), (476, 8878), (477, 8881), (484, 8902), (487, 8914), (489, 8920), (503, 8968), (515, 9004), (531, 9052), (541, 9079), (550, 9100), (570, 9163), (580, 9187), (626, 9244), (653, 9349), (659, 9370), (661, 9382), (673, 9424), (682, 9445), (693, 9466), (745, 9595),

Gene: Labella_21 Start: 13470, Stop: 15458, Start Num: 24

Candidate Starts for Labella_21:

(Start: 24 @13470 has 21 MA's), (36, 13509), (64, 13620), (69, 13635), (72, 13647), (113, 13839), (120, 13863), (132, 13905), (168, 14046), (185, 14112), (208, 14208), (296, 14319), (337, 14421), (350, 14445), (417, 14514), (433, 14547), (519, 14712), (547, 14745), (587, 14760), (592, 14772), (597, 14790), (637, 14904), (638, 14910), (727, 15165), (747, 15231), (766, 15291), (808, 15432),

Gene: LadyAstra_15 Start: 8974, Stop: 11217, Start Num: 14

Candidate Starts for LadyAstra_15:

(Start: 14 @8974 has 63 MA's), (Start: 38 @9061 has 3 MA's), (64, 9163), (80, 9229), (103, 9334), (131, 9445), (133, 9451), (157, 9547), (168, 9589), (203, 9736), (209, 9754), (315, 9856), (428, 10012), (459, 10090), (481, 10138), (484, 10147), (489, 10165), (502, 10207), (505, 10216), (514, 10243), (524, 10273), (536, 10306), (570, 10408), (573, 10417), (582, 10429), (588, 10450), (592, 10453),

(600, 10483), (632, 10591), (709, 10846), (713, 10858), (739, 10942), (742, 10948), (749, 10978),

Gene: Lakshmi_18 Start: 12636, Stop: 15197, Start Num: 12

Candidate Starts for Lakshmi_18:

(6, 12615), (Start: 12 @12636 has 84 MA's), (37, 12726), (45, 12765), (55, 12801), (72, 12861), (82, 12909), (84, 12924), (123, 13092), (140, 13137), (151, 13188), (153, 13191), (175, 13275), (226, 13461), (240, 13497), (243, 13509), (253, 13551), (284, 13662), (352, 13860), (414, 13953), (428, 13977), (429, 13980), (460, 14058), (464, 14064), (473, 14091), (483, 14121), (502, 14184), (507, 14199), (510, 14208), (511, 14211), (514, 14220), (522, 14244), (526, 14256), (528, 14262), (534, 14277), (536, 14283), (537, 14286), (546, 14307), (551, 14322), (555, 14337), (560, 14355), (562, 14361), (567, 14376), (570, 14385), (573, 14394), (588, 14427), (592, 14430), (596, 14442), (597, 14448), (600, 14460), (623, 14526), (626, 14541), (633, 14571), (635, 14580), (663, 14691), (672, 14727), (678, 14748), (709, 14823), (710, 14826), (726, 14880), (732, 14895), (739, 14919), (755, 14976), (763, 15000), (780, 15042), (788, 15069), (801, 15138),

Gene: Laroye_67 Start: 36530, Stop: 39547, Start Num: 4

Candidate Starts for Laroye_67:

(Start: 4 @36530 has 6 MA's), (8, 36551), (16, 36581), (17, 36584), (43, 36689), (64, 36773), (66, 36782), (80, 36842), (128, 37052), (131, 37058), (132, 37061), (133, 37064), (154, 37151), (168, 37202), (178, 37244), (179, 37247), (199, 37331), (203, 37349), (252, 37499), (296, 37592), (298, 37601), (326, 37691), (355, 37787), (362, 37805), (366, 37817), (369, 37835), (371, 37838), (376, 37850), (381, 37871), (386, 37883), (403, 37934), (434, 38027), (468, 38114), (480, 38150), (484, 38162), (486, 38171), (495, 38201), (500, 38216), (502, 38225), (525, 38294), (538, 38333), (578, 38459), (598, 38534), (620, 38609), (623, 38630), (629, 38663), (630, 38666), (641, 38708), (643, 38720), (648, 38741), (663, 38795), (699, 38897), (719, 38960), (753, 39071), (763, 39104), (782, 39158), (784, 39167), (805, 39260), (810, 39269), (818, 39368), (819, 39374), (821, 39404), (822, 39443), (824, 39530),

Gene: Lasagna_14 Start: 9717, Stop: 12278, Start Num: 12

Candidate Starts for Lasagna_14:

(6, 9696), (Start: 12 @9717 has 84 MA's), (26, 9765), (45, 9846), (53, 9870), (72, 9942), (82, 9990), (84, 10005), (85, 10011), (113, 10131), (123, 10173), (151, 10269), (153, 10272), (163, 10302), (197, 10440), (218, 10518), (233, 10563), (237, 10572), (250, 10623), (257, 10641), (260, 10653), (267, 10677), (335, 10893), (391, 10983), (402, 11004), (414, 11031), (423, 11049), (428, 11055), (436, 11079), (439, 11088), (460, 11136), (471, 11163), (481, 11193), (499, 11250), (503, 11265), (507, 11277), (509, 11283), (510, 11286), (513, 11295), (522, 11322), (526, 11334), (529, 11343), (534, 11355), (536, 11361), (546, 11385), (552, 11406), (555, 11415), (559, 11430), (567, 11454), (588, 11505), (592, 11508), (596, 11520), (618, 11595), (627, 11625), (636, 11661), (663, 11769), (666, 11781), (672, 11805), (709, 11901), (710, 11904), (720, 11937), (726, 11958), (739, 11997), (744, 12015), (753, 12045), (755, 12054), (763, 12078), (789, 12153), (801, 12219),

Gene: LastNadiia_20 Start: 11846, Stop: 14134, Start Num: 11

Candidate Starts for LastNadiia_20:

(Start: 11 @11846 has 8 MA's), (102, 12206), (103, 12209), (131, 12320), (132, 12323), (133, 12326), (168, 12464), (203, 12611), (319, 12782), (335, 12830), (432, 12962), (472, 13046), (476, 13058), (484, 13082), (496, 13124), (502, 13142), (506, 13154), (532, 13232), (534, 13235), (544, 13262), (551, 13280), (553, 13289), (560, 13313), (565, 13328), (567, 13334), (572, 13346), (573, 13352), (592, 13388), (600, 13418), (623, 13484), (660, 13640), (666, 13661), (667, 13664), (709, 13781), (710, 13784), (720, 13817), (755, 13934), (763, 13958), (797, 14075),

Gene: LaviMo_12 Start: 7552, Stop: 9657, Start Num: 32

Candidate Starts for LaviMo_12:

(Start: 32 @7552 has 142 MA's), (Start: 38 @7573 has 3 MA's), (80, 7750), (81, 7759), (85, 7783), (101, 7855), (106, 7879), (109, 7885), (149, 8035), (156, 8056), (158, 8068), (160, 8077), (212, 8284), (218, 8302), (270, 8389), (298, 8458), (313, 8470), (328, 8518), (346, 8548), (350, 8563), (363, 8599), (374, 8626), (384, 8647), (392, 8671), (400, 8695), (402, 8701), (410, 8728), (426, 8761), (439, 8800), (449, 8827), (456, 8848), (462, 8863), (476, 8890), (477, 8893), (484, 8914), (487, 8926), (489, 8932), (503, 8980), (529, 9055), (531, 9064), (541, 9091), (550, 9112), (570, 9175), (580, 9199), (626, 9256), (653, 9361), (659, 9382), (661, 9394), (673, 9436), (682, 9457), (693, 9478),

Gene: Leafus_17 Start: 9909, Stop: 12176, Start Num: 20

Candidate Starts for Leafus_17:

(Start: 20 @9909 has 123 MA's), (54, 10056), (72, 10119), (81, 10167), (85, 10191), (96, 10248), (99, 10257), (116, 10320), (118, 10329), (120, 10335), (122, 10344), (146, 10428), (158, 10473), (169, 10503), (191, 10593), (210, 10653), (232, 10710), (245, 10731), (287, 10827), (288, 10830), (292, 10842), (308, 10887), (328, 10953), (336, 10974), (339, 10986), (350, 11019), (384, 11103), (394, 11133), (406, 11172), (410, 11184), (432, 11238), (440, 11259), (442, 11265), (460, 11313), (471, 11334), (486, 11379), (503, 11436), (535, 11529), (580, 11655), (630, 11733), (638, 11763), (639, 11766), (650, 11814), (675, 11904), (679, 11919), (695, 11949), (740, 12072), (743, 12081), (760, 12138),

Gene: Leafy_12 Start: 7556, Stop: 9661, Start Num: 32

Candidate Starts for Leafy_12:

(Start: 32 @7556 has 142 MA's), (Start: 38 @7577 has 3 MA's), (80, 7754), (81, 7763), (85, 7787), (101, 7859), (106, 7883), (109, 7889), (137, 7982), (149, 8039), (156, 8060), (158, 8072), (160, 8081), (212, 8288), (218, 8306), (270, 8393), (298, 8462), (313, 8474), (328, 8522), (346, 8552), (350, 8567), (374, 8630), (385, 8654), (392, 8675), (400, 8699), (402, 8705), (410, 8732), (426, 8765), (439, 8804), (451, 8837), (456, 8852), (462, 8867), (476, 8894), (477, 8897), (487, 8930), (489, 8936), (503, 8984), (531, 9068), (541, 9095), (550, 9116), (570, 9179), (580, 9203), (626, 9260), (653, 9365), (659, 9386), (661, 9398), (673, 9440), (682, 9461), (693, 9482), (745, 9611),

Gene: Lego_16 Start: 10730, Stop: 13045, Start Num: 14

Candidate Starts for Lego_16:

(Start: 14 @10730 has 63 MA's), (53, 10886), (54, 10895), (75, 10976), (78, 10988), (87, 11036), (88, 11039), (95, 11081), (113, 11153), (138, 11234), (139, 11237), (144, 11267), (158, 11321), (167, 11351), (181, 11408), (187, 11432), (201, 11492), (329, 11717), (399, 11813), (425, 11876), (428, 11885), (444, 11933), (450, 11942), (454, 11954), (468, 11987), (482, 12029), (494, 12068), (512, 12128), (561, 12269), (598, 12344), (611, 12356), (633, 12398), (635, 12407), (641, 12431), (663, 12518), (701, 12629), (709, 12650), (710, 12653), (720, 12686), (744, 12764), (755, 12803), (778, 12863), (785, 12893), (795, 12944), (807, 12989), (814, 13034),

Gene: LemonPepper_12 Start: 7540, Stop: 9645, Start Num: 32

Candidate Starts for LemonPepper_12:

(Start: 32 @7540 has 142 MA's), (Start: 38 @7561 has 3 MA's), (80, 7738), (81, 7747), (85, 7771), (101, 7843), (106, 7867), (109, 7873), (149, 8023), (156, 8044), (158, 8056), (160, 8065), (212, 8272), (218, 8290), (270, 8377), (298, 8446), (313, 8458), (328, 8506), (346, 8536), (350, 8551), (363, 8587), (374, 8614), (384, 8635), (392, 8659), (400, 8683), (402, 8689), (410, 8716), (426, 8749), (439, 8788), (449, 8815), (456, 8836), (462, 8851), (476, 8878), (477, 8881), (484, 8902), (487, 8914), (489, 8920), (503, 8968), (515, 9004), (531, 9052), (541, 9079), (550, 9100), (570, 9163), (580, 9187), (626, 9244), (653, 9349), (659, 9370), (661, 9382), (673, 9424), (682, 9445), (693, 9466), (745, 9595),

Gene: Lennox_14 Start: 9717, Stop: 12278, Start Num: 12

Candidate Starts for Lennox_14:

(6, 9696), (Start: 12 @9717 has 84 MA's), (26, 9765), (45, 9846), (53, 9870), (72, 9942), (82, 9990), (84, 10005), (85, 10011), (123, 10173), (151, 10269), (163, 10302), (197, 10440), (218, 10518), (233,

10563), (237, 10572), (250, 10623), (257, 10641), (260, 10653), (267, 10677), (335, 10893), (391, 10983), (402, 11004), (414, 11031), (423, 11049), (428, 11055), (436, 11079), (439, 11088), (460, 11136), (471, 11163), (481, 11193), (499, 11250), (503, 11265), (507, 11277), (509, 11283), (510, 11286), (513, 11295), (522, 11322), (526, 11334), (529, 11343), (534, 11355), (536, 11361), (546, 11385), (552, 11406), (555, 11415), (559, 11430), (567, 11454), (588, 11505), (592, 11508), (596, 11520), (627, 11625), (636, 11661), (663, 11769), (666, 11781), (672, 11805), (709, 11901), (710, 11904), (720, 11937), (726, 11958), (739, 11997), (744, 12015), (753, 12045), (755, 12054), (763, 12078), (789, 12153), (801, 12219),

Gene: LiSara_64 Start: 36692, Stop: 39709, Start Num: 4

Candidate Starts for LiSara_64:

(Start: 4 @36692 has 6 MA's), (8, 36713), (16, 36743), (17, 36746), (43, 36851), (64, 36935), (66, 36944), (80, 37004), (128, 37214), (131, 37220), (132, 37223), (133, 37226), (154, 37313), (168, 37364), (178, 37406), (179, 37409), (199, 37493), (203, 37511), (252, 37661), (296, 37754), (298, 37763), (326, 37853), (355, 37949), (366, 37979), (369, 37997), (371, 38000), (376, 38012), (381, 38033), (386, 38045), (403, 38096), (434, 38189), (468, 38276), (480, 38312), (484, 38324), (486, 38333), (495, 38363), (500, 38378), (502, 38387), (525, 38456), (538, 38495), (578, 38621), (598, 38696), (620, 38771), (623, 38792), (629, 38825), (630, 38828), (641, 38870), (643, 38882), (648, 38903), (663, 38957), (699, 39059), (719, 39122), (753, 39233), (763, 39266), (782, 39320), (784, 39329), (799, 39398), (805, 39422), (810, 39431), (818, 39530), (819, 39536), (821, 39566), (822, 39605), (824, 39692),

Gene: Librie_18 Start: 9873, Stop: 12314, Start Num: 21

Candidate Starts for Librie_18:

(Start: 21 @9873 has 86 MA's), (Start: 30 @9906 has 5 MA's), (78, 10107), (85, 10149), (96, 10206), (102, 10224), (108, 10248), (122, 10302), (127, 10323), (146, 10386), (158, 10431), (173, 10473), (178, 10491), (191, 10542), (222, 10638), (245, 10698), (258, 10740), (273, 10764), (287, 10794), (288, 10797), (291, 10806), (308, 10854), (310, 10860), (341, 10959), (347, 10974), (353, 10995), (384, 11070), (385, 11073), (404, 11130), (415, 11160), (442, 11232), (453, 11262), (456, 11271), (472, 11304), (474, 11310), (479, 11322), (489, 11355), (494, 11370), (503, 11403), (514, 11436), (529, 11478), (574, 11610), (590, 11658), (591, 11664), (594, 11676), (613, 11745), (616, 11754), (630, 11832), (638, 11862), (678, 12015), (679, 12018), (685, 12030), (709, 12093), (715, 12111), (730, 12156), (747, 12216), (774, 12297), (776, 12300),

Gene: Liebe_15 Start: 9206, Stop: 11569, Start Num: 14

Candidate Starts for Liebe_15:

(Start: 14 @9206 has 63 MA's), (64, 9395), (80, 9461), (94, 9536), (110, 9602), (131, 9677), (132, 9680), (133, 9683), (154, 9770), (157, 9779), (168, 9821), (203, 9968), (209, 9986), (247, 10061), (279, 10094), (309, 10127), (383, 10268), (447, 10391), (453, 10400), (473, 10439), (479, 10457), (484, 10472), (502, 10532), (504, 10538), (506, 10544), (510, 10556), (511, 10559), (529, 10613), (534, 10625), (538, 10637), (544, 10652), (567, 10724), (573, 10742), (581, 10751), (586, 10766), (592, 10778), (597, 10796), (600, 10808), (660, 11030), (709, 11171), (710, 11174), (720, 11207), (724, 11222), (726, 11228), (739, 11267), (755, 11324), (770, 11366), (785, 11414),

Gene: LilStuart_14 Start: 9717, Stop: 12278, Start Num: 12

Candidate Starts for LilStuart_14:

(6, 9696), (Start: 12 @9717 has 84 MA's), (26, 9765), (45, 9846), (53, 9870), (72, 9942), (82, 9990), (84, 10005), (85, 10011), (123, 10173), (151, 10269), (163, 10302), (197, 10440), (218, 10518), (233, 10563), (237, 10572), (250, 10623), (257, 10641), (260, 10653), (267, 10677), (335, 10893), (391, 10983), (402, 11004), (414, 11031), (423, 11049), (428, 11055), (436, 11079), (439, 11088), (460, 11136), (471, 11163), (481, 11193), (499, 11250), (503, 11265), (507, 11277), (509, 11283), (510, 11286), (513, 11295), (522, 11322), (526, 11334), (529, 11343), (534, 11355), (536, 11361), (546, 11385), (552, 11406), (555, 11415), (559, 11430), (567, 11454), (588, 11505), (592, 11508), (596,

11520), (627, 11625), (636, 11661), (663, 11769), (666, 11781), (672, 11805), (709, 11901), (710, 11904), (720, 11937), (726, 11958), (739, 11997), (744, 12015), (753, 12045), (755, 12054), (763, 12078), (789, 12153), (801, 12219),

Gene: LilTerminator_18 Start: 9879, Stop: 12320, Start Num: 21

Candidate Starts for LilTerminator_18:

(Start: 21 @9879 has 86 MA's), (Start: 30 @9912 has 5 MA's), (78, 10113), (85, 10155), (96, 10212), (102, 10230), (108, 10254), (122, 10308), (127, 10329), (146, 10392), (158, 10437), (173, 10479), (178, 10497), (191, 10548), (222, 10644), (245, 10704), (258, 10746), (273, 10770), (287, 10800), (288, 10803), (291, 10812), (308, 10860), (310, 10866), (341, 10965), (347, 10980), (353, 11001), (384, 11076), (385, 11079), (404, 11136), (415, 11166), (442, 11238), (453, 11268), (456, 11277), (472, 11310), (474, 11316), (479, 11328), (489, 11361), (494, 11376), (503, 11409), (514, 11442), (525, 11472), (529, 11484), (574, 11616), (590, 11664), (591, 11670), (594, 11682), (613, 11751), (616, 11760), (630, 11838), (638, 11868), (678, 12021), (679, 12024), (685, 12036), (709, 12099), (715, 12117), (730, 12162), (747, 12222), (774, 12303), (776, 12306),

Gene: Linayshia_19 Start: 13506, Stop: 15500, Start Num: 24

Candidate Starts for Linayshia_19:

(Start: 24 @13506 has 21 MA's), (36, 13545), (64, 13656), (69, 13671), (72, 13683), (94, 13797), (113, 13875), (120, 13899), (154, 14031), (168, 14082), (185, 14148), (208, 14244), (296, 14355), (350, 14481), (412, 14541), (424, 14565), (433, 14583), (458, 14616), (529, 14763), (547, 14781), (593, 14814), (598, 14829), (626, 14895), (674, 15054), (676, 15060), (677, 15066), (709, 15144), (714, 15159), (727, 15201), (747, 15267), (770, 15336), (808, 15474),

Gene: LionelHutz_12 Start: 7546, Stop: 9651, Start Num: 32

Candidate Starts for LionelHutz_12:

(Start: 32 @7546 has 142 MA's), (Start: 38 @7567 has 3 MA's), (80, 7744), (81, 7753), (85, 7777), (101, 7849), (106, 7873), (109, 7879), (149, 8029), (156, 8050), (158, 8062), (160, 8071), (212, 8278), (218, 8296), (270, 8383), (298, 8452), (313, 8464), (328, 8512), (346, 8542), (350, 8557), (363, 8593), (374, 8620), (384, 8641), (392, 8665), (400, 8689), (402, 8695), (410, 8722), (426, 8755), (439, 8794), (449, 8821), (456, 8842), (462, 8857), (476, 8884), (477, 8887), (484, 8908), (487, 8920), (489, 8926), (503, 8974), (529, 9049), (531, 9058), (541, 9085), (550, 9106), (570, 9169), (580, 9193), (626, 9250), (653, 9355), (659, 9376), (661, 9388), (673, 9430), (682, 9451), (693, 9472),

Gene: Litotes_18 Start: 12597, Stop: 15152, Start Num: 12

Candidate Starts for Litotes_18:

(6, 12576), (Start: 12 @12597 has 84 MA's), (26, 12645), (45, 12726), (53, 12750), (72, 12822), (82, 12870), (84, 12885), (85, 12891), (123, 13053), (151, 13149), (153, 13152), (163, 13182), (197, 13320), (233, 13443), (250, 13503), (257, 13521), (261, 13536), (276, 13587), (352, 13818), (403, 13887), (414, 13911), (423, 13929), (428, 13935), (447, 13989), (454, 14001), (464, 14022), (472, 14046), (500, 14133), (507, 14157), (509, 14163), (510, 14166), (514, 14178), (521, 14199), (522, 14202), (524, 14208), (526, 14214), (532, 14232), (534, 14235), (536, 14241), (552, 14286), (555, 14295), (560, 14313), (567, 14334), (570, 14343), (573, 14352), (588, 14385), (592, 14388), (594, 14397), (596, 14400), (610, 14451), (663, 14649), (666, 14661), (671, 14682), (672, 14685), (709, 14781), (710, 14784), (726, 14838), (739, 14877), (755, 14934), (770, 14976), (788, 15024), (795, 15066), (801, 15096),

Gene: Livingwater_12 Start: 7533, Stop: 9638, Start Num: 32

Candidate Starts for Livingwater_12:

(Start: 32 @7533 has 142 MA's), (Start: 38 @7554 has 3 MA's), (80, 7731), (81, 7740), (85, 7764), (101, 7836), (106, 7860), (109, 7866), (137, 7959), (149, 8016), (156, 8037), (158, 8049), (160, 8058), (212, 8265), (218, 8283), (270, 8370), (298, 8439), (313, 8451), (328, 8499), (346, 8529), (350, 8544), (374, 8607), (385, 8631), (392, 8652), (400, 8676), (402, 8682), (410, 8709), (426, 8742), (439, 8781),

(456, 8829), (462, 8844), (476, 8871), (477, 8874), (487, 8907), (489, 8913), (503, 8961), (531, 9045), (541, 9072), (550, 9093), (570, 9156), (580, 9180), (626, 9237), (653, 9342), (659, 9363), (661, 9375), (673, 9417), (682, 9438), (693, 9459), (745, 9588),

Gene: Lizalica_16 Start: 10715, Stop: 13030, Start Num: 14

Candidate Starts for Lizalica_16:

(Start: 14 @10715 has 63 MA's), (53, 10871), (54, 10880), (75, 10961), (78, 10973), (87, 11021), (88, 11024), (95, 11066), (113, 11138), (138, 11219), (139, 11222), (144, 11252), (158, 11306), (167, 11336), (181, 11393), (187, 11417), (201, 11477), (329, 11702), (399, 11798), (428, 11870), (444, 11918), (468, 11972), (482, 12014), (494, 12053), (512, 12113), (561, 12254), (633, 12383), (635, 12392), (641, 12416), (659, 12485), (663, 12503), (701, 12614), (709, 12635), (710, 12638), (720, 12671), (744, 12749), (755, 12788), (778, 12848), (785, 12878), (795, 12929), (807, 12974), (814, 13019),

Gene: Loca_12 Start: 7559, Stop: 9664, Start Num: 32

Candidate Starts for Loca_12:

(Start: 32 @7559 has 142 MA's), (Start: 38 @7580 has 3 MA's), (80, 7757), (81, 7766), (85, 7790), (101, 7862), (106, 7886), (109, 7892), (137, 7985), (149, 8042), (156, 8063), (158, 8075), (160, 8084), (212, 8291), (218, 8309), (270, 8396), (298, 8465), (313, 8477), (328, 8525), (346, 8555), (350, 8570), (374, 8633), (392, 8678), (400, 8702), (402, 8708), (410, 8735), (426, 8768), (439, 8807), (456, 8855), (462, 8870), (476, 8897), (477, 8900), (487, 8933), (489, 8939), (503, 8987), (531, 9071), (541, 9098), (550, 9119), (570, 9182), (580, 9206), (626, 9263), (653, 9368), (659, 9389), (661, 9401), (673, 9443), (682, 9464), (693, 9485), (745, 9614),

Gene: Lola20_12 Start: 7538, Stop: 9646, Start Num: 32

Candidate Starts for Lola20_12:

(Start: 32 @7538 has 142 MA's), (Start: 38 @7559 has 3 MA's), (80, 7736), (81, 7745), (85, 7769), (101, 7841), (106, 7865), (109, 7871), (137, 7964), (149, 8021), (156, 8042), (158, 8054), (160, 8063), (212, 8270), (218, 8288), (270, 8375), (298, 8444), (313, 8456), (328, 8504), (346, 8534), (350, 8549), (363, 8585), (374, 8612), (392, 8657), (400, 8681), (402, 8687), (410, 8714), (426, 8747), (439, 8786), (449, 8813), (456, 8834), (462, 8849), (476, 8876), (477, 8879), (487, 8912), (489, 8918), (503, 8966), (515, 9002), (531, 9050), (541, 9077), (550, 9098), (570, 9161), (580, 9185), (626, 9242), (653, 9347), (659, 9368), (661, 9380), (673, 9422), (693, 9464), (745, 9596),

Gene: London_16 Start: 10704, Stop: 13028, Start Num: 14

Candidate Starts for London_16:

(Start: 14 @10704 has 63 MA's), (52, 10857), (53, 10860), (54, 10869), (75, 10950), (87, 11010), (95, 11055), (113, 11127), (138, 11208), (139, 11211), (144, 11241), (158, 11295), (167, 11325), (181, 11382), (187, 11406), (201, 11466), (202, 11472), (211, 11496), (258, 11592), (329, 11691), (399, 11787), (410, 11820), (428, 11859), (444, 11907), (468, 11961), (482, 12003), (494, 12042), (499, 12060), (512, 12102), (547, 12195), (631, 12366), (635, 12381), (663, 12492), (709, 12624), (710, 12627), (720, 12660), (744, 12738), (755, 12777), (778, 12837), (795, 12927),

Gene: Lovelyunicorn_17 Start: 9362, Stop: 11632, Start Num: 20

Candidate Starts for Lovelyunicorn_17:

(Start: 20 @9362 has 123 MA's), (47, 9479), (54, 9509), (81, 9620), (85, 9644), (96, 9701), (116, 9773), (120, 9788), (122, 9797), (146, 9881), (158, 9926), (169, 9956), (191, 10046), (210, 10106), (232, 10163), (245, 10184), (287, 10280), (288, 10283), (304, 10325), (328, 10406), (336, 10427), (339, 10439), (350, 10472), (384, 10556), (394, 10586), (406, 10625), (419, 10658), (422, 10664), (437, 10703), (440, 10712), (442, 10718), (455, 10754), (460, 10766), (474, 10796), (486, 10832), (503, 10889), (514, 10922), (535, 10982), (559, 11054), (630, 11186), (638, 11216), (639, 11219), (650, 11267), (662, 11309), (675, 11357), (679, 11372), (700, 11414), (710, 11441), (740, 11528), (743, 11537), (760, 11594),

Gene: Lucky3_17 Start: 9668, Stop: 12076, Start Num: 21

Candidate Starts for Lucky3_17:

(Start: 21 @9668 has 86 MA's), (33, 9719), (47, 9782), (62, 9842), (81, 9923), (85, 9947), (96, 10004), (120, 10091), (122, 10100), (146, 10184), (158, 10229), (169, 10259), (176, 10292), (191, 10349), (210, 10409), (232, 10466), (251, 10508), (258, 10529), (273, 10553), (287, 10583), (288, 10586), (292, 10598), (308, 10643), (333, 10721), (336, 10730), (337, 10736), (354, 10787), (373, 10835), (375, 10841), (384, 10859), (385, 10862), (389, 10874), (404, 10919), (410, 10940), (432, 10994), (442, 11021), (479, 11111), (559, 11357), (570, 11387), (584, 11426), (592, 11456), (594, 11465), (603, 11498), (618, 11552), (622, 11576), (638, 11651), (639, 11654), (650, 11702), (675, 11792), (679, 11807), (695, 11840), (740, 11972), (743, 11981), (744, 11987), (760, 12038),

Gene: Lucy_14 Start: 9709, Stop: 12270, Start Num: 12

Candidate Starts for Lucy_14:

(6, 9688), (Start: 12 @9709 has 84 MA's), (26, 9757), (45, 9838), (53, 9862), (72, 9934), (82, 9982), (84, 9997), (85, 10003), (123, 10165), (151, 10261), (153, 10264), (163, 10294), (197, 10432), (218, 10510), (233, 10555), (237, 10564), (250, 10615), (257, 10633), (260, 10645), (267, 10669), (335, 10885), (391, 10975), (402, 10996), (414, 11023), (423, 11041), (428, 11047), (436, 11071), (439, 11080), (460, 11128), (471, 11155), (481, 11185), (499, 11242), (503, 11257), (507, 11269), (509, 11275), (510, 11278), (513, 11287), (522, 11314), (526, 11326), (529, 11335), (534, 11347), (536, 11353), (546, 11377), (552, 11398), (555, 11407), (559, 11422), (567, 11446), (573, 11464), (588, 11497), (592, 11500), (596, 11512), (618, 11587), (627, 11617), (636, 11653), (663, 11761), (666, 11773), (672, 11797), (709, 11893), (710, 11896), (726, 11950), (739, 11989), (744, 12007), (753, 12037), (755, 12046), (763, 12070), (789, 12145), (793, 12163), (801, 12211),

Gene: Ludgate_17 Start: 9358, Stop: 11628, Start Num: 20

Candidate Starts for Ludgate_17:

(Start: 20 @9358 has 123 MA's), (47, 9475), (54, 9505), (71, 9565), (81, 9616), (85, 9640), (96, 9697), (120, 9784), (122, 9793), (146, 9877), (158, 9922), (168, 9949), (169, 9952), (191, 10042), (210, 10102), (232, 10159), (245, 10180), (287, 10276), (288, 10279), (292, 10291), (304, 10321), (328, 10402), (336, 10423), (339, 10435), (350, 10468), (374, 10531), (380, 10546), (384, 10552), (394, 10582), (406, 10621), (419, 10654), (422, 10660), (428, 10672), (432, 10687), (437, 10699), (440, 10708), (442, 10714), (460, 10762), (486, 10828), (503, 10885), (559, 11050), (580, 11104), (630, 11182), (638, 11212), (639, 11215), (650, 11263), (675, 11353), (679, 11368), (703, 11422), (710, 11437), (740, 11524), (743, 11533), (760, 11590),

Gene: Luna18_18 Start: 9878, Stop: 12307, Start Num: 21

Candidate Starts for Luna18_18:

(Start: 21 @9878 has 86 MA's), (27, 9893), (Start: 30 @9911 has 5 MA's), (81, 10133), (85, 10157), (96, 10214), (116, 10286), (122, 10310), (146, 10394), (158, 10439), (169, 10469), (191, 10559), (210, 10619), (255, 10730), (287, 10793), (288, 10796), (292, 10808), (308, 10853), (310, 10859), (327, 10916), (336, 10940), (341, 10958), (353, 10994), (354, 10997), (357, 11006), (384, 11069), (385, 11072), (388, 11081), (404, 11129), (410, 11150), (442, 11231), (451, 11255), (453, 11261), (456, 11270), (474, 11309), (479, 11321), (487, 11348), (492, 11363), (494, 11369), (503, 11402), (508, 11417), (525, 11465), (529, 11477), (559, 11567), (574, 11609), (575, 11612), (584, 11636), (590, 11657), (594, 11675), (616, 11753), (630, 11831), (636, 11852), (638, 11861), (662, 11954), (678, 12014), (679, 12017), (704, 12083), (709, 12092), (721, 12128), (729, 12152), (756, 12239), (765, 12266), (772, 12290),

Gene: Lunatic_12 Start: 7531, Stop: 9636, Start Num: 32

Candidate Starts for Lunatic_12:

(Start: 32 @7531 has 142 MA's), (Start: 38 @7552 has 3 MA's), (80, 7729), (81, 7738), (85, 7762), (101, 7834), (106, 7858), (137, 7957), (149, 8014), (156, 8035), (158, 8047), (160, 8056), (212, 8263),

(218, 8281), (270, 8368), (298, 8437), (313, 8449), (328, 8497), (346, 8527), (350, 8542), (384, 8626), (385, 8629), (392, 8650), (402, 8680), (410, 8707), (426, 8740), (439, 8779), (449, 8806), (451, 8812), (456, 8827), (462, 8842), (477, 8872), (484, 8893), (487, 8905), (489, 8911), (503, 8959), (515, 8995), (531, 9043), (541, 9070), (550, 9091), (570, 9154), (580, 9178), (626, 9235), (653, 9340), (659, 9361), (673, 9415), (682, 9436), (693, 9457),

Gene: Luxx_12 Start: 7564, Stop: 9669, Start Num: 32

Candidate Starts for Luxx_12:

(Start: 32 @7564 has 142 MA's), (Start: 38 @7585 has 3 MA's), (80, 7762), (81, 7771), (85, 7795), (101, 7867), (106, 7891), (109, 7897), (149, 8047), (156, 8068), (158, 8080), (160, 8089), (212, 8296), (218, 8314), (270, 8401), (298, 8470), (313, 8482), (328, 8530), (346, 8560), (350, 8575), (363, 8611), (374, 8638), (384, 8659), (392, 8683), (400, 8707), (402, 8713), (410, 8740), (426, 8773), (439, 8812), (449, 8839), (456, 8860), (462, 8875), (476, 8902), (477, 8905), (484, 8926), (487, 8938), (489, 8944), (503, 8992), (529, 9067), (531, 9076), (541, 9103), (550, 9124), (570, 9187), (580, 9211), (626, 9268), (653, 9373), (659, 9394), (661, 9406), (673, 9448), (682, 9469), (693, 9490),

Gene: MCubed_16 Start: 9459, Stop: 11867, Start Num: 21

Candidate Starts for MCubed_16:

(Start: 21 @9459 has 86 MA's), (27, 9474), (47, 9573), (71, 9663), (85, 9738), (96, 9795), (99, 9804), (116, 9867), (120, 9882), (122, 9891), (146, 9975), (158, 10020), (169, 10050), (179, 10092), (191, 10140), (210, 10200), (232, 10257), (273, 10344), (287, 10374), (288, 10377), (292, 10389), (336, 10521), (337, 10527), (354, 10578), (374, 10629), (375, 10632), (384, 10650), (394, 10680), (398, 10692), (410, 10731), (432, 10785), (440, 10806), (442, 10812), (472, 10884), (474, 10890), (486, 10926), (487, 10929), (503, 10983), (525, 11046), (529, 11058), (535, 11076), (559, 11148), (570, 11178), (580, 11202), (590, 11238), (600, 11277), (608, 11313), (611, 11322), (618, 11343), (638, 11442), (639, 11445), (650, 11493), (675, 11583), (679, 11598), (700, 11643), (709, 11670), (715, 11688), (722, 11709), (727, 11727), (732, 11736), (738, 11757), (740, 11763), (743, 11772), (760, 11829), (768, 11856), (769, 11859),

Gene: MaGuCo_15 Start: 9140, Stop: 11503, Start Num: 14

Candidate Starts for MaGuCo_15:

(Start: 14 @9140 has 63 MA's), (64, 9329), (80, 9395), (94, 9470), (131, 9611), (132, 9614), (133, 9617), (154, 9704), (157, 9713), (168, 9755), (179, 9800), (203, 9902), (209, 9920), (279, 10028), (309, 10061), (383, 10202), (439, 10304), (447, 10325), (453, 10334), (473, 10373), (479, 10391), (483, 10403), (484, 10406), (502, 10466), (504, 10472), (506, 10478), (510, 10490), (511, 10493), (518, 10514), (529, 10547), (534, 10559), (538, 10571), (544, 10586), (567, 10658), (572, 10670), (573, 10676), (581, 10685), (586, 10700), (592, 10712), (597, 10730), (600, 10742), (660, 10964), (709, 11105), (710, 11108), (720, 11141), (726, 11162), (739, 11201), (755, 11258), (770, 11300), (785, 11348),

Gene: Mabodamaca_15 Start: 10264, Stop: 13101, Start Num: 13

Candidate Starts for Mabodamaca_15:

(Start: 13 @10264 has 7 MA's), (97, 10627), (107, 10660), (126, 10732), (129, 10741), (144, 10795), (163, 10879), (171, 10909), (184, 10957), (188, 10978), (190, 10984), (242, 11158), (258, 11224), (290, 11347), (297, 11368), (356, 11572), (358, 11578), (364, 11593), (368, 11614), (429, 11788), (447, 11839), (483, 11938), (493, 11971), (527, 12079), (538, 12112), (564, 12193), (567, 12202), (664, 12556), (699, 12655), (709, 12685), (714, 12700),

Gene: Madebyisha_12 Start: 7627, Stop: 9732, Start Num: 32

Candidate Starts for Madebyisha_12:

(Start: 32 @7627 has 142 MA's), (Start: 38 @7648 has 3 MA's), (80, 7825), (81, 7834), (85, 7858), (101, 7930), (106, 7954), (109, 7960), (149, 8110), (156, 8131), (158, 8143), (160, 8152), (212, 8359), (218, 8377), (270, 8464), (298, 8533), (313, 8545), (328, 8593), (346, 8623), (350, 8638), (374, 8701),

(384, 8722), (392, 8746), (400, 8770), (402, 8776), (410, 8803), (426, 8836), (439, 8875), (449, 8902), (456, 8923), (462, 8938), (476, 8965), (477, 8968), (484, 8989), (487, 9001), (489, 9007), (503, 9055), (515, 9091), (529, 9130), (531, 9139), (541, 9166), (550, 9187), (570, 9250), (580, 9274), (626, 9331), (653, 9436), (659, 9457), (661, 9469), (673, 9511), (682, 9532), (693, 9553), (745, 9682),

Gene: MaeLinda_17 Start: 9364, Stop: 11634, Start Num: 20

Candidate Starts for MaeLinda_17:

(Start: 20 @9364 has 123 MA's), (47, 9481), (54, 9511), (71, 9571), (81, 9622), (85, 9646), (96, 9703), (120, 9790), (122, 9799), (146, 9883), (158, 9928), (168, 9955), (169, 9958), (191, 10048), (210, 10108), (232, 10165), (245, 10186), (287, 10282), (288, 10285), (304, 10327), (328, 10408), (336, 10429), (339, 10441), (350, 10474), (380, 10552), (384, 10558), (394, 10588), (406, 10627), (419, 10660), (422, 10666), (432, 10693), (437, 10705), (440, 10714), (442, 10720), (460, 10768), (472, 10792), (474, 10798), (486, 10834), (503, 10891), (559, 11056), (580, 11110), (630, 11188), (638, 11218), (639, 11221), (650, 11269), (675, 11359), (679, 11374), (700, 11416), (703, 11428), (710, 11443), (740, 11530), (743, 11539), (760, 11596),

Gene: Majesty_12 Start: 7546, Stop: 9651, Start Num: 32

Candidate Starts for Majesty_12:

(Start: 32 @7546 has 142 MA's), (Start: 38 @7567 has 3 MA's), (80, 7744), (81, 7753), (85, 7777), (101, 7849), (106, 7873), (109, 7879), (149, 8029), (156, 8050), (158, 8062), (160, 8071), (212, 8278), (218, 8296), (270, 8383), (298, 8452), (313, 8464), (328, 8512), (346, 8542), (350, 8557), (363, 8593), (374, 8620), (384, 8641), (392, 8665), (400, 8689), (402, 8695), (410, 8722), (426, 8755), (439, 8794), (449, 8821), (456, 8842), (462, 8857), (476, 8884), (477, 8887), (484, 8908), (487, 8920), (489, 8926), (503, 8974), (529, 9049), (531, 9058), (541, 9085), (550, 9106), (570, 9169), (580, 9193), (626, 9250), (653, 9355), (659, 9376), (661, 9388), (673, 9430), (682, 9451), (693, 9472),

Gene: Makima_18 Start: 10929, Stop: 13217, Start Num: 11

Candidate Starts for Makima_18:

(Start: 11 @10929 has 8 MA's), (102, 11289), (103, 11292), (131, 11403), (132, 11406), (133, 11409), (168, 11547), (203, 11694), (319, 11865), (335, 11913), (484, 12165), (489, 12183), (502, 12225), (507, 12240), (532, 12315), (534, 12318), (544, 12345), (551, 12363), (553, 12372), (560, 12396), (565, 12411), (567, 12417), (572, 12429), (573, 12435), (592, 12471), (638, 12633), (660, 12723), (666, 12744), (667, 12747), (675, 12777), (709, 12864), (710, 12867), (720, 12900), (755, 13017), (763, 13041), (773, 13068), (797, 13158),

Gene: Makoto_14 Start: 9718, Stop: 12279, Start Num: 12

Candidate Starts for Makoto_14:

(6, 9697), (Start: 12 @9718 has 84 MA's), (26, 9766), (45, 9847), (53, 9871), (72, 9943), (82, 9991), (84, 10006), (85, 10012), (123, 10174), (151, 10270), (163, 10303), (197, 10441), (218, 10519), (233, 10564), (237, 10573), (250, 10624), (257, 10642), (260, 10654), (267, 10678), (335, 10894), (402, 11005), (414, 11032), (423, 11050), (428, 11056), (436, 11080), (439, 11089), (460, 11137), (471, 11164), (481, 11194), (499, 11251), (503, 11266), (507, 11278), (509, 11284), (510, 11287), (513, 11296), (522, 11323), (526, 11335), (529, 11344), (534, 11356), (536, 11362), (546, 11386), (552, 11407), (555, 11416), (559, 11431), (567, 11455), (588, 11506), (592, 11509), (596, 11521), (618, 11596), (627, 11626), (636, 11662), (663, 11770), (666, 11782), (672, 11806), (709, 11902), (710, 11905), (720, 11938), (726, 11959), (744, 12016), (753, 12046), (755, 12055), (763, 12079), (789, 12154), (801, 12220),

Gene: MamaPearl_14 Start: 9752, Stop: 12301, Start Num: 12

Candidate Starts for MamaPearl_14:

(5, 9722), (Start: 12 @9752 has 84 MA's), (45, 9881), (55, 9917), (82, 10025), (84, 10040), (118, 10187), (123, 10208), (151, 10304), (176, 10394), (200, 10487), (233, 10598), (250, 10658), (253, 10667), (342, 10940), (373, 10994), (402, 11027), (411, 11048), (414, 11054), (423, 11072), (460,

11159), (483, 11222), (500, 11276), (502, 11285), (509, 11306), (513, 11318), (514, 11321), (522, 11345), (524, 11351), (526, 11357), (529, 11366), (534, 11378), (536, 11384), (544, 11405), (555, 11438), (559, 11453), (560, 11456), (567, 11477), (569, 11483), (573, 11495), (588, 11528), (592, 11531), (594, 11540), (596, 11543), (599, 11558), (626, 11642), (635, 11681), (663, 11792), (666, 11804), (678, 11849), (709, 11924), (710, 11927), (726, 11981), (753, 12068), (755, 12077), (763, 12101), (767, 12113), (788, 12170), (789, 12176), (801, 12242), (812, 12284),

Gene: ManAs_12 Start: 7540, Stop: 9645, Start Num: 32

Candidate Starts for ManAs_12:

(Start: 32 @7540 has 142 MA's), (Start: 38 @7561 has 3 MA's), (80, 7738), (81, 7747), (85, 7771), (101, 7843), (106, 7867), (109, 7873), (149, 8023), (156, 8044), (158, 8056), (160, 8065), (212, 8272), (218, 8290), (270, 8377), (298, 8446), (313, 8458), (328, 8506), (346, 8536), (350, 8551), (363, 8587), (374, 8614), (384, 8635), (392, 8659), (400, 8683), (402, 8689), (410, 8716), (426, 8749), (439, 8788), (449, 8815), (456, 8836), (462, 8851), (476, 8878), (477, 8881), (484, 8902), (487, 8914), (489, 8920), (503, 8968), (515, 9004), (531, 9052), (541, 9079), (550, 9100), (570, 9163), (580, 9187), (626, 9244), (653, 9349), (659, 9370), (661, 9382), (673, 9424), (682, 9445), (693, 9466), (745, 9595),

Gene: ManRay_17 Start: 9667, Stop: 11937, Start Num: 20

Candidate Starts for ManRay_17:

(Start: 20 @9667 has 123 MA's), (47, 9784), (54, 9814), (71, 9874), (81, 9925), (85, 9949), (96, 10006), (120, 10093), (122, 10102), (146, 10186), (158, 10231), (168, 10258), (169, 10261), (191, 10351), (210, 10411), (232, 10468), (245, 10489), (287, 10585), (288, 10588), (304, 10630), (328, 10711), (336, 10732), (339, 10744), (350, 10777), (380, 10855), (384, 10861), (394, 10891), (406, 10930), (419, 10963), (422, 10969), (428, 10981), (432, 10996), (437, 11008), (440, 11017), (442, 11023), (460, 11071), (472, 11095), (474, 11101), (486, 11137), (503, 11194), (559, 11359), (580, 11413), (630, 11491), (638, 11521), (639, 11524), (650, 11572), (675, 11662), (679, 11677), (700, 11719), (703, 11731), (710, 11746), (740, 11833), (743, 11842), (760, 11899),

Gene: Mandalorian_16 Start: 9629, Stop: 12040, Start Num: 21

Candidate Starts for Mandalorian_16:

(5, 9566), (Start: 21 @9629 has 86 MA's), (27, 9644), (Start: 30 @9662 has 5 MA's), (47, 9743), (70, 9827), (72, 9836), (85, 9908), (96, 9965), (116, 10037), (120, 10052), (122, 10061), (136, 10103), (146, 10145), (158, 10190), (169, 10220), (179, 10262), (191, 10310), (210, 10370), (219, 10400), (232, 10427), (273, 10514), (287, 10544), (288, 10547), (295, 10568), (314, 10625), (328, 10670), (336, 10691), (384, 10820), (403, 10877), (404, 10880), (422, 10928), (427, 10937), (432, 10955), (440, 10976), (442, 10982), (474, 11060), (486, 11096), (487, 11099), (490, 11108), (494, 11120), (502, 11150), (503, 11153), (513, 11183), (514, 11186), (570, 11348), (584, 11387), (601, 11450), (622, 11537), (638, 11612), (639, 11615), (650, 11663), (662, 11705), (664, 11711), (679, 11768), (713, 11852), (715, 11858), (740, 11936), (743, 11945), (760, 12002), (768, 12029), (769, 12032),

Gene: Maneater_12 Start: 7528, Stop: 9633, Start Num: 32

Candidate Starts for Maneater_12:

(Start: 32 @7528 has 142 MA's), (Start: 38 @7549 has 3 MA's), (80, 7726), (81, 7735), (85, 7759), (101, 7831), (106, 7855), (109, 7861), (149, 8011), (156, 8032), (158, 8044), (160, 8053), (212, 8260), (218, 8278), (270, 8365), (298, 8434), (313, 8446), (328, 8494), (346, 8524), (350, 8539), (363, 8575), (374, 8602), (384, 8623), (392, 8647), (400, 8671), (402, 8677), (410, 8704), (426, 8737), (439, 8776), (449, 8803), (456, 8824), (462, 8839), (476, 8866), (477, 8869), (484, 8890), (487, 8902), (489, 8908), (503, 8956), (529, 9031), (531, 9040), (541, 9067), (550, 9088), (570, 9151), (580, 9175), (626, 9232), (653, 9337), (659, 9358), (661, 9370), (673, 9412), (682, 9433), (693, 9454),

Gene: Maria1952_14 Start: 9744, Stop: 12302, Start Num: 12

Candidate Starts for Maria1952_14:

(Start: 12 @9744 has 84 MA's), (15, 9753), (22, 9783), (45, 9873), (55, 9909), (82, 10017), (84, 10032), (123, 10200), (151, 10296), (226, 10569), (233, 10590), (244, 10620), (250, 10650), (276, 10737), (314, 10860), (339, 10935), (373, 10998), (402, 11031), (411, 11052), (414, 11058), (423, 11076), (428, 11082), (436, 11106), (454, 11148), (460, 11163), (464, 11169), (473, 11196), (489, 11247), (500, 11280), (502, 11289), (509, 11310), (513, 11322), (522, 11349), (526, 11361), (529, 11370), (534, 11382), (536, 11388), (537, 11391), (546, 11412), (555, 11442), (560, 11460), (567, 11481), (570, 11490), (573, 11499), (588, 11532), (592, 11535), (596, 11547), (599, 11562), (626, 11646), (627, 11652), (636, 11688), (649, 11745), (651, 11754), (663, 11796), (678, 11853), (709, 11928), (710, 11931), (719, 11961), (726, 11985), (744, 12042), (753, 12072), (755, 12081), (763, 12105), (767, 12117), (801, 12243),

Gene: Marichuy_12 Start: 7639, Stop: 9744, Start Num: 32

Candidate Starts for Marichuy_12:

(Start: 32 @7639 has 142 MA's), (Start: 38 @7660 has 3 MA's), (80, 7837), (81, 7846), (85, 7870), (101, 7942), (106, 7966), (109, 7972), (149, 8122), (156, 8143), (158, 8155), (160, 8164), (212, 8371), (218, 8389), (270, 8476), (298, 8545), (313, 8557), (328, 8605), (346, 8635), (350, 8650), (363, 8686), (374, 8713), (384, 8734), (392, 8758), (400, 8782), (402, 8788), (410, 8815), (426, 8848), (439, 8887), (449, 8914), (456, 8935), (462, 8950), (476, 8977), (477, 8980), (484, 9001), (487, 9013), (489, 9019), (503, 9067), (529, 9142), (531, 9151), (541, 9178), (550, 9199), (570, 9262), (580, 9286), (626, 9343), (653, 9448), (659, 9469), (661, 9481), (673, 9523), (682, 9544), (693, 9565), (745, 9694),

Gene: Martin_18 Start: 9364, Stop: 11634, Start Num: 20

Candidate Starts for Martin_18:

(Start: 20 @9364 has 123 MA's), (47, 9481), (54, 9511), (71, 9571), (81, 9622), (85, 9646), (96, 9703), (120, 9790), (122, 9799), (146, 9883), (158, 9928), (168, 9955), (169, 9958), (191, 10048), (210, 10108), (232, 10165), (245, 10186), (287, 10282), (288, 10285), (304, 10327), (328, 10408), (336, 10429), (339, 10441), (350, 10474), (380, 10552), (384, 10558), (394, 10588), (406, 10627), (419, 10660), (422, 10666), (428, 10678), (432, 10693), (437, 10705), (440, 10714), (442, 10720), (460, 10768), (486, 10834), (503, 10891), (559, 11056), (580, 11110), (630, 11188), (638, 11218), (639, 11221), (650, 11269), (675, 11359), (679, 11374), (703, 11428), (710, 11443), (740, 11530), (743, 11539), (760, 11596),

Gene: MasterPitts_12 Start: 7546, Stop: 9651, Start Num: 32

Candidate Starts for MasterPitts_12:

(Start: 32 @7546 has 142 MA's), (Start: 38 @7567 has 3 MA's), (80, 7744), (81, 7753), (85, 7777), (101, 7849), (106, 7873), (109, 7879), (149, 8029), (156, 8050), (158, 8062), (160, 8071), (212, 8278), (218, 8296), (270, 8383), (298, 8452), (313, 8464), (328, 8512), (346, 8542), (350, 8557), (363, 8593), (374, 8620), (384, 8641), (392, 8665), (400, 8689), (402, 8695), (410, 8722), (426, 8755), (439, 8794), (449, 8821), (456, 8842), (462, 8857), (476, 8884), (477, 8887), (484, 8908), (487, 8920), (489, 8926), (503, 8974), (531, 9058), (541, 9085), (550, 9106), (570, 9169), (626, 9250), (653, 9355), (659, 9376), (661, 9388), (673, 9430), (682, 9451), (693, 9472), (745, 9601),

Gene: Mauilvory_11 Start: 7646, Stop: 9751, Start Num: 32

Candidate Starts for Mauilvory_11:

(Start: 32 @7646 has 142 MA's), (Start: 38 @7667 has 3 MA's), (80, 7844), (81, 7853), (85, 7877), (101, 7949), (106, 7973), (137, 8072), (156, 8150), (158, 8162), (160, 8171), (212, 8378), (218, 8396), (270, 8483), (298, 8552), (313, 8564), (328, 8612), (346, 8642), (350, 8657), (384, 8741), (385, 8744), (392, 8765), (402, 8795), (410, 8822), (426, 8855), (439, 8894), (449, 8921), (451, 8927), (456, 8942), (462, 8957), (477, 8987), (484, 9008), (487, 9020), (489, 9026), (503, 9074), (515, 9110), (531, 9158), (541, 9185), (550, 9206), (570, 9269), (580, 9293), (626, 9350), (653, 9455), (659, 9476), (673, 9530), (682, 9551), (693, 9572),

Gene: Maureen_15 Start: 9206, Stop: 11569, Start Num: 14

Candidate Starts for Maureen_15:

(Start: 14 @9206 has 63 MA's), (64, 9395), (80, 9461), (94, 9536), (110, 9602), (131, 9677), (132, 9680), (133, 9683), (154, 9770), (157, 9779), (168, 9821), (203, 9968), (209, 9986), (247, 10061), (279, 10094), (309, 10127), (383, 10268), (447, 10391), (453, 10400), (473, 10439), (479, 10457), (484, 10472), (502, 10532), (504, 10538), (506, 10544), (510, 10556), (511, 10559), (529, 10613), (534, 10625), (538, 10637), (544, 10652), (567, 10724), (573, 10742), (581, 10751), (586, 10766), (592, 10778), (597, 10796), (600, 10808), (660, 11030), (709, 11171), (710, 11174), (720, 11207), (724, 11222), (726, 11228), (739, 11267), (755, 11324), (770, 11366), (785, 11414),

Gene: McGalleon_18 Start: 10235, Stop: 12499, Start Num: 21

Candidate Starts for McGalleon_18:

(Start: 21 @10235 has 86 MA's), (71, 10439), (72, 10442), (81, 10490), (85, 10514), (96, 10571), (99, 10580), (118, 10652), (120, 10658), (122, 10667), (146, 10751), (158, 10796), (169, 10826), (191, 10916), (210, 10976), (219, 11006), (232, 11033), (245, 11054), (287, 11150), (288, 11153), (292, 11165), (308, 11210), (310, 11216), (328, 11276), (338, 11306), (379, 11417), (384, 11426), (394, 11456), (429, 11549), (437, 11573), (456, 11627), (483, 11690), (486, 11702), (503, 11759), (525, 11822), (559, 11924), (580, 11978), (630, 12056), (638, 12086), (639, 12089), (650, 12137), (675, 12227), (678, 12239), (679, 12242), (718, 12332), (740, 12395), (743, 12404), (760, 12461),

Gene: McShie_12 Start: 7529, Stop: 9634, Start Num: 32

Candidate Starts for McShie_12:

(Start: 32 @7529 has 142 MA's), (Start: 38 @7550 has 3 MA's), (80, 7727), (81, 7736), (85, 7760), (101, 7832), (106, 7856), (109, 7862), (137, 7955), (149, 8012), (156, 8033), (158, 8045), (160, 8054), (212, 8261), (218, 8279), (270, 8366), (298, 8435), (313, 8447), (328, 8495), (346, 8525), (350, 8540), (374, 8603), (384, 8624), (385, 8627), (402, 8678), (410, 8705), (426, 8738), (439, 8777), (449, 8804), (456, 8825), (462, 8840), (476, 8867), (484, 8891), (487, 8903), (489, 8909), (503, 8957), (531, 9041), (541, 9068), (550, 9089), (570, 9152), (580, 9176), (626, 9233), (653, 9338), (659, 9359), (661, 9371), (673, 9413), (682, 9434), (693, 9455), (745, 9584),

Gene: Megan_30 Start: 21999, Stop: 24323, Start Num: 31

Candidate Starts for Megan_30:

(25, 21969), (Start: 31 @21999 has 1 MA's), (74, 22179), (76, 22188), (82, 22215), (93, 22275), (120, 22383), (144, 22461), (170, 22554), (171, 22560), (179, 22590), (223, 22737), (284, 22860), (289, 22872), (311, 22938), (316, 22959), (350, 23064), (352, 23070), (370, 23118), (402, 23202), (419, 23250), (482, 23409), (489, 23433), (499, 23466), (510, 23502), (515, 23517), (518, 23523), (531, 23565), (544, 23598), (550, 23613), (553, 23625), (560, 23649), (566, 23664), (576, 23697), (592, 23745), (596, 23757), (607, 23808), (608, 23811), (621, 23856), (627, 23895), (635, 23928), (666, 24045), (672, 24069), (675, 24078), (748, 24279), (757, 24309), (759, 24312),

Gene: MeganNoll_18 Start: 12624, Stop: 15185, Start Num: 12

Candidate Starts for MeganNoll_18:

(6, 12603), (Start: 12 @12624 has 84 MA's), (26, 12672), (34, 12705), (45, 12753), (53, 12777), (55, 12789), (72, 12849), (82, 12897), (84, 12912), (85, 12918), (113, 13038), (123, 13080), (151, 13176), (153, 13179), (163, 13209), (175, 13263), (176, 13266), (212, 13404), (218, 13425), (226, 13449), (233, 13470), (237, 13479), (250, 13530), (257, 13548), (313, 13734), (373, 13878), (402, 13911), (414, 13938), (423, 13956), (428, 13962), (436, 13986), (439, 13995), (460, 14043), (471, 14070), (472, 14073), (479, 14094), (481, 14100), (483, 14106), (499, 14157), (503, 14172), (507, 14184), (509, 14190), (510, 14193), (513, 14202), (522, 14229), (526, 14241), (529, 14250), (534, 14262), (536, 14268), (544, 14289), (555, 14322), (567, 14361), (588, 14412), (592, 14415), (594, 14424), (596, 14427), (599, 14442), (627, 14532), (636, 14568), (663, 14676), (672, 14712), (709, 14808), (710, 14811), (726, 14865), (739, 14904), (753, 14952), (755, 14961), (763, 14985), (770, 15003), (788, 15054), (793, 15078), (795, 15096), (801, 15126),

Gene: MelBee03_12 Start: 7533, Stop: 9638, Start Num: 32

Candidate Starts for MelBee03_12:

(Start: 32 @7533 has 142 MA's), (Start: 38 @7554 has 3 MA's), (80, 7731), (81, 7740), (85, 7764), (101, 7836), (106, 7860), (109, 7866), (137, 7959), (149, 8016), (156, 8037), (158, 8049), (160, 8058), (212, 8265), (218, 8283), (270, 8370), (298, 8439), (313, 8451), (328, 8499), (346, 8529), (350, 8544), (363, 8580), (374, 8607), (385, 8631), (392, 8652), (400, 8676), (402, 8682), (410, 8709), (426, 8742), (439, 8781), (449, 8808), (456, 8829), (462, 8844), (476, 8871), (477, 8874), (487, 8907), (489, 8913), (503, 8961), (515, 8997), (531, 9045), (541, 9072), (550, 9093), (570, 9156), (580, 9180), (626, 9237), (653, 9342), (659, 9363), (661, 9375), (673, 9417), (682, 9438), (693, 9459), (745, 9588),

Gene: Mercedes_17 Start: 9621, Stop: 12062, Start Num: 21

Candidate Starts for Mercedes_17:

(Start: 21 @9621 has 86 MA's), (Start: 30 @9654 has 5 MA's), (69, 9813), (78, 9855), (85, 9897), (96, 9954), (102, 9972), (108, 9996), (122, 10050), (127, 10071), (146, 10134), (158, 10179), (173, 10221), (178, 10239), (191, 10290), (219, 10380), (222, 10386), (238, 10425), (273, 10512), (287, 10542), (288, 10545), (295, 10566), (308, 10602), (310, 10608), (311, 10611), (347, 10722), (354, 10746), (384, 10818), (403, 10875), (410, 10899), (442, 10980), (453, 11010), (456, 11019), (467, 11037), (472, 11052), (474, 11058), (479, 11070), (492, 11112), (494, 11118), (503, 11151), (525, 11214), (529, 11226), (559, 11316), (574, 11358), (575, 11361), (587, 11394), (592, 11415), (594, 11424), (630, 11580), (638, 11610), (639, 11613), (660, 11697), (678, 11763), (679, 11766), (704, 11832), (709, 11841), (715, 11859), (730, 11904), (734, 11916), (747, 11964), (765, 12018), (774, 12045),

Gene: Merida02_17 Start: 9361, Stop: 11631, Start Num: 20

Candidate Starts for Merida02_17:

(Start: 20 @9361 has 123 MA's), (47, 9478), (54, 9508), (71, 9568), (81, 9619), (85, 9643), (96, 9700), (120, 9787), (122, 9796), (146, 9880), (158, 9925), (168, 9952), (169, 9955), (191, 10045), (210, 10105), (232, 10162), (245, 10183), (287, 10279), (288, 10282), (304, 10324), (328, 10405), (336, 10426), (339, 10438), (350, 10471), (380, 10549), (384, 10555), (394, 10585), (406, 10624), (419, 10657), (422, 10663), (428, 10675), (432, 10690), (437, 10702), (440, 10711), (442, 10717), (460, 10765), (486, 10831), (503, 10888), (559, 11053), (580, 11107), (630, 11185), (638, 11215), (639, 11218), (650, 11266), (675, 11356), (679, 11371), (703, 11425), (710, 11440), (740, 11527), (743, 11536), (760, 11593),

Gene: Miaurora_12 Start: 7648, Stop: 9753, Start Num: 32

Candidate Starts for Miaurora_12:

(Start: 32 @7648 has 142 MA's), (Start: 38 @7669 has 3 MA's), (80, 7846), (81, 7855), (85, 7879), (101, 7951), (106, 7975), (137, 8074), (149, 8131), (156, 8152), (158, 8164), (160, 8173), (212, 8380), (218, 8398), (270, 8485), (298, 8554), (313, 8566), (328, 8614), (346, 8644), (350, 8659), (370, 8713), (384, 8743), (385, 8746), (392, 8767), (402, 8797), (410, 8824), (426, 8857), (439, 8896), (449, 8923), (451, 8929), (456, 8944), (462, 8959), (476, 8986), (477, 8989), (484, 9010), (487, 9022), (489, 9028), (503, 9076), (515, 9112), (531, 9160), (541, 9187), (550, 9208), (570, 9271), (580, 9295), (626, 9352), (653, 9457), (659, 9478), (673, 9532), (682, 9553), (693, 9574),

Gene: Michkear_19 Start: 12632, Stop: 14917, Start Num: 14

Candidate Starts for Michkear_19:

(Start: 14 @12632 has 63 MA's), (64, 12821), (80, 12887), (102, 12989), (107, 13016), (131, 13103), (133, 13109), (154, 13196), (157, 13205), (168, 13247), (179, 13292), (203, 13394), (209, 13412), (259, 13490), (460, 13784), (484, 13838), (489, 13856), (504, 13904), (511, 13925), (518, 13946), (557, 14057), (572, 14102), (582, 14120), (585, 14129), (592, 14144), (666, 14417), (678, 14462), (699, 14507), (710, 14540), (742, 14636), (749, 14666), (781, 14756),

Gene: Milani_20 Start: 12168, Stop: 14459, Start Num: 24

Candidate Starts for Milani_20:

(Start: 24 @12168 has 21 MA's), (55, 12285), (64, 12318), (72, 12345), (113, 12537), (154, 12693), (168, 12744), (180, 12795), (186, 12816), (199, 12873), (214, 12930), (296, 13017), (314, 13044), (320, 13065), (329, 13095), (330, 13098), (417, 13212), (479, 13356), (513, 13464), (532, 13518), (570, 13629), (597, 13707), (602, 13728), (604, 13740), (610, 13761), (625, 13806), (641, 13872), (658, 13938), (667, 13974), (668, 13980), (676, 14007), (691, 14046), (709, 14091), (710, 14094), (713, 14103), (717, 14115), (719, 14124), (720, 14127), (755, 14241), (773, 14292), (777, 14298),

Gene: MillyPhilly_17 Start: 9361, Stop: 11631, Start Num: 20

Candidate Starts for MillyPhilly_17:

(Start: 20 @9361 has 123 MA's), (47, 9478), (54, 9508), (71, 9568), (81, 9619), (85, 9643), (96, 9700), (120, 9787), (122, 9796), (146, 9880), (158, 9925), (168, 9952), (169, 9955), (191, 10045), (210, 10105), (232, 10162), (245, 10183), (287, 10279), (288, 10282), (304, 10324), (328, 10405), (336, 10426), (339, 10438), (350, 10471), (380, 10549), (384, 10555), (394, 10585), (406, 10624), (419, 10657), (422, 10663), (428, 10675), (432, 10690), (437, 10702), (440, 10711), (442, 10717), (460, 10765), (486, 10831), (503, 10888), (559, 11053), (580, 11107), (630, 11185), (638, 11215), (639, 11218), (650, 11266), (675, 11356), (679, 11371), (703, 11425), (710, 11440), (740, 11527), (743, 11536), (760, 11593),

Gene: MiniMommy_15 Start: 8972, Stop: 11215, Start Num: 14

Candidate Starts for MiniMommy_15:

(Start: 14 @8972 has 63 MA's), (Start: 38 @9059 has 3 MA's), (64, 9161), (80, 9227), (103, 9332), (131, 9443), (133, 9449), (157, 9545), (168, 9587), (203, 9734), (209, 9752), (319, 9869), (327, 9896), (349, 9929), (403, 9965), (428, 10013), (441, 10052), (459, 10091), (473, 10115), (481, 10139), (484, 10148), (486, 10157), (489, 10166), (502, 10208), (514, 10244), (518, 10256), (534, 10301), (536, 10307), (546, 10331), (557, 10367), (562, 10385), (570, 10409), (573, 10418), (582, 10430), (588, 10451), (592, 10454), (600, 10484), (667, 10730), (709, 10847), (739, 10943), (742, 10949), (749, 10979),

Gene: MiniVolent_16 Start: 9589, Stop: 12009, Start Num: 21

Candidate Starts for MiniVolent_16:

(Start: 21 @9589 has 86 MA's), (27, 9604), (Start: 30 @9622 has 5 MA's), (47, 9703), (85, 9868), (96, 9925), (102, 9943), (108, 9967), (122, 10021), (127, 10042), (134, 10060), (146, 10105), (158, 10150), (191, 10261), (210, 10321), (222, 10357), (238, 10396), (245, 10417), (251, 10438), (273, 10483), (287, 10513), (288, 10516), (292, 10528), (308, 10573), (310, 10579), (314, 10594), (336, 10660), (341, 10678), (347, 10693), (350, 10705), (362, 10738), (378, 10777), (394, 10819), (403, 10846), (404, 10849), (428, 10909), (432, 10924), (442, 10951), (456, 10990), (472, 11023), (474, 11029), (479, 11041), (490, 11077), (494, 11089), (503, 11122), (514, 11155), (525, 11185), (529, 11197), (570, 11317), (584, 11356), (601, 11419), (608, 11452), (619, 11485), (638, 11581), (639, 11584), (650, 11632), (679, 11737), (700, 11782), (712, 11818), (713, 11821), (715, 11827), (732, 11878), (740, 11905), (743, 11914), (760, 11971), (768, 11998), (769, 12001),

Gene: Minima_12 Start: 7540, Stop: 9645, Start Num: 32

Candidate Starts for Minima_12:

(Start: 32 @7540 has 142 MA's), (Start: 38 @7561 has 3 MA's), (80, 7738), (81, 7747), (85, 7771), (101, 7843), (106, 7867), (109, 7873), (149, 8023), (156, 8044), (158, 8056), (160, 8065), (212, 8272), (218, 8290), (270, 8377), (298, 8446), (313, 8458), (328, 8506), (346, 8536), (350, 8551), (363, 8587), (374, 8614), (384, 8635), (392, 8659), (400, 8683), (402, 8689), (410, 8716), (426, 8749), (439, 8788), (449, 8815), (456, 8836), (462, 8851), (476, 8878), (477, 8881), (484, 8902), (487, 8914), (489, 8920), (503, 8968), (515, 9004), (531, 9052), (541, 9079), (550, 9100), (570, 9163), (580, 9187), (626, 9244), (653, 9349), (659, 9370), (661, 9382), (673, 9424), (682, 9445), (693, 9466), (745, 9595),

Gene: Mireles_17 Start: 9332, Stop: 11623, Start Num: 11

Candidate Starts for Mireles_17:

(2, 9296), (Start: 11 @9332 has 8 MA's), (102, 9692), (103, 9695), (131, 9806), (133, 9812), (168, 9950), (203, 10097), (209, 10115), (321, 10274), (329, 10301), (393, 10376), (446, 10484), (479, 10553), (484, 10568), (489, 10586), (490, 10589), (499, 10616), (502, 10628), (503, 10631), (505, 10637), (518, 10676), (529, 10709), (534, 10721), (537, 10730), (550, 10763), (551, 10766), (592, 10874), (600, 10904), (609, 10934), (610, 10937), (627, 10991), (632, 11012), (633, 11015), (639, 11039), (660, 11126), (666, 11147), (667, 11150), (709, 11267), (710, 11270), (720, 11303), (739, 11363), (755, 11420), (763, 11444), (766, 11453), (787, 11513), (797, 11564), (806, 11591),

Gene: MirimarMandM_12 Start: 7615, Stop: 9720, Start Num: 32

Candidate Starts for MirimarMandM_12:

(Start: 32 @7615 has 142 MA's), (Start: 38 @7636 has 3 MA's), (80, 7813), (81, 7822), (85, 7846), (101, 7918), (106, 7942), (137, 8041), (149, 8098), (156, 8119), (158, 8131), (160, 8140), (212, 8347), (218, 8365), (270, 8452), (298, 8521), (313, 8533), (328, 8581), (346, 8611), (350, 8626), (370, 8680), (384, 8710), (385, 8713), (392, 8734), (402, 8764), (410, 8791), (426, 8824), (439, 8863), (449, 8890), (451, 8896), (456, 8911), (462, 8926), (477, 8956), (484, 8977), (487, 8989), (489, 8995), (503, 9043), (515, 9079), (531, 9127), (541, 9154), (550, 9175), (570, 9238), (580, 9262), (626, 9319), (653, 9424), (659, 9445), (661, 9457), (673, 9499), (682, 9520), (693, 9541),

Gene: Misaeng_18 Start: 12684, Stop: 15242, Start Num: 12

Candidate Starts for Misaeng_18:

(6, 12663), (Start: 12 @12684 has 84 MA's), (37, 12774), (45, 12813), (55, 12849), (84, 12972), (123, 13140), (140, 13185), (151, 13236), (153, 13239), (175, 13323), (233, 13530), (237, 13539), (243, 13557), (244, 13560), (253, 13599), (314, 13800), (332, 13851), (352, 13905), (414, 13998), (428, 14022), (455, 14091), (460, 14103), (464, 14109), (465, 14112), (473, 14136), (483, 14166), (489, 14187), (504, 14235), (509, 14250), (511, 14256), (514, 14265), (522, 14289), (526, 14301), (528, 14307), (534, 14322), (536, 14328), (537, 14331), (551, 14367), (552, 14373), (555, 14382), (560, 14400), (562, 14406), (567, 14421), (570, 14430), (581, 14448), (588, 14472), (592, 14475), (596, 14487), (600, 14505), (623, 14571), (626, 14586), (633, 14616), (635, 14625), (639, 14640), (649, 14685), (663, 14736), (672, 14772), (709, 14868), (710, 14871), (726, 14925), (739, 14964), (755, 15021), (763, 15045), (780, 15087), (788, 15114), (801, 15183),

Gene: MissSwiss_16 Start: 10713, Stop: 12947, Start Num: 14

Candidate Starts for MissSwiss_16:

(Start: 14 @10713 has 63 MA's), (53, 10869), (54, 10878), (61, 10905), (75, 10959), (78, 10971), (87, 11019), (113, 11136), (138, 11217), (139, 11220), (144, 11250), (167, 11334), (181, 11391), (187, 11415), (201, 11475), (227, 11544), (233, 11562), (292, 11613), (318, 11634), (327, 11655), (374, 11700), (425, 11796), (428, 11805), (444, 11853), (450, 11862), (482, 11949), (517, 12063), (550, 12150), (563, 12195), (568, 12210), (636, 12330), (639, 12342), (655, 12408), (666, 12450), (669, 12462), (676, 12486), (684, 12507), (689, 12516), (697, 12537), (712, 12579), (742, 12669), (749, 12699), (769, 12753), (800, 12882),

Gene: Moki_14 Start: 9720, Stop: 12287, Start Num: 12

Candidate Starts for Moki_14:

(6, 9699), (Start: 12 @9720 has 84 MA's), (26, 9768), (45, 9849), (53, 9873), (72, 9945), (82, 9993), (84, 10008), (85, 10014), (123, 10176), (149, 10269), (151, 10272), (153, 10275), (163, 10305), (176, 10362), (212, 10500), (218, 10521), (233, 10566), (243, 10593), (250, 10626), (257, 10644), (269, 10686), (284, 10743), (402, 11007), (414, 11034), (423, 11052), (428, 11058), (436, 11082), (443, 11103), (460, 11139), (471, 11166), (481, 11196), (483, 11202), (499, 11253), (509, 11286), (522, 11325), (524, 11331), (526, 11337), (529, 11346), (534, 11358), (536, 11364), (546, 11388), (552, 11409), (555, 11418), (567, 11457), (573, 11475), (588, 11508), (592, 11511), (596, 11523), (599, 11538), (616, 11589), (626, 11622), (629, 11640), (636, 11664), (644, 11706), (663, 11772), (666, 11784), (678, 11829), (709, 11904), (710, 11907), (726, 11961), (739, 12000), (746, 12027), (755, 12057), (760, 12069), (763, 12081), (766, 12090), (788, 12156), (795, 12198), (801, 12228),

Gene: MonChoix_16 Start: 9415, Stop: 11679, Start Num: 20

Candidate Starts for MonChoix_16:

(Start: 20 @9415 has 123 MA's), (47, 9532), (54, 9562), (71, 9622), (81, 9673), (85, 9697), (96, 9754), (99, 9763), (116, 9826), (120, 9841), (122, 9850), (146, 9934), (158, 9979), (169, 10009), (191, 10099), (210, 10159), (232, 10216), (255, 10270), (287, 10333), (288, 10336), (292, 10348), (314, 10414), (324, 10447), (328, 10459), (339, 10492), (350, 10525), (368, 10576), (384, 10609), (390, 10627), (394, 10639), (406, 10678), (419, 10711), (422, 10717), (432, 10744), (440, 10765), (442, 10771), (444, 10777), (449, 10789), (460, 10819), (471, 10840), (486, 10885), (501, 10933), (503, 10942), (535, 11035), (559, 11107), (580, 11161), (630, 11239), (638, 11269), (639, 11272), (650, 11320), (662, 11362), (675, 11410), (679, 11425), (700, 11467), (738, 11569), (740, 11575), (743, 11584), (760, 11641),

Gene: MooKitty_12 Start: 6819, Stop: 8936, Start Num: 30

Candidate Starts for MooKitty_12:

(28, 6807), (Start: 30 @6819 has 5 MA's), (33, 6837), (35, 6843), (44, 6873), (46, 6882), (73, 6990), (85, 7056), (92, 7089), (104, 7143), (111, 7164), (121, 7203), (126, 7224), (177, 7419), (195, 7491), (205, 7533), (207, 7539), (228, 7590), (237, 7614), (249, 7653), (274, 7728), (275, 7734), (283, 7764), (284, 7767), (298, 7818), (303, 7827), (307, 7839), (312, 7854), (316, 7872), (321, 7887), (332, 7917), (338, 7938), (354, 7974), (355, 7977), (358, 7986), (395, 8037), (407, 8076), (416, 8097), (429, 8130), (443, 8169), (448, 8181), (449, 8184), (455, 8202), (460, 8214), (493, 8334), (496, 8346), (502, 8367), (510, 8391), (514, 8403), (575, 8580), (595, 8640), (622, 8667), (625, 8688), (628, 8700), (644, 8769), (661, 8826), (681, 8895),

Gene: Morrigan_18 Start: 10782, Stop: 13211, Start Num: 21

Candidate Starts for Morrigan_18:

(Start: 21 @10782 has 86 MA's), (27, 10797), (Start: 30 @10815 has 5 MA's), (71, 10986), (81, 11037), (85, 11061), (96, 11118), (122, 11214), (146, 11298), (158, 11343), (169, 11373), (191, 11463), (210, 11523), (255, 11634), (287, 11697), (288, 11700), (292, 11712), (308, 11757), (320, 11799), (336, 11844), (341, 11862), (357, 11910), (374, 11952), (384, 11973), (385, 11976), (388, 11985), (404, 12033), (410, 12054), (442, 12135), (453, 12165), (456, 12174), (474, 12213), (479, 12225), (487, 12252), (492, 12267), (494, 12273), (503, 12306), (529, 12381), (559, 12471), (570, 12501), (574, 12513), (575, 12516), (584, 12540), (590, 12561), (591, 12567), (594, 12579), (616, 12657), (630, 12735), (636, 12756), (638, 12765), (656, 12834), (678, 12918), (679, 12921), (721, 13032), (756, 13143), (765, 13170), (772, 13194),

Gene: Moss_16 Start: 10335, Stop: 12755, Start Num: 19

Candidate Starts for Moss_16:

(Start: 19 @10335 has 21 MA's), (41, 10422), (65, 10527), (69, 10539), (81, 10599), (104, 10710), (126, 10791), (160, 10917), (164, 10932), (177, 10986), (226, 11160), (251, 11244), (258, 11265), (269, 11307), (305, 11433), (312, 11454), (321, 11487), (340, 11544), (353, 11586), (358, 11601), (379, 11652), (393, 11688), (395, 11694), (431, 11796), (439, 11817), (454, 11859), (470, 11919), (472, 11925), (487, 11973), (518, 12069), (580, 12246), (583, 12258), (597, 12309), (633, 12390), (650, 12459), (660, 12495), (686, 12576), (694, 12591), (719, 12663), (728, 12687),

Gene: MrBoss_18 Start: 12597, Stop: 15152, Start Num: 12

Candidate Starts for MrBoss_18:

(6, 12576), (Start: 12 @12597 has 84 MA's), (26, 12645), (45, 12726), (53, 12750), (72, 12822), (82, 12870), (84, 12885), (85, 12891), (123, 13053), (151, 13149), (153, 13152), (163, 13182), (197, 13320), (233, 13443), (250, 13503), (257, 13521), (261, 13536), (276, 13587), (352, 13818), (403, 13887), (414, 13911), (423, 13929), (428, 13935), (447, 13989), (454, 14001), (464, 14022), (472, 14046), (500, 14133), (507, 14157), (509, 14163), (510, 14166), (514, 14178), (521, 14199), (522, 14202), (524, 14208), (526, 14214), (532, 14232), (534, 14235), (536, 14241), (552, 14286), (555,

14295), (560, 14313), (567, 14334), (570, 14343), (573, 14352), (592, 14388), (594, 14397), (596, 14400), (599, 14415), (610, 14451), (636, 14541), (663, 14649), (666, 14661), (671, 14682), (672, 14685), (709, 14781), (710, 14784), (726, 14838), (739, 14877), (755, 14934), (770, 14976), (788, 15024), (795, 15066), (801, 15096),

Gene: MrGloopy_18 Start: 12558, Stop: 15119, Start Num: 12

Candidate Starts for MrGloopy_18:

(6, 12537), (Start: 12 @12558 has 84 MA's), (26, 12606), (34, 12639), (45, 12687), (53, 12711), (55, 12723), (72, 12783), (82, 12831), (84, 12846), (85, 12852), (113, 12972), (123, 13014), (151, 13110), (153, 13113), (163, 13143), (175, 13197), (212, 13338), (218, 13359), (226, 13383), (233, 13404), (237, 13413), (250, 13464), (257, 13482), (313, 13668), (373, 13812), (402, 13845), (414, 13872), (423, 13890), (428, 13896), (436, 13920), (439, 13929), (460, 13977), (471, 14004), (481, 14034), (483, 14040), (499, 14091), (503, 14106), (507, 14118), (509, 14124), (510, 14127), (513, 14136), (522, 14163), (526, 14175), (529, 14184), (534, 14196), (536, 14202), (544, 14223), (555, 14256), (567, 14295), (588, 14346), (592, 14349), (594, 14358), (596, 14361), (599, 14376), (627, 14466), (636, 14502), (663, 14610), (672, 14646), (709, 14742), (710, 14745), (726, 14799), (739, 14838), (753, 14886), (755, 14895), (763, 14919), (770, 14937), (788, 14988), (793, 15012), (795, 15030), (801, 15060),

Gene: MrGreen_12 Start: 7553, Stop: 9658, Start Num: 32

Candidate Starts for MrGreen_12:

(Start: 32 @7553 has 142 MA's), (Start: 38 @7574 has 3 MA's), (80, 7751), (81, 7760), (85, 7784), (101, 7856), (106, 7880), (109, 7886), (137, 7979), (149, 8036), (156, 8057), (158, 8069), (160, 8078), (212, 8285), (218, 8303), (270, 8390), (298, 8459), (313, 8471), (328, 8519), (346, 8549), (350, 8564), (374, 8627), (385, 8651), (392, 8672), (400, 8696), (402, 8702), (410, 8729), (426, 8762), (439, 8801), (451, 8834), (456, 8849), (462, 8864), (476, 8891), (487, 8927), (489, 8933), (503, 8981), (531, 9065), (541, 9092), (550, 9113), (570, 9176), (580, 9200), (626, 9257), (653, 9362), (659, 9383), (661, 9395), (673, 9437), (682, 9458), (693, 9479), (745, 9608),

Gene: MrWorldwide_17 Start: 9364, Stop: 11634, Start Num: 20

Candidate Starts for MrWorldwide_17:

(Start: 20 @9364 has 123 MA's), (47, 9481), (54, 9511), (71, 9571), (81, 9622), (85, 9646), (96, 9703), (120, 9790), (122, 9799), (146, 9883), (158, 9928), (168, 9955), (169, 9958), (191, 10048), (210, 10108), (232, 10165), (245, 10186), (287, 10282), (288, 10285), (304, 10327), (328, 10408), (336, 10429), (339, 10441), (350, 10474), (374, 10537), (380, 10552), (384, 10558), (394, 10588), (406, 10627), (419, 10660), (422, 10666), (428, 10678), (432, 10693), (437, 10705), (440, 10714), (442, 10720), (460, 10768), (486, 10834), (503, 10891), (559, 11056), (580, 11110), (630, 11188), (638, 11218), (639, 11221), (650, 11269), (675, 11359), (679, 11374), (703, 11428), (710, 11443), (740, 11530), (743, 11539), (760, 11596),

Gene: Mudpuppy_16 Start: 10729, Stop: 13044, Start Num: 14

Candidate Starts for Mudpuppy_16:

(Start: 14 @10729 has 63 MA's), (53, 10885), (54, 10894), (75, 10975), (78, 10987), (87, 11035), (88, 11038), (95, 11080), (113, 11152), (138, 11233), (139, 11236), (144, 11266), (158, 11320), (167, 11350), (181, 11407), (187, 11431), (201, 11491), (329, 11716), (399, 11812), (425, 11875), (428, 11884), (444, 11932), (454, 11953), (468, 11986), (482, 12028), (494, 12067), (512, 12127), (561, 12268), (633, 12397), (635, 12406), (641, 12430), (648, 12463), (659, 12499), (663, 12517), (701, 12628), (709, 12649), (710, 12652), (720, 12685), (744, 12763), (755, 12802), (778, 12862), (785, 12892), (795, 12943), (807, 12988), (814, 13033),

Gene: Myram_12 Start: 7540, Stop: 9645, Start Num: 32

Candidate Starts for Myram_12:

(Start: 32 @7540 has 142 MA's), (Start: 38 @7561 has 3 MA's), (80, 7738), (81, 7747), (85, 7771), (101, 7843), (106, 7867), (109, 7873), (149, 8023), (156, 8044), (158, 8056), (160, 8065), (212, 8272), (218, 8290), (270, 8377), (298, 8446), (313, 8458), (328, 8506), (346, 8536), (350, 8551), (363, 8587), (374, 8614), (384, 8635), (392, 8659), (400, 8683), (402, 8689), (410, 8716), (426, 8749), (439, 8788), (449, 8815), (456, 8836), (462, 8851), (476, 8878), (477, 8881), (484, 8902), (487, 8914), (489, 8920), (503, 8968), (515, 9004), (531, 9052), (541, 9079), (550, 9100), (570, 9163), (580, 9187), (626, 9244), (653, 9349), (659, 9370), (661, 9382), (673, 9424), (682, 9445), (693, 9466), (745, 9595),

Gene: Mysterium_16 Start: 10336, Stop: 12756, Start Num: 19

Candidate Starts for Mysterium_16:

(Start: 19 @10336 has 21 MA's), (41, 10423), (65, 10528), (69, 10540), (81, 10600), (104, 10711), (126, 10792), (160, 10918), (164, 10933), (177, 10987), (226, 11161), (251, 11245), (258, 11266), (269, 11308), (305, 11434), (312, 11455), (321, 11488), (340, 11545), (353, 11587), (358, 11602), (379, 11653), (393, 11689), (395, 11695), (431, 11797), (439, 11818), (454, 11860), (470, 11920), (472, 11926), (487, 11974), (518, 12070), (572, 12226), (580, 12247), (583, 12259), (597, 12310), (650, 12460), (660, 12496), (686, 12577), (719, 12664), (728, 12688),

Gene: Naby_12 Start: 7240, Stop: 9339, Start Num: 32

Candidate Starts for Naby_12:

(Start: 32 @7240 has 142 MA's), (36, 7255), (Start: 38 @7261 has 3 MA's), (51, 7321), (65, 7375), (80, 7438), (81, 7447), (85, 7471), (101, 7543), (106, 7567), (137, 7666), (149, 7723), (158, 7756), (160, 7765), (235, 8032), (270, 8077), (311, 8149), (319, 8179), (346, 8236), (350, 8251), (377, 8320), (394, 8365), (400, 8383), (402, 8389), (426, 8449), (428, 8455), (432, 8470), (439, 8488), (449, 8515), (468, 8557), (484, 8602), (489, 8620), (497, 8647), (526, 8734), (531, 8752), (541, 8779), (556, 8821), (570, 8863), (572, 8866), (580, 8887), (639, 8998), (659, 9070), (661, 9082), (669, 9112), (673, 9124), (682, 9145), (695, 9169), (734, 9253), (745, 9289),

Gene: Nagem_17 Start: 9358, Stop: 11628, Start Num: 20

Candidate Starts for Nagem_17:

(Start: 20 @9358 has 123 MA's), (47, 9475), (54, 9505), (71, 9565), (81, 9616), (85, 9640), (96, 9697), (120, 9784), (122, 9793), (146, 9877), (158, 9922), (168, 9949), (169, 9952), (191, 10042), (210, 10102), (232, 10159), (245, 10180), (287, 10276), (288, 10279), (292, 10291), (304, 10321), (328, 10402), (336, 10423), (339, 10435), (350, 10468), (374, 10531), (380, 10546), (384, 10552), (394, 10582), (406, 10621), (419, 10654), (422, 10660), (428, 10672), (432, 10687), (437, 10699), (440, 10708), (442, 10714), (460, 10762), (486, 10828), (503, 10885), (559, 11050), (580, 11104), (630, 11182), (638, 11212), (639, 11215), (650, 11263), (675, 11353), (679, 11368), (703, 11422), (710, 11437), (740, 11524), (743, 11533), (760, 11590),

Gene: Namsahir_12 Start: 7603, Stop: 9708, Start Num: 32

Candidate Starts for Namsahir_12:

(Start: 32 @7603 has 142 MA's), (Start: 38 @7624 has 3 MA's), (80, 7801), (81, 7810), (85, 7834), (101, 7906), (106, 7930), (137, 8029), (156, 8107), (158, 8119), (160, 8128), (212, 8335), (218, 8353), (270, 8440), (298, 8509), (313, 8521), (328, 8569), (346, 8599), (350, 8614), (370, 8668), (384, 8698), (385, 8701), (392, 8722), (402, 8752), (410, 8779), (426, 8812), (439, 8851), (449, 8878), (451, 8884), (456, 8899), (462, 8914), (476, 8941), (477, 8944), (484, 8965), (487, 8977), (489, 8983), (503, 9031), (515, 9067), (531, 9115), (541, 9142), (550, 9163), (570, 9226), (580, 9250), (626, 9307), (653, 9412), (659, 9433), (673, 9487), (682, 9508), (693, 9529),

Gene: Nancia_14 Start: 9717, Stop: 12278, Start Num: 12

Candidate Starts for Nancia_14:

(6, 9696), (Start: 12 @9717 has 84 MA's), (26, 9765), (45, 9846), (53, 9870), (72, 9942), (82, 9990), (84, 10005), (85, 10011), (113, 10131), (123, 10173), (151, 10269), (153, 10272), (163, 10302), (197, 10440), (218, 10518), (233, 10563), (237, 10572), (250, 10623), (257, 10641), (260, 10653), (267,

10677), (335, 10893), (391, 10983), (402, 11004), (414, 11031), (423, 11049), (428, 11055), (436, 11079), (439, 11088), (460, 11136), (471, 11163), (481, 11193), (499, 11250), (503, 11265), (507, 11277), (509, 11283), (510, 11286), (513, 11295), (522, 11322), (526, 11334), (529, 11343), (534, 11355), (536, 11361), (546, 11385), (552, 11406), (555, 11415), (559, 11430), (567, 11454), (588, 11505), (592, 11508), (596, 11520), (618, 11595), (627, 11625), (636, 11661), (663, 11769), (666, 11781), (672, 11805), (709, 11901), (710, 11904), (720, 11937), (726, 11958), (739, 11997), (744, 12015), (753, 12045), (755, 12054), (763, 12078), (789, 12153), (801, 12219),

Gene: Nattles_17 Start: 9651, Stop: 11921, Start Num: 20

Candidate Starts for Nattles_17:

(Start: 20 @9651 has 123 MA's), (47, 9768), (54, 9798), (71, 9858), (81, 9909), (85, 9933), (96, 9990), (116, 10062), (120, 10077), (122, 10086), (146, 10170), (158, 10215), (169, 10245), (191, 10335), (210, 10395), (232, 10452), (245, 10473), (287, 10569), (288, 10572), (304, 10614), (328, 10695), (336, 10716), (339, 10728), (350, 10761), (384, 10845), (394, 10875), (406, 10914), (419, 10947), (422, 10953), (432, 10980), (437, 10992), (440, 11001), (442, 11007), (455, 11043), (460, 11055), (474, 11085), (486, 11121), (487, 11124), (503, 11178), (535, 11271), (559, 11343), (580, 11397), (630, 11475), (638, 11505), (639, 11508), (650, 11556), (656, 11574), (665, 11607), (675, 11646), (679, 11661), (700, 11703), (732, 11790), (740, 11817), (760, 11883),

Gene: Nebulous_18 Start: 10617, Stop: 13052, Start Num: 21

Candidate Starts for Nebulous_18:

(Start: 21 @10617 has 86 MA's), (56, 10767), (60, 10782), (78, 10851), (85, 10893), (96, 10950), (102, 10968), (122, 11046), (127, 11067), (134, 11085), (146, 11130), (158, 11175), (191, 11286), (210, 11346), (238, 11421), (251, 11463), (273, 11508), (287, 11538), (288, 11541), (292, 11553), (304, 11583), (308, 11598), (311, 11607), (328, 11664), (336, 11685), (337, 11691), (341, 11703), (353, 11739), (384, 11814), (385, 11817), (394, 11844), (415, 11904), (427, 11931), (432, 11949), (442, 11976), (472, 12048), (474, 12054), (479, 12066), (492, 12108), (494, 12114), (503, 12147), (514, 12180), (529, 12222), (557, 12303), (575, 12357), (587, 12390), (594, 12420), (613, 12489), (616, 12498), (630, 12576), (638, 12606), (639, 12609), (650, 12657), (653, 12663), (664, 12705), (675, 12747), (679, 12762), (704, 12828), (709, 12837), (765, 13011), (772, 13035),

Gene: Neferthema_18 Start: 10628, Stop: 13066, Start Num: 21

Candidate Starts for Neferthema_18:

(Start: 21 @10628 has 86 MA's), (56, 10778), (85, 10904), (89, 10919), (96, 10961), (102, 10979), (108, 11003), (122, 11057), (127, 11078), (134, 11096), (146, 11141), (158, 11186), (191, 11297), (210, 11357), (238, 11432), (273, 11519), (287, 11549), (288, 11552), (292, 11564), (304, 11594), (308, 11609), (336, 11696), (337, 11702), (341, 11714), (375, 11807), (384, 11825), (385, 11828), (394, 11855), (415, 11915), (427, 11942), (472, 12059), (474, 12065), (479, 12077), (492, 12119), (494, 12125), (503, 12158), (514, 12191), (529, 12233), (557, 12314), (559, 12323), (570, 12353), (584, 12392), (587, 12401), (594, 12431), (613, 12500), (616, 12509), (630, 12587), (639, 12620), (650, 12668), (653, 12674), (679, 12773), (704, 12839), (709, 12848), (765, 13025), (772, 13049),

Gene: NeumannU_12 Start: 7546, Stop: 9651, Start Num: 32

Candidate Starts for NeumannU_12:

(Start: 32 @7546 has 142 MA's), (Start: 38 @7567 has 3 MA's), (80, 7744), (81, 7753), (85, 7777), (101, 7849), (106, 7873), (109, 7879), (149, 8029), (156, 8050), (158, 8062), (160, 8071), (212, 8278), (218, 8296), (270, 8383), (298, 8452), (313, 8464), (328, 8512), (346, 8542), (350, 8557), (363, 8593), (374, 8620), (384, 8641), (392, 8665), (400, 8689), (402, 8695), (410, 8722), (426, 8755), (439, 8794), (449, 8821), (456, 8842), (462, 8857), (476, 8884), (477, 8887), (484, 8908), (487, 8920), (489, 8926), (503, 8974), (529, 9049), (531, 9058), (541, 9085), (550, 9106), (570, 9169), (580, 9193), (626, 9250), (653, 9355), (659, 9376), (661, 9388), (673, 9430), (682, 9451), (693, 9472),

Gene: Neuville_17 Start: 9567, Stop: 11855, Start Num: 9

Candidate Starts for Neuville_17:

(Start: 9 @9567 has 3 MA's), (Start: 11 @9570 has 8 MA's), (40, 9669), (80, 9828), (131, 10044), (168, 10188), (196, 10299), (203, 10335), (215, 10377), (322, 10515), (332, 10545), (333, 10548), (339, 10566), (373, 10608), (435, 10692), (443, 10716), (470, 10764), (484, 10806), (485, 10812), (499, 10854), (504, 10872), (518, 10914), (522, 10926), (529, 10947), (537, 10968), (540, 10977), (543, 10983), (550, 11001), (551, 11004), (559, 11034), (562, 11043), (592, 11112), (599, 11139), (600, 11142), (623, 11208), (627, 11229), (633, 11253), (639, 11277), (646, 11316), (666, 11385), (668, 11394), (676, 11421), (709, 11505), (710, 11508), (739, 11601), (742, 11607), (755, 11658), (763, 11682), (766, 11691), (783, 11736), (812, 11850),

Gene: NickSell_17 Start: 9364, Stop: 11634, Start Num: 20

Candidate Starts for NickSell_17:

(Start: 20 @9364 has 123 MA's), (47, 9481), (54, 9511), (71, 9571), (81, 9622), (85, 9646), (96, 9703), (120, 9790), (122, 9799), (146, 9883), (158, 9928), (168, 9955), (169, 9958), (191, 10048), (210, 10108), (232, 10165), (245, 10186), (287, 10282), (288, 10285), (304, 10327), (328, 10408), (336, 10429), (339, 10441), (350, 10474), (380, 10552), (384, 10558), (394, 10588), (406, 10627), (419, 10660), (422, 10666), (428, 10678), (432, 10693), (437, 10705), (440, 10714), (442, 10720), (460, 10768), (486, 10834), (503, 10891), (559, 11056), (580, 11110), (630, 11188), (638, 11218), (639, 11221), (650, 11269), (675, 11359), (679, 11374), (703, 11428), (710, 11443), (740, 11530), (743, 11539), (760, 11596),

Gene: Niffler_12 Start: 7621, Stop: 9726, Start Num: 32

Candidate Starts for Niffler_12:

(Start: 32 @7621 has 142 MA's), (Start: 38 @7642 has 3 MA's), (80, 7819), (81, 7828), (85, 7852), (101, 7924), (106, 7948), (137, 8047), (149, 8104), (156, 8125), (158, 8137), (160, 8146), (212, 8353), (218, 8371), (270, 8458), (298, 8527), (313, 8539), (328, 8587), (346, 8617), (350, 8632), (384, 8716), (385, 8719), (392, 8740), (402, 8770), (410, 8797), (426, 8830), (439, 8869), (449, 8896), (451, 8902), (456, 8917), (462, 8932), (477, 8962), (484, 8983), (487, 8995), (489, 9001), (503, 9049), (515, 9085), (531, 9133), (541, 9160), (550, 9181), (570, 9244), (580, 9268), (626, 9325), (653, 9430), (659, 9451), (673, 9505), (682, 9526), (693, 9547),

Gene: Niobe_16 Start: 10704, Stop: 13028, Start Num: 14

Candidate Starts for Niobe_16:

(Start: 14 @10704 has 63 MA's), (52, 10857), (53, 10860), (54, 10869), (75, 10950), (87, 11010), (95, 11055), (113, 11127), (138, 11208), (139, 11211), (144, 11241), (158, 11295), (167, 11325), (181, 11382), (187, 11406), (201, 11466), (202, 11472), (211, 11496), (258, 11592), (329, 11691), (399, 11787), (410, 11820), (428, 11859), (444, 11907), (468, 11961), (482, 12003), (494, 12042), (499, 12060), (512, 12102), (547, 12195), (631, 12366), (635, 12381), (663, 12492), (709, 12624), (710, 12627), (720, 12660), (744, 12738), (755, 12777), (778, 12837), (795, 12927),

Gene: Nitro_16 Start: 10728, Stop: 13052, Start Num: 14

Candidate Starts for Nitro_16:

(Start: 14 @10728 has 63 MA's), (49, 10875), (53, 10884), (63, 10926), (75, 10974), (87, 11034), (95, 11079), (113, 11151), (128, 11211), (139, 11235), (144, 11265), (158, 11319), (167, 11349), (181, 11406), (187, 11430), (201, 11490), (202, 11496), (237, 11595), (328, 11712), (399, 11811), (428, 11883), (444, 11931), (482, 12027), (494, 12066), (499, 12084), (512, 12126), (517, 12141), (547, 12219), (631, 12390), (635, 12405), (648, 12462), (659, 12498), (663, 12516), (709, 12648), (710, 12651), (720, 12684), (744, 12762), (755, 12801), (778, 12861), (795, 12951), (807, 12996), (814, 13041),

Gene: Nobel_12 Start: 7648, Stop: 9753, Start Num: 32

Candidate Starts for Nobel_12:

(Start: 32 @7648 has 142 MA's), (Start: 38 @7669 has 3 MA's), (80, 7846), (81, 7855), (85, 7879), (101, 7951), (106, 7975), (137, 8074), (149, 8131), (156, 8152), (158, 8164), (160, 8173), (212, 8380), (218, 8398), (270, 8485), (298, 8554), (313, 8566), (328, 8614), (346, 8644), (350, 8659), (384, 8743), (385, 8746), (392, 8767), (402, 8797), (410, 8824), (426, 8857), (439, 8896), (449, 8923), (451, 8929), (456, 8944), (462, 8959), (477, 8989), (484, 9010), (487, 9022), (489, 9028), (503, 9076), (515, 9112), (531, 9160), (541, 9187), (550, 9208), (570, 9271), (580, 9295), (626, 9352), (653, 9457), (659, 9478), (673, 9532), (682, 9553), (693, 9574),

Gene: Noelani_12 Start: 7514, Stop: 9619, Start Num: 32

Candidate Starts for Noelani_12:

(Start: 32 @7514 has 142 MA's), (Start: 38 @7535 has 3 MA's), (78, 7703), (80, 7712), (85, 7745), (101, 7817), (106, 7841), (149, 7997), (156, 8018), (160, 8039), (212, 8246), (218, 8264), (270, 8351), (298, 8420), (328, 8480), (346, 8510), (350, 8525), (363, 8561), (374, 8588), (384, 8609), (392, 8633), (400, 8657), (402, 8663), (410, 8690), (439, 8762), (449, 8789), (456, 8810), (462, 8825), (476, 8852), (477, 8855), (484, 8876), (487, 8888), (489, 8894), (503, 8942), (529, 9017), (531, 9026), (541, 9053), (550, 9074), (570, 9137), (580, 9161), (587, 9185), (626, 9218), (639, 9272), (659, 9344), (661, 9356), (673, 9398), (682, 9419), (693, 9440), (726, 9518), (745, 9569),

Gene: Nubia_18 Start: 12596, Stop: 15157, Start Num: 12

Candidate Starts for Nubia_18:

(6, 12575), (Start: 12 @12596 has 84 MA's), (37, 12686), (45, 12725), (55, 12761), (72, 12821), (82, 12869), (84, 12884), (123, 13052), (140, 13097), (151, 13148), (153, 13151), (175, 13235), (226, 13421), (240, 13457), (243, 13469), (253, 13511), (352, 13820), (414, 13913), (423, 13931), (428, 13937), (460, 14018), (464, 14024), (473, 14051), (483, 14081), (502, 14144), (507, 14159), (509, 14165), (510, 14168), (514, 14180), (522, 14204), (526, 14216), (528, 14222), (534, 14237), (536, 14243), (537, 14246), (546, 14267), (551, 14282), (552, 14288), (555, 14297), (560, 14315), (562, 14321), (567, 14336), (570, 14345), (573, 14354), (588, 14387), (592, 14390), (596, 14402), (597, 14408), (600, 14420), (616, 14468), (623, 14486), (626, 14501), (633, 14531), (635, 14540), (649, 14600), (663, 14651), (672, 14687), (678, 14708), (709, 14783), (710, 14786), (726, 14840), (739, 14879), (755, 14936), (763, 14960), (780, 15002), (788, 15029), (801, 15098),

Gene: Nucci_16 Start: 9618, Stop: 12029, Start Num: 21

Candidate Starts for Nucci_16:

(5, 9555), (Start: 21 @9618 has 86 MA's), (27, 9633), (Start: 30 @9651 has 5 MA's), (47, 9732), (70, 9816), (72, 9825), (85, 9897), (96, 9954), (116, 10026), (120, 10041), (122, 10050), (136, 10092), (146, 10134), (158, 10179), (169, 10209), (179, 10251), (191, 10299), (210, 10359), (219, 10389), (232, 10416), (273, 10503), (287, 10533), (288, 10536), (295, 10557), (314, 10614), (328, 10659), (336, 10680), (384, 10809), (403, 10866), (404, 10869), (422, 10917), (427, 10926), (432, 10944), (440, 10965), (442, 10971), (474, 11049), (486, 11085), (487, 11088), (490, 11097), (494, 11109), (502, 11139), (503, 11142), (513, 11172), (570, 11337), (584, 11376), (601, 11439), (622, 11526), (638, 11601), (639, 11604), (650, 11652), (662, 11694), (664, 11700), (679, 11757), (715, 11847), (740, 11925), (743, 11934), (760, 11991), (768, 12018), (769, 12021),

Gene: OMalley_14 Start: 9738, Stop: 12296, Start Num: 12

Candidate Starts for OMalley_14:

(Start: 12 @9738 has 84 MA's), (15, 9747), (22, 9777), (45, 9867), (72, 9963), (81, 10008), (84, 10026), (123, 10194), (151, 10290), (153, 10293), (156, 10308), (180, 10395), (240, 10599), (241, 10602), (262, 10686), (373, 10992), (414, 11052), (423, 11070), (428, 11076), (439, 11109), (443, 11121), (460, 11157), (471, 11184), (479, 11208), (481, 11214), (499, 11271), (506, 11295), (509, 11304), (514, 11319), (522, 11343), (526, 11355), (534, 11376), (536, 11382), (544, 11403), (552, 11427), (555, 11436), (560, 11454), (567, 11475), (569, 11481), (573, 11493), (588, 11526), (592, 11529), (596, 11541), (599, 11556), (600, 11559), (627, 11646), (648, 11736), (649, 11739), (663, 11790), (678, 11847), (683, 11856), (689, 11868), (709, 11922), (710, 11925), (726, 11979), (739, 12018),

(753, 12066), (755, 12075), (763, 12099), (767, 12111), (795, 12207), (801, 12237),

Gene: Oaklynn_12 Start: 7555, Stop: 9639, Start Num: 38

Candidate Starts for Oaklynn_12:

(Start: 32 @7534 has 142 MA's), (Start: 38 @7555 has 3 MA's), (80, 7732), (81, 7741), (85, 7765), (101, 7837), (106, 7861), (109, 7867), (149, 8017), (156, 8038), (158, 8050), (160, 8059), (212, 8266), (218, 8284), (270, 8371), (298, 8440), (313, 8452), (328, 8500), (346, 8530), (350, 8545), (374, 8608), (384, 8629), (385, 8632), (402, 8683), (410, 8710), (426, 8743), (439, 8782), (449, 8809), (456, 8830), (462, 8845), (476, 8872), (484, 8896), (487, 8908), (489, 8914), (503, 8962), (531, 9046), (541, 9073), (550, 9094), (570, 9157), (580, 9181), (587, 9205), (624, 9226), (653, 9343), (659, 9364), (661, 9376), (673, 9418), (682, 9439), (693, 9460), (745, 9589),

Gene: Oats_17 Start: 9667, Stop: 11937, Start Num: 20

Candidate Starts for Oats_17:

(Start: 20 @9667 has 123 MA's), (47, 9784), (54, 9814), (71, 9874), (81, 9925), (85, 9949), (96, 10006), (120, 10093), (122, 10102), (146, 10186), (158, 10231), (168, 10258), (169, 10261), (191, 10351), (210, 10411), (232, 10468), (245, 10489), (287, 10585), (288, 10588), (304, 10630), (328, 10711), (336, 10732), (339, 10744), (350, 10777), (380, 10855), (384, 10861), (394, 10891), (406, 10930), (419, 10963), (422, 10969), (428, 10981), (432, 10996), (437, 11008), (440, 11017), (442, 11023), (460, 11071), (472, 11095), (474, 11101), (486, 11137), (503, 11194), (559, 11359), (580, 11413), (630, 11491), (638, 11521), (639, 11524), (650, 11572), (675, 11662), (679, 11677), (700, 11719), (703, 11731), (710, 11746), (740, 11833), (743, 11842), (760, 11899),

Gene: ObiToo_16 Start: 10917, Stop: 13223, Start Num: 14

Candidate Starts for ObiToo_16:

(Start: 14 @10917 has 63 MA's), (52, 11070), (53, 11073), (54, 11082), (87, 11223), (113, 11340), (139, 11424), (144, 11454), (158, 11508), (181, 11595), (187, 11619), (201, 11679), (202, 11685), (224, 11751), (328, 11901), (329, 11904), (425, 12063), (428, 12072), (444, 12120), (468, 12174), (482, 12216), (494, 12255), (512, 12315), (517, 12330), (547, 12408), (561, 12456), (598, 12531), (611, 12543), (633, 12585), (635, 12594), (663, 12705), (709, 12837), (710, 12840), (744, 12951), (755, 12990), (775, 13044), (781, 13065), (785, 13080), (800, 13158),

Gene: Octopus_12 Start: 7540, Stop: 9645, Start Num: 32

Candidate Starts for Octopus_12:

(Start: 32 @7540 has 142 MA's), (Start: 38 @7561 has 3 MA's), (80, 7738), (81, 7747), (85, 7771), (101, 7843), (106, 7867), (109, 7873), (149, 8023), (156, 8044), (158, 8056), (160, 8065), (212, 8272), (218, 8290), (270, 8377), (298, 8446), (313, 8458), (328, 8506), (346, 8536), (350, 8551), (363, 8587), (374, 8614), (384, 8635), (392, 8659), (400, 8683), (402, 8689), (410, 8716), (426, 8749), (439, 8788), (449, 8815), (456, 8836), (462, 8851), (476, 8878), (477, 8881), (484, 8902), (487, 8914), (489, 8920), (503, 8968), (515, 9004), (531, 9052), (541, 9079), (550, 9100), (570, 9163), (580, 9187), (626, 9244), (653, 9349), (659, 9370), (661, 9382), (673, 9424), (682, 9445), (693, 9466), (745, 9595),

Gene: OdetoJoy_12 Start: 7627, Stop: 9732, Start Num: 32

Candidate Starts for OdetoJoy_12:

(Start: 32 @7627 has 142 MA's), (Start: 38 @7648 has 3 MA's), (80, 7825), (81, 7834), (85, 7858), (101, 7930), (106, 7954), (109, 7960), (149, 8110), (156, 8131), (158, 8143), (160, 8152), (212, 8359), (218, 8377), (270, 8464), (298, 8533), (313, 8545), (328, 8593), (346, 8623), (350, 8638), (374, 8701), (384, 8722), (392, 8746), (400, 8770), (402, 8776), (410, 8803), (426, 8836), (439, 8875), (449, 8902), (456, 8923), (462, 8938), (476, 8965), (477, 8968), (484, 8989), (487, 9001), (489, 9007), (503, 9055), (515, 9091), (529, 9130), (531, 9139), (541, 9166), (550, 9187), (570, 9250), (580, 9274), (626, 9331), (653, 9436), (659, 9457), (661, 9469), (673, 9511), (682, 9532), (693, 9553), (745, 9682),

Gene: OldNelly_17 Start: 9364, Stop: 11634, Start Num: 20

Candidate Starts for OldNelly_17:

(Start: 20 @9364 has 123 MA's), (47, 9481), (54, 9511), (71, 9571), (81, 9622), (85, 9646), (96, 9703), (120, 9790), (122, 9799), (146, 9883), (158, 9928), (168, 9955), (169, 9958), (191, 10048), (210, 10108), (232, 10165), (245, 10186), (287, 10282), (288, 10285), (304, 10327), (328, 10408), (336, 10429), (339, 10441), (350, 10474), (380, 10552), (384, 10558), (394, 10588), (406, 10627), (419, 10660), (422, 10666), (432, 10693), (437, 10705), (440, 10714), (442, 10720), (460, 10768), (472, 10792), (474, 10798), (486, 10834), (503, 10891), (559, 11056), (580, 11110), (630, 11188), (638, 11218), (639, 11221), (650, 11269), (675, 11359), (679, 11374), (700, 11416), (703, 11428), (710, 11443), (740, 11530), (743, 11539), (760, 11596),

Gene: Olympi_21 Start: 13480, Stop: 15465, Start Num: 24

Candidate Starts for Olympi_21:

(1, 13381), (Start: 24 @13480 has 21 MA's), (64, 13630), (69, 13645), (72, 13657), (113, 13849), (120, 13873), (132, 13915), (154, 14005), (168, 14056), (185, 14122), (203, 14203), (257, 14293), (280, 14314), (296, 14329), (350, 14455), (417, 14524), (433, 14557), (547, 14755), (592, 14782), (597, 14800), (623, 14854), (634, 14902), (637, 14914), (638, 14920), (654, 14986), (658, 14998), (659, 15001), (727, 15175), (739, 15211), (747, 15241), (766, 15301), (808, 15439),

Gene: Origami_15 Start: 8974, Stop: 11217, Start Num: 14

Candidate Starts for Origami_15:

(Start: 14 @8974 has 63 MA's), (Start: 38 @9061 has 3 MA's), (64, 9163), (80, 9229), (103, 9334), (131, 9445), (133, 9451), (157, 9547), (168, 9589), (203, 9736), (209, 9754), (315, 9856), (428, 10012), (459, 10090), (481, 10138), (484, 10147), (489, 10165), (502, 10207), (505, 10216), (514, 10243), (524, 10273), (536, 10306), (570, 10408), (573, 10417), (582, 10429), (588, 10450), (592, 10453), (600, 10483), (632, 10591), (709, 10846), (713, 10858), (739, 10942), (742, 10948), (749, 10978),

Gene: Orpington_17 Start: 9444, Stop: 11852, Start Num: 21

Candidate Starts for Orpington_17:

(Start: 21 @9444 has 86 MA's), (27, 9459), (47, 9558), (71, 9648), (85, 9723), (96, 9780), (99, 9789), (116, 9852), (120, 9867), (122, 9876), (146, 9960), (158, 10005), (169, 10035), (179, 10077), (191, 10125), (210, 10185), (232, 10242), (273, 10329), (287, 10359), (288, 10362), (292, 10374), (336, 10506), (337, 10512), (354, 10563), (374, 10614), (375, 10617), (389, 10650), (394, 10665), (398, 10677), (410, 10716), (432, 10770), (440, 10791), (442, 10797), (472, 10869), (474, 10875), (486, 10911), (487, 10914), (503, 10968), (525, 11031), (529, 11043), (535, 11061), (559, 11133), (570, 11163), (583, 11199), (590, 11223), (600, 11262), (608, 11298), (611, 11307), (618, 11328), (638, 11427), (639, 11430), (650, 11478), (675, 11568), (679, 11583), (700, 11628), (709, 11655), (715, 11673), (722, 11694), (727, 11712), (732, 11721), (738, 11742), (740, 11748), (743, 11757), (760, 11814), (768, 11841), (769, 11844),

Gene: OscarSo_26 Start: 15660, Stop: 17801, Start Num: 19

Candidate Starts for OscarSo_26:

(Start: 19 @15660 has 21 MA's), (105, 16026), (116, 16068), (119, 16083), (187, 16326), (202, 16389), (223, 16452), (230, 16470), (258, 16500), (281, 16521), (323, 16584), (359, 16668), (406, 16728), (425, 16773), (428, 16776), (469, 16869), (476, 16890), (504, 16983), (509, 16998), (603, 17271), (636, 17361), (651, 17427), (668, 17490), (670, 17496), (675, 17514), (696, 17565), (724, 17655), (734, 17682),

Gene: Otwor_12 Start: 7552, Stop: 9657, Start Num: 32

Candidate Starts for Otwor_12:

(Start: 32 @7552 has 142 MA's), (Start: 38 @7573 has 3 MA's), (80, 7750), (81, 7759), (85, 7783), (101, 7855), (106, 7879), (109, 7885), (149, 8035), (156, 8056), (158, 8068), (160, 8077), (212, 8284), (218, 8302), (270, 8389), (298, 8458), (313, 8470), (328, 8518), (346, 8548), (350, 8563), (363, 8599), (374, 8626), (384, 8647), (392, 8671), (400, 8695), (402, 8701), (410, 8728), (426, 8761), (439, 8800),

(449, 8827), (456, 8848), (462, 8863), (476, 8890), (477, 8893), (484, 8914), (487, 8926), (489, 8932), (503, 8980), (529, 9055), (531, 9064), (541, 9091), (550, 9112), (570, 9175), (580, 9199), (626, 9256), (653, 9361), (659, 9382), (661, 9394), (673, 9436), (682, 9457), (693, 9478),

Gene: OurGirlNessie_14 Start: 9709, Stop: 12270, Start Num: 12

Candidate Starts for OurGirlNessie_14:

(6, 9688), (Start: 12 @9709 has 84 MA's), (26, 9757), (45, 9838), (53, 9862), (72, 9934), (82, 9982), (84, 9997), (85, 10003), (123, 10165), (151, 10261), (163, 10294), (197, 10432), (218, 10510), (226, 10534), (233, 10555), (237, 10564), (250, 10615), (257, 10633), (260, 10645), (267, 10669), (335, 10885), (391, 10975), (402, 10996), (414, 11023), (423, 11041), (428, 11047), (436, 11071), (439, 11080), (460, 11128), (471, 11155), (481, 11185), (499, 11242), (503, 11257), (507, 11269), (509, 11275), (510, 11278), (513, 11287), (522, 11314), (526, 11326), (529, 11335), (534, 11347), (536, 11353), (546, 11377), (552, 11398), (555, 11407), (559, 11422), (567, 11446), (573, 11464), (588, 11497), (592, 11500), (596, 11512), (618, 11587), (627, 11617), (636, 11653), (641, 11674), (663, 11761), (666, 11773), (671, 11794), (672, 11797), (709, 11893), (710, 11896), (720, 11929), (726, 11950), (739, 11989), (744, 12007), (753, 12037), (755, 12046), (789, 12145), (801, 12211),

Gene: Owens_12 Start: 7546, Stop: 9651, Start Num: 32

Candidate Starts for Owens_12:

(Start: 32 @7546 has 142 MA's), (Start: 38 @7567 has 3 MA's), (80, 7744), (81, 7753), (85, 7777), (101, 7849), (106, 7873), (109, 7879), (149, 8029), (156, 8050), (158, 8062), (160, 8071), (212, 8278), (218, 8296), (270, 8383), (298, 8452), (313, 8464), (328, 8512), (346, 8542), (350, 8557), (363, 8593), (374, 8620), (384, 8641), (392, 8665), (400, 8689), (402, 8695), (410, 8722), (426, 8755), (439, 8794), (449, 8821), (456, 8842), (462, 8857), (476, 8884), (477, 8887), (484, 8908), (487, 8920), (489, 8926), (503, 8974), (529, 9049), (531, 9058), (541, 9085), (550, 9106), (570, 9169), (580, 9193), (626, 9250), (653, 9355), (659, 9376), (661, 9388), (673, 9430), (682, 9451), (693, 9472),

Gene: Oxtober96_17 Start: 9362, Stop: 11632, Start Num: 20

Candidate Starts for Oxtober96_17:

(Start: 20 @9362 has 123 MA's), (47, 9479), (54, 9509), (81, 9620), (85, 9644), (96, 9701), (116, 9773), (120, 9788), (122, 9797), (146, 9881), (158, 9926), (169, 9956), (191, 10046), (210, 10106), (232, 10163), (245, 10184), (287, 10280), (288, 10283), (304, 10325), (328, 10406), (336, 10427), (339, 10439), (350, 10472), (384, 10556), (394, 10586), (406, 10625), (419, 10658), (422, 10664), (437, 10703), (440, 10712), (442, 10718), (455, 10754), (460, 10766), (474, 10796), (486, 10832), (503, 10889), (514, 10922), (535, 10982), (559, 11054), (630, 11186), (638, 11216), (639, 11219), (650, 11267), (662, 11309), (675, 11357), (679, 11372), (700, 11414), (710, 11441), (740, 11528), (743, 11537), (760, 11594),

Gene: Oxyxfrius_18 Start: 12609, Stop: 15170, Start Num: 12

Candidate Starts for Oxyxfrius_18:

(6, 12588), (Start: 12 @12609 has 84 MA's), (37, 12699), (45, 12738), (55, 12774), (72, 12834), (82, 12882), (84, 12897), (123, 13065), (140, 13110), (151, 13161), (153, 13164), (175, 13248), (226, 13434), (240, 13470), (243, 13482), (253, 13524), (284, 13635), (352, 13833), (414, 13926), (428, 13950), (429, 13953), (460, 14031), (464, 14037), (473, 14064), (483, 14094), (502, 14157), (507, 14172), (510, 14181), (511, 14184), (514, 14193), (522, 14217), (526, 14229), (528, 14235), (534, 14250), (536, 14256), (537, 14259), (546, 14280), (551, 14295), (555, 14310), (560, 14328), (562, 14334), (567, 14349), (570, 14358), (573, 14367), (588, 14400), (592, 14403), (596, 14415), (597, 14421), (600, 14433), (623, 14499), (626, 14514), (633, 14544), (635, 14553), (663, 14664), (672, 14700), (678, 14721), (709, 14796), (710, 14799), (726, 14853), (739, 14892), (755, 14949), (763, 14973), (780, 15015), (788, 15042), (801, 15111),

Gene: PSirce_16 Start: 9447, Stop: 11855, Start Num: 21

Candidate Starts for PSirce_16:

(Start: 21 @9447 has 86 MA's), (27, 9462), (47, 9561), (71, 9651), (85, 9726), (96, 9783), (99, 9792), (116, 9855), (120, 9870), (122, 9879), (146, 9963), (158, 10008), (169, 10038), (179, 10080), (191, 10128), (210, 10188), (232, 10245), (273, 10332), (287, 10362), (288, 10365), (292, 10377), (336, 10509), (337, 10515), (354, 10566), (374, 10617), (375, 10620), (389, 10653), (394, 10668), (398, 10680), (410, 10719), (432, 10773), (440, 10794), (442, 10800), (472, 10872), (474, 10878), (486, 10914), (487, 10917), (503, 10971), (525, 11034), (529, 11046), (535, 11064), (559, 11136), (570, 11166), (583, 11202), (590, 11226), (600, 11265), (608, 11301), (611, 11310), (618, 11331), (638, 11430), (639, 11433), (650, 11481), (675, 11571), (679, 11586), (700, 11631), (709, 11658), (715, 11676), (722, 11697), (727, 11715), (732, 11724), (738, 11745), (740, 11751), (743, 11760), (760, 11817), (768, 11844), (769, 11847),

Gene: Pajaza_16 Start: 9601, Stop: 11994, Start Num: 21

Candidate Starts for Pajaza_16:

(Start: 21 @9601 has 86 MA's), (56, 9754), (71, 9805), (85, 9880), (86, 9883), (96, 9937), (120, 10021), (122, 10030), (127, 10051), (146, 10114), (158, 10159), (173, 10201), (191, 10270), (210, 10330), (245, 10408), (292, 10519), (308, 10564), (310, 10570), (337, 10657), (374, 10759), (394, 10810), (395, 10813), (415, 10870), (525, 11176), (529, 11188), (559, 11278), (570, 11308), (572, 11311), (600, 11407), (623, 11506), (634, 11554), (657, 11644), (675, 11713), (700, 11773), (715, 11818), (738, 11884), (740, 11890), (743, 11899), (760, 11956),

Gene: PandaPo_16 Start: 10713, Stop: 12947, Start Num: 14

Candidate Starts for PandaPo_16:

(Start: 14 @10713 has 63 MA's), (53, 10869), (54, 10878), (61, 10905), (75, 10959), (78, 10971), (87, 11019), (113, 11136), (138, 11217), (139, 11220), (144, 11250), (167, 11334), (181, 11391), (187, 11415), (201, 11475), (227, 11544), (233, 11562), (292, 11613), (318, 11634), (327, 11655), (374, 11700), (425, 11796), (428, 11805), (444, 11853), (450, 11862), (482, 11949), (517, 12063), (550, 12150), (563, 12195), (568, 12210), (636, 12330), (639, 12342), (655, 12408), (666, 12450), (669, 12462), (676, 12486), (684, 12507), (689, 12516), (697, 12537), (712, 12579), (742, 12669), (749, 12699), (769, 12753), (800, 12882),

Gene: PaoPu_12 Start: 7540, Stop: 9645, Start Num: 32

Candidate Starts for PaoPu_12:

(Start: 32 @7540 has 142 MA's), (Start: 38 @7561 has 3 MA's), (80, 7738), (81, 7747), (85, 7771), (101, 7843), (106, 7867), (109, 7873), (149, 8023), (156, 8044), (158, 8056), (160, 8065), (212, 8272), (218, 8290), (270, 8377), (298, 8446), (313, 8458), (328, 8506), (346, 8536), (350, 8551), (363, 8587), (374, 8614), (384, 8635), (392, 8659), (400, 8683), (402, 8689), (410, 8716), (426, 8749), (439, 8788), (449, 8815), (456, 8836), (462, 8851), (476, 8878), (477, 8881), (484, 8902), (487, 8914), (489, 8920), (503, 8968), (515, 9004), (531, 9052), (541, 9079), (550, 9100), (570, 9163), (580, 9187), (626, 9244), (653, 9349), (659, 9370), (661, 9382), (673, 9424), (682, 9445), (693, 9466), (745, 9595),

Gene: Papafritta_17 Start: 9654, Stop: 11924, Start Num: 20

Candidate Starts for Papafritta_17:

(Start: 20 @9654 has 123 MA's), (47, 9771), (54, 9801), (68, 9849), (71, 9861), (81, 9912), (85, 9936), (96, 9993), (120, 10080), (122, 10089), (146, 10173), (158, 10218), (168, 10245), (169, 10248), (191, 10338), (210, 10398), (232, 10455), (245, 10476), (287, 10572), (288, 10575), (304, 10617), (328, 10698), (336, 10719), (339, 10731), (350, 10764), (380, 10842), (384, 10848), (394, 10878), (406, 10917), (419, 10950), (422, 10956), (428, 10968), (432, 10983), (437, 10995), (440, 11004), (442, 11010), (460, 11058), (472, 11082), (474, 11088), (486, 11124), (503, 11181), (559, 11346), (580, 11400), (630, 11478), (638, 11508), (639, 11511), (650, 11559), (675, 11649), (679, 11664), (700, 11706), (703, 11718), (710, 11733), (740, 11820), (743, 11829), (760, 11886),

Gene: ParleG_17 Start: 9364, Stop: 11634, Start Num: 20

Candidate Starts for ParleG_17:

(Start: 20 @9364 has 123 MA's), (47, 9481), (54, 9511), (71, 9571), (81, 9622), (85, 9646), (96, 9703), (120, 9790), (122, 9799), (146, 9883), (158, 9928), (168, 9955), (169, 9958), (191, 10048), (210, 10108), (232, 10165), (245, 10186), (287, 10282), (288, 10285), (304, 10327), (328, 10408), (336, 10429), (339, 10441), (350, 10474), (380, 10552), (384, 10558), (394, 10588), (406, 10627), (419, 10660), (422, 10666), (428, 10678), (432, 10693), (437, 10705), (440, 10714), (442, 10720), (460, 10768), (486, 10834), (503, 10891), (559, 11056), (580, 11110), (630, 11188), (638, 11218), (639, 11221), (650, 11269), (675, 11359), (679, 11374), (703, 11428), (710, 11443), (740, 11530), (743, 11539), (760, 11596),

Gene: PartyCup_18 Start: 12644, Stop: 15199, Start Num: 12

Candidate Starts for PartyCup_18:

(6, 12623), (Start: 12 @12644 has 84 MA's), (26, 12692), (45, 12773), (53, 12797), (72, 12869), (82, 12917), (84, 12932), (85, 12938), (123, 13100), (140, 13145), (151, 13196), (153, 13199), (163, 13229), (197, 13367), (233, 13490), (250, 13550), (257, 13568), (261, 13583), (276, 13634), (352, 13865), (403, 13934), (414, 13958), (423, 13976), (428, 13982), (447, 14036), (454, 14048), (464, 14069), (472, 14093), (500, 14180), (507, 14204), (509, 14210), (510, 14213), (514, 14225), (521, 14246), (522, 14249), (524, 14255), (526, 14261), (532, 14279), (534, 14282), (536, 14288), (552, 14333), (555, 14342), (560, 14360), (567, 14381), (570, 14390), (573, 14399), (588, 14432), (592, 14435), (594, 14444), (596, 14447), (610, 14498), (636, 14588), (663, 14696), (666, 14708), (671, 14729), (672, 14732), (709, 14828), (710, 14831), (726, 14885), (739, 14924), (755, 14981), (770, 15023), (788, 15071), (795, 15113), (801, 15143),

Gene: Peep_17 Start: 9353, Stop: 11623, Start Num: 20

Candidate Starts for Peep_17:

(Start: 20 @9353 has 123 MA's), (47, 9470), (54, 9500), (81, 9611), (85, 9635), (96, 9692), (116, 9764), (120, 9779), (122, 9788), (146, 9872), (158, 9917), (169, 9947), (191, 10037), (210, 10097), (232, 10154), (245, 10175), (287, 10271), (288, 10274), (304, 10316), (328, 10397), (336, 10418), (339, 10430), (350, 10463), (384, 10547), (394, 10577), (406, 10616), (419, 10649), (422, 10655), (432, 10682), (437, 10694), (440, 10703), (442, 10709), (455, 10745), (460, 10757), (474, 10787), (486, 10823), (503, 10880), (535, 10973), (559, 11045), (580, 11099), (630, 11177), (638, 11207), (639, 11210), (650, 11258), (662, 11300), (675, 11348), (679, 11363), (700, 11405), (740, 11519), (743, 11528), (760, 11585),

Gene: Penta_17 Start: 9798, Stop: 12236, Start Num: 21

Candidate Starts for Penta_17:

(Start: 21 @9798 has 86 MA's), (69, 9990), (85, 10074), (96, 10131), (102, 10149), (108, 10173), (122, 10227), (127, 10248), (146, 10311), (158, 10356), (178, 10416), (183, 10434), (191, 10467), (210, 10527), (219, 10557), (222, 10563), (238, 10602), (245, 10623), (246, 10626), (273, 10689), (287, 10719), (288, 10722), (292, 10734), (308, 10779), (310, 10785), (328, 10845), (336, 10866), (353, 10920), (354, 10923), (384, 10995), (389, 11010), (410, 11076), (432, 11130), (442, 11157), (453, 11187), (456, 11196), (474, 11235), (479, 11247), (487, 11274), (492, 11289), (494, 11295), (497, 11307), (503, 11328), (514, 11361), (525, 11391), (529, 11403), (575, 11538), (590, 11583), (594, 11601), (608, 11658), (616, 11679), (630, 11757), (638, 11787), (639, 11790), (653, 11844), (656, 11856), (678, 11940), (679, 11943), (685, 11955), (692, 11973), (709, 12018), (750, 12147), (754, 12162), (772, 12219),

Gene: Peppino_17 Start: 9762, Stop: 12029, Start Num: 20

Candidate Starts for Peppino_17:

(Start: 20 @9762 has 123 MA's), (54, 9909), (72, 9972), (81, 10020), (85, 10044), (96, 10101), (99, 10110), (116, 10173), (118, 10182), (120, 10188), (122, 10197), (146, 10281), (158, 10326), (169, 10356), (191, 10446), (210, 10506), (232, 10563), (245, 10584), (287, 10680), (288, 10683), (292, 10695), (308, 10740), (328, 10806), (336, 10827), (339, 10839), (350, 10872), (384, 10956), (394, 10986), (406, 11025), (410, 11037), (432, 11091), (440, 11112), (442, 11118), (460, 11166), (471,

11187), (486, 11232), (503, 11289), (535, 11382), (559, 11454), (580, 11508), (630, 11586), (638, 11616), (639, 11619), (650, 11667), (662, 11709), (675, 11757), (679, 11772), (700, 11814), (703, 11826), (740, 11925), (743, 11934), (760, 11991),

Gene: Percival_15 Start: 10890, Stop: 13811, Start Num: 13

Candidate Starts for Percival_15:

(Start: 13 @10890 has 7 MA's), (57, 11073), (64, 11097), (79, 11169), (100, 11277), (114, 11337), (161, 11532), (193, 11667), (198, 11691), (199, 11694), (238, 11820), (242, 11829), (252, 11871), (269, 11937), (309, 12084), (326, 12144), (356, 12243), (373, 12294), (382, 12324), (408, 12408), (429, 12459), (440, 12492), (497, 12690), (527, 12783), (536, 12810), (548, 12843), (554, 12864), (564, 12897), (574, 12927), (587, 12975), (602, 13026), (638, 13158), (676, 13305), (724, 13437), (755, 13539), (775, 13596), (779, 13605), (796, 13698), (804, 13740), (812, 13776),

Gene: PermaG_20 Start: 13551, Stop: 15539, Start Num: 24

Candidate Starts for PermaG_20:

(Start: 24 @13551 has 21 MA's), (36, 13590), (64, 13701), (69, 13716), (72, 13728), (113, 13920), (120, 13944), (132, 13986), (154, 14076), (157, 14085), (168, 14127), (185, 14193), (203, 14274), (208, 14289), (214, 14313), (280, 14385), (296, 14400), (337, 14502), (350, 14526), (417, 14595), (433, 14628), (475, 14694), (547, 14826), (592, 14853), (623, 14925), (629, 14958), (637, 14985), (638, 14991), (644, 15024), (727, 15246), (739, 15282), (747, 15312), (766, 15372), (808, 15513),

Gene: Phanita_16 Start: 9430, Stop: 11838, Start Num: 21

Candidate Starts for Phanita_16:

(Start: 21 @9430 has 86 MA's), (27, 9445), (47, 9544), (71, 9634), (85, 9709), (96, 9766), (99, 9775), (116, 9838), (120, 9853), (122, 9862), (146, 9946), (158, 9991), (169, 10021), (179, 10063), (191, 10111), (210, 10171), (232, 10228), (273, 10315), (287, 10345), (288, 10348), (292, 10360), (336, 10492), (337, 10498), (354, 10549), (374, 10600), (375, 10603), (384, 10621), (389, 10636), (394, 10651), (398, 10663), (410, 10702), (432, 10756), (440, 10777), (442, 10783), (472, 10855), (474, 10861), (486, 10897), (487, 10900), (503, 10954), (525, 11017), (529, 11029), (535, 11047), (559, 11119), (570, 11149), (580, 11173), (590, 11209), (600, 11248), (608, 11284), (611, 11293), (618, 11314), (638, 11413), (639, 11416), (650, 11464), (675, 11554), (679, 11569), (700, 11614), (709, 11641), (715, 11659), (722, 11680), (727, 11698), (732, 11707), (738, 11728), (743, 11743), (760, 11800), (768, 11827), (769, 11830),

Gene: Pherbot_17 Start: 9584, Stop: 11992, Start Num: 21

Candidate Starts for Pherbot_17:

(Start: 21 @9584 has 86 MA's), (47, 9698), (56, 9737), (71, 9788), (72, 9791), (81, 9839), (85, 9863), (96, 9920), (108, 9962), (120, 10007), (122, 10016), (146, 10100), (158, 10145), (169, 10175), (176, 10208), (179, 10217), (191, 10265), (210, 10325), (232, 10382), (287, 10499), (288, 10502), (292, 10514), (308, 10559), (327, 10622), (328, 10625), (333, 10637), (336, 10646), (337, 10652), (354, 10703), (374, 10754), (375, 10757), (384, 10775), (389, 10790), (394, 10805), (419, 10877), (430, 10901), (442, 10937), (487, 11054), (503, 11108), (514, 11141), (525, 11171), (570, 11303), (574, 11315), (580, 11327), (592, 11372), (598, 11393), (603, 11414), (611, 11447), (616, 11459), (618, 11468), (619, 11471), (622, 11492), (638, 11567), (639, 11570), (650, 11618), (675, 11708), (695, 11756), (707, 11792), (712, 11804), (740, 11888), (743, 11897), (760, 11954),

Gene: Pherferi_17 Start: 9364, Stop: 11634, Start Num: 20

Candidate Starts for Pherferi_17:

(Start: 20 @9364 has 123 MA's), (47, 9481), (54, 9511), (71, 9571), (81, 9622), (85, 9646), (96, 9703), (120, 9790), (122, 9799), (146, 9883), (158, 9928), (168, 9955), (169, 9958), (191, 10048), (210, 10108), (232, 10165), (245, 10186), (287, 10282), (288, 10285), (304, 10327), (328, 10408), (336, 10429), (339, 10441), (350, 10474), (380, 10552), (384, 10558), (394, 10588), (406, 10627), (419, 10660), (422, 10666), (428, 10678), (432, 10693), (437, 10705), (440, 10714), (442, 10720), (460,

10768), (486, 10834), (503, 10891), (559, 11056), (580, 11110), (630, 11188), (638, 11218), (639, 11221), (650, 11269), (675, 11359), (679, 11374), (703, 11428), (710, 11443), (740, 11530), (743, 11539), (760, 11596),

Gene: Phiderman_17 Start: 9361, Stop: 11631, Start Num: 20

Candidate Starts for Phiderman_17:

(Start: 20 @9361 has 123 MA's), (47, 9478), (54, 9508), (71, 9568), (81, 9619), (85, 9643), (96, 9700), (120, 9787), (122, 9796), (146, 9880), (158, 9925), (168, 9952), (169, 9955), (191, 10045), (210, 10105), (232, 10162), (245, 10183), (287, 10279), (288, 10282), (304, 10324), (328, 10405), (336, 10426), (339, 10438), (350, 10471), (380, 10549), (384, 10555), (394, 10585), (406, 10624), (419, 10657), (422, 10663), (428, 10675), (432, 10690), (437, 10702), (440, 10711), (442, 10717), (460, 10765), (472, 10789), (474, 10795), (486, 10831), (503, 10888), (559, 11053), (580, 11107), (630, 11185), (638, 11215), (639, 11218), (650, 11266), (675, 11356), (679, 11371), (703, 11425), (710, 11440), (740, 11527), (743, 11536), (760, 11593),

Gene: PhillyPhantom_17 Start: 9771, Stop: 12038, Start Num: 20

Candidate Starts for PhillyPhantom_17:

(Start: 20 @9771 has 123 MA's), (54, 9918), (72, 9981), (81, 10029), (85, 10053), (96, 10110), (99, 10119), (116, 10182), (118, 10191), (120, 10197), (122, 10206), (146, 10290), (158, 10335), (169, 10365), (191, 10455), (210, 10515), (232, 10572), (245, 10593), (287, 10689), (288, 10692), (292, 10704), (308, 10749), (328, 10815), (336, 10836), (339, 10848), (350, 10881), (384, 10965), (394, 10995), (406, 11034), (410, 11046), (432, 11100), (440, 11121), (442, 11127), (460, 11175), (471, 11196), (486, 11241), (503, 11298), (535, 11391), (580, 11517), (630, 11595), (638, 11625), (639, 11628), (650, 11676), (675, 11766), (679, 11781), (695, 11811), (740, 11934), (743, 11943), (760, 12000),

Gene: Phireproof_17 Start: 9364, Stop: 11634, Start Num: 20

Candidate Starts for Phireproof_17:

(Start: 20 @9364 has 123 MA's), (47, 9481), (54, 9511), (71, 9571), (81, 9622), (85, 9646), (96, 9703), (120, 9790), (122, 9799), (146, 9883), (158, 9928), (168, 9955), (169, 9958), (191, 10048), (210, 10108), (232, 10165), (245, 10186), (287, 10282), (288, 10285), (304, 10327), (328, 10408), (336, 10429), (339, 10441), (350, 10474), (380, 10552), (384, 10558), (394, 10588), (406, 10627), (419, 10660), (422, 10666), (428, 10678), (432, 10693), (437, 10705), (440, 10714), (442, 10720), (460, 10768), (486, 10834), (503, 10891), (559, 11056), (580, 11110), (630, 11188), (638, 11218), (639, 11221), (650, 11269), (675, 11359), (679, 11374), (703, 11428), (710, 11443), (740, 11530), (743, 11539), (760, 11596),

Gene: Phives_17 Start: 11806, Stop: 14130, Start Num: 14

Candidate Starts for Phives_17:

(Start: 14 @11806 has 63 MA's), (53, 11962), (54, 11971), (75, 12052), (87, 12112), (95, 12157), (113, 12229), (128, 12289), (138, 12310), (139, 12313), (144, 12343), (158, 12397), (167, 12427), (181, 12484), (187, 12508), (201, 12568), (202, 12574), (329, 12793), (410, 12922), (425, 12952), (428, 12961), (444, 13009), (454, 13030), (468, 13063), (482, 13105), (494, 13144), (512, 13204), (517, 13219), (547, 13297), (564, 13354), (628, 13453), (630, 13465), (633, 13474), (641, 13507), (648, 13540), (649, 13543), (663, 13594), (709, 13726), (710, 13729), (744, 13840), (755, 13879), (778, 13939), (791, 13990), (795, 14029),

Gene: PhredFlintston_17 Start: 9364, Stop: 11634, Start Num: 20

Candidate Starts for PhredFlintston_17:

(Start: 20 @9364 has 123 MA's), (47, 9481), (54, 9511), (71, 9571), (81, 9622), (85, 9646), (96, 9703), (120, 9790), (122, 9799), (146, 9883), (158, 9928), (168, 9955), (169, 9958), (191, 10048), (210, 10108), (232, 10165), (245, 10186), (287, 10282), (288, 10285), (304, 10327), (328, 10408), (336, 10429), (339, 10441), (350, 10474), (380, 10552), (384, 10558), (394, 10588), (406, 10627), (419,

10660), (422, 10666), (428, 10678), (432, 10693), (437, 10705), (440, 10714), (442, 10720), (460, 10768), (486, 10834), (503, 10891), (559, 11056), (580, 11110), (630, 11188), (638, 11218), (639, 11221), (650, 11269), (675, 11359), (679, 11374), (703, 11428), (710, 11443), (740, 11530), (743, 11539), (760, 11596),

Gene: Phriends_17 Start: 9364, Stop: 11634, Start Num: 20

Candidate Starts for Phriends_17:

(Start: 20 @9364 has 123 MA's), (47, 9481), (54, 9511), (71, 9571), (81, 9622), (85, 9646), (96, 9703), (120, 9790), (122, 9799), (146, 9883), (158, 9928), (168, 9955), (169, 9958), (191, 10048), (210, 10108), (232, 10165), (245, 10186), (287, 10282), (288, 10285), (304, 10327), (328, 10408), (336, 10429), (339, 10441), (350, 10474), (380, 10552), (384, 10558), (394, 10588), (406, 10627), (419, 10660), (422, 10666), (432, 10693), (437, 10705), (440, 10714), (442, 10720), (460, 10768), (472, 10792), (474, 10798), (486, 10834), (503, 10891), (559, 11056), (580, 11110), (630, 11188), (638, 11218), (639, 11221), (650, 11269), (675, 11359), (679, 11374), (700, 11416), (703, 11428), (710, 11443), (740, 11530), (743, 11539), (760, 11596),

Gene: Picconator_12 Start: 7546, Stop: 9651, Start Num: 32

Candidate Starts for Picconator_12:

(Start: 32 @7546 has 142 MA's), (Start: 38 @7567 has 3 MA's), (80, 7744), (81, 7753), (85, 7777), (101, 7849), (106, 7873), (109, 7879), (149, 8029), (156, 8050), (158, 8062), (160, 8071), (212, 8278), (218, 8296), (270, 8383), (298, 8452), (313, 8464), (328, 8512), (346, 8542), (350, 8557), (363, 8593), (374, 8620), (384, 8641), (392, 8665), (400, 8689), (402, 8695), (410, 8722), (426, 8755), (439, 8794), (449, 8821), (456, 8842), (462, 8857), (476, 8884), (477, 8887), (484, 8908), (487, 8920), (489, 8926), (503, 8974), (529, 9049), (531, 9058), (541, 9085), (550, 9106), (570, 9169), (580, 9193), (626, 9250), (653, 9355), (659, 9376), (661, 9388), (673, 9430), (682, 9451), (693, 9472),

Gene: Picnic_12 Start: 7540, Stop: 9645, Start Num: 32

Candidate Starts for Picnic_12:

(Start: 32 @7540 has 142 MA's), (Start: 38 @7561 has 3 MA's), (80, 7738), (81, 7747), (85, 7771), (101, 7843), (106, 7867), (109, 7873), (149, 8023), (156, 8044), (158, 8056), (160, 8065), (212, 8272), (218, 8290), (270, 8377), (298, 8446), (313, 8458), (328, 8506), (346, 8536), (350, 8551), (363, 8587), (374, 8614), (384, 8635), (392, 8659), (400, 8683), (402, 8689), (410, 8716), (426, 8749), (439, 8788), (449, 8815), (456, 8836), (462, 8851), (476, 8878), (477, 8881), (484, 8902), (487, 8914), (489, 8920), (503, 8968), (515, 9004), (531, 9052), (541, 9079), (550, 9100), (570, 9163), (580, 9187), (626, 9244), (653, 9349), (659, 9370), (661, 9382), (673, 9424), (682, 9445), (693, 9466), (745, 9595),

Gene: Pikmin_16 Start: 9601, Stop: 11994, Start Num: 21

Candidate Starts for Pikmin_16:

(Start: 21 @9601 has 86 MA's), (56, 9754), (71, 9805), (85, 9880), (86, 9883), (96, 9937), (120, 10021), (122, 10030), (127, 10051), (146, 10114), (158, 10159), (173, 10201), (191, 10270), (210, 10330), (245, 10408), (292, 10519), (308, 10564), (310, 10570), (337, 10657), (374, 10759), (394, 10810), (395, 10813), (415, 10870), (525, 11176), (529, 11188), (559, 11278), (570, 11308), (572, 11311), (600, 11407), (623, 11506), (634, 11554), (638, 11572), (657, 11644), (675, 11713), (700, 11773), (715, 11818), (738, 11884), (740, 11890), (743, 11899), (760, 11956),

Gene: PinkFriday_14 Start: 9750, Stop: 12308, Start Num: 12

Candidate Starts for PinkFriday_14:

(Start: 12 @9750 has 84 MA's), (15, 9759), (45, 9879), (82, 10023), (84, 10038), (123, 10206), (151, 10302), (166, 10347), (176, 10392), (226, 10575), (233, 10596), (237, 10605), (240, 10611), (243, 10623), (250, 10656), (276, 10743), (402, 11037), (411, 11058), (414, 11064), (423, 11082), (428, 11088), (436, 11112), (460, 11169), (471, 11196), (481, 11226), (483, 11232), (499, 11283), (503, 11298), (507, 11310), (510, 11319), (513, 11328), (522, 11355), (526, 11367), (529, 11376), (534, 11388), (536, 11394), (555, 11448), (560, 11466), (566, 11484), (567, 11487), (570, 11496), (573,

11505), (582, 11517), (588, 11538), (592, 11541), (596, 11553), (599, 11568), (626, 11652), (627, 11658), (636, 11694), (649, 11751), (663, 11802), (666, 11814), (678, 11859), (709, 11934), (710, 11937), (719, 11967), (720, 11970), (739, 12030), (744, 12048), (753, 12078), (755, 12087), (763, 12111), (767, 12123), (795, 12219), (801, 12249),

Gene: PitaDog_14 Start: 9708, Stop: 12269, Start Num: 12

Candidate Starts for PitaDog_14:

(6, 9687), (Start: 12 @9708 has 84 MA's), (26, 9756), (45, 9837), (53, 9861), (72, 9933), (82, 9981), (84, 9996), (85, 10002), (123, 10164), (151, 10260), (163, 10293), (197, 10431), (218, 10509), (233, 10554), (237, 10563), (250, 10614), (257, 10632), (267, 10668), (335, 10884), (391, 10974), (402, 10995), (414, 11022), (423, 11040), (428, 11046), (436, 11070), (439, 11079), (460, 11127), (471, 11154), (481, 11184), (499, 11241), (503, 11256), (507, 11268), (509, 11274), (510, 11277), (513, 11286), (522, 11313), (526, 11325), (529, 11334), (534, 11346), (536, 11352), (546, 11376), (552, 11397), (555, 11406), (559, 11421), (567, 11445), (573, 11463), (588, 11496), (592, 11499), (596, 11511), (627, 11616), (636, 11652), (663, 11760), (666, 11772), (672, 11796), (709, 11892), (710, 11895), (720, 11928), (726, 11949), (739, 11988), (744, 12006), (753, 12036), (755, 12045), (763, 12069), (789, 12144), (801, 12210),

Gene: Pixelle_16 Start: 10749, Stop: 13073, Start Num: 14

Candidate Starts for Pixelle_16:

(Start: 14 @10749 has 63 MA's), (53, 10905), (54, 10914), (75, 10995), (87, 11055), (95, 11100), (113, 11172), (138, 11253), (139, 11256), (144, 11286), (158, 11340), (167, 11370), (181, 11427), (187, 11451), (200, 11505), (201, 11511), (202, 11517), (329, 11736), (428, 11904), (444, 11952), (454, 11973), (468, 12006), (482, 12048), (494, 12087), (512, 12147), (517, 12162), (541, 12228), (586, 12351), (633, 12417), (635, 12426), (648, 12483), (649, 12486), (663, 12537), (709, 12669), (710, 12672), (744, 12783), (755, 12822), (763, 12846), (795, 12972),

Gene: PoRanda_12 Start: 7615, Stop: 9720, Start Num: 32

Candidate Starts for PoRanda_12:

(Start: 32 @7615 has 142 MA's), (Start: 38 @7636 has 3 MA's), (80, 7813), (81, 7822), (85, 7846), (101, 7918), (106, 7942), (137, 8041), (149, 8098), (156, 8119), (158, 8131), (160, 8140), (212, 8347), (218, 8365), (270, 8452), (298, 8521), (313, 8533), (328, 8581), (346, 8611), (350, 8626), (370, 8680), (384, 8710), (385, 8713), (392, 8734), (402, 8764), (410, 8791), (426, 8824), (439, 8863), (449, 8890), (451, 8896), (456, 8911), (462, 8926), (477, 8956), (484, 8977), (487, 8989), (489, 8995), (503, 9043), (515, 9079), (531, 9127), (541, 9154), (550, 9175), (570, 9238), (580, 9262), (626, 9319), (653, 9424), (659, 9445), (661, 9457), (673, 9499), (682, 9520), (693, 9541),

Gene: Pocket_17 Start: 9652, Stop: 11922, Start Num: 20

Candidate Starts for Pocket_17:

(Start: 20 @9652 has 123 MA's), (47, 9769), (54, 9799), (71, 9859), (81, 9910), (85, 9934), (96, 9991), (120, 10078), (122, 10087), (146, 10171), (158, 10216), (168, 10243), (169, 10246), (191, 10336), (210, 10396), (232, 10453), (245, 10474), (287, 10570), (288, 10573), (304, 10615), (328, 10696), (336, 10717), (339, 10729), (350, 10762), (380, 10840), (384, 10846), (394, 10876), (406, 10915), (419, 10948), (422, 10954), (428, 10966), (432, 10981), (437, 10993), (440, 11002), (442, 11008), (460, 11056), (472, 11080), (474, 11086), (486, 11122), (503, 11179), (559, 11344), (580, 11398), (630, 11476), (639, 11509), (650, 11557), (675, 11647), (679, 11662), (700, 11704), (703, 11716), (710, 11731), (740, 11818), (743, 11827), (760, 11884),

Gene: Pondwater_12 Start: 7540, Stop: 9645, Start Num: 32

Candidate Starts for Pondwater_12:

(Start: 32 @7540 has 142 MA's), (Start: 38 @7561 has 3 MA's), (80, 7738), (81, 7747), (85, 7771), (101, 7843), (106, 7867), (109, 7873), (149, 8023), (156, 8044), (158, 8056), (160, 8065), (212, 8272), (218, 8290), (270, 8377), (298, 8446), (313, 8458), (328, 8506), (346, 8536), (350, 8551), (363, 8587),

(374, 8614), (384, 8635), (392, 8659), (400, 8683), (402, 8689), (410, 8716), (426, 8749), (439, 8788), (449, 8815), (456, 8836), (462, 8851), (476, 8878), (477, 8881), (484, 8902), (487, 8914), (489, 8920), (503, 8968), (515, 9004), (531, 9052), (541, 9079), (550, 9100), (570, 9163), (580, 9187), (626, 9244), (653, 9349), (659, 9370), (661, 9382), (673, 9424), (682, 9445), (693, 9466), (745, 9595),

Gene: Potatoes_18 Start: 12619, Stop: 15180, Start Num: 12

Candidate Starts for Potatoes_18:

(6, 12598), (Start: 12 @12619 has 84 MA's), (26, 12667), (34, 12700), (45, 12748), (53, 12772), (55, 12784), (72, 12844), (82, 12892), (84, 12907), (85, 12913), (113, 13033), (123, 13075), (149, 13168), (151, 13171), (153, 13174), (163, 13204), (175, 13258), (212, 13399), (218, 13420), (226, 13444), (233, 13465), (237, 13474), (250, 13525), (257, 13543), (263, 13567), (313, 13729), (373, 13873), (402, 13906), (414, 13933), (423, 13951), (428, 13957), (436, 13981), (439, 13990), (460, 14038), (471, 14065), (479, 14089), (481, 14095), (483, 14101), (499, 14152), (503, 14167), (507, 14179), (509, 14185), (510, 14188), (513, 14197), (522, 14224), (526, 14236), (529, 14245), (534, 14257), (536, 14263), (544, 14284), (555, 14317), (567, 14356), (588, 14407), (592, 14410), (594, 14419), (596, 14422), (599, 14437), (626, 14521), (627, 14527), (636, 14563), (663, 14671), (666, 14683), (672, 14707), (709, 14803), (710, 14806), (726, 14860), (739, 14899), (753, 14947), (755, 14956), (763, 14980), (770, 14998), (788, 15049), (793, 15073), (795, 15091), (801, 15121),

Gene: Powerpuff_16 Start: 10781, Stop: 13096, Start Num: 14

Candidate Starts for Powerpuff_16:

(Start: 14 @10781 has 63 MA's), (53, 10937), (54, 10946), (75, 11027), (78, 11039), (87, 11087), (88, 11090), (95, 11132), (113, 11204), (138, 11285), (139, 11288), (144, 11318), (158, 11372), (167, 11402), (181, 11459), (187, 11483), (201, 11543), (329, 11768), (399, 11864), (425, 11927), (428, 11936), (444, 11984), (450, 11993), (454, 12005), (468, 12038), (482, 12080), (494, 12119), (512, 12179), (561, 12320), (598, 12395), (611, 12407), (633, 12449), (635, 12458), (641, 12482), (659, 12551), (663, 12569), (701, 12680), (709, 12701), (710, 12704), (720, 12737), (744, 12815), (755, 12854), (778, 12914), (785, 12944), (795, 12995), (807, 13040), (814, 13085),

Gene: Preamble_14 Start: 9721, Stop: 12279, Start Num: 12

Candidate Starts for Preamble_14:

(6, 9700), (Start: 12 @9721 has 84 MA's), (26, 9769), (45, 9850), (72, 9946), (81, 9991), (84, 10009), (85, 10015), (118, 10156), (123, 10177), (140, 10222), (151, 10273), (153, 10276), (163, 10306), (209, 10489), (233, 10567), (237, 10576), (240, 10582), (243, 10594), (250, 10627), (262, 10669), (276, 10714), (313, 10834), (314, 10837), (373, 10975), (414, 11035), (423, 11053), (428, 11059), (438, 11089), (460, 11140), (464, 11146), (478, 11188), (483, 11203), (485, 11212), (500, 11257), (502, 11266), (509, 11287), (513, 11299), (514, 11302), (521, 11323), (522, 11326), (524, 11332), (526, 11338), (534, 11359), (536, 11365), (544, 11386), (552, 11410), (555, 11419), (560, 11437), (567, 11458), (588, 11509), (592, 11512), (594, 11521), (596, 11524), (627, 11629), (630, 11644), (635, 11662), (651, 11731), (663, 11773), (666, 11785), (671, 11806), (672, 11809), (709, 11905), (710, 11908), (726, 11962), (739, 12001), (744, 12019), (753, 12049), (755, 12058), (770, 12100), (801, 12220),

Gene: PrincePhergus_17 Start: 9588, Stop: 11996, Start Num: 21

Candidate Starts for PrincePhergus_17:

(Start: 21 @9588 has 86 MA's), (47, 9702), (81, 9843), (85, 9867), (96, 9924), (108, 9966), (118, 10005), (120, 10011), (122, 10020), (146, 10104), (158, 10149), (169, 10179), (176, 10212), (179, 10221), (191, 10269), (210, 10329), (232, 10386), (287, 10503), (288, 10506), (292, 10518), (308, 10563), (328, 10629), (333, 10641), (336, 10650), (337, 10656), (354, 10707), (374, 10758), (375, 10761), (384, 10779), (389, 10794), (419, 10881), (430, 10905), (442, 10941), (487, 11058), (503, 11112), (514, 11145), (525, 11175), (559, 11277), (570, 11307), (574, 11319), (592, 11376), (598, 11397), (603, 11418), (611, 11451), (616, 11463), (618, 11472), (619, 11475), (622, 11496), (638, 11571), (639, 11574), (650, 11622), (664, 11670), (675, 11712), (700, 11772), (707, 11796), (740,

11892), (743, 11901), (760, 11958),

Gene: Pterodactyl_14 Start: 9710, Stop: 12271, Start Num: 12

Candidate Starts for Pterodactyl_14:

(6, 9689), (Start: 12 @9710 has 84 MA's), (26, 9758), (45, 9839), (53, 9863), (72, 9935), (82, 9983), (84, 9998), (85, 10004), (123, 10166), (151, 10262), (163, 10295), (197, 10433), (218, 10511), (233, 10556), (237, 10565), (250, 10616), (257, 10634), (260, 10646), (267, 10670), (335, 10886), (402, 10997), (414, 11024), (423, 11042), (428, 11048), (436, 11072), (439, 11081), (460, 11129), (471, 11156), (481, 11186), (499, 11243), (503, 11258), (507, 11270), (509, 11276), (510, 11279), (513, 11288), (522, 11315), (526, 11327), (529, 11336), (534, 11348), (536, 11354), (546, 11378), (552, 11399), (555, 11408), (559, 11423), (567, 11447), (588, 11498), (592, 11501), (596, 11513), (618, 11588), (627, 11618), (636, 11654), (663, 11762), (666, 11774), (672, 11798), (709, 11894), (710, 11897), (720, 11930), (726, 11951), (739, 11990), (744, 12008), (753, 12038), (755, 12047), (789, 12146), (801, 12212),

Gene: Publix_12 Start: 7603, Stop: 9708, Start Num: 32

Candidate Starts for Publix_12:

(Start: 32 @7603 has 142 MA's), (Start: 38 @7624 has 3 MA's), (80, 7801), (81, 7810), (85, 7834), (101, 7906), (106, 7930), (137, 8029), (156, 8107), (158, 8119), (160, 8128), (212, 8335), (218, 8353), (270, 8440), (298, 8509), (313, 8521), (328, 8569), (346, 8599), (350, 8614), (370, 8668), (384, 8698), (385, 8701), (392, 8722), (402, 8752), (410, 8779), (426, 8812), (439, 8851), (449, 8878), (451, 8884), (456, 8899), (462, 8914), (476, 8941), (477, 8944), (484, 8965), (487, 8977), (489, 8983), (503, 9031), (515, 9067), (531, 9115), (541, 9142), (550, 9163), (570, 9226), (580, 9250), (626, 9307), (653, 9412), (659, 9433), (673, 9487), (682, 9508), (693, 9529),

Gene: Puddles3_12 Start: 7540, Stop: 9645, Start Num: 32

Candidate Starts for Puddles3_12:

(Start: 32 @7540 has 142 MA's), (Start: 38 @7561 has 3 MA's), (80, 7738), (81, 7747), (85, 7771), (101, 7843), (106, 7867), (109, 7873), (149, 8023), (156, 8044), (158, 8056), (160, 8065), (212, 8272), (218, 8290), (270, 8377), (298, 8446), (313, 8458), (328, 8506), (346, 8536), (350, 8551), (363, 8587), (374, 8614), (384, 8635), (392, 8659), (400, 8683), (402, 8689), (410, 8716), (426, 8749), (439, 8788), (449, 8815), (456, 8836), (462, 8851), (476, 8878), (477, 8881), (484, 8902), (487, 8914), (489, 8920), (503, 8968), (515, 9004), (531, 9052), (541, 9079), (550, 9100), (570, 9163), (580, 9187), (626, 9244), (653, 9349), (659, 9370), (661, 9382), (673, 9424), (682, 9445), (693, 9466), (745, 9595),

Gene: PuffyCat_12 Start: 7573, Stop: 9678, Start Num: 32

Candidate Starts for PuffyCat_12:

(Start: 32 @7573 has 142 MA's), (Start: 38 @7594 has 3 MA's), (80, 7771), (81, 7780), (85, 7804), (101, 7876), (106, 7900), (137, 7999), (149, 8056), (156, 8077), (158, 8089), (160, 8098), (212, 8305), (218, 8323), (270, 8410), (298, 8479), (313, 8491), (328, 8539), (346, 8569), (350, 8584), (384, 8668), (385, 8671), (392, 8692), (402, 8722), (410, 8749), (426, 8782), (439, 8821), (449, 8848), (451, 8854), (456, 8869), (462, 8884), (477, 8914), (484, 8935), (487, 8947), (489, 8953), (503, 9001), (515, 9037), (531, 9085), (541, 9112), (550, 9133), (570, 9196), (580, 9220), (626, 9277), (653, 9382), (659, 9403), (673, 9457), (682, 9478), (693, 9499),

Gene: Pumancara_14 Start: 9749, Stop: 12307, Start Num: 12

Candidate Starts for Pumancara_14:

(Start: 12 @9749 has 84 MA's), (15, 9758), (45, 9878), (82, 10022), (84, 10037), (123, 10205), (151, 10301), (166, 10346), (176, 10391), (226, 10574), (233, 10595), (237, 10604), (240, 10610), (243, 10622), (250, 10655), (276, 10742), (314, 10865), (339, 10940), (373, 11003), (402, 11036), (411, 11057), (414, 11063), (423, 11081), (428, 11087), (436, 11111), (454, 11153), (460, 11168), (464, 11174), (489, 11252), (500, 11285), (502, 11294), (509, 11315), (513, 11327), (522, 11354), (526, 11366), (529, 11375), (534, 11387), (536, 11393), (537, 11396), (546, 11417), (555, 11447), (560,

11465), (566, 11483), (567, 11486), (570, 11495), (573, 11504), (588, 11537), (592, 11540), (596, 11552), (599, 11567), (626, 11651), (627, 11657), (636, 11693), (649, 11750), (663, 11801), (666, 11813), (678, 11858), (709, 11933), (710, 11936), (719, 11966), (739, 12029), (753, 12077), (755, 12086), (763, 12110), (767, 12122), (801, 12248),

Gene: Pumpkins_16 Start: 10836, Stop: 13160, Start Num: 14

Candidate Starts for Pumpkins_16:

(Start: 14 @10836 has 63 MA's), (53, 10992), (54, 11001), (55, 11004), (56, 11010), (75, 11082), (87, 11142), (113, 11259), (138, 11340), (139, 11343), (144, 11373), (167, 11457), (181, 11514), (187, 11538), (201, 11598), (202, 11604), (329, 11823), (428, 11991), (444, 12039), (468, 12093), (482, 12135), (494, 12174), (547, 12327), (627, 12480), (629, 12492), (648, 12570), (649, 12573), (663, 12624), (709, 12756), (710, 12759), (720, 12792), (744, 12870), (755, 12909),

Gene: PuppyEggo_17 Start: 9362, Stop: 11632, Start Num: 20

Candidate Starts for PuppyEggo_17:

(Start: 20 @9362 has 123 MA's), (47, 9479), (54, 9509), (81, 9620), (85, 9644), (96, 9701), (116, 9773), (120, 9788), (122, 9797), (146, 9881), (158, 9926), (169, 9956), (191, 10046), (210, 10106), (232, 10163), (245, 10184), (287, 10280), (288, 10283), (304, 10325), (328, 10406), (336, 10427), (339, 10439), (350, 10472), (384, 10556), (394, 10586), (406, 10625), (419, 10658), (422, 10664), (437, 10703), (440, 10712), (442, 10718), (455, 10754), (460, 10766), (474, 10796), (486, 10832), (503, 10889), (514, 10922), (535, 10982), (559, 11054), (630, 11186), (638, 11216), (639, 11219), (650, 11267), (662, 11309), (675, 11357), (679, 11372), (700, 11414), (710, 11441), (740, 11528), (743, 11537), (760, 11594),

Gene: QuadZero_18 Start: 9885, Stop: 12326, Start Num: 21

Candidate Starts for QuadZero_18:

(Start: 21 @9885 has 86 MA's), (Start: 30 @9918 has 5 MA's), (78, 10119), (85, 10161), (96, 10218), (102, 10236), (108, 10260), (122, 10314), (127, 10335), (146, 10398), (158, 10443), (173, 10485), (178, 10503), (191, 10554), (222, 10650), (245, 10710), (258, 10752), (273, 10776), (287, 10806), (288, 10809), (291, 10818), (308, 10866), (310, 10872), (335, 10950), (341, 10971), (347, 10986), (353, 11007), (384, 11082), (385, 11085), (404, 11142), (415, 11172), (442, 11244), (453, 11274), (456, 11283), (472, 11316), (474, 11322), (479, 11334), (489, 11367), (494, 11382), (503, 11415), (514, 11448), (525, 11478), (529, 11490), (574, 11622), (590, 11670), (591, 11676), (594, 11688), (613, 11757), (616, 11766), (630, 11844), (638, 11874), (678, 12027), (679, 12030), (685, 12042), (709, 12105), (715, 12123), (730, 12168), (747, 12228), (774, 12309), (776, 12312),

Gene: Quaker_12 Start: 7533, Stop: 9638, Start Num: 32

Candidate Starts for Quaker_12:

(Start: 32 @7533 has 142 MA's), (Start: 38 @7554 has 3 MA's), (80, 7731), (81, 7740), (85, 7764), (101, 7836), (106, 7860), (109, 7866), (137, 7959), (149, 8016), (156, 8037), (158, 8049), (160, 8058), (212, 8265), (218, 8283), (270, 8370), (298, 8439), (313, 8451), (328, 8499), (346, 8529), (350, 8544), (374, 8607), (385, 8631), (392, 8652), (400, 8676), (402, 8682), (410, 8709), (426, 8742), (439, 8781), (456, 8829), (462, 8844), (476, 8871), (477, 8874), (487, 8907), (489, 8913), (503, 8961), (531, 9045), (541, 9072), (550, 9093), (570, 9156), (580, 9180), (626, 9237), (653, 9342), (659, 9363), (661, 9375), (673, 9417), (682, 9438), (693, 9459), (745, 9588),

Gene: Quartz_16 Start: 9630, Stop: 12041, Start Num: 21

Candidate Starts for Quartz_16:

(5, 9567), (Start: 21 @9630 has 86 MA's), (27, 9645), (Start: 30 @9663 has 5 MA's), (47, 9744), (70, 9828), (72, 9837), (85, 9909), (96, 9966), (116, 10038), (120, 10053), (122, 10062), (136, 10104), (146, 10146), (158, 10191), (169, 10221), (179, 10263), (191, 10311), (210, 10371), (219, 10401), (232, 10428), (273, 10515), (287, 10545), (288, 10548), (295, 10569), (314, 10626), (328, 10671), (336, 10692), (384, 10821), (403, 10878), (404, 10881), (422, 10929), (427, 10938), (432, 10956), (440,

10977), (442, 10983), (474, 11061), (486, 11097), (490, 11109), (494, 11121), (503, 11154), (513, 11184), (570, 11349), (584, 11388), (601, 11451), (622, 11538), (638, 11613), (639, 11616), (650, 11664), (662, 11706), (664, 11712), (679, 11769), (713, 11853), (715, 11859), (740, 11937), (743, 11946), (760, 12003), (768, 12030), (769, 12033),

Gene: RAP15_18 Start: 12624, Stop: 15185, Start Num: 12

Candidate Starts for RAP15_18:

(6, 12603), (Start: 12 @12624 has 84 MA's), (26, 12672), (34, 12705), (45, 12753), (53, 12777), (55, 12789), (72, 12849), (82, 12897), (84, 12912), (85, 12918), (113, 13038), (123, 13080), (151, 13176), (153, 13179), (163, 13209), (175, 13263), (176, 13266), (212, 13404), (218, 13425), (226, 13449), (233, 13470), (237, 13479), (250, 13530), (257, 13548), (313, 13734), (373, 13878), (402, 13911), (414, 13938), (423, 13956), (428, 13962), (436, 13986), (439, 13995), (460, 14043), (471, 14070), (472, 14073), (479, 14094), (481, 14100), (483, 14106), (499, 14157), (503, 14172), (507, 14184), (509, 14190), (510, 14193), (513, 14202), (522, 14229), (526, 14241), (529, 14250), (534, 14262), (536, 14268), (544, 14289), (555, 14322), (567, 14361), (588, 14412), (592, 14415), (594, 14424), (596, 14427), (599, 14442), (627, 14532), (636, 14568), (663, 14676), (672, 14712), (709, 14808), (710, 14811), (726, 14865), (739, 14904), (753, 14952), (755, 14961), (763, 14985), (770, 15003), (788, 15054), (793, 15078), (795, 15096), (801, 15126),

Gene: Raccoon_17 Start: 9768, Stop: 12035, Start Num: 20

Candidate Starts for Raccoon_17:

(Start: 20 @9768 has 123 MA's), (54, 9915), (72, 9978), (81, 10026), (85, 10050), (96, 10107), (99, 10116), (116, 10179), (118, 10188), (120, 10194), (122, 10203), (146, 10287), (158, 10332), (169, 10362), (191, 10452), (210, 10512), (232, 10569), (287, 10686), (288, 10689), (292, 10701), (308, 10746), (314, 10767), (328, 10812), (336, 10833), (339, 10845), (350, 10878), (384, 10962), (394, 10992), (405, 11028), (406, 11031), (410, 11043), (432, 11097), (440, 11118), (442, 11124), (460, 11172), (471, 11193), (486, 11238), (503, 11295), (535, 11388), (559, 11460), (580, 11514), (630, 11592), (638, 11622), (639, 11625), (650, 11673), (662, 11715), (675, 11763), (679, 11778), (700, 11820), (703, 11832), (740, 11931), (743, 11940), (760, 11997),

Gene: Rapheph_17 Start: 9364, Stop: 11634, Start Num: 20

Candidate Starts for Rapheph_17:

(Start: 20 @9364 has 123 MA's), (47, 9481), (54, 9511), (71, 9571), (81, 9622), (85, 9646), (96, 9703), (120, 9790), (122, 9799), (146, 9883), (158, 9928), (168, 9955), (169, 9958), (191, 10048), (210, 10108), (232, 10165), (245, 10186), (287, 10282), (288, 10285), (304, 10327), (328, 10408), (336, 10429), (339, 10441), (350, 10474), (380, 10552), (384, 10558), (394, 10588), (406, 10627), (419, 10660), (422, 10666), (428, 10678), (432, 10693), (437, 10705), (440, 10714), (442, 10720), (460, 10768), (486, 10834), (503, 10891), (559, 11056), (580, 11110), (630, 11188), (638, 11218), (639, 11221), (650, 11269), (675, 11359), (679, 11374), (703, 11428), (710, 11443), (740, 11530), (743, 11539), (760, 11596),

Gene: Raptor_17 Start: 9362, Stop: 11632, Start Num: 20

Candidate Starts for Raptor_17:

(Start: 20 @9362 has 123 MA's), (47, 9479), (54, 9509), (81, 9620), (85, 9644), (96, 9701), (116, 9773), (120, 9788), (122, 9797), (146, 9881), (158, 9926), (169, 9956), (191, 10046), (210, 10106), (232, 10163), (245, 10184), (287, 10280), (288, 10283), (304, 10325), (328, 10406), (336, 10427), (339, 10439), (350, 10472), (384, 10556), (394, 10586), (406, 10625), (419, 10658), (422, 10664), (437, 10703), (440, 10712), (442, 10718), (455, 10754), (460, 10766), (474, 10796), (486, 10832), (503, 10889), (514, 10922), (535, 10982), (559, 11054), (630, 11186), (638, 11216), (639, 11219), (650, 11267), (662, 11309), (675, 11357), (679, 11372), (700, 11414), (710, 11441), (740, 11528), (743, 11537), (760, 11594),

Gene: Rasovi_19 Start: 13514, Stop: 15508, Start Num: 24

Candidate Starts for Rasovi_19:

(Start: 24 @13514 has 21 MA's), (36, 13553), (64, 13664), (69, 13679), (72, 13691), (94, 13805), (113, 13883), (120, 13907), (154, 14039), (168, 14090), (185, 14156), (208, 14252), (296, 14363), (350, 14489), (412, 14549), (424, 14573), (433, 14591), (458, 14624), (529, 14771), (547, 14789), (593, 14822), (598, 14837), (626, 14903), (674, 15062), (676, 15068), (677, 15074), (709, 15152), (714, 15167), (727, 15209), (747, 15275), (770, 15344), (808, 15482),

Gene: RcigaStruga_18 Start: 12617, Stop: 15178, Start Num: 12

Candidate Starts for RcigaStruga_18:

(6, 12596), (Start: 12 @12617 has 84 MA's), (37, 12707), (45, 12746), (55, 12782), (72, 12842), (84, 12905), (123, 13073), (140, 13118), (149, 13166), (151, 13169), (153, 13172), (175, 13256), (176, 13259), (212, 13397), (233, 13463), (243, 13490), (253, 13532), (352, 13841), (373, 13874), (414, 13934), (428, 13958), (460, 14039), (464, 14045), (465, 14048), (473, 14072), (483, 14102), (489, 14123), (504, 14171), (509, 14186), (514, 14201), (522, 14225), (526, 14237), (528, 14243), (534, 14258), (536, 14264), (551, 14303), (552, 14309), (555, 14318), (560, 14336), (562, 14342), (566, 14354), (567, 14357), (570, 14366), (581, 14384), (588, 14408), (592, 14411), (596, 14423), (600, 14441), (623, 14507), (626, 14522), (633, 14552), (635, 14561), (649, 14621), (663, 14672), (672, 14708), (709, 14804), (710, 14807), (726, 14861), (739, 14900), (746, 14927), (755, 14957), (763, 14981), (780, 15023), (788, 15050), (801, 15119),

Gene: Redfield_17 Start: 9770, Stop: 12037, Start Num: 20

Candidate Starts for Redfield_17:

(Start: 20 @9770 has 123 MA's), (54, 9917), (72, 9980), (81, 10028), (85, 10052), (96, 10109), (99, 10118), (116, 10181), (118, 10190), (120, 10196), (122, 10205), (146, 10289), (158, 10334), (169, 10364), (191, 10454), (210, 10514), (232, 10571), (245, 10592), (287, 10688), (288, 10691), (292, 10703), (308, 10748), (328, 10814), (336, 10835), (339, 10847), (350, 10880), (384, 10964), (394, 10994), (406, 11033), (410, 11045), (432, 11099), (440, 11120), (442, 11126), (460, 11174), (471, 11195), (486, 11240), (503, 11297), (535, 11390), (559, 11462), (580, 11516), (630, 11594), (638, 11624), (639, 11627), (650, 11675), (662, 11717), (675, 11765), (679, 11780), (700, 11822), (703, 11834), (738, 11927), (740, 11933), (743, 11942), (760, 11999),

Gene: Reedo_16 Start: 10781, Stop: 13090, Start Num: 14

Candidate Starts for Reedo_16:

(Start: 14 @10781 has 63 MA's), (53, 10937), (54, 10946), (63, 10979), (75, 11027), (87, 11087), (113, 11204), (138, 11285), (139, 11288), (144, 11318), (158, 11372), (167, 11402), (181, 11459), (187, 11483), (195, 11513), (201, 11543), (202, 11549), (211, 11573), (231, 11636), (258, 11669), (323, 11747), (399, 11864), (476, 12062), (482, 12080), (494, 12119), (500, 12140), (512, 12179), (517, 12194), (530, 12233), (548, 12275), (568, 12341), (639, 12473), (651, 12527), (655, 12539), (675, 12614), (678, 12626), (712, 12710), (723, 12746), (742, 12800), (749, 12830), (788, 12944), (800, 13022),

Gene: RenegadeRaider_18 Start: 9587, Stop: 11995, Start Num: 21

Candidate Starts for RenegadeRaider_18:

(Start: 21 @9587 has 86 MA's), (47, 9701), (56, 9740), (81, 9842), (85, 9866), (96, 9923), (108, 9965), (118, 10004), (120, 10010), (122, 10019), (146, 10103), (158, 10148), (169, 10178), (176, 10211), (179, 10220), (191, 10268), (210, 10328), (232, 10385), (287, 10502), (288, 10505), (292, 10517), (308, 10562), (328, 10628), (333, 10640), (336, 10649), (337, 10655), (354, 10706), (374, 10757), (375, 10760), (384, 10778), (389, 10793), (419, 10880), (430, 10904), (442, 10940), (487, 11057), (503, 11111), (514, 11144), (525, 11174), (559, 11276), (570, 11306), (574, 11318), (592, 11375), (598, 11396), (603, 11417), (611, 11450), (616, 11462), (618, 11471), (619, 11474), (622, 11495), (629, 11537), (638, 11570), (639, 11573), (650, 11621), (664, 11669), (675, 11711), (700, 11771), (707, 11795), (740, 11891), (743, 11900), (760, 11957),

Gene: Renzie_17 Start: 9353, Stop: 11623, Start Num: 20

Candidate Starts for Renzie_17:

(Start: 20 @9353 has 123 MA's), (47, 9470), (54, 9500), (81, 9611), (85, 9635), (96, 9692), (116, 9764), (120, 9779), (122, 9788), (146, 9872), (158, 9917), (169, 9947), (191, 10037), (210, 10097), (232, 10154), (245, 10175), (287, 10271), (288, 10274), (304, 10316), (328, 10397), (336, 10418), (339, 10430), (350, 10463), (384, 10547), (394, 10577), (406, 10616), (419, 10649), (422, 10655), (432, 10682), (437, 10694), (440, 10703), (442, 10709), (455, 10745), (460, 10757), (474, 10787), (486, 10823), (503, 10880), (535, 10973), (559, 11045), (580, 11099), (630, 11177), (638, 11207), (639, 11210), (650, 11258), (662, 11300), (675, 11348), (679, 11363), (700, 11405), (740, 11519), (743, 11528), (760, 11585),

Gene: Rhogar_12 Start: 7546, Stop: 9651, Start Num: 32

Candidate Starts for Rhogar_12:

(Start: 32 @7546 has 142 MA's), (Start: 38 @7567 has 3 MA's), (80, 7744), (81, 7753), (85, 7777), (101, 7849), (106, 7873), (109, 7879), (149, 8029), (156, 8050), (158, 8062), (160, 8071), (212, 8278), (218, 8296), (270, 8383), (298, 8452), (313, 8464), (328, 8512), (346, 8542), (350, 8557), (363, 8593), (374, 8620), (384, 8641), (392, 8665), (400, 8689), (402, 8695), (410, 8722), (426, 8755), (439, 8794), (449, 8821), (456, 8842), (462, 8857), (476, 8884), (477, 8887), (484, 8908), (487, 8920), (489, 8926), (503, 8974), (529, 9049), (531, 9058), (541, 9085), (550, 9106), (570, 9169), (580, 9193), (626, 9250), (653, 9355), (659, 9376), (661, 9388), (673, 9430), (682, 9451), (693, 9472),

Gene: Rhysand_12 Start: 7552, Stop: 9657, Start Num: 32

Candidate Starts for Rhysand_12:

(Start: 32 @7552 has 142 MA's), (Start: 38 @7573 has 3 MA's), (80, 7750), (81, 7759), (85, 7783), (101, 7855), (106, 7879), (109, 7885), (149, 8035), (156, 8056), (158, 8068), (160, 8077), (212, 8284), (218, 8302), (270, 8389), (298, 8458), (313, 8470), (328, 8518), (346, 8548), (350, 8563), (363, 8599), (374, 8626), (384, 8647), (392, 8671), (400, 8695), (402, 8701), (410, 8728), (426, 8761), (439, 8800), (449, 8827), (456, 8848), (462, 8863), (476, 8890), (477, 8893), (484, 8914), (487, 8926), (489, 8932), (503, 8980), (529, 9055), (531, 9064), (541, 9091), (550, 9112), (570, 9175), (580, 9199), (626, 9256), (653, 9361), (659, 9382), (661, 9394), (673, 9436), (682, 9457), (693, 9478),

Gene: Riovina_14 Start: 9738, Stop: 12296, Start Num: 12

Candidate Starts for Riovina_14:

(Start: 12 @9738 has 84 MA's), (15, 9747), (22, 9777), (45, 9867), (72, 9963), (81, 10008), (84, 10026), (123, 10194), (151, 10290), (153, 10293), (156, 10308), (180, 10395), (240, 10599), (241, 10602), (262, 10686), (373, 10992), (414, 11052), (423, 11070), (428, 11076), (439, 11109), (443, 11121), (460, 11157), (471, 11184), (479, 11208), (481, 11214), (499, 11271), (506, 11295), (509, 11304), (514, 11319), (522, 11343), (526, 11355), (534, 11376), (536, 11382), (544, 11403), (552, 11427), (555, 11436), (560, 11454), (567, 11475), (569, 11481), (573, 11493), (588, 11526), (592, 11529), (596, 11541), (599, 11556), (600, 11559), (627, 11646), (648, 11736), (649, 11739), (663, 11790), (678, 11847), (683, 11856), (689, 11868), (709, 11922), (710, 11925), (726, 11979), (739, 12018), (753, 12066), (755, 12075), (763, 12099), (767, 12111), (795, 12207), (801, 12237),

Gene: Rira_12 Start: 7579, Stop: 9684, Start Num: 32

Candidate Starts for Rira_12:

(Start: 32 @7579 has 142 MA's), (Start: 38 @7600 has 3 MA's), (80, 7777), (81, 7786), (85, 7810), (101, 7882), (106, 7906), (137, 8005), (156, 8083), (158, 8095), (160, 8104), (212, 8311), (218, 8329), (270, 8416), (298, 8485), (313, 8497), (328, 8545), (346, 8575), (350, 8590), (370, 8644), (384, 8674), (385, 8677), (392, 8698), (402, 8728), (410, 8755), (426, 8788), (439, 8827), (449, 8854), (451, 8860), (456, 8875), (462, 8890), (476, 8917), (477, 8920), (484, 8941), (487, 8953), (489, 8959), (503, 9007), (515, 9043), (531, 9091), (541, 9118), (550, 9139), (570, 9202), (580, 9226), (626, 9283), (653, 9388), (659, 9409), (673, 9463), (682, 9484), (693, 9505),

Gene: Riverdale_18 Start: 12554, Stop: 15115, Start Num: 12

Candidate Starts for Riverdale_18:

(6, 12533), (Start: 12 @12554 has 84 MA's), (26, 12602), (34, 12635), (45, 12683), (53, 12707), (55, 12719), (72, 12779), (82, 12827), (84, 12842), (85, 12848), (113, 12968), (123, 13010), (151, 13106), (153, 13109), (163, 13139), (175, 13193), (212, 13334), (218, 13355), (226, 13379), (233, 13400), (237, 13409), (250, 13460), (257, 13478), (373, 13808), (402, 13841), (414, 13868), (423, 13886), (428, 13892), (436, 13916), (439, 13925), (460, 13973), (471, 14000), (481, 14030), (483, 14036), (499, 14087), (503, 14102), (507, 14114), (509, 14120), (510, 14123), (522, 14159), (526, 14171), (529, 14180), (534, 14192), (536, 14198), (544, 14219), (555, 14252), (567, 14291), (573, 14309), (588, 14342), (592, 14345), (594, 14354), (596, 14357), (599, 14372), (627, 14462), (636, 14498), (663, 14606), (672, 14642), (678, 14663), (709, 14738), (710, 14741), (726, 14795), (739, 14834), (753, 14882), (755, 14891), (763, 14915), (770, 14933), (788, 14984), (793, 15008), (795, 15026), (801, 15056),

Gene: Riyhil_17 Start: 9364, Stop: 11634, Start Num: 20

Candidate Starts for Riyhil_17:

(Start: 20 @9364 has 123 MA's), (47, 9481), (54, 9511), (71, 9571), (81, 9622), (85, 9646), (96, 9703), (120, 9790), (122, 9799), (146, 9883), (158, 9928), (168, 9955), (169, 9958), (191, 10048), (210, 10108), (232, 10165), (245, 10186), (287, 10282), (288, 10285), (304, 10327), (328, 10408), (336, 10429), (339, 10441), (350, 10474), (380, 10552), (384, 10558), (394, 10588), (406, 10627), (419, 10660), (422, 10666), (432, 10693), (437, 10705), (440, 10714), (442, 10720), (460, 10768), (472, 10792), (474, 10798), (486, 10834), (503, 10891), (559, 11056), (580, 11110), (630, 11188), (638, 11218), (639, 11221), (650, 11269), (675, 11359), (679, 11374), (700, 11416), (703, 11428), (710, 11443), (740, 11530), (743, 11539), (760, 11596),

Gene: Roberts_17 Start: 9567, Stop: 11855, Start Num: 9

Candidate Starts for Roberts_17:

(Start: 9 @9567 has 3 MA's), (Start: 11 @9570 has 8 MA's), (40, 9669), (80, 9828), (131, 10044), (168, 10188), (196, 10299), (203, 10335), (215, 10377), (322, 10515), (332, 10545), (333, 10548), (339, 10566), (373, 10608), (435, 10692), (443, 10716), (470, 10764), (484, 10806), (485, 10812), (499, 10854), (504, 10872), (518, 10914), (522, 10926), (529, 10947), (537, 10968), (540, 10977), (543, 10983), (550, 11001), (551, 11004), (559, 11034), (562, 11043), (592, 11112), (599, 11139), (600, 11142), (623, 11208), (627, 11229), (633, 11253), (639, 11277), (646, 11316), (666, 11385), (668, 11394), (676, 11421), (709, 11505), (710, 11508), (739, 11601), (742, 11607), (755, 11658), (763, 11682), (766, 11691), (783, 11736), (812, 11850),

Gene: Robinson_17 Start: 9356, Stop: 11626, Start Num: 20

Candidate Starts for Robinson_17:

(Start: 20 @9356 has 123 MA's), (47, 9473), (54, 9503), (81, 9614), (85, 9638), (96, 9695), (116, 9767), (120, 9782), (122, 9791), (146, 9875), (158, 9920), (169, 9950), (191, 10040), (210, 10100), (232, 10157), (245, 10178), (287, 10274), (288, 10277), (304, 10319), (328, 10400), (336, 10421), (339, 10433), (350, 10466), (384, 10550), (394, 10580), (406, 10619), (419, 10652), (422, 10658), (432, 10685), (437, 10697), (440, 10706), (442, 10712), (455, 10748), (460, 10760), (474, 10790), (486, 10826), (503, 10883), (535, 10976), (559, 11048), (580, 11102), (630, 11180), (638, 11210), (639, 11213), (650, 11261), (662, 11303), (675, 11351), (679, 11366), (700, 11408), (740, 11522), (743, 11531), (760, 11588),

Gene: RockScotty_16 Start: 10335, Stop: 12755, Start Num: 19

Candidate Starts for RockScotty_16:

(Start: 19 @10335 has 21 MA's), (41, 10422), (65, 10527), (69, 10539), (81, 10599), (104, 10710), (126, 10791), (160, 10917), (164, 10932), (177, 10986), (226, 11160), (251, 11244), (258, 11265), (269, 11307), (305, 11433), (312, 11454), (321, 11487), (340, 11544), (353, 11586), (358, 11601), (379, 11652), (393, 11688), (395, 11694), (431, 11796), (439, 11817), (454, 11859), (470, 11919),

(472, 11925), (487, 11973), (518, 12069), (580, 12246), (583, 12258), (597, 12309), (633, 12390),
(650, 12459), (660, 12495), (686, 12576), (694, 12591), (719, 12663), (728, 12687),

Gene: Rog141_17 Start: 9654, Stop: 11924, Start Num: 20

Candidate Starts for Rog141_17:

(Start: 20 @9654 has 123 MA's), (47, 9771), (54, 9801), (71, 9861), (81, 9912), (85, 9936), (96, 9993),
(120, 10080), (122, 10089), (146, 10173), (158, 10218), (168, 10245), (169, 10248), (191, 10338),
(210, 10398), (232, 10455), (245, 10476), (287, 10572), (288, 10575), (304, 10617), (328, 10698),
(336, 10719), (339, 10731), (350, 10764), (380, 10842), (384, 10848), (394, 10878), (406, 10917),
(419, 10950), (422, 10956), (432, 10983), (437, 10995), (440, 11004), (442, 11010), (460, 11058),
(472, 11082), (474, 11088), (486, 11124), (503, 11181), (559, 11346), (580, 11400), (630, 11478),
(638, 11508), (639, 11511), (650, 11559), (675, 11649), (679, 11664), (700, 11706), (703, 11718),
(710, 11733), (740, 11820), (743, 11829), (760, 11886),

Gene: Rootkit7_19 Start: 13340, Stop: 15328, Start Num: 24

Candidate Starts for Rootkit7_19:

(Start: 24 @13340 has 21 MA's), (36, 13379), (64, 13490), (69, 13505), (72, 13517), (113, 13709),
(120, 13733), (168, 13916), (185, 13982), (208, 14078), (214, 14102), (296, 14189), (337, 14291),
(350, 14315), (417, 14384), (433, 14417), (519, 14582), (547, 14615), (592, 14642), (597, 14660),
(634, 14762), (637, 14774), (638, 14780), (659, 14861), (727, 15035), (747, 15101), (766, 15161),
(770, 15170), (808, 15302),

Gene: RoscoWindex_12 Start: 7553, Stop: 9658, Start Num: 32

Candidate Starts for RoscoWindex_12:

(Start: 32 @7553 has 142 MA's), (Start: 38 @7574 has 3 MA's), (80, 7751), (81, 7760), (85, 7784),
(101, 7856), (106, 7880), (109, 7886), (149, 8036), (156, 8057), (158, 8069), (160, 8078), (212, 8285),
(218, 8303), (270, 8390), (298, 8459), (313, 8471), (328, 8519), (346, 8549), (350, 8564), (363, 8600),
(374, 8627), (384, 8648), (392, 8672), (400, 8696), (402, 8702), (410, 8729), (426, 8762), (439, 8801),
(449, 8828), (456, 8849), (462, 8864), (476, 8891), (477, 8894), (484, 8915), (487, 8927), (489, 8933),
(503, 8981), (529, 9056), (531, 9065), (541, 9092), (550, 9113), (570, 9176), (580, 9200), (626, 9257),
(653, 9362), (659, 9383), (661, 9395), (673, 9437), (682, 9458), (693, 9479),

Gene: RosieMae_17 Start: 9654, Stop: 11924, Start Num: 20

Candidate Starts for RosieMae_17:

(Start: 20 @9654 has 123 MA's), (47, 9771), (54, 9801), (71, 9861), (81, 9912), (85, 9936), (96, 9993),
(120, 10080), (122, 10089), (146, 10173), (158, 10218), (168, 10245), (169, 10248), (191, 10338),
(210, 10398), (232, 10455), (245, 10476), (287, 10572), (288, 10575), (304, 10617), (328, 10698),
(336, 10719), (339, 10731), (350, 10764), (380, 10842), (384, 10848), (394, 10878), (406, 10917),
(419, 10950), (422, 10956), (428, 10968), (432, 10983), (437, 10995), (440, 11004), (442, 11010),
(460, 11058), (472, 11082), (474, 11088), (486, 11124), (503, 11181), (559, 11346), (580, 11400),
(630, 11478), (638, 11508), (639, 11511), (650, 11559), (675, 11649), (679, 11664), (700, 11706),
(703, 11718), (710, 11733), (740, 11820), (743, 11829), (760, 11886),

Gene: Rozby_18 Start: 12555, Stop: 15116, Start Num: 12

Candidate Starts for Rozby_18:

(6, 12534), (Start: 12 @12555 has 84 MA's), (26, 12603), (34, 12636), (45, 12684), (53, 12708), (55,
12720), (72, 12780), (82, 12828), (84, 12843), (85, 12849), (113, 12969), (123, 13011), (151, 13107),
(153, 13110), (163, 13140), (175, 13194), (212, 13335), (218, 13356), (226, 13380), (233, 13401),
(237, 13410), (250, 13461), (257, 13479), (313, 13665), (373, 13809), (402, 13842), (414, 13869),
(423, 13887), (428, 13893), (436, 13917), (439, 13926), (460, 13974), (471, 14001), (481, 14031),
(483, 14037), (499, 14088), (503, 14103), (507, 14115), (509, 14121), (510, 14124), (522, 14160),
(526, 14172), (529, 14181), (534, 14193), (536, 14199), (544, 14220), (555, 14253), (567, 14292),
(573, 14310), (588, 14343), (592, 14346), (594, 14355), (596, 14358), (599, 14373), (627, 14463),

(636, 14499), (663, 14607), (672, 14643), (678, 14664), (709, 14739), (710, 14742), (726, 14796), (739, 14835), (753, 14883), (755, 14892), (763, 14916), (770, 14934), (788, 14985), (793, 15009), (795, 15027), (801, 15057),

Gene: SBlackberry_19 Start: 13346, Stop: 15334, Start Num: 24

Candidate Starts for SBlackberry_19:

(Start: 24 @13346 has 21 MA's), (36, 13385), (64, 13496), (69, 13511), (72, 13523), (113, 13715), (120, 13739), (168, 13922), (185, 13988), (208, 14084), (214, 14108), (296, 14195), (337, 14297), (350, 14321), (417, 14390), (433, 14423), (519, 14588), (547, 14621), (592, 14648), (597, 14666), (634, 14768), (637, 14780), (638, 14786), (659, 14867), (727, 15041), (747, 15107), (766, 15167), (770, 15176), (808, 15308),

Gene: SJay_17 Start: 9359, Stop: 11629, Start Num: 20

Candidate Starts for SJay_17:

(Start: 20 @9359 has 123 MA's), (47, 9476), (54, 9506), (71, 9566), (81, 9617), (85, 9641), (96, 9698), (120, 9785), (122, 9794), (146, 9878), (158, 9923), (168, 9950), (169, 9953), (191, 10043), (210, 10103), (232, 10160), (245, 10181), (287, 10277), (288, 10280), (292, 10292), (304, 10322), (328, 10403), (336, 10424), (339, 10436), (350, 10469), (374, 10532), (380, 10547), (384, 10553), (394, 10583), (406, 10622), (419, 10655), (422, 10661), (428, 10673), (432, 10688), (437, 10700), (440, 10709), (442, 10715), (460, 10763), (486, 10829), (503, 10886), (559, 11051), (580, 11105), (630, 11183), (638, 11213), (639, 11216), (650, 11264), (675, 11354), (679, 11369), (703, 11423), (710, 11438), (740, 11525), (743, 11534), (760, 11591),

Gene: Sabourin_16 Start: 10242, Stop: 12662, Start Num: 19

Candidate Starts for Sabourin_16:

(Start: 19 @10242 has 21 MA's), (41, 10329), (53, 10386), (65, 10434), (69, 10446), (81, 10506), (104, 10617), (126, 10698), (160, 10824), (164, 10839), (177, 10893), (226, 11067), (251, 11151), (258, 11172), (263, 11193), (269, 11214), (305, 11340), (312, 11361), (321, 11394), (340, 11451), (353, 11493), (358, 11508), (379, 11559), (393, 11595), (431, 11703), (439, 11724), (454, 11766), (459, 11778), (472, 11832), (487, 11880), (518, 11976), (572, 12132), (580, 12153), (583, 12165), (597, 12216), (650, 12366), (660, 12402), (686, 12483), (728, 12594),

Gene: Sachet_12 Start: 7540, Stop: 9645, Start Num: 32

Candidate Starts for Sachet_12:

(Start: 32 @7540 has 142 MA's), (Start: 38 @7561 has 3 MA's), (80, 7738), (81, 7747), (85, 7771), (101, 7843), (106, 7867), (109, 7873), (149, 8023), (156, 8044), (158, 8056), (160, 8065), (212, 8272), (218, 8290), (270, 8377), (298, 8446), (313, 8458), (328, 8506), (346, 8536), (350, 8551), (363, 8587), (374, 8614), (384, 8635), (392, 8659), (400, 8683), (402, 8689), (410, 8716), (426, 8749), (439, 8788), (449, 8815), (456, 8836), (462, 8851), (476, 8878), (477, 8881), (484, 8902), (487, 8914), (489, 8920), (503, 8968), (515, 9004), (531, 9052), (541, 9079), (550, 9100), (570, 9163), (580, 9187), (626, 9244), (653, 9349), (659, 9370), (661, 9382), (673, 9424), (682, 9445), (693, 9466), (745, 9595),

Gene: Sage7_12 Start: 7552, Stop: 9657, Start Num: 32

Candidate Starts for Sage7_12:

(Start: 32 @7552 has 142 MA's), (Start: 38 @7573 has 3 MA's), (80, 7750), (81, 7759), (85, 7783), (101, 7855), (106, 7879), (109, 7885), (149, 8035), (156, 8056), (158, 8068), (160, 8077), (212, 8284), (218, 8302), (270, 8389), (298, 8458), (313, 8470), (328, 8518), (346, 8548), (350, 8563), (363, 8599), (374, 8626), (384, 8647), (392, 8671), (400, 8695), (402, 8701), (410, 8728), (426, 8761), (439, 8800), (449, 8827), (456, 8848), (462, 8863), (476, 8890), (477, 8893), (484, 8914), (487, 8926), (489, 8932), (503, 8980), (529, 9055), (531, 9064), (541, 9091), (550, 9112), (570, 9175), (580, 9199), (626, 9256), (653, 9361), (659, 9382), (661, 9394), (673, 9436), (682, 9457), (693, 9478),

Gene: Salgado_67 Start: 36346, Stop: 39363, Start Num: 4

Candidate Starts for Salgado_67:

(Start: 4 @36346 has 6 MA's), (8, 36367), (16, 36397), (17, 36400), (43, 36505), (64, 36589), (66, 36598), (80, 36658), (128, 36868), (131, 36874), (132, 36877), (133, 36880), (154, 36967), (168, 37018), (178, 37060), (179, 37063), (199, 37147), (203, 37165), (252, 37315), (272, 37354), (296, 37408), (298, 37417), (326, 37507), (355, 37603), (366, 37633), (369, 37651), (371, 37654), (376, 37666), (381, 37687), (386, 37699), (403, 37750), (434, 37843), (468, 37930), (480, 37966), (484, 37978), (486, 37987), (495, 38017), (500, 38032), (502, 38041), (525, 38110), (538, 38149), (578, 38275), (598, 38350), (620, 38425), (623, 38446), (629, 38479), (630, 38482), (641, 38524), (643, 38536), (648, 38557), (663, 38611), (699, 38713), (719, 38776), (753, 38887), (763, 38920), (782, 38974), (784, 38983), (805, 39076), (810, 39085), (818, 39184), (819, 39190), (821, 39220), (822, 39259), (824, 39346),

Gene: Sansa_15 Start: 9455, Stop: 11863, Start Num: 21

Candidate Starts for Sansa_15:

(Start: 21 @9455 has 86 MA's), (27, 9470), (47, 9569), (71, 9659), (85, 9734), (96, 9791), (99, 9800), (116, 9863), (120, 9878), (122, 9887), (146, 9971), (158, 10016), (169, 10046), (179, 10088), (191, 10136), (210, 10196), (232, 10253), (273, 10340), (287, 10370), (288, 10373), (292, 10385), (333, 10508), (336, 10517), (337, 10523), (354, 10574), (374, 10625), (375, 10628), (389, 10661), (394, 10676), (398, 10688), (410, 10727), (432, 10781), (440, 10802), (442, 10808), (472, 10880), (474, 10886), (486, 10922), (487, 10925), (503, 10979), (525, 11042), (529, 11054), (535, 11072), (559, 11144), (570, 11174), (583, 11210), (590, 11234), (608, 11309), (611, 11318), (618, 11339), (638, 11438), (639, 11441), (650, 11489), (675, 11579), (679, 11594), (700, 11639), (709, 11666), (715, 11684), (722, 11705), (727, 11723), (732, 11732), (738, 11753), (740, 11759), (743, 11768), (760, 11825), (768, 11852), (769, 11855),

Gene: SantasSleigh_12 Start: 7576, Stop: 9681, Start Num: 32

Candidate Starts for SantasSleigh_12:

(Start: 32 @7576 has 142 MA's), (Start: 38 @7597 has 3 MA's), (80, 7774), (81, 7783), (85, 7807), (101, 7879), (106, 7903), (109, 7909), (149, 8059), (156, 8080), (158, 8092), (160, 8101), (212, 8308), (218, 8326), (270, 8413), (298, 8482), (313, 8494), (328, 8542), (346, 8572), (350, 8587), (363, 8623), (374, 8650), (384, 8671), (392, 8695), (400, 8719), (402, 8725), (410, 8752), (426, 8785), (439, 8824), (449, 8851), (456, 8872), (462, 8887), (476, 8914), (477, 8917), (484, 8938), (487, 8950), (489, 8956), (503, 9004), (529, 9079), (531, 9088), (541, 9115), (550, 9136), (570, 9199), (580, 9223), (626, 9280), (653, 9385), (659, 9406), (661, 9418), (673, 9460), (682, 9481), (693, 9502),

Gene: Sara_12 Start: 7540, Stop: 9645, Start Num: 32

Candidate Starts for Sara_12:

(Start: 32 @7540 has 142 MA's), (Start: 38 @7561 has 3 MA's), (80, 7738), (81, 7747), (85, 7771), (101, 7843), (106, 7867), (109, 7873), (149, 8023), (156, 8044), (158, 8056), (160, 8065), (212, 8272), (218, 8290), (270, 8377), (298, 8446), (313, 8458), (328, 8506), (346, 8536), (350, 8551), (363, 8587), (374, 8614), (384, 8635), (392, 8659), (400, 8683), (402, 8689), (410, 8716), (426, 8749), (439, 8788), (449, 8815), (456, 8836), (462, 8851), (476, 8878), (477, 8881), (484, 8902), (487, 8914), (489, 8920), (503, 8968), (515, 9004), (531, 9052), (541, 9079), (550, 9100), (570, 9163), (580, 9187), (626, 9244), (653, 9349), (659, 9370), (661, 9382), (673, 9424), (682, 9445), (693, 9466), (745, 9595),

Gene: Saratos_16 Start: 9432, Stop: 11840, Start Num: 21

Candidate Starts for Saratos_16:

(Start: 21 @9432 has 86 MA's), (27, 9447), (47, 9546), (71, 9636), (85, 9711), (96, 9768), (99, 9777), (116, 9840), (120, 9855), (122, 9864), (146, 9948), (158, 9993), (169, 10023), (179, 10065), (191, 10113), (210, 10173), (232, 10230), (273, 10317), (287, 10347), (288, 10350), (292, 10362), (336, 10494), (337, 10500), (354, 10551), (374, 10602), (375, 10605), (389, 10638), (394, 10653), (398, 10665), (410, 10704), (432, 10758), (440, 10779), (442, 10785), (472, 10857), (474, 10863), (486, 10899), (487, 10902), (503, 10956), (525, 11019), (529, 11031), (535, 11049), (559, 11121), (570,

11151), (583, 11187), (590, 11211), (600, 11250), (608, 11286), (611, 11295), (618, 11316), (638, 11415), (639, 11418), (650, 11466), (675, 11556), (679, 11571), (700, 11616), (709, 11643), (715, 11661), (722, 11682), (727, 11700), (732, 11709), (738, 11730), (740, 11736), (743, 11745), (760, 11802), (768, 11829), (769, 11832),

Gene: Savage2526_18 Start: 12618, Stop: 15179, Start Num: 12

Candidate Starts for Savage2526_18:

(6, 12597), (Start: 12 @12618 has 84 MA's), (26, 12666), (34, 12699), (45, 12747), (53, 12771), (55, 12783), (72, 12843), (82, 12891), (84, 12906), (85, 12912), (113, 13032), (123, 13074), (151, 13170), (153, 13173), (163, 13203), (175, 13257), (212, 13398), (218, 13419), (226, 13443), (233, 13464), (237, 13473), (250, 13524), (257, 13542), (313, 13728), (373, 13872), (402, 13905), (414, 13932), (423, 13950), (428, 13956), (436, 13980), (439, 13989), (460, 14037), (471, 14064), (481, 14094), (483, 14100), (499, 14151), (503, 14166), (507, 14178), (509, 14184), (510, 14187), (513, 14196), (522, 14223), (526, 14235), (529, 14244), (534, 14256), (536, 14262), (544, 14283), (552, 14307), (555, 14316), (567, 14355), (573, 14373), (588, 14406), (592, 14409), (594, 14418), (596, 14421), (599, 14436), (627, 14526), (636, 14562), (663, 14670), (672, 14706), (709, 14802), (710, 14805), (726, 14859), (739, 14898), (753, 14946), (755, 14955), (763, 14979), (770, 14997), (788, 15048), (793, 15072), (795, 15090), (801, 15120),

Gene: Scamander_12 Start: 7552, Stop: 9657, Start Num: 32

Candidate Starts for Scamander_12:

(Start: 32 @7552 has 142 MA's), (Start: 38 @7573 has 3 MA's), (80, 7750), (81, 7759), (85, 7783), (101, 7855), (106, 7879), (109, 7885), (149, 8035), (156, 8056), (158, 8068), (160, 8077), (212, 8284), (218, 8302), (270, 8389), (298, 8458), (313, 8470), (328, 8518), (346, 8548), (350, 8563), (363, 8599), (374, 8626), (384, 8647), (392, 8671), (400, 8695), (402, 8701), (410, 8728), (426, 8761), (439, 8800), (449, 8827), (456, 8848), (462, 8863), (476, 8890), (477, 8893), (484, 8914), (487, 8926), (489, 8932), (503, 8980), (529, 9055), (531, 9064), (541, 9091), (550, 9112), (570, 9175), (580, 9199), (626, 9256), (653, 9361), (659, 9382), (661, 9394), (673, 9436), (682, 9457), (693, 9478),

Gene: Schaffner_16 Start: 10823, Stop: 13147, Start Num: 14

Candidate Starts for Schaffner_16:

(Start: 14 @10823 has 63 MA's), (56, 10997), (63, 11021), (75, 11069), (87, 11129), (110, 11234), (113, 11246), (138, 11327), (139, 11330), (144, 11360), (158, 11414), (167, 11444), (177, 11486), (181, 11501), (187, 11525), (195, 11555), (201, 11585), (202, 11591), (329, 11810), (410, 11939), (428, 11978), (444, 12026), (454, 12047), (468, 12080), (482, 12122), (494, 12161), (512, 12221), (547, 12314), (627, 12467), (629, 12479), (648, 12557), (649, 12560), (663, 12611), (709, 12743), (710, 12746), (720, 12779), (744, 12857), (755, 12896),

Gene: Schimmels22_18 Start: 10328, Stop: 12766, Start Num: 21

Candidate Starts for Schimmels22_18:

(Start: 21 @10328 has 86 MA's), (69, 10520), (85, 10604), (96, 10661), (102, 10679), (108, 10703), (122, 10757), (127, 10778), (146, 10841), (158, 10886), (178, 10946), (183, 10964), (191, 10997), (210, 11057), (219, 11087), (222, 11093), (238, 11132), (245, 11153), (246, 11156), (273, 11219), (287, 11249), (288, 11252), (292, 11264), (308, 11309), (310, 11315), (328, 11375), (353, 11450), (354, 11453), (384, 11525), (389, 11540), (410, 11606), (440, 11681), (442, 11687), (453, 11717), (474, 11765), (479, 11777), (487, 11804), (492, 11819), (494, 11825), (497, 11837), (503, 11858), (514, 11891), (525, 11921), (529, 11933), (559, 12023), (574, 12065), (575, 12068), (590, 12113), (592, 12122), (594, 12131), (608, 12188), (616, 12209), (630, 12287), (638, 12317), (639, 12320), (653, 12374), (654, 12380), (656, 12386), (678, 12470), (679, 12473), (685, 12485), (692, 12503), (705, 12542), (709, 12548), (750, 12677), (754, 12692), (772, 12749),

Gene: Schnapsidee_17 Start: 9761, Stop: 12028, Start Num: 20

Candidate Starts for Schnapsidee_17:

(Start: 20 @9761 has 123 MA's), (54, 9908), (72, 9971), (81, 10019), (85, 10043), (96, 10100), (99, 10109), (116, 10172), (118, 10181), (120, 10187), (122, 10196), (146, 10280), (158, 10325), (169, 10355), (191, 10445), (210, 10505), (232, 10562), (245, 10583), (287, 10679), (288, 10682), (292, 10694), (308, 10739), (328, 10805), (336, 10826), (339, 10838), (350, 10871), (384, 10955), (394, 10985), (406, 11024), (410, 11036), (432, 11090), (440, 11111), (442, 11117), (460, 11165), (471, 11186), (486, 11231), (503, 11288), (535, 11381), (559, 11453), (580, 11507), (630, 11585), (638, 11615), (639, 11618), (650, 11666), (662, 11708), (675, 11756), (679, 11771), (700, 11813), (703, 11825), (740, 11924), (743, 11933), (760, 11990),

Gene: Schubert_17 Start: 9782, Stop: 12178, Start Num: 21

Candidate Starts for Schubert_17:

(Start: 21 @9782 has 86 MA's), (47, 9896), (71, 9986), (85, 10061), (96, 10118), (120, 10202), (122, 10211), (127, 10232), (146, 10295), (158, 10340), (173, 10382), (183, 10418), (191, 10451), (210, 10511), (251, 10610), (252, 10613), (287, 10685), (288, 10688), (304, 10730), (308, 10745), (336, 10832), (350, 10877), (384, 10961), (404, 11021), (422, 11069), (432, 11096), (442, 11123), (472, 11195), (474, 11201), (483, 11225), (486, 11237), (490, 11249), (494, 11261), (503, 11294), (512, 11321), (514, 11327), (525, 11357), (529, 11369), (590, 11549), (639, 11756), (650, 11804), (700, 11954), (703, 11966), (718, 12005), (738, 12068), (740, 12074), (743, 12083), (744, 12089), (760, 12140), (769, 12170),

Gene: Scissor2024_18 Start: 9962, Stop: 12400, Start Num: 21

Candidate Starts for Scissor2024_18:

(Start: 21 @9962 has 86 MA's), (39, 10034), (69, 10154), (85, 10238), (96, 10295), (102, 10313), (108, 10337), (122, 10391), (127, 10412), (146, 10475), (158, 10520), (178, 10580), (183, 10598), (191, 10631), (210, 10691), (219, 10721), (222, 10727), (238, 10766), (245, 10787), (246, 10790), (273, 10853), (287, 10883), (288, 10886), (292, 10898), (308, 10943), (310, 10949), (328, 11009), (336, 11030), (353, 11084), (354, 11087), (384, 11159), (389, 11174), (410, 11240), (432, 11294), (440, 11315), (442, 11321), (453, 11351), (456, 11360), (474, 11399), (479, 11411), (487, 11438), (492, 11453), (494, 11459), (497, 11471), (503, 11492), (514, 11525), (525, 11555), (529, 11567), (559, 11657), (575, 11702), (584, 11726), (587, 11735), (590, 11747), (594, 11765), (613, 11834), (616, 11843), (630, 11921), (638, 11951), (653, 12008), (654, 12014), (656, 12020), (678, 12104), (679, 12107), (685, 12119), (692, 12137), (705, 12176), (709, 12182), (750, 12311), (754, 12326), (772, 12383),

Gene: Scrunchy_12 Start: 7546, Stop: 9651, Start Num: 32

Candidate Starts for Scrunchy_12:

(Start: 32 @7546 has 142 MA's), (Start: 38 @7567 has 3 MA's), (80, 7744), (81, 7753), (85, 7777), (101, 7849), (106, 7873), (109, 7879), (149, 8029), (156, 8050), (158, 8062), (160, 8071), (212, 8278), (218, 8296), (270, 8383), (298, 8452), (313, 8464), (328, 8512), (346, 8542), (350, 8557), (363, 8593), (374, 8620), (384, 8641), (392, 8665), (400, 8689), (402, 8695), (410, 8722), (426, 8755), (439, 8794), (449, 8821), (456, 8842), (462, 8857), (476, 8884), (477, 8887), (484, 8908), (487, 8920), (489, 8926), (503, 8974), (529, 9049), (531, 9058), (541, 9085), (550, 9106), (570, 9169), (580, 9193), (626, 9250), (653, 9355), (659, 9376), (661, 9388), (673, 9430), (682, 9451), (693, 9472),

Gene: Scuttle_18 Start: 12623, Stop: 15184, Start Num: 12

Candidate Starts for Scuttle_18:

(6, 12602), (Start: 12 @12623 has 84 MA's), (26, 12671), (34, 12704), (45, 12752), (53, 12776), (55, 12788), (72, 12848), (82, 12896), (84, 12911), (85, 12917), (113, 13037), (123, 13079), (151, 13175), (153, 13178), (163, 13208), (175, 13262), (212, 13403), (218, 13424), (226, 13448), (233, 13469), (237, 13478), (250, 13529), (257, 13547), (263, 13571), (313, 13733), (373, 13877), (402, 13910), (414, 13937), (423, 13955), (428, 13961), (436, 13985), (439, 13994), (460, 14042), (471, 14069), (479, 14093), (481, 14099), (483, 14105), (499, 14156), (503, 14171), (507, 14183), (509, 14189), (510, 14192), (513, 14201), (522, 14228), (526, 14240), (529, 14249), (534, 14261), (536, 14267),

(544, 14288), (555, 14321), (567, 14360), (588, 14411), (592, 14414), (594, 14423), (596, 14426), (599, 14441), (626, 14525), (627, 14531), (636, 14567), (663, 14675), (672, 14711), (709, 14807), (710, 14810), (726, 14864), (739, 14903), (753, 14951), (755, 14960), (763, 14984), (770, 15002), (788, 15053), (793, 15077), (795, 15095), (801, 15125),

Gene: SeaWolves_12 Start: 7540, Stop: 9645, Start Num: 32

Candidate Starts for SeaWolves_12:

(Start: 32 @7540 has 142 MA's), (Start: 38 @7561 has 3 MA's), (80, 7738), (81, 7747), (85, 7771), (101, 7843), (106, 7867), (109, 7873), (149, 8023), (156, 8044), (158, 8056), (160, 8065), (212, 8272), (218, 8290), (270, 8377), (298, 8446), (313, 8458), (328, 8506), (346, 8536), (350, 8551), (363, 8587), (374, 8614), (384, 8635), (392, 8659), (400, 8683), (402, 8689), (410, 8716), (426, 8749), (439, 8788), (449, 8815), (456, 8836), (462, 8851), (476, 8878), (477, 8881), (484, 8902), (487, 8914), (489, 8920), (503, 8968), (515, 9004), (531, 9052), (541, 9079), (550, 9100), (570, 9163), (580, 9187), (626, 9244), (653, 9349), (659, 9370), (661, 9382), (673, 9424), (682, 9445), (693, 9466), (745, 9595),

Gene: Sedgewig_17 Start: 9654, Stop: 11924, Start Num: 20

Candidate Starts for Sedgewig_17:

(Start: 20 @9654 has 123 MA's), (47, 9771), (54, 9801), (71, 9861), (81, 9912), (85, 9936), (96, 9993), (120, 10080), (122, 10089), (146, 10173), (158, 10218), (168, 10245), (169, 10248), (191, 10338), (210, 10398), (232, 10455), (245, 10476), (287, 10572), (288, 10575), (304, 10617), (328, 10698), (336, 10719), (339, 10731), (350, 10764), (380, 10842), (384, 10848), (394, 10878), (406, 10917), (419, 10950), (422, 10956), (428, 10968), (432, 10983), (437, 10995), (440, 11004), (442, 11010), (460, 11058), (472, 11082), (474, 11088), (486, 11124), (503, 11181), (559, 11346), (580, 11400), (630, 11478), (638, 11508), (639, 11511), (650, 11559), (675, 11649), (679, 11664), (700, 11706), (703, 11718), (710, 11733), (740, 11820), (743, 11829), (760, 11886),

Gene: Sergei_14 Start: 9744, Stop: 12302, Start Num: 12

Candidate Starts for Sergei_14:

(Start: 12 @9744 has 84 MA's), (15, 9753), (22, 9783), (45, 9873), (55, 9909), (82, 10017), (84, 10032), (123, 10200), (151, 10296), (226, 10569), (233, 10590), (244, 10620), (250, 10650), (276, 10737), (314, 10860), (339, 10935), (373, 10998), (402, 11031), (411, 11052), (414, 11058), (423, 11076), (428, 11082), (436, 11106), (454, 11148), (460, 11163), (464, 11169), (473, 11196), (489, 11247), (500, 11280), (502, 11289), (509, 11310), (513, 11322), (522, 11349), (526, 11361), (529, 11370), (534, 11382), (536, 11388), (537, 11391), (546, 11412), (555, 11442), (560, 11460), (567, 11481), (570, 11490), (573, 11499), (588, 11532), (592, 11535), (596, 11547), (599, 11562), (626, 11646), (627, 11652), (636, 11688), (649, 11745), (651, 11754), (663, 11796), (678, 11853), (709, 11928), (710, 11931), (719, 11961), (726, 11985), (744, 12042), (753, 12072), (755, 12081), (763, 12105), (767, 12117), (801, 12243),

Gene: ShaiHulud_17 Start: 9362, Stop: 11632, Start Num: 20

Candidate Starts for ShaiHulud_17:

(Start: 20 @9362 has 123 MA's), (47, 9479), (54, 9509), (81, 9620), (85, 9644), (96, 9701), (116, 9773), (120, 9788), (122, 9797), (146, 9881), (158, 9926), (169, 9956), (191, 10046), (210, 10106), (232, 10163), (245, 10184), (287, 10280), (288, 10283), (304, 10325), (328, 10406), (336, 10427), (339, 10439), (350, 10472), (384, 10556), (394, 10586), (406, 10625), (419, 10658), (422, 10664), (437, 10703), (440, 10712), (442, 10718), (455, 10754), (460, 10766), (474, 10796), (486, 10832), (503, 10889), (514, 10922), (535, 10982), (559, 11054), (630, 11186), (638, 11216), (639, 11219), (650, 11267), (662, 11309), (675, 11357), (679, 11372), (700, 11414), (710, 11441), (740, 11528), (743, 11537), (760, 11594),

Gene: ShakeltOph_15 Start: 8971, Stop: 11214, Start Num: 14

Candidate Starts for ShakeltOph_15:

(Start: 14 @8971 has 63 MA's), (Start: 38 @9058 has 3 MA's), (64, 9160), (80, 9226), (103, 9331), (131, 9442), (133, 9448), (157, 9544), (168, 9586), (203, 9733), (209, 9751), (319, 9868), (327, 9895), (349, 9928), (403, 9964), (428, 10012), (441, 10051), (459, 10090), (481, 10138), (484, 10147), (486, 10156), (489, 10165), (502, 10207), (514, 10243), (518, 10255), (534, 10300), (536, 10306), (546, 10330), (557, 10366), (562, 10384), (570, 10408), (573, 10417), (582, 10429), (588, 10450), (592, 10453), (600, 10483), (667, 10729), (709, 10846), (739, 10942), (742, 10948), (749, 10978),

Gene: Shamu_16 Start: 9444, Stop: 11852, Start Num: 21

Candidate Starts for Shamu_16:

(Start: 21 @9444 has 86 MA's), (27, 9459), (47, 9558), (71, 9648), (85, 9723), (96, 9780), (99, 9789), (116, 9852), (120, 9867), (122, 9876), (146, 9960), (158, 10005), (169, 10035), (179, 10077), (191, 10125), (210, 10185), (232, 10242), (273, 10329), (287, 10359), (288, 10362), (292, 10374), (336, 10506), (337, 10512), (354, 10563), (374, 10614), (375, 10617), (389, 10650), (394, 10665), (398, 10677), (410, 10716), (432, 10770), (440, 10791), (442, 10797), (472, 10869), (474, 10875), (486, 10911), (487, 10914), (503, 10968), (525, 11031), (529, 11043), (535, 11061), (559, 11133), (570, 11163), (583, 11199), (590, 11223), (600, 11262), (608, 11298), (611, 11307), (618, 11328), (638, 11427), (639, 11430), (650, 11478), (675, 11568), (679, 11583), (700, 11628), (709, 11655), (715, 11673), (722, 11694), (727, 11712), (732, 11721), (738, 11742), (740, 11748), (743, 11757), (760, 11814), (768, 11841), (769, 11844),

Gene: Shee_17 Start: 9361, Stop: 11631, Start Num: 20

Candidate Starts for Shee_17:

(Start: 20 @9361 has 123 MA's), (47, 9478), (54, 9508), (71, 9568), (81, 9619), (85, 9643), (96, 9700), (120, 9787), (122, 9796), (146, 9880), (158, 9925), (168, 9952), (169, 9955), (191, 10045), (210, 10105), (232, 10162), (245, 10183), (287, 10279), (288, 10282), (304, 10324), (328, 10405), (336, 10426), (339, 10438), (350, 10471), (380, 10549), (384, 10555), (394, 10585), (406, 10624), (419, 10657), (422, 10663), (428, 10675), (432, 10690), (437, 10702), (440, 10711), (442, 10717), (460, 10765), (486, 10831), (503, 10888), (559, 11053), (580, 11107), (630, 11185), (638, 11215), (639, 11218), (650, 11266), (675, 11356), (679, 11371), (703, 11425), (710, 11440), (740, 11527), (743, 11536), (760, 11593),

Gene: Simpson_18 Start: 10730, Stop: 13045, Start Num: 14

Candidate Starts for Simpson_18:

(Start: 14 @10730 has 63 MA's), (53, 10886), (54, 10895), (75, 10976), (78, 10988), (87, 11036), (113, 11153), (138, 11234), (139, 11237), (144, 11267), (158, 11321), (167, 11351), (181, 11408), (187, 11432), (201, 11492), (329, 11717), (399, 11813), (428, 11885), (444, 11933), (468, 11987), (482, 12029), (494, 12068), (512, 12128), (635, 12407), (641, 12431), (648, 12464), (649, 12467), (663, 12518), (701, 12629), (709, 12650), (710, 12653), (720, 12686), (744, 12764), (751, 12785), (755, 12803), (778, 12863), (785, 12893), (795, 12944), (807, 12989), (814, 13034),

Gene: Sinatra_17 Start: 9585, Stop: 11993, Start Num: 21

Candidate Starts for Sinatra_17:

(Start: 21 @9585 has 86 MA's), (47, 9699), (56, 9738), (71, 9789), (72, 9792), (81, 9840), (85, 9864), (96, 9921), (108, 9963), (120, 10008), (122, 10017), (146, 10101), (158, 10146), (169, 10176), (176, 10209), (179, 10218), (191, 10266), (210, 10326), (232, 10383), (287, 10500), (288, 10503), (292, 10515), (308, 10560), (327, 10623), (328, 10626), (333, 10638), (336, 10647), (337, 10653), (354, 10704), (374, 10755), (375, 10758), (384, 10776), (389, 10791), (394, 10806), (419, 10878), (430, 10902), (442, 10938), (487, 11055), (503, 11109), (514, 11142), (525, 11172), (570, 11304), (574, 11316), (580, 11328), (592, 11373), (598, 11394), (603, 11415), (611, 11448), (616, 11460), (618, 11469), (619, 11472), (622, 11493), (638, 11568), (639, 11571), (650, 11619), (664, 11667), (675, 11709), (700, 11769), (707, 11793), (712, 11805), (740, 11889), (743, 11898), (760, 11955),

Gene: Sippinontea_12 Start: 7533, Stop: 9638, Start Num: 32

Candidate Starts for Sippinontea_12:

(Start: 32 @7533 has 142 MA's), (Start: 38 @7554 has 3 MA's), (80, 7731), (81, 7740), (85, 7764), (101, 7836), (106, 7860), (109, 7866), (137, 7959), (149, 8016), (156, 8037), (158, 8049), (160, 8058), (212, 8265), (218, 8283), (270, 8370), (298, 8439), (313, 8451), (328, 8499), (346, 8529), (350, 8544), (363, 8580), (374, 8607), (385, 8631), (392, 8652), (400, 8676), (402, 8682), (410, 8709), (426, 8742), (439, 8781), (449, 8808), (456, 8829), (462, 8844), (476, 8871), (477, 8874), (487, 8907), (489, 8913), (503, 8961), (515, 8997), (531, 9045), (541, 9072), (550, 9093), (570, 9156), (580, 9180), (626, 9237), (653, 9342), (659, 9363), (661, 9375), (673, 9417), (682, 9438), (693, 9459), (745, 9588),

Gene: SirVictor_17 Start: 9662, Stop: 12070, Start Num: 21

Candidate Starts for SirVictor_17:

(Start: 21 @9662 has 86 MA's), (33, 9713), (47, 9776), (62, 9836), (81, 9917), (85, 9941), (96, 9998), (120, 10085), (122, 10094), (146, 10178), (158, 10223), (169, 10253), (176, 10286), (191, 10343), (210, 10403), (232, 10460), (251, 10502), (258, 10523), (273, 10547), (287, 10577), (288, 10580), (308, 10637), (333, 10715), (336, 10724), (337, 10730), (354, 10781), (373, 10829), (375, 10835), (384, 10853), (385, 10856), (389, 10868), (404, 10913), (410, 10934), (432, 10988), (442, 11015), (559, 11351), (570, 11381), (584, 11420), (592, 11450), (594, 11459), (603, 11492), (618, 11546), (622, 11570), (638, 11645), (639, 11648), (650, 11696), (675, 11786), (679, 11801), (695, 11834), (740, 11966), (743, 11975), (744, 11981), (752, 12008), (760, 12032),

Gene: Skelbel_16 Start: 10704, Stop: 13028, Start Num: 14

Candidate Starts for Skelbel_16:

(Start: 14 @10704 has 63 MA's), (52, 10857), (53, 10860), (54, 10869), (75, 10950), (87, 11010), (95, 11055), (113, 11127), (138, 11208), (139, 11211), (144, 11241), (158, 11295), (167, 11325), (181, 11382), (187, 11406), (201, 11466), (202, 11472), (211, 11496), (258, 11592), (329, 11691), (399, 11787), (410, 11820), (428, 11859), (444, 11907), (468, 11961), (482, 12003), (494, 12042), (499, 12060), (512, 12102), (547, 12195), (631, 12366), (635, 12381), (663, 12492), (709, 12624), (710, 12627), (720, 12660), (744, 12738), (755, 12777), (778, 12837), (795, 12927),

Gene: Slentz_12 Start: 7546, Stop: 9651, Start Num: 32

Candidate Starts for Slentz_12:

(Start: 32 @7546 has 142 MA's), (Start: 38 @7567 has 3 MA's), (80, 7744), (81, 7753), (85, 7777), (101, 7849), (106, 7873), (109, 7879), (149, 8029), (156, 8050), (158, 8062), (160, 8071), (212, 8278), (218, 8296), (270, 8383), (298, 8452), (313, 8464), (328, 8512), (346, 8542), (350, 8557), (363, 8593), (374, 8620), (384, 8641), (392, 8665), (400, 8689), (402, 8695), (410, 8722), (426, 8755), (439, 8794), (449, 8821), (456, 8842), (462, 8857), (476, 8884), (477, 8887), (484, 8908), (487, 8920), (489, 8926), (503, 8974), (529, 9049), (531, 9058), (541, 9085), (550, 9106), (570, 9169), (580, 9193), (626, 9250), (653, 9355), (659, 9376), (661, 9388), (673, 9430), (682, 9451), (693, 9472),

Gene: Slizam_12 Start: 7579, Stop: 9684, Start Num: 32

Candidate Starts for Slizam_12:

(Start: 32 @7579 has 142 MA's), (Start: 38 @7600 has 3 MA's), (80, 7777), (81, 7786), (85, 7810), (101, 7882), (106, 7906), (137, 8005), (156, 8083), (158, 8095), (160, 8104), (212, 8311), (218, 8329), (270, 8416), (298, 8485), (313, 8497), (328, 8545), (346, 8575), (350, 8590), (370, 8644), (384, 8674), (385, 8677), (392, 8698), (402, 8728), (410, 8755), (426, 8788), (439, 8827), (449, 8854), (451, 8860), (456, 8875), (462, 8890), (476, 8917), (477, 8920), (484, 8941), (487, 8953), (489, 8959), (503, 9007), (515, 9043), (531, 9091), (541, 9118), (550, 9139), (570, 9202), (580, 9226), (626, 9283), (653, 9388), (659, 9409), (673, 9463), (682, 9484), (693, 9505),

Gene: Snek_16 Start: 9838, Stop: 12117, Start Num: 14

Candidate Starts for Snek_16:

(Start: 14 @9838 has 63 MA's), (69, 10042), (80, 10093), (102, 10195), (117, 10261), (131, 10309), (133, 10315), (154, 10402), (157, 10411), (168, 10453), (179, 10498), (203, 10600), (209, 10618),

(317, 10747), (322, 10762), (349, 10804), (373, 10825), (393, 10840), (447, 10951), (481, 11023), (484, 11032), (486, 11041), (490, 11053), (504, 11098), (506, 11104), (511, 11119), (518, 11140), (534, 11185), (560, 11263), (592, 11338), (597, 11356), (639, 11503), (667, 11614), (687, 11677), (697, 11698), (705, 11725), (712, 11740), (742, 11830), (749, 11860), (771, 11926), (809, 12052), (813, 12091),

Gene: Snuffles_13 Start: 7751, Stop: 9856, Start Num: 32

Candidate Starts for Snuffles_13:

(Start: 32 @7751 has 142 MA's), (Start: 38 @7772 has 3 MA's), (80, 7949), (81, 7958), (85, 7982), (101, 8054), (106, 8078), (137, 8177), (156, 8255), (158, 8267), (160, 8276), (212, 8483), (218, 8501), (270, 8588), (298, 8657), (313, 8669), (328, 8717), (346, 8747), (350, 8762), (370, 8816), (384, 8846), (385, 8849), (392, 8870), (402, 8900), (410, 8927), (426, 8960), (439, 8999), (449, 9026), (451, 9032), (456, 9047), (462, 9062), (476, 9089), (477, 9092), (484, 9113), (487, 9125), (489, 9131), (503, 9179), (515, 9215), (531, 9263), (541, 9290), (550, 9311), (570, 9374), (580, 9398), (626, 9455), (653, 9560), (659, 9581), (673, 9635), (682, 9656), (693, 9677),

Gene: SoilGremlin_17 Start: 9361, Stop: 11631, Start Num: 20

Candidate Starts for SoilGremlin_17:

(Start: 20 @9361 has 123 MA's), (47, 9478), (54, 9508), (71, 9568), (81, 9619), (85, 9643), (96, 9700), (120, 9787), (122, 9796), (146, 9880), (158, 9925), (168, 9952), (169, 9955), (191, 10045), (210, 10105), (232, 10162), (245, 10183), (287, 10279), (288, 10282), (304, 10324), (328, 10405), (336, 10426), (339, 10438), (350, 10471), (380, 10549), (384, 10555), (394, 10585), (406, 10624), (419, 10657), (422, 10663), (432, 10690), (437, 10702), (440, 10711), (442, 10717), (460, 10765), (472, 10789), (474, 10795), (486, 10831), (503, 10888), (559, 11053), (580, 11107), (630, 11185), (638, 11215), (639, 11218), (650, 11266), (675, 11356), (679, 11371), (700, 11413), (703, 11425), (710, 11440), (740, 11527), (743, 11536), (760, 11593),

Gene: SolidSnake_17 Start: 9364, Stop: 11634, Start Num: 20

Candidate Starts for SolidSnake_17:

(Start: 20 @9364 has 123 MA's), (47, 9481), (54, 9511), (71, 9571), (81, 9622), (85, 9646), (96, 9703), (120, 9790), (122, 9799), (146, 9883), (158, 9928), (168, 9955), (169, 9958), (191, 10048), (210, 10108), (232, 10165), (245, 10186), (287, 10282), (288, 10285), (304, 10327), (328, 10408), (336, 10429), (339, 10441), (350, 10474), (380, 10552), (384, 10558), (394, 10588), (406, 10627), (419, 10660), (422, 10666), (428, 10678), (432, 10693), (437, 10705), (440, 10714), (442, 10720), (460, 10768), (486, 10834), (503, 10891), (559, 11056), (580, 11110), (630, 11188), (638, 11218), (639, 11221), (650, 11269), (675, 11359), (679, 11374), (703, 11428), (710, 11443), (740, 11530), (743, 11539), (760, 11596),

Gene: SonOfLevi_17 Start: 9647, Stop: 11917, Start Num: 20

Candidate Starts for SonOfLevi_17:

(Start: 20 @9647 has 123 MA's), (47, 9764), (54, 9794), (71, 9854), (81, 9905), (85, 9929), (96, 9986), (116, 10058), (120, 10073), (122, 10082), (146, 10166), (158, 10211), (169, 10241), (191, 10331), (210, 10391), (232, 10448), (245, 10469), (287, 10565), (288, 10568), (304, 10610), (328, 10691), (336, 10712), (339, 10724), (350, 10757), (384, 10841), (394, 10871), (406, 10910), (419, 10943), (422, 10949), (432, 10976), (437, 10988), (440, 10997), (442, 11003), (455, 11039), (460, 11051), (474, 11081), (486, 11117), (503, 11174), (535, 11267), (559, 11339), (580, 11393), (630, 11471), (638, 11501), (639, 11504), (650, 11552), (662, 11594), (675, 11642), (679, 11657), (700, 11699), (732, 11786), (740, 11813), (760, 11879),

Gene: Sooty_16 Start: 10245, Stop: 12665, Start Num: 19

Candidate Starts for Sooty_16:

(Start: 19 @10245 has 21 MA's), (41, 10332), (53, 10389), (65, 10437), (69, 10449), (81, 10509), (104, 10620), (126, 10701), (160, 10827), (164, 10842), (177, 10896), (226, 11070), (251, 11154), (258,

11175), (263, 11196), (269, 11217), (282, 11268), (305, 11343), (312, 11364), (321, 11397), (340, 11454), (353, 11496), (358, 11511), (379, 11562), (393, 11598), (431, 11706), (439, 11727), (454, 11769), (459, 11781), (472, 11835), (487, 11883), (518, 11979), (572, 12135), (580, 12156), (583, 12168), (597, 12219), (650, 12369), (660, 12405), (669, 12438), (728, 12597),

Gene: Soror1_17 Start: 9771, Stop: 12038, Start Num: 20

Candidate Starts for Soror1_17:

(Start: 20 @9771 has 123 MA's), (54, 9918), (72, 9981), (81, 10029), (85, 10053), (96, 10110), (99, 10119), (116, 10182), (118, 10191), (120, 10197), (122, 10206), (146, 10290), (158, 10335), (169, 10365), (191, 10455), (210, 10515), (232, 10572), (245, 10593), (287, 10689), (288, 10692), (292, 10704), (308, 10749), (328, 10815), (336, 10836), (339, 10848), (350, 10881), (384, 10965), (394, 10995), (406, 11034), (410, 11046), (432, 11100), (440, 11121), (442, 11127), (460, 11175), (471, 11196), (486, 11241), (503, 11298), (535, 11391), (580, 11517), (630, 11595), (638, 11625), (639, 11628), (650, 11676), (662, 11718), (675, 11766), (679, 11781), (700, 11823), (703, 11835), (740, 11934), (743, 11943), (760, 12000),

Gene: SpecialK_16 Start: 10242, Stop: 12662, Start Num: 19

Candidate Starts for SpecialK_16:

(Start: 19 @10242 has 21 MA's), (41, 10329), (65, 10434), (69, 10446), (81, 10506), (104, 10617), (126, 10698), (160, 10824), (164, 10839), (177, 10893), (226, 11067), (251, 11151), (258, 11172), (269, 11214), (305, 11340), (312, 11361), (321, 11394), (340, 11451), (353, 11493), (358, 11508), (379, 11559), (393, 11595), (395, 11601), (431, 11703), (439, 11724), (454, 11766), (470, 11826), (472, 11832), (487, 11880), (518, 11976), (580, 12153), (583, 12165), (597, 12216), (633, 12297), (650, 12366), (660, 12402), (686, 12483), (694, 12498), (719, 12570), (728, 12594),

Gene: Sputnik_12 Start: 6894, Stop: 8744, Start Num: 30

Candidate Starts for Sputnik_12:

(Start: 30 @6894 has 5 MA's), (33, 6912), (35, 6918), (54, 6996), (70, 7050), (73, 7065), (75, 7077), (85, 7131), (101, 7203), (104, 7218), (111, 7239), (126, 7299), (137, 7326), (153, 7389), (177, 7494), (189, 7545), (195, 7566), (207, 7614), (211, 7623), (228, 7665), (234, 7680), (239, 7689), (265, 7743), (271, 7761), (283, 7785), (285, 7791), (295, 7812), (298, 7824), (312, 7836), (317, 7848), (331, 7878), (336, 7890), (360, 7932), (418, 8043), (429, 8067), (434, 8079), (443, 8097), (461, 8124), (496, 8154), (515, 8214), (546, 8298), (550, 8310), (560, 8346), (572, 8376), (595, 8448), (622, 8475), (624, 8487), (625, 8496), (628, 8508), (629, 8517), (647, 8589), (663, 8640), (665, 8646), (692, 8724),

Gene: Stanktossa_17 Start: 9364, Stop: 11634, Start Num: 20

Candidate Starts for Stanktossa_17:

(Start: 20 @9364 has 123 MA's), (47, 9481), (54, 9511), (71, 9571), (81, 9622), (85, 9646), (96, 9703), (120, 9790), (122, 9799), (146, 9883), (158, 9928), (168, 9955), (169, 9958), (191, 10048), (210, 10108), (232, 10165), (245, 10186), (287, 10282), (288, 10285), (304, 10327), (328, 10408), (336, 10429), (339, 10441), (350, 10474), (380, 10552), (384, 10558), (394, 10588), (406, 10627), (419, 10660), (422, 10666), (428, 10678), (432, 10693), (437, 10705), (440, 10714), (442, 10720), (460, 10768), (486, 10834), (503, 10891), (559, 11056), (580, 11110), (630, 11188), (638, 11218), (639, 11221), (650, 11269), (675, 11359), (679, 11374), (703, 11428), (710, 11443), (740, 11530), (743, 11539), (760, 11596),

Gene: Stem_12 Start: 7579, Stop: 9684, Start Num: 32

Candidate Starts for Stem_12:

(Start: 32 @7579 has 142 MA's), (Start: 38 @7600 has 3 MA's), (80, 7777), (81, 7786), (85, 7810), (101, 7882), (106, 7906), (137, 8005), (149, 8062), (156, 8083), (158, 8095), (160, 8104), (212, 8311), (218, 8329), (270, 8416), (298, 8485), (313, 8497), (328, 8545), (346, 8575), (350, 8590), (370, 8644), (384, 8674), (385, 8677), (392, 8698), (402, 8728), (410, 8755), (426, 8788), (439, 8827), (449, 8854), (451, 8860), (456, 8875), (462, 8890), (476, 8917), (477, 8920), (484, 8941), (487, 8953), (489, 8959),

(503, 9007), (515, 9043), (531, 9091), (541, 9118), (550, 9139), (570, 9202), (580, 9226), (626, 9283), (653, 9388), (659, 9409), (673, 9463), (682, 9484), (693, 9505),

Gene: StingRay_17 Start: 9654, Stop: 11924, Start Num: 20

Candidate Starts for StingRay_17:

(Start: 20 @9654 has 123 MA's), (47, 9771), (54, 9801), (71, 9861), (81, 9912), (85, 9936), (96, 9993), (120, 10080), (122, 10089), (146, 10173), (158, 10218), (168, 10245), (169, 10248), (191, 10338), (210, 10398), (232, 10455), (245, 10476), (287, 10572), (288, 10575), (292, 10587), (304, 10617), (328, 10698), (336, 10719), (339, 10731), (350, 10764), (374, 10827), (380, 10842), (384, 10848), (394, 10878), (406, 10917), (419, 10950), (422, 10956), (428, 10968), (432, 10983), (437, 10995), (440, 11004), (442, 11010), (460, 11058), (486, 11124), (503, 11181), (559, 11346), (580, 11400), (630, 11478), (638, 11508), (639, 11511), (650, 11559), (675, 11649), (679, 11664), (703, 11718), (710, 11733), (740, 11820), (743, 11829), (760, 11886),

Gene: StirfryIV_17 Start: 9654, Stop: 11924, Start Num: 20

Candidate Starts for StirfryIV_17:

(Start: 20 @9654 has 123 MA's), (47, 9771), (54, 9801), (71, 9861), (81, 9912), (85, 9936), (96, 9993), (120, 10080), (122, 10089), (146, 10173), (158, 10218), (168, 10245), (169, 10248), (191, 10338), (210, 10398), (232, 10455), (245, 10476), (287, 10572), (288, 10575), (304, 10617), (328, 10698), (336, 10719), (339, 10731), (350, 10764), (380, 10842), (384, 10848), (394, 10878), (406, 10917), (419, 10950), (422, 10956), (428, 10968), (432, 10983), (437, 10995), (440, 11004), (442, 11010), (460, 11058), (472, 11082), (474, 11088), (486, 11124), (503, 11181), (559, 11346), (580, 11400), (630, 11478), (638, 11508), (639, 11511), (650, 11559), (675, 11649), (679, 11664), (700, 11706), (703, 11718), (710, 11733), (740, 11820), (743, 11829), (760, 11886),

Gene: Stormbreaker8_17 Start: 9762, Stop: 12029, Start Num: 20

Candidate Starts for Stormbreaker8_17:

(Start: 20 @9762 has 123 MA's), (54, 9909), (72, 9972), (81, 10020), (85, 10044), (96, 10101), (99, 10110), (116, 10173), (118, 10182), (120, 10188), (122, 10197), (146, 10281), (158, 10326), (169, 10356), (191, 10446), (210, 10506), (232, 10563), (245, 10584), (287, 10680), (288, 10683), (292, 10695), (308, 10740), (328, 10806), (336, 10827), (339, 10839), (350, 10872), (374, 10935), (384, 10956), (394, 10986), (406, 11025), (410, 11037), (432, 11091), (440, 11112), (442, 11118), (460, 11166), (471, 11187), (486, 11232), (503, 11289), (535, 11382), (580, 11508), (630, 11586), (638, 11616), (639, 11619), (650, 11667), (662, 11709), (675, 11757), (679, 11772), (700, 11814), (703, 11826), (740, 11925), (743, 11934), (760, 11991),

Gene: Strathdee_17 Start: 9363, Stop: 11633, Start Num: 20

Candidate Starts for Strathdee_17:

(Start: 20 @9363 has 123 MA's), (47, 9480), (54, 9510), (81, 9621), (85, 9645), (96, 9702), (116, 9774), (120, 9789), (122, 9798), (146, 9882), (158, 9927), (169, 9957), (191, 10047), (210, 10107), (232, 10164), (245, 10185), (287, 10281), (288, 10284), (304, 10326), (328, 10407), (336, 10428), (339, 10440), (350, 10473), (384, 10557), (394, 10587), (406, 10626), (419, 10659), (422, 10665), (437, 10704), (440, 10713), (442, 10719), (455, 10755), (460, 10767), (474, 10797), (486, 10833), (503, 10890), (514, 10923), (535, 10983), (559, 11055), (630, 11187), (638, 11217), (639, 11220), (650, 11268), (662, 11310), (675, 11358), (679, 11373), (700, 11415), (710, 11442), (740, 11529), (743, 11538), (760, 11595),

Gene: Studio_18 Start: 9327, Stop: 11615, Start Num: 9

Candidate Starts for Studio_18:

(Start: 9 @9327 has 3 MA's), (Start: 11 @9330 has 8 MA's), (80, 9588), (131, 9804), (132, 9807), (168, 9948), (203, 10095), (215, 10137), (229, 10158), (332, 10305), (335, 10314), (373, 10368), (392, 10371), (393, 10374), (459, 10509), (484, 10566), (499, 10614), (522, 10686), (529, 10707), (537, 10728), (540, 10737), (543, 10743), (550, 10761), (551, 10764), (553, 10773), (558, 10791), (562,

10803), (569, 10824), (570, 10827), (572, 10830), (592, 10872), (599, 10899), (600, 10902), (635, 11022), (642, 11055), (646, 11076), (648, 11079), (667, 11148), (668, 11154), (709, 11265), (710, 11268), (739, 11361), (742, 11367), (753, 11409), (755, 11418), (763, 11442), (766, 11451), (773, 11469), (812, 11610),

Gene: Stuu_16 Start: 10335, Stop: 12755, Start Num: 19

Candidate Starts for Stuu_16:

(Start: 19 @10335 has 21 MA's), (41, 10422), (65, 10527), (69, 10539), (81, 10599), (104, 10710), (126, 10791), (160, 10917), (164, 10932), (177, 10986), (226, 11160), (251, 11244), (258, 11265), (269, 11307), (305, 11433), (312, 11454), (321, 11487), (340, 11544), (353, 11586), (358, 11601), (379, 11652), (393, 11688), (395, 11694), (431, 11796), (439, 11817), (454, 11859), (470, 11919), (472, 11925), (487, 11973), (518, 12069), (572, 12225), (580, 12246), (583, 12258), (597, 12309), (650, 12459), (660, 12495), (719, 12663), (728, 12687),

Gene: SuMoo_14 Start: 9221, Stop: 12058, Start Num: 13

Candidate Starts for SuMoo_14:

(Start: 13 @9221 has 7 MA's), (97, 9584), (107, 9617), (126, 9689), (129, 9698), (144, 9752), (163, 9836), (171, 9866), (184, 9914), (188, 9935), (242, 10115), (290, 10304), (297, 10325), (356, 10529), (358, 10535), (364, 10550), (368, 10571), (429, 10745), (447, 10796), (483, 10895), (493, 10928), (518, 11009), (527, 11036), (536, 11063), (538, 11069), (564, 11150), (567, 11159), (574, 11180), (626, 11360), (699, 11612), (709, 11642), (714, 11657),

Gene: Subaru_16 Start: 10704, Stop: 13028, Start Num: 14

Candidate Starts for Subaru_16:

(Start: 14 @10704 has 63 MA's), (52, 10857), (53, 10860), (54, 10869), (75, 10950), (87, 11010), (95, 11055), (113, 11127), (138, 11208), (139, 11211), (144, 11241), (158, 11295), (167, 11325), (181, 11382), (187, 11406), (201, 11466), (202, 11472), (211, 11496), (258, 11592), (329, 11691), (399, 11787), (428, 11859), (444, 11907), (468, 11961), (482, 12003), (494, 12042), (499, 12060), (512, 12102), (547, 12195), (631, 12366), (635, 12381), (663, 12492), (709, 12624), (710, 12627), (720, 12660), (744, 12738), (755, 12777), (778, 12837), (795, 12927),

Gene: Sucha_16 Start: 10506, Stop: 12797, Start Num: 24

Candidate Starts for Sucha_16:

(Start: 24 @10506 has 21 MA's), (55, 10623), (64, 10656), (94, 10797), (113, 10875), (154, 11031), (168, 11082), (180, 11133), (186, 11154), (214, 11268), (215, 11271), (229, 11292), (292, 11349), (349, 11478), (350, 11481), (370, 11499), (402, 11517), (412, 11541), (482, 11703), (507, 11784), (513, 11802), (520, 11823), (532, 11856), (534, 11859), (571, 11964), (579, 11988), (602, 12066), (603, 12069), (610, 12099), (625, 12144), (633, 12177), (658, 12276), (667, 12312), (668, 12318), (676, 12345), (691, 12384), (709, 12429), (713, 12441), (717, 12453), (719, 12462), (720, 12465), (755, 12579), (773, 12630), (780, 12645),

Gene: Sue2_16 Start: 10752, Stop: 13142, Start Num: 14

Candidate Starts for Sue2_16:

(Start: 14 @10752 has 63 MA's), (22, 10785), (54, 10905), (64, 10941), (80, 11007), (102, 11109), (131, 11223), (133, 11229), (154, 11316), (157, 11325), (168, 11367), (203, 11514), (367, 11790), (411, 11874), (460, 11985), (487, 12063), (489, 12069), (492, 12078), (501, 12105), (534, 12204), (567, 12303), (572, 12315), (585, 12342), (592, 12357), (594, 12366), (597, 12375), (610, 12420), (635, 12507), (644, 12552), (678, 12675), (702, 12732), (709, 12750), (710, 12753), (724, 12801), (744, 12864), (755, 12903), (809, 13077),

Gene: Supakev_14 Start: 9740, Stop: 12298, Start Num: 12

Candidate Starts for Supakev_14:

(Start: 12 @9740 has 84 MA's), (15, 9749), (22, 9779), (45, 9869), (72, 9965), (81, 10010), (84, 10028), (123, 10196), (151, 10292), (153, 10295), (156, 10310), (180, 10397), (240, 10601), (241, 10604), (262, 10688), (373, 10994), (414, 11054), (423, 11072), (428, 11078), (439, 11111), (443, 11123), (460, 11159), (471, 11186), (479, 11210), (481, 11216), (499, 11273), (506, 11297), (509, 11306), (514, 11321), (522, 11345), (526, 11357), (534, 11378), (536, 11384), (544, 11405), (552, 11429), (555, 11438), (560, 11456), (567, 11477), (569, 11483), (573, 11495), (588, 11528), (592, 11531), (596, 11543), (599, 11558), (600, 11561), (627, 11648), (648, 11738), (649, 11741), (663, 11792), (678, 11849), (683, 11858), (709, 11924), (710, 11927), (726, 11981), (739, 12020), (753, 12068), (755, 12077), (763, 12101), (767, 12113), (795, 12209), (801, 12239),

Gene: SuperHands_15 Start: 11062, Stop: 13983, Start Num: 13

Candidate Starts for SuperHands_15:

(Start: 13 @11062 has 7 MA's), (57, 11245), (64, 11269), (79, 11341), (100, 11449), (114, 11509), (161, 11704), (193, 11839), (198, 11863), (199, 11866), (238, 11992), (242, 12001), (252, 12043), (269, 12109), (309, 12256), (326, 12316), (356, 12415), (373, 12466), (382, 12496), (408, 12580), (429, 12631), (440, 12664), (497, 12862), (527, 12955), (536, 12982), (548, 13015), (554, 13036), (564, 13069), (574, 13099), (587, 13147), (602, 13198), (638, 13330), (676, 13477), (724, 13609), (755, 13711), (775, 13768), (779, 13777), (796, 13870), (804, 13912), (812, 13948),

Gene: Superfresh_17 Start: 9353, Stop: 11623, Start Num: 20

Candidate Starts for Superfresh_17:

(Start: 20 @9353 has 123 MA's), (47, 9470), (54, 9500), (81, 9611), (85, 9635), (96, 9692), (116, 9764), (120, 9779), (122, 9788), (146, 9872), (158, 9917), (169, 9947), (191, 10037), (210, 10097), (232, 10154), (245, 10175), (287, 10271), (288, 10274), (304, 10316), (328, 10397), (336, 10418), (339, 10430), (350, 10463), (384, 10547), (394, 10577), (406, 10616), (419, 10649), (422, 10655), (432, 10682), (437, 10694), (440, 10703), (442, 10709), (455, 10745), (460, 10757), (474, 10787), (486, 10823), (503, 10880), (535, 10973), (559, 11045), (580, 11099), (630, 11177), (638, 11207), (639, 11210), (650, 11258), (662, 11300), (675, 11348), (679, 11363), (700, 11405), (740, 11519), (743, 11528), (760, 11585),

Gene: Suppi_18 Start: 12647, Stop: 15202, Start Num: 12

Candidate Starts for Suppi_18:

(6, 12626), (Start: 12 @12647 has 84 MA's), (26, 12695), (45, 12776), (53, 12800), (72, 12872), (82, 12920), (84, 12935), (85, 12941), (123, 13103), (140, 13148), (151, 13199), (153, 13202), (163, 13232), (197, 13370), (233, 13493), (250, 13553), (257, 13571), (261, 13586), (276, 13637), (352, 13868), (403, 13937), (414, 13961), (423, 13979), (428, 13985), (447, 14039), (454, 14051), (464, 14072), (472, 14096), (500, 14183), (507, 14207), (509, 14213), (510, 14216), (514, 14228), (521, 14249), (522, 14252), (524, 14258), (526, 14264), (529, 14273), (532, 14282), (534, 14285), (536, 14291), (546, 14315), (552, 14336), (555, 14345), (560, 14363), (567, 14384), (570, 14393), (573, 14402), (588, 14435), (592, 14438), (594, 14447), (596, 14450), (610, 14501), (636, 14591), (663, 14699), (666, 14711), (671, 14732), (672, 14735), (709, 14831), (710, 14834), (726, 14888), (739, 14927), (755, 14984), (770, 15026), (788, 15074), (795, 15116), (801, 15146),

Gene: Symere_17 Start: 9654, Stop: 11921, Start Num: 20

Candidate Starts for Symere_17:

(Start: 20 @9654 has 123 MA's), (47, 9771), (54, 9801), (71, 9861), (81, 9912), (85, 9936), (96, 9993), (120, 10080), (122, 10089), (146, 10173), (158, 10218), (168, 10245), (169, 10248), (191, 10338), (210, 10398), (232, 10455), (245, 10476), (287, 10572), (288, 10575), (304, 10617), (328, 10698), (336, 10719), (339, 10731), (350, 10764), (380, 10842), (384, 10848), (394, 10878), (406, 10917), (419, 10950), (422, 10956), (428, 10968), (432, 10983), (437, 10995), (440, 11004), (442, 11010), (460, 11058), (472, 11082), (474, 11088), (486, 11124), (503, 11181), (559, 11346), (580, 11400), (630, 11478), (638, 11508), (639, 11511), (650, 11559), (662, 11601), (675, 11649), (679, 11664), (700, 11706), (703, 11718), (740, 11817), (743, 11826), (760, 11883),

Gene: TMaxx_17 Start: 9424, Stop: 11712, Start Num: 11

Candidate Starts for TMaxx_17:

(Start: 11 @9424 has 8 MA's), (102, 9784), (103, 9787), (131, 9898), (132, 9901), (133, 9904), (168, 10042), (203, 10189), (212, 10219), (241, 10270), (319, 10360), (356, 10441), (421, 10516), (437, 10552), (441, 10564), (442, 10567), (457, 10600), (484, 10660), (503, 10723), (505, 10729), (506, 10732), (513, 10753), (515, 10759), (520, 10774), (529, 10801), (534, 10813), (537, 10822), (544, 10840), (550, 10855), (551, 10858), (553, 10867), (555, 10873), (558, 10885), (567, 10912), (573, 10930), (585, 10951), (592, 10966), (660, 11218), (666, 11239), (667, 11242), (709, 11359), (710, 11362), (739, 11455), (755, 11512), (763, 11536), (766, 11545), (773, 11563), (790, 11614), (793, 11629), (797, 11653),

Gene: Tallboi_16 Start: 10731, Stop: 13055, Start Num: 14

Candidate Starts for Tallboi_16:

(Start: 14 @10731 has 63 MA's), (49, 10878), (53, 10887), (75, 10977), (87, 11037), (95, 11082), (113, 11154), (128, 11214), (139, 11238), (144, 11268), (158, 11322), (167, 11352), (181, 11409), (187, 11433), (201, 11493), (202, 11499), (329, 11718), (428, 11886), (444, 11934), (468, 11988), (482, 12030), (494, 12069), (512, 12129), (547, 12222), (633, 12399), (635, 12408), (663, 12519), (709, 12651), (710, 12654), (720, 12687), (744, 12765), (755, 12804), (778, 12864), (785, 12894), (795, 12954),

Gene: TatarkaPM_17 Start: 9364, Stop: 11634, Start Num: 20

Candidate Starts for TatarkaPM_17:

(Start: 20 @9364 has 123 MA's), (47, 9481), (54, 9511), (71, 9571), (81, 9622), (85, 9646), (96, 9703), (120, 9790), (122, 9799), (146, 9883), (158, 9928), (168, 9955), (169, 9958), (191, 10048), (210, 10108), (232, 10165), (245, 10186), (287, 10282), (288, 10285), (304, 10327), (328, 10408), (336, 10429), (339, 10441), (350, 10474), (380, 10552), (384, 10558), (394, 10588), (406, 10627), (419, 10660), (422, 10666), (428, 10678), (432, 10693), (437, 10705), (440, 10714), (442, 10720), (460, 10768), (486, 10834), (503, 10891), (559, 11056), (580, 11110), (630, 11188), (638, 11218), (639, 11221), (650, 11269), (675, 11359), (679, 11374), (703, 11428), (710, 11443), (740, 11530), (743, 11539), (760, 11596),

Gene: TattModd_18 Start: 12617, Stop: 15178, Start Num: 12

Candidate Starts for TattModd_18:

(6, 12596), (Start: 12 @12617 has 84 MA's), (26, 12665), (34, 12698), (45, 12746), (53, 12770), (55, 12782), (72, 12842), (82, 12890), (84, 12905), (85, 12911), (113, 13031), (123, 13073), (151, 13169), (153, 13172), (163, 13202), (175, 13256), (212, 13397), (218, 13418), (226, 13442), (233, 13463), (237, 13472), (250, 13523), (257, 13541), (313, 13727), (373, 13871), (402, 13904), (414, 13931), (423, 13949), (428, 13955), (436, 13979), (439, 13988), (460, 14036), (471, 14063), (481, 14093), (483, 14099), (499, 14150), (503, 14165), (507, 14177), (509, 14183), (510, 14186), (513, 14195), (522, 14222), (526, 14234), (529, 14243), (534, 14255), (536, 14261), (544, 14282), (552, 14306), (555, 14315), (567, 14354), (573, 14372), (588, 14405), (592, 14408), (594, 14417), (596, 14420), (599, 14435), (627, 14525), (636, 14561), (663, 14669), (672, 14705), (709, 14801), (710, 14804), (726, 14858), (739, 14897), (753, 14945), (755, 14954), (763, 14978), (770, 14996), (788, 15047), (793, 15071), (795, 15089), (801, 15119),

Gene: Tbone_16 Start: 10734, Stop: 13049, Start Num: 14

Candidate Starts for Tbone_16:

(Start: 14 @10734 has 63 MA's), (53, 10890), (54, 10899), (75, 10980), (78, 10992), (87, 11040), (88, 11043), (95, 11085), (113, 11157), (138, 11238), (139, 11241), (144, 11271), (158, 11325), (167, 11355), (181, 11412), (187, 11436), (201, 11496), (329, 11721), (399, 11817), (425, 11880), (428, 11889), (444, 11937), (454, 11958), (468, 11991), (482, 12033), (494, 12072), (512, 12132), (561, 12273), (633, 12402), (635, 12411), (641, 12435), (648, 12468), (659, 12504), (663, 12522), (701,

12633), (709, 12654), (710, 12657), (720, 12690), (744, 12768), (755, 12807), (778, 12867), (785, 12897), (795, 12948), (807, 12993), (814, 13038),

Gene: Teagan_17 Start: 9358, Stop: 11628, Start Num: 20

Candidate Starts for Teagan_17:

(Start: 20 @9358 has 123 MA's), (47, 9475), (54, 9505), (71, 9565), (81, 9616), (85, 9640), (96, 9697), (120, 9784), (122, 9793), (146, 9877), (158, 9922), (168, 9949), (169, 9952), (191, 10042), (210, 10102), (232, 10159), (245, 10180), (287, 10276), (288, 10279), (292, 10291), (304, 10321), (328, 10402), (336, 10423), (339, 10435), (350, 10468), (374, 10531), (380, 10546), (384, 10552), (394, 10582), (406, 10621), (419, 10654), (422, 10660), (428, 10672), (432, 10687), (437, 10699), (440, 10708), (442, 10714), (460, 10762), (486, 10828), (503, 10885), (559, 11050), (580, 11104), (630, 11182), (638, 11212), (639, 11215), (650, 11263), (675, 11353), (679, 11368), (703, 11422), (710, 11437), (740, 11524), (743, 11533), (760, 11590),

Gene: TeddyBear_17 Start: 9667, Stop: 11937, Start Num: 20

Candidate Starts for TeddyBear_17:

(Start: 20 @9667 has 123 MA's), (47, 9784), (54, 9814), (71, 9874), (81, 9925), (85, 9949), (96, 10006), (120, 10093), (122, 10102), (146, 10186), (158, 10231), (168, 10258), (169, 10261), (191, 10351), (210, 10411), (232, 10468), (245, 10489), (287, 10585), (288, 10588), (304, 10630), (328, 10711), (336, 10732), (339, 10744), (350, 10777), (380, 10855), (384, 10861), (394, 10891), (406, 10930), (419, 10963), (422, 10969), (428, 10981), (432, 10996), (437, 11008), (440, 11017), (442, 11023), (460, 11071), (472, 11095), (474, 11101), (486, 11137), (503, 11194), (559, 11359), (580, 11413), (630, 11491), (638, 11521), (639, 11524), (650, 11572), (675, 11662), (679, 11677), (700, 11719), (703, 11731), (710, 11746), (740, 11833), (743, 11842), (760, 11899),

Gene: TeddyBoy_12 Start: 7547, Stop: 9652, Start Num: 32

Candidate Starts for TeddyBoy_12:

(Start: 32 @7547 has 142 MA's), (Start: 38 @7568 has 3 MA's), (80, 7745), (81, 7754), (85, 7778), (101, 7850), (106, 7874), (109, 7880), (149, 8030), (156, 8051), (158, 8063), (160, 8072), (212, 8279), (218, 8297), (270, 8384), (298, 8453), (313, 8465), (328, 8513), (346, 8543), (350, 8558), (363, 8594), (374, 8621), (384, 8642), (392, 8666), (400, 8690), (402, 8696), (410, 8723), (426, 8756), (439, 8795), (449, 8822), (456, 8843), (462, 8858), (476, 8885), (477, 8888), (484, 8909), (487, 8921), (489, 8927), (503, 8975), (529, 9050), (531, 9059), (541, 9086), (550, 9107), (570, 9170), (580, 9194), (626, 9251), (653, 9356), (659, 9377), (661, 9389), (673, 9431), (682, 9452), (693, 9473),

Gene: Temper16_14 Start: 9744, Stop: 12302, Start Num: 12

Candidate Starts for Temper16_14:

(Start: 12 @9744 has 84 MA's), (15, 9753), (22, 9783), (45, 9873), (55, 9909), (82, 10017), (84, 10032), (123, 10200), (151, 10296), (226, 10569), (233, 10590), (244, 10620), (250, 10650), (276, 10737), (314, 10860), (339, 10935), (373, 10998), (402, 11031), (411, 11052), (414, 11058), (423, 11076), (428, 11082), (436, 11106), (454, 11148), (460, 11163), (464, 11169), (473, 11196), (489, 11247), (500, 11280), (502, 11289), (509, 11310), (513, 11322), (522, 11349), (526, 11361), (529, 11370), (534, 11382), (536, 11388), (537, 11391), (546, 11412), (555, 11442), (560, 11460), (567, 11481), (570, 11490), (573, 11499), (588, 11532), (592, 11535), (596, 11547), (599, 11562), (626, 11646), (627, 11652), (636, 11688), (649, 11745), (651, 11754), (663, 11796), (678, 11853), (709, 11928), (710, 11931), (719, 11961), (726, 11985), (744, 12042), (753, 12072), (755, 12081), (763, 12105), (767, 12117), (801, 12243),

Gene: Tenda_17 Start: 9665, Stop: 11935, Start Num: 20

Candidate Starts for Tenda_17:

(Start: 20 @9665 has 123 MA's), (47, 9782), (54, 9812), (71, 9872), (81, 9923), (85, 9947), (96, 10004), (120, 10091), (122, 10100), (146, 10184), (158, 10229), (168, 10256), (169, 10259), (191, 10349), (210, 10409), (232, 10466), (245, 10487), (287, 10583), (288, 10586), (304, 10628), (328, 10709),

(336, 10730), (339, 10742), (350, 10775), (380, 10853), (384, 10859), (394, 10889), (406, 10928), (419, 10961), (422, 10967), (428, 10979), (432, 10994), (437, 11006), (440, 11015), (442, 11021), (460, 11069), (472, 11093), (474, 11099), (486, 11135), (503, 11192), (559, 11357), (580, 11411), (630, 11489), (638, 11519), (639, 11522), (650, 11570), (675, 11660), (679, 11675), (700, 11717), (703, 11729), (710, 11744), (740, 11831), (743, 11840), (760, 11897),

Gene: TforTroy_16 Start: 10854, Stop: 13178, Start Num: 14

Candidate Starts for TforTroy_16:

(Start: 14 @10854 has 63 MA's), (53, 11010), (54, 11019), (55, 11022), (56, 11028), (75, 11100), (87, 11160), (113, 11277), (138, 11358), (139, 11361), (144, 11391), (158, 11445), (167, 11475), (181, 11532), (187, 11556), (201, 11616), (202, 11622), (259, 11745), (329, 11841), (428, 12009), (444, 12057), (468, 12111), (482, 12153), (494, 12192), (512, 12252), (547, 12345), (611, 12480), (630, 12513), (633, 12522), (663, 12642), (709, 12774), (710, 12777), (744, 12888), (755, 12927),

Gene: Theresita_17 Start: 9173, Stop: 11581, Start Num: 21

Candidate Starts for Theresita_17:

(Start: 21 @9173 has 86 MA's), (47, 9287), (70, 9371), (71, 9377), (81, 9428), (85, 9452), (96, 9509), (118, 9590), (120, 9596), (122, 9605), (146, 9689), (158, 9734), (168, 9761), (169, 9764), (176, 9797), (179, 9806), (188, 9842), (191, 9854), (194, 9860), (210, 9914), (245, 9992), (258, 10034), (287, 10088), (288, 10091), (296, 10115), (308, 10148), (337, 10241), (350, 10280), (378, 10352), (379, 10355), (394, 10394), (398, 10406), (403, 10421), (427, 10481), (442, 10526), (547, 10820), (590, 10952), (597, 10979), (603, 11003), (611, 11036), (616, 11048), (618, 11057), (638, 11156), (639, 11159), (650, 11207), (675, 11297), (679, 11312), (695, 11345), (709, 11384), (715, 11402), (725, 11435), (743, 11486), (760, 11543), (768, 11570),

Gene: Thompsone_17 Start: 9362, Stop: 11632, Start Num: 20

Candidate Starts for Thompsone_17:

(Start: 20 @9362 has 123 MA's), (47, 9479), (54, 9509), (71, 9569), (81, 9620), (85, 9644), (96, 9701), (116, 9773), (120, 9788), (122, 9797), (146, 9881), (158, 9926), (169, 9956), (191, 10046), (210, 10106), (232, 10163), (245, 10184), (287, 10280), (288, 10283), (304, 10325), (328, 10406), (336, 10427), (339, 10439), (350, 10472), (384, 10556), (394, 10586), (406, 10625), (419, 10658), (422, 10664), (437, 10703), (440, 10712), (442, 10718), (455, 10754), (460, 10766), (474, 10796), (486, 10832), (503, 10889), (514, 10922), (535, 10982), (559, 11054), (630, 11186), (638, 11216), (639, 11219), (650, 11267), (662, 11309), (675, 11357), (679, 11372), (700, 11414), (710, 11441), (740, 11528), (743, 11537), (760, 11594),

Gene: Thorongil_17 Start: 9362, Stop: 11632, Start Num: 20

Candidate Starts for Thorongil_17:

(Start: 20 @9362 has 123 MA's), (47, 9479), (54, 9509), (81, 9620), (85, 9644), (96, 9701), (116, 9773), (120, 9788), (122, 9797), (146, 9881), (158, 9926), (169, 9956), (191, 10046), (210, 10106), (232, 10163), (245, 10184), (287, 10280), (288, 10283), (304, 10325), (328, 10406), (336, 10427), (339, 10439), (350, 10472), (384, 10556), (394, 10586), (406, 10625), (419, 10658), (422, 10664), (432, 10691), (437, 10703), (440, 10712), (442, 10718), (455, 10754), (460, 10766), (474, 10796), (486, 10832), (503, 10889), (514, 10922), (535, 10982), (559, 11054), (630, 11186), (638, 11216), (639, 11219), (650, 11267), (662, 11309), (675, 11357), (679, 11372), (700, 11414), (710, 11441), (740, 11528), (743, 11537), (760, 11594),

Gene: ThursdayNight_15 Start: 9237, Stop: 11804, Start Num: 14

Candidate Starts for ThursdayNight_15:

(Start: 14 @9237 has 63 MA's), (Start: 38 @9324 has 3 MA's), (58, 9405), (59, 9411), (64, 9426), (80, 9492), (102, 9594), (120, 9669), (131, 9708), (133, 9714), (154, 9801), (168, 9852), (179, 9897), (203, 9999), (209, 10017), (214, 10038), (227, 10074), (338, 10332), (429, 10578), (453, 10638), (479, 10695), (481, 10701), (484, 10710), (504, 10776), (506, 10782), (511, 10797), (514, 10806), (534,

10863), (546, 10893), (562, 10947), (567, 10962), (573, 10980), (582, 10992), (592, 11016), (597, 11034), (617, 11100), (709, 11409), (710, 11412), (731, 11478), (739, 11505), (755, 11562), (766, 11595), (785, 11646), (811, 11760),

Gene: Tian_16 Start: 10746, Stop: 13070, Start Num: 14

Candidate Starts for Tian_16:

(Start: 14 @10746 has 63 MA's), (53, 10902), (54, 10911), (75, 10992), (87, 11052), (95, 11097), (113, 11169), (128, 11229), (138, 11250), (139, 11253), (144, 11283), (158, 11337), (167, 11367), (181, 11424), (187, 11448), (201, 11508), (202, 11514), (258, 11634), (329, 11733), (399, 11829), (428, 11901), (444, 11949), (454, 11970), (468, 12003), (482, 12045), (494, 12084), (512, 12144), (517, 12159), (541, 12225), (586, 12348), (597, 12357), (633, 12414), (635, 12423), (648, 12480), (649, 12483), (663, 12534), (709, 12666), (710, 12669), (744, 12780), (755, 12819), (763, 12843), (795, 12969),

Gene: TimoTea_12 Start: 7528, Stop: 9633, Start Num: 32

Candidate Starts for TimoTea_12:

(Start: 32 @7528 has 142 MA's), (Start: 38 @7549 has 3 MA's), (80, 7726), (81, 7735), (85, 7759), (101, 7831), (106, 7855), (109, 7861), (149, 8011), (156, 8032), (158, 8044), (160, 8053), (212, 8260), (218, 8278), (270, 8365), (298, 8434), (313, 8446), (328, 8494), (346, 8524), (350, 8539), (363, 8575), (374, 8602), (384, 8623), (392, 8647), (400, 8671), (402, 8677), (410, 8704), (426, 8737), (439, 8776), (449, 8803), (456, 8824), (462, 8839), (476, 8866), (477, 8869), (484, 8890), (487, 8902), (489, 8908), (503, 8956), (529, 9031), (531, 9040), (541, 9067), (550, 9088), (570, 9151), (580, 9175), (626, 9232), (653, 9337), (659, 9358), (661, 9370), (673, 9412), (682, 9433), (693, 9454),

Gene: TinSulphur_17 Start: 9364, Stop: 11634, Start Num: 20

Candidate Starts for TinSulphur_17:

(Start: 20 @9364 has 123 MA's), (47, 9481), (54, 9511), (71, 9571), (81, 9622), (85, 9646), (96, 9703), (120, 9790), (122, 9799), (146, 9883), (158, 9928), (168, 9955), (169, 9958), (191, 10048), (210, 10108), (232, 10165), (245, 10186), (287, 10282), (288, 10285), (304, 10327), (328, 10408), (336, 10429), (339, 10441), (350, 10474), (380, 10552), (384, 10558), (394, 10588), (406, 10627), (419, 10660), (422, 10666), (428, 10678), (432, 10693), (437, 10705), (440, 10714), (442, 10720), (460, 10768), (486, 10834), (503, 10891), (559, 11056), (580, 11110), (630, 11188), (638, 11218), (639, 11221), (650, 11269), (675, 11359), (679, 11374), (703, 11428), (710, 11443), (740, 11530), (743, 11539), (760, 11596),

Gene: TinyTruffula_12 Start: 7648, Stop: 9753, Start Num: 32

Candidate Starts for TinyTruffula_12:

(Start: 32 @7648 has 142 MA's), (Start: 38 @7669 has 3 MA's), (80, 7846), (81, 7855), (85, 7879), (101, 7951), (106, 7975), (137, 8074), (149, 8131), (156, 8152), (158, 8164), (160, 8173), (212, 8380), (218, 8398), (270, 8485), (298, 8554), (313, 8566), (328, 8614), (346, 8644), (350, 8659), (384, 8743), (385, 8746), (392, 8767), (402, 8797), (410, 8824), (426, 8857), (439, 8896), (449, 8923), (451, 8929), (456, 8944), (462, 8959), (477, 8989), (484, 9010), (487, 9022), (489, 9028), (503, 9076), (515, 9112), (531, 9160), (541, 9187), (550, 9208), (570, 9271), (580, 9295), (626, 9352), (653, 9457), (659, 9478), (673, 9532), (682, 9553), (693, 9574),

Gene: Tinyman4_18 Start: 9965, Stop: 12403, Start Num: 21

Candidate Starts for Tinyman4_18:

(Start: 21 @9965 has 86 MA's), (39, 10037), (69, 10157), (85, 10241), (96, 10298), (102, 10316), (122, 10394), (127, 10415), (146, 10478), (158, 10523), (178, 10583), (183, 10601), (191, 10634), (210, 10694), (219, 10724), (222, 10730), (238, 10769), (245, 10790), (273, 10856), (287, 10886), (288, 10889), (292, 10901), (308, 10946), (310, 10952), (328, 11012), (353, 11087), (354, 11090), (384, 11162), (389, 11177), (410, 11243), (432, 11297), (442, 11324), (453, 11354), (456, 11363), (472, 11396), (474, 11402), (479, 11414), (487, 11441), (492, 11456), (494, 11462), (497, 11474), (503,

11495), (514, 11528), (525, 11558), (529, 11570), (559, 11660), (575, 11705), (584, 11729), (587, 11738), (590, 11750), (594, 11768), (608, 11825), (613, 11837), (630, 11924), (638, 11954), (639, 11957), (654, 12017), (656, 12023), (678, 12107), (679, 12110), (685, 12122), (692, 12140), (750, 12314), (754, 12329), (772, 12386),

Gene: TlaliMex_12 Start: 7643, Stop: 9748, Start Num: 32

Candidate Starts for TlaliMex_12:

(Start: 32 @7643 has 142 MA's), (Start: 38 @7664 has 3 MA's), (80, 7841), (81, 7850), (85, 7874), (101, 7946), (106, 7970), (112, 7988), (137, 8069), (149, 8126), (156, 8147), (158, 8159), (160, 8168), (212, 8375), (218, 8393), (270, 8480), (298, 8549), (313, 8561), (328, 8609), (346, 8639), (350, 8654), (370, 8708), (384, 8738), (385, 8741), (392, 8762), (402, 8792), (410, 8819), (426, 8852), (439, 8891), (449, 8918), (451, 8924), (456, 8939), (462, 8954), (476, 8981), (477, 8984), (484, 9005), (487, 9017), (489, 9023), (503, 9071), (515, 9107), (531, 9155), (541, 9182), (550, 9203), (570, 9266), (580, 9290), (626, 9347), (653, 9452), (659, 9473), (661, 9485), (673, 9527), (682, 9548), (693, 9569),

Gene: TomBrady12_12 Start: 7580, Stop: 9685, Start Num: 32

Candidate Starts for TomBrady12_12:

(Start: 32 @7580 has 142 MA's), (Start: 38 @7601 has 3 MA's), (80, 7778), (81, 7787), (85, 7811), (101, 7883), (106, 7907), (137, 8006), (156, 8084), (158, 8096), (160, 8105), (212, 8312), (218, 8330), (270, 8417), (298, 8486), (313, 8498), (328, 8546), (346, 8576), (350, 8591), (370, 8645), (384, 8675), (385, 8678), (392, 8699), (402, 8729), (410, 8756), (426, 8789), (439, 8828), (449, 8855), (451, 8861), (456, 8876), (462, 8891), (476, 8918), (477, 8921), (484, 8942), (487, 8954), (489, 8960), (503, 9008), (515, 9044), (531, 9092), (541, 9119), (550, 9140), (570, 9203), (580, 9227), (626, 9284), (653, 9389), (659, 9410), (673, 9464), (682, 9485), (693, 9506),

Gene: Toxicola_13 Start: 7442, Stop: 9547, Start Num: 32

Candidate Starts for Toxicola_13:

(Start: 32 @7442 has 142 MA's), (Start: 38 @7463 has 3 MA's), (80, 7640), (81, 7649), (85, 7673), (101, 7745), (106, 7769), (109, 7775), (149, 7925), (156, 7946), (158, 7958), (160, 7967), (212, 8174), (218, 8192), (270, 8279), (298, 8348), (313, 8360), (328, 8408), (346, 8438), (350, 8453), (374, 8516), (385, 8540), (392, 8561), (400, 8585), (402, 8591), (410, 8618), (426, 8651), (439, 8690), (451, 8723), (456, 8738), (462, 8753), (476, 8780), (487, 8816), (489, 8822), (503, 8870), (531, 8954), (541, 8981), (550, 9002), (570, 9065), (580, 9089), (626, 9146), (653, 9251), (659, 9272), (661, 9284), (673, 9326), (682, 9347), (693, 9368), (745, 9497),

Gene: Trackstar_12 Start: 7648, Stop: 9753, Start Num: 32

Candidate Starts for Trackstar_12:

(Start: 32 @7648 has 142 MA's), (Start: 38 @7669 has 3 MA's), (80, 7846), (81, 7855), (85, 7879), (101, 7951), (106, 7975), (137, 8074), (149, 8131), (156, 8152), (158, 8164), (160, 8173), (212, 8380), (218, 8398), (270, 8485), (298, 8554), (313, 8566), (328, 8614), (346, 8644), (350, 8659), (370, 8713), (384, 8743), (385, 8746), (392, 8767), (402, 8797), (410, 8824), (426, 8857), (439, 8896), (449, 8923), (451, 8929), (456, 8944), (462, 8959), (477, 8989), (484, 9010), (487, 9022), (489, 9028), (503, 9076), (515, 9112), (531, 9160), (541, 9187), (550, 9208), (570, 9271), (580, 9295), (626, 9352), (653, 9457), (659, 9478), (673, 9532), (682, 9553), (693, 9574),

Gene: TripleC_20 Start: 12930, Stop: 15218, Start Num: 11

Candidate Starts for TripleC_20:

(Start: 11 @12930 has 8 MA's), (41, 13035), (102, 13290), (103, 13293), (117, 13356), (131, 13404), (132, 13407), (133, 13410), (168, 13548), (203, 13695), (212, 13725), (241, 13776), (319, 13866), (356, 13947), (414, 14007), (437, 14058), (441, 14070), (442, 14073), (484, 14166), (489, 14184), (490, 14187), (503, 14229), (505, 14235), (506, 14238), (514, 14262), (536, 14325), (537, 14328), (544, 14346), (553, 14373), (560, 14397), (565, 14412), (567, 14418), (572, 14430), (573, 14436), (585, 14457), (586, 14460), (592, 14472), (597, 14490), (633, 14613), (638, 14634), (660, 14724),

(666, 14745), (667, 14748), (675, 14778), (701, 14844), (709, 14865), (710, 14868), (720, 14901),
(739, 14961), (755, 15018), (763, 15042), (766, 15051), (793, 15135), (797, 15159),

Gene: Trireme_12 Start: 7646, Stop: 9751, Start Num: 32

Candidate Starts for Trireme_12:

(Start: 32 @7646 has 142 MA's), (Start: 38 @7667 has 3 MA's), (80, 7844), (81, 7853), (85, 7877),
(101, 7949), (106, 7973), (137, 8072), (149, 8129), (156, 8150), (158, 8162), (160, 8171), (212, 8378),
(218, 8396), (270, 8483), (298, 8552), (313, 8564), (328, 8612), (346, 8642), (350, 8657), (370, 8711),
(384, 8741), (385, 8744), (392, 8765), (402, 8795), (410, 8822), (426, 8855), (439, 8894), (449, 8921),
(451, 8927), (456, 8942), (462, 8957), (477, 8987), (484, 9008), (487, 9020), (489, 9026), (503, 9074),
(515, 9110), (531, 9158), (541, 9185), (550, 9206), (570, 9269), (580, 9293), (626, 9350), (653, 9455),
(659, 9476), (673, 9530), (682, 9551), (693, 9572),

Gene: Tuck_17 Start: 11773, Stop: 14250, Start Num: 14

Candidate Starts for Tuck_17:

(Start: 14 @11773 has 63 MA's), (53, 11929), (54, 11938), (75, 12019), (87, 12079), (95, 12124), (113,
12196), (139, 12280), (144, 12310), (158, 12364), (167, 12394), (181, 12451), (187, 12475), (201,
12535), (202, 12541), (211, 12565), (238, 12643), (256, 12676), (316, 12811), (329, 12853), (368,
12952), (401, 13024), (417, 13063), (428, 13090), (444, 13138), (459, 13171), (482, 13234), (499,
13291), (512, 13333), (517, 13348), (547, 13426), (598, 13549), (631, 13597), (635, 13612), (659,
13705), (663, 13723), (666, 13735), (709, 13855), (710, 13858), (744, 13969), (755, 14008), (785,
14098),

Gene: Turab_16 Start: 10733, Stop: 13057, Start Num: 14

Candidate Starts for Turab_16:

(Start: 14 @10733 has 63 MA's), (53, 10889), (54, 10898), (58, 10913), (75, 10979), (87, 11039), (95,
11084), (113, 11156), (138, 11237), (139, 11240), (144, 11270), (158, 11324), (167, 11354), (181,
11411), (187, 11435), (201, 11495), (202, 11501), (329, 11720), (399, 11816), (410, 11849), (444,
11936), (468, 11990), (482, 12032), (494, 12071), (512, 12131), (561, 12272), (633, 12401), (635,
12410), (663, 12521), (709, 12653), (710, 12656), (720, 12689), (744, 12767), (755, 12806), (778,
12866), (795, 12956),

Gene: TurboVicky_19 Start: 13340, Stop: 15328, Start Num: 24

Candidate Starts for TurboVicky_19:

(Start: 24 @13340 has 21 MA's), (36, 13379), (64, 13490), (69, 13505), (72, 13517), (113, 13709),
(120, 13733), (132, 13775), (168, 13916), (185, 13982), (208, 14078), (296, 14189), (337, 14291),
(350, 14315), (417, 14384), (433, 14417), (519, 14582), (587, 14630), (592, 14642), (597, 14660),
(634, 14762), (637, 14774), (638, 14780), (727, 15035), (747, 15101), (766, 15161), (808, 15302),

Gene: Tutumahutu_16 Start: 10781, Stop: 13096, Start Num: 14

Candidate Starts for Tutumahutu_16:

(Start: 14 @10781 has 63 MA's), (53, 10937), (54, 10946), (75, 11027), (78, 11039), (87, 11087), (88,
11090), (95, 11132), (113, 11204), (138, 11285), (139, 11288), (144, 11318), (158, 11372), (167,
11402), (181, 11459), (187, 11483), (201, 11543), (329, 11768), (399, 11864), (425, 11927), (428,
11936), (444, 11984), (450, 11993), (454, 12005), (468, 12038), (482, 12080), (494, 12119), (512,
12179), (561, 12320), (598, 12395), (611, 12407), (633, 12449), (635, 12458), (641, 12482), (659,
12551), (663, 12569), (666, 12581), (701, 12680), (709, 12701), (710, 12704), (720, 12737), (744,
12815), (755, 12854), (778, 12914), (785, 12944), (795, 12995), (807, 13040), (814, 13085),

Gene: Tweety19_16 Start: 9837, Stop: 12116, Start Num: 14

Candidate Starts for Tweety19_16:

(Start: 14 @9837 has 63 MA's), (69, 10041), (80, 10092), (102, 10194), (117, 10260), (131, 10308),
(133, 10314), (154, 10401), (157, 10410), (168, 10452), (179, 10497), (203, 10599), (209, 10617),

(317, 10746), (322, 10761), (349, 10803), (373, 10824), (393, 10839), (447, 10950), (481, 11022), (484, 11031), (486, 11040), (490, 11052), (504, 11097), (506, 11103), (511, 11118), (518, 11139), (534, 11184), (560, 11262), (592, 11337), (597, 11355), (639, 11502), (667, 11613), (687, 11676), (697, 11697), (705, 11724), (712, 11739), (742, 11829), (749, 11859), (771, 11925), (809, 12051), (813, 12090),

Gene: TwoBits_18 Start: 9676, Stop: 12117, Start Num: 21

Candidate Starts for TwoBits_18:

(Start: 21 @9676 has 86 MA's), (Start: 30 @9709 has 5 MA's), (78, 9910), (85, 9952), (96, 10009), (102, 10027), (108, 10051), (118, 10090), (122, 10105), (127, 10126), (134, 10144), (146, 10189), (158, 10234), (173, 10276), (178, 10294), (191, 10345), (219, 10435), (222, 10441), (238, 10480), (255, 10534), (273, 10567), (287, 10597), (288, 10600), (292, 10612), (308, 10657), (310, 10663), (336, 10744), (347, 10777), (353, 10798), (367, 10837), (384, 10873), (388, 10885), (395, 10906), (404, 10933), (410, 10954), (442, 11035), (453, 11065), (474, 11113), (479, 11125), (487, 11152), (492, 11167), (503, 11206), (514, 11239), (525, 11269), (529, 11281), (570, 11401), (574, 11413), (590, 11461), (594, 11479), (613, 11548), (616, 11557), (630, 11635), (638, 11665), (639, 11668), (653, 11722), (660, 11752), (679, 11821), (685, 11833), (705, 11890), (709, 11896), (715, 11914), (747, 12019), (765, 12073), (774, 12100), (776, 12103),

Gene: Typher_21 Start: 13470, Stop: 15458, Start Num: 24

Candidate Starts for Typher_21:

(Start: 24 @13470 has 21 MA's), (36, 13509), (64, 13620), (69, 13635), (72, 13647), (113, 13839), (120, 13863), (132, 13905), (168, 14046), (185, 14112), (208, 14208), (296, 14319), (337, 14421), (350, 14445), (417, 14514), (433, 14547), (519, 14712), (547, 14745), (587, 14760), (592, 14772), (597, 14790), (637, 14904), (638, 14910), (727, 15165), (747, 15231), (766, 15291), (808, 15432),

Gene: Tyrellus_12 Start: 7546, Stop: 9651, Start Num: 32

Candidate Starts for Tyrellus_12:

(Start: 32 @7546 has 142 MA's), (Start: 38 @7567 has 3 MA's), (80, 7744), (81, 7753), (85, 7777), (101, 7849), (106, 7873), (109, 7879), (149, 8029), (156, 8050), (158, 8062), (160, 8071), (212, 8278), (218, 8296), (270, 8383), (298, 8452), (313, 8464), (328, 8512), (346, 8542), (350, 8557), (363, 8593), (374, 8620), (384, 8641), (392, 8665), (400, 8689), (402, 8695), (410, 8722), (426, 8755), (439, 8794), (449, 8821), (456, 8842), (462, 8857), (476, 8884), (477, 8887), (484, 8908), (487, 8920), (489, 8926), (503, 8974), (529, 9049), (531, 9058), (541, 9085), (550, 9106), (570, 9169), (580, 9193), (626, 9250), (653, 9355), (659, 9376), (661, 9388), (673, 9430), (682, 9451), (693, 9472),

Gene: Upsilon_12 Start: 7615, Stop: 9720, Start Num: 32

Candidate Starts for Upsilon_12:

(Start: 32 @7615 has 142 MA's), (Start: 38 @7636 has 3 MA's), (80, 7813), (81, 7822), (85, 7846), (101, 7918), (106, 7942), (137, 8041), (149, 8098), (156, 8119), (158, 8131), (160, 8140), (212, 8347), (218, 8365), (270, 8452), (298, 8521), (313, 8533), (328, 8581), (346, 8611), (350, 8626), (370, 8680), (384, 8710), (385, 8713), (392, 8734), (402, 8764), (410, 8791), (426, 8824), (439, 8863), (449, 8890), (451, 8896), (456, 8911), (462, 8926), (477, 8956), (484, 8977), (487, 8989), (489, 8995), (503, 9043), (515, 9079), (531, 9127), (541, 9154), (550, 9175), (570, 9238), (580, 9262), (626, 9319), (653, 9424), (659, 9445), (661, 9457), (673, 9499), (682, 9520), (693, 9541),

Gene: Urla_14 Start: 9754, Stop: 12303, Start Num: 12

Candidate Starts for Urla_14:

(Start: 12 @9754 has 84 MA's), (45, 9883), (55, 9919), (82, 10027), (84, 10042), (118, 10189), (123, 10210), (151, 10306), (176, 10396), (233, 10600), (250, 10660), (253, 10669), (373, 10996), (411, 11050), (414, 11056), (423, 11074), (439, 11113), (460, 11161), (483, 11224), (500, 11278), (507, 11302), (509, 11308), (522, 11347), (526, 11359), (532, 11377), (534, 11380), (536, 11386), (537, 11389), (544, 11407), (555, 11440), (560, 11458), (567, 11479), (570, 11488), (573, 11497), (588,

11530), (592, 11533), (594, 11542), (596, 11545), (599, 11560), (626, 11644), (636, 11686), (663, 11794), (666, 11806), (678, 11851), (683, 11860), (709, 11926), (710, 11929), (726, 11983), (739, 12022), (753, 12070), (755, 12079), (763, 12103), (767, 12115), (788, 12172), (789, 12178), (801, 12244), (812, 12286),

Gene: UtzChips_14 Start: 9915, Stop: 12263, Start Num: 21

Candidate Starts for UtzChips_14:

(Start: 21 @9915 has 86 MA's), (65, 10098), (85, 10194), (111, 10302), (126, 10362), (177, 10557), (192, 10620), (214, 10704), (218, 10716), (220, 10719), (241, 10770), (254, 10821), (279, 10908), (295, 10968), (302, 10992), (325, 11073), (345, 11133), (351, 11154), (374, 11214), (384, 11235), (387, 11244), (404, 11295), (436, 11382), (439, 11391), (477, 11487), (479, 11493), (489, 11526), (519, 11622), (531, 11661), (580, 11799), (627, 11862), (656, 11973), (688, 12078), (703, 12114),

Gene: VResidence_16 Start: 10828, Stop: 13143, Start Num: 19

Candidate Starts for VResidence_16:

(Start: 19 @10828 has 21 MA's), (29, 10861), (41, 10915), (55, 10984), (85, 11116), (91, 11143), (111, 11224), (124, 11275), (126, 11284), (149, 11368), (177, 11479), (189, 11530), (213, 11620), (226, 11644), (236, 11671), (264, 11764), (324, 11956), (334, 11983), (348, 12016), (358, 12049), (384, 12067), (386, 12073), (401, 12115), (404, 12124), (407, 12136), (434, 12190), (442, 12214), (460, 12256), (462, 12262), (473, 12310), (487, 12355), (493, 12373), (496, 12385), (510, 12430), (533, 12496), (536, 12505), (624, 12730), (627, 12748), (628, 12751), (643, 12817), (656, 12862), (660, 12880), (666, 12901), (706, 13012), (728, 13078),

Gene: Vafari_19 Start: 9870, Stop: 12311, Start Num: 21

Candidate Starts for Vafari_19:

(Start: 21 @9870 has 86 MA's), (Start: 30 @9903 has 5 MA's), (78, 10104), (85, 10146), (96, 10203), (102, 10221), (108, 10245), (122, 10299), (127, 10320), (146, 10383), (158, 10428), (173, 10470), (178, 10488), (191, 10539), (222, 10635), (245, 10695), (258, 10737), (273, 10761), (287, 10791), (288, 10794), (291, 10803), (308, 10851), (310, 10857), (341, 10956), (347, 10971), (353, 10992), (384, 11067), (385, 11070), (404, 11127), (415, 11157), (442, 11229), (453, 11259), (456, 11268), (472, 11301), (474, 11307), (479, 11319), (489, 11352), (494, 11367), (503, 11400), (514, 11433), (525, 11463), (529, 11475), (574, 11607), (590, 11655), (591, 11661), (594, 11673), (613, 11742), (616, 11751), (630, 11829), (638, 11859), (678, 12012), (679, 12015), (685, 12027), (709, 12090), (715, 12108), (730, 12153), (747, 12213), (774, 12294), (776, 12297),

Gene: Vallejo_18 Start: 12556, Stop: 15117, Start Num: 12

Candidate Starts for Vallejo_18:

(6, 12535), (Start: 12 @12556 has 84 MA's), (26, 12604), (34, 12637), (45, 12685), (53, 12709), (55, 12721), (72, 12781), (82, 12829), (84, 12844), (85, 12850), (113, 12970), (123, 13012), (151, 13108), (153, 13111), (163, 13141), (175, 13195), (176, 13198), (212, 13336), (218, 13357), (226, 13381), (233, 13402), (237, 13411), (250, 13462), (257, 13480), (313, 13666), (373, 13810), (402, 13843), (414, 13870), (423, 13888), (428, 13894), (436, 13918), (439, 13927), (460, 13975), (471, 14002), (472, 14005), (479, 14026), (481, 14032), (483, 14038), (499, 14089), (503, 14104), (507, 14116), (509, 14122), (510, 14125), (513, 14134), (522, 14161), (526, 14173), (529, 14182), (534, 14194), (536, 14200), (544, 14221), (555, 14254), (567, 14293), (588, 14344), (592, 14347), (594, 14356), (596, 14359), (599, 14374), (627, 14464), (636, 14500), (663, 14608), (672, 14644), (709, 14740), (710, 14743), (726, 14797), (739, 14836), (753, 14884), (755, 14893), (763, 14917), (770, 14935), (788, 14986), (793, 15010), (795, 15028), (801, 15058),

Gene: Vanisius_12 Start: 7552, Stop: 9657, Start Num: 32

Candidate Starts for Vanisius_12:

(Start: 32 @7552 has 142 MA's), (Start: 38 @7573 has 3 MA's), (80, 7750), (81, 7759), (85, 7783), (101, 7855), (106, 7879), (109, 7885), (149, 8035), (156, 8056), (158, 8068), (160, 8077), (212, 8284),

(218, 8302), (270, 8389), (298, 8458), (313, 8470), (328, 8518), (346, 8548), (350, 8563), (363, 8599), (374, 8626), (384, 8647), (392, 8671), (400, 8695), (402, 8701), (410, 8728), (426, 8761), (439, 8800), (449, 8827), (456, 8848), (462, 8863), (476, 8890), (477, 8893), (484, 8914), (487, 8926), (489, 8932), (503, 8980), (529, 9055), (531, 9064), (541, 9091), (550, 9112), (570, 9175), (580, 9199), (626, 9256), (653, 9361), (659, 9382), (661, 9394), (673, 9436), (682, 9457), (693, 9478),

Gene: Velene_17 Start: 9362, Stop: 11632, Start Num: 20

Candidate Starts for Velene_17:

(Start: 20 @9362 has 123 MA's), (47, 9479), (54, 9509), (81, 9620), (85, 9644), (96, 9701), (116, 9773), (120, 9788), (122, 9797), (146, 9881), (158, 9926), (169, 9956), (191, 10046), (210, 10106), (232, 10163), (245, 10184), (287, 10280), (288, 10283), (304, 10325), (328, 10406), (336, 10427), (339, 10439), (350, 10472), (384, 10556), (394, 10586), (406, 10625), (419, 10658), (422, 10664), (437, 10703), (440, 10712), (442, 10718), (455, 10754), (460, 10766), (474, 10796), (486, 10832), (503, 10889), (514, 10922), (535, 10982), (559, 11054), (630, 11186), (638, 11216), (639, 11219), (650, 11267), (662, 11309), (675, 11357), (679, 11372), (700, 11414), (710, 11441), (740, 11528), (743, 11537), (760, 11594),

Gene: Vispistious_17 Start: 9362, Stop: 11632, Start Num: 20

Candidate Starts for Vispistious_17:

(Start: 20 @9362 has 123 MA's), (47, 9479), (54, 9509), (81, 9620), (85, 9644), (96, 9701), (116, 9773), (120, 9788), (122, 9797), (146, 9881), (158, 9926), (169, 9956), (191, 10046), (210, 10106), (232, 10163), (245, 10184), (287, 10280), (288, 10283), (304, 10325), (328, 10406), (336, 10427), (339, 10439), (350, 10472), (384, 10556), (394, 10586), (406, 10625), (419, 10658), (422, 10664), (437, 10703), (440, 10712), (442, 10718), (455, 10754), (460, 10766), (474, 10796), (486, 10832), (503, 10889), (514, 10922), (535, 10982), (559, 11054), (630, 11186), (638, 11216), (639, 11219), (650, 11267), (662, 11309), (675, 11357), (679, 11372), (700, 11414), (710, 11441), (740, 11528), (743, 11537), (760, 11594),

Gene: VitulaEligans_12 Start: 7636, Stop: 9741, Start Num: 32

Candidate Starts for VitulaEligans_12:

(Start: 32 @7636 has 142 MA's), (Start: 38 @7657 has 3 MA's), (80, 7834), (81, 7843), (85, 7867), (101, 7939), (106, 7963), (109, 7969), (149, 8119), (156, 8140), (158, 8152), (160, 8161), (212, 8368), (218, 8386), (270, 8473), (298, 8542), (313, 8554), (328, 8602), (346, 8632), (350, 8647), (374, 8710), (384, 8731), (392, 8755), (400, 8779), (402, 8785), (410, 8812), (426, 8845), (439, 8884), (449, 8911), (456, 8932), (462, 8947), (476, 8974), (477, 8977), (484, 8998), (487, 9010), (489, 9016), (503, 9064), (515, 9100), (529, 9139), (531, 9148), (541, 9175), (550, 9196), (570, 9259), (580, 9283), (626, 9340), (653, 9445), (659, 9466), (661, 9478), (673, 9520), (682, 9541), (693, 9562), (745, 9691),

Gene: VroomVroom_15 Start: 8983, Stop: 11226, Start Num: 14

Candidate Starts for VroomVroom_15:

(Start: 14 @8983 has 63 MA's), (Start: 38 @9070 has 3 MA's), (58, 9151), (64, 9172), (80, 9238), (103, 9343), (131, 9454), (133, 9460), (157, 9556), (168, 9598), (203, 9745), (319, 9880), (327, 9907), (349, 9940), (428, 10024), (441, 10063), (459, 10102), (473, 10126), (481, 10150), (484, 10159), (489, 10177), (498, 10204), (502, 10219), (514, 10255), (518, 10267), (534, 10312), (536, 10318), (557, 10378), (562, 10396), (570, 10420), (588, 10462), (592, 10465), (600, 10495), (632, 10603), (709, 10858), (713, 10870), (739, 10954), (742, 10960), (749, 10990),

Gene: Vulture_14 Start: 9738, Stop: 12296, Start Num: 12

Candidate Starts for Vulture_14:

(Start: 12 @9738 has 84 MA's), (15, 9747), (22, 9777), (45, 9867), (72, 9963), (84, 10026), (123, 10194), (151, 10290), (153, 10293), (156, 10308), (180, 10395), (197, 10461), (240, 10599), (241, 10602), (262, 10686), (373, 10992), (414, 11052), (423, 11070), (428, 11076), (439, 11109), (443, 11121), (460, 11157), (471, 11184), (479, 11208), (481, 11214), (499, 11271), (506, 11295), (509,

11304), (514, 11319), (522, 11343), (526, 11355), (534, 11376), (536, 11382), (544, 11403), (552, 11427), (555, 11436), (560, 11454), (567, 11475), (569, 11481), (573, 11493), (588, 11526), (592, 11529), (596, 11541), (599, 11556), (600, 11559), (627, 11646), (648, 11736), (649, 11739), (663, 11790), (678, 11847), (683, 11856), (689, 11868), (709, 11922), (710, 11925), (726, 11979), (739, 12018), (753, 12066), (755, 12075), (763, 12099), (767, 12111), (795, 12207), (801, 12237),

Gene: Waltz_64 Start: 34787, Stop: 37879, Start Num: 4

Candidate Starts for Waltz_64:

(3, 34781), (Start: 4 @34787 has 6 MA's), (7, 34805), (8, 34808), (16, 34838), (35, 34916), (60, 35018), (64, 35030), (80, 35099), (131, 35315), (132, 35318), (133, 35321), (154, 35408), (168, 35459), (179, 35504), (186, 35531), (203, 35606), (209, 35624), (218, 35657), (233, 35702), (241, 35720), (256, 35786), (257, 35789), (268, 35828), (278, 35861), (282, 35882), (286, 35897), (298, 35939), (307, 35969), (313, 35993), (320, 36017), (322, 36023), (326, 36038), (329, 36047), (357, 36140), (365, 36161), (376, 36197), (386, 36230), (403, 36281), (409, 36311), (434, 36374), (452, 36422), (460, 36443), (468, 36461), (472, 36473), (475, 36482), (480, 36497), (486, 36518), (500, 36563), (502, 36572), (508, 36590), (525, 36641), (535, 36671), (538, 36680), (560, 36749), (578, 36806), (616, 36938), (620, 36956), (629, 37010), (630, 37013), (642, 37064), (643, 37067), (660, 37133), (664, 37145), (699, 37244), (704, 37265), (719, 37307), (746, 37397), (753, 37418), (761, 37442), (763, 37451), (771, 37472), (782, 37505), (784, 37514), (805, 37607), (815, 37652), (820, 37718), (822, 37775), (823, 37841),

Gene: Warda_16 Start: 10726, Stop: 13041, Start Num: 14

Candidate Starts for Warda_16:

(Start: 14 @10726 has 63 MA's), (53, 10882), (54, 10891), (75, 10972), (78, 10984), (87, 11032), (88, 11035), (95, 11077), (113, 11149), (138, 11230), (139, 11233), (144, 11263), (158, 11317), (167, 11347), (181, 11404), (187, 11428), (201, 11488), (329, 11713), (399, 11809), (425, 11872), (428, 11881), (444, 11929), (454, 11950), (468, 11983), (482, 12025), (494, 12064), (512, 12124), (561, 12265), (633, 12394), (635, 12403), (641, 12427), (648, 12460), (659, 12496), (663, 12514), (701, 12625), (709, 12646), (710, 12649), (720, 12682), (744, 12760), (755, 12799), (778, 12859), (785, 12889), (795, 12940), (807, 12985), (814, 13030),

Gene: Wardwill_20 Start: 10041, Stop: 12482, Start Num: 21

Candidate Starts for Wardwill_20:

(Start: 21 @10041 has 86 MA's), (Start: 30 @10074 has 5 MA's), (85, 10317), (96, 10374), (102, 10392), (108, 10416), (122, 10470), (127, 10491), (146, 10554), (158, 10599), (173, 10641), (178, 10659), (191, 10710), (222, 10806), (245, 10866), (258, 10908), (273, 10932), (287, 10962), (288, 10965), (291, 10974), (308, 11022), (310, 11028), (341, 11127), (347, 11142), (353, 11163), (384, 11238), (385, 11241), (404, 11298), (415, 11328), (442, 11400), (453, 11430), (456, 11439), (472, 11472), (474, 11478), (479, 11490), (489, 11523), (494, 11538), (503, 11571), (514, 11604), (525, 11634), (529, 11646), (574, 11778), (590, 11826), (591, 11832), (594, 11844), (613, 11913), (616, 11922), (630, 12000), (638, 12030), (678, 12183), (679, 12186), (685, 12198), (709, 12261), (715, 12279), (730, 12324), (747, 12384), (774, 12465), (776, 12468),

Gene: Wawa_18 Start: 12593, Stop: 15154, Start Num: 12

Candidate Starts for Wawa_18:

(6, 12572), (Start: 12 @12593 has 84 MA's), (26, 12641), (34, 12674), (45, 12722), (53, 12746), (55, 12758), (72, 12818), (82, 12866), (84, 12881), (85, 12887), (113, 13007), (123, 13049), (151, 13145), (153, 13148), (163, 13178), (175, 13232), (212, 13373), (218, 13394), (226, 13418), (233, 13439), (237, 13448), (250, 13499), (257, 13517), (313, 13703), (373, 13847), (402, 13880), (414, 13907), (423, 13925), (428, 13931), (436, 13955), (439, 13964), (460, 14012), (471, 14039), (472, 14042), (479, 14063), (481, 14069), (483, 14075), (499, 14126), (503, 14141), (507, 14153), (509, 14159), (510, 14162), (513, 14171), (522, 14198), (526, 14210), (529, 14219), (534, 14231), (536, 14237), (544, 14258), (555, 14291), (567, 14330), (588, 14381), (592, 14384), (594, 14393), (596, 14396),

(599, 14411), (627, 14501), (636, 14537), (663, 14645), (672, 14681), (709, 14777), (710, 14780), (726, 14834), (739, 14873), (753, 14921), (755, 14930), (763, 14954), (770, 14972), (788, 15023), (793, 15047), (795, 15065), (801, 15095),

Gene: Wayne_18 Start: 12693, Stop: 15248, Start Num: 12

Candidate Starts for Wayne_18:

(6, 12672), (Start: 12 @12693 has 84 MA's), (26, 12741), (45, 12822), (53, 12846), (72, 12918), (82, 12966), (84, 12981), (85, 12987), (123, 13149), (140, 13194), (151, 13245), (153, 13248), (163, 13278), (197, 13416), (233, 13539), (250, 13599), (257, 13617), (261, 13632), (276, 13683), (352, 13914), (403, 13983), (414, 14007), (423, 14025), (428, 14031), (447, 14085), (454, 14097), (464, 14118), (472, 14142), (500, 14229), (507, 14253), (509, 14259), (510, 14262), (514, 14274), (521, 14295), (522, 14298), (524, 14304), (526, 14310), (532, 14328), (534, 14331), (536, 14337), (552, 14382), (555, 14391), (560, 14409), (567, 14430), (570, 14439), (573, 14448), (588, 14481), (592, 14484), (594, 14493), (596, 14496), (610, 14547), (636, 14637), (663, 14745), (666, 14757), (671, 14778), (672, 14781), (709, 14877), (710, 14880), (726, 14934), (739, 14973), (755, 15030), (770, 15072), (788, 15120), (795, 15162), (801, 15192),

Gene: WestPM_17 Start: 9807, Stop: 12245, Start Num: 21

Candidate Starts for WestPM_17:

(Start: 21 @9807 has 86 MA's), (69, 9999), (85, 10083), (96, 10140), (102, 10158), (108, 10182), (122, 10236), (127, 10257), (146, 10320), (158, 10365), (178, 10425), (183, 10443), (191, 10476), (210, 10536), (219, 10566), (222, 10572), (238, 10611), (245, 10632), (246, 10635), (273, 10698), (287, 10728), (288, 10731), (292, 10743), (308, 10788), (310, 10794), (328, 10854), (336, 10875), (354, 10932), (384, 11004), (410, 11085), (432, 11139), (442, 11166), (453, 11196), (456, 11205), (474, 11244), (479, 11256), (487, 11283), (492, 11298), (494, 11304), (497, 11316), (503, 11337), (514, 11370), (525, 11400), (529, 11412), (559, 11502), (570, 11532), (575, 11547), (584, 11571), (587, 11580), (590, 11592), (594, 11610), (608, 11667), (613, 11679), (616, 11688), (630, 11766), (638, 11796), (639, 11799), (653, 11853), (654, 11859), (656, 11865), (678, 11949), (679, 11952), (685, 11964), (692, 11982), (705, 12021), (709, 12027), (750, 12156), (754, 12171), (772, 12228),

Gene: Wheelbite_63 Start: 36504, Stop: 39521, Start Num: 4

Candidate Starts for Wheelbite_63:

(Start: 4 @36504 has 6 MA's), (8, 36525), (16, 36555), (17, 36558), (43, 36663), (66, 36756), (80, 36816), (128, 37026), (131, 37032), (132, 37035), (133, 37038), (154, 37125), (168, 37176), (178, 37218), (179, 37221), (199, 37305), (203, 37323), (252, 37473), (296, 37566), (326, 37665), (355, 37761), (369, 37809), (371, 37812), (376, 37824), (381, 37845), (386, 37857), (403, 37908), (434, 38001), (439, 38016), (480, 38124), (484, 38136), (486, 38145), (495, 38175), (502, 38199), (507, 38214), (525, 38268), (538, 38307), (578, 38433), (606, 38538), (623, 38604), (630, 38640), (635, 38658), (641, 38682), (643, 38694), (644, 38703), (648, 38715), (663, 38769), (690, 38850), (699, 38871), (704, 38892), (719, 38934), (720, 38937), (753, 39045), (763, 39078), (771, 39099), (784, 39141), (786, 39147), (798, 39204), (805, 39234), (810, 39243), (818, 39342), (819, 39348), (822, 39417), (824, 39504),

Gene: WildNOut_17 Start: 9362, Stop: 11632, Start Num: 20

Candidate Starts for WildNOut_17:

(Start: 20 @9362 has 123 MA's), (47, 9479), (54, 9509), (81, 9620), (85, 9644), (96, 9701), (116, 9773), (120, 9788), (122, 9797), (146, 9881), (158, 9926), (169, 9956), (191, 10046), (210, 10106), (232, 10163), (245, 10184), (287, 10280), (288, 10283), (304, 10325), (328, 10406), (336, 10427), (339, 10439), (350, 10472), (384, 10556), (394, 10586), (406, 10625), (419, 10658), (422, 10664), (437, 10703), (440, 10712), (442, 10718), (455, 10754), (460, 10766), (474, 10796), (486, 10832), (503, 10889), (514, 10922), (535, 10982), (559, 11054), (630, 11186), (638, 11216), (639, 11219), (650, 11267), (662, 11309), (675, 11357), (679, 11372), (700, 11414), (710, 11441), (740, 11528), (743, 11537), (760, 11594),

Gene: Wildwest_17 Start: 11664, Stop: 13910, Start Num: 14

Candidate Starts for Wildwest_17:

(Start: 14 @11664 has 63 MA's), (53, 11820), (54, 11829), (61, 11856), (75, 11910), (87, 11970), (113, 12087), (138, 12168), (139, 12171), (144, 12201), (158, 12255), (167, 12285), (181, 12342), (187, 12366), (197, 12408), (201, 12426), (329, 12651), (406, 12771), (428, 12819), (444, 12867), (450, 12876), (482, 12963), (494, 13002), (499, 13020), (512, 13062), (550, 13164), (563, 13209), (568, 13224), (587, 13269), (630, 13323), (633, 13332), (639, 13356), (649, 13380), (671, 13419), (701, 13497), (709, 13518), (710, 13521), (724, 13569), (744, 13632), (749, 13650), (755, 13671), (800, 13845),

Gene: WilliamStrong_16 Start: 10464, Stop: 12896, Start Num: 21

Candidate Starts for WilliamStrong_16:

(Start: 21 @10464 has 86 MA's), (27, 10479), (54, 10608), (71, 10668), (81, 10719), (85, 10743), (96, 10800), (116, 10872), (122, 10896), (146, 10980), (158, 11025), (169, 11055), (191, 11145), (210, 11205), (222, 11241), (255, 11316), (256, 11319), (287, 11379), (288, 11382), (308, 11439), (310, 11445), (324, 11493), (336, 11526), (341, 11544), (347, 11559), (384, 11655), (396, 11691), (403, 11712), (404, 11715), (422, 11763), (432, 11790), (442, 11817), (467, 11874), (472, 11889), (514, 12021), (525, 12051), (529, 12063), (570, 12183), (587, 12231), (598, 12273), (604, 12303), (618, 12348), (622, 12372), (639, 12450), (650, 12498), (662, 12540), (679, 12603), (705, 12672), (709, 12678), (717, 12702), (721, 12717), (729, 12741), (748, 12804), (749, 12807), (762, 12846), (765, 12855), (776, 12882),

Gene: Winzigespinne_17 Start: 9653, Stop: 11923, Start Num: 20

Candidate Starts for Winzigespinne_17:

(Start: 20 @9653 has 123 MA's), (47, 9770), (54, 9800), (71, 9860), (81, 9911), (85, 9935), (96, 9992), (120, 10079), (122, 10088), (146, 10172), (158, 10217), (168, 10244), (169, 10247), (191, 10337), (210, 10397), (232, 10454), (245, 10475), (287, 10571), (288, 10574), (304, 10616), (328, 10697), (336, 10718), (339, 10730), (350, 10763), (380, 10841), (384, 10847), (394, 10877), (406, 10916), (419, 10949), (422, 10955), (432, 10982), (437, 10994), (440, 11003), (442, 11009), (460, 11057), (472, 11081), (474, 11087), (486, 11123), (503, 11180), (559, 11345), (580, 11399), (630, 11477), (638, 11507), (639, 11510), (650, 11558), (675, 11648), (679, 11663), (700, 11705), (703, 11717), (710, 11732), (740, 11819), (743, 11828), (760, 11885),

Gene: Witch_12 Start: 7541, Stop: 9646, Start Num: 32

Candidate Starts for Witch_12:

(Start: 32 @7541 has 142 MA's), (Start: 38 @7562 has 3 MA's), (80, 7739), (81, 7748), (85, 7772), (101, 7844), (106, 7868), (109, 7874), (149, 8024), (156, 8045), (158, 8057), (160, 8066), (212, 8273), (218, 8291), (270, 8378), (298, 8447), (313, 8459), (328, 8507), (346, 8537), (350, 8552), (363, 8588), (374, 8615), (384, 8636), (392, 8660), (400, 8684), (402, 8690), (410, 8717), (426, 8750), (439, 8789), (449, 8816), (456, 8837), (462, 8852), (476, 8879), (477, 8882), (484, 8903), (487, 8915), (489, 8921), (503, 8969), (515, 9005), (531, 9053), (541, 9080), (550, 9101), (570, 9164), (580, 9188), (626, 9245), (653, 9350), (659, 9371), (661, 9383), (673, 9425), (682, 9446), (693, 9467), (745, 9596),

Gene: Wolfpack_12 Start: 7533, Stop: 9638, Start Num: 32

Candidate Starts for Wolfpack_12:

(Start: 32 @7533 has 142 MA's), (Start: 38 @7554 has 3 MA's), (80, 7731), (81, 7740), (85, 7764), (101, 7836), (106, 7860), (109, 7866), (137, 7959), (149, 8016), (156, 8037), (158, 8049), (160, 8058), (212, 8265), (218, 8283), (270, 8370), (298, 8439), (313, 8451), (328, 8499), (346, 8529), (350, 8544), (363, 8580), (374, 8607), (385, 8631), (392, 8652), (400, 8676), (402, 8682), (410, 8709), (426, 8742), (439, 8781), (449, 8808), (456, 8829), (462, 8844), (476, 8871), (477, 8874), (487, 8907), (489, 8913), (503, 8961), (515, 8997), (531, 9045), (541, 9072), (550, 9093), (570, 9156), (580, 9180), (626, 9237), (653, 9342), (659, 9363), (661, 9375), (673, 9417), (682, 9438), (693, 9459), (745, 9588),

Gene: WonderBoy_14 Start: 9710, Stop: 12271, Start Num: 12

Candidate Starts for WonderBoy_14:

(6, 9689), (Start: 12 @9710 has 84 MA's), (26, 9758), (45, 9839), (53, 9863), (72, 9935), (82, 9983), (84, 9998), (85, 10004), (123, 10166), (151, 10262), (153, 10265), (163, 10295), (197, 10433), (218, 10511), (233, 10556), (237, 10565), (250, 10616), (257, 10634), (260, 10646), (267, 10670), (335, 10886), (391, 10976), (402, 10997), (414, 11024), (423, 11042), (428, 11048), (436, 11072), (439, 11081), (460, 11129), (471, 11156), (481, 11186), (499, 11243), (503, 11258), (507, 11270), (509, 11276), (510, 11279), (513, 11288), (522, 11315), (526, 11327), (529, 11336), (534, 11348), (536, 11354), (546, 11378), (552, 11399), (555, 11408), (559, 11423), (567, 11447), (588, 11498), (592, 11501), (596, 11513), (600, 11531), (627, 11618), (636, 11654), (663, 11762), (666, 11774), (671, 11795), (672, 11798), (678, 11819), (709, 11894), (710, 11897), (720, 11930), (726, 11951), (739, 11990), (744, 12008), (753, 12038), (755, 12047), (789, 12146), (801, 12212),

Gene: Wyvern_24 Start: 14072, Stop: 16066, Start Num: 19

Candidate Starts for Wyvern_24:

(10, 14033), (Start: 19 @14072 has 21 MA's), (23, 14084), (48, 14195), (105, 14438), (119, 14495), (178, 14702), (181, 14714), (187, 14738), (202, 14801), (223, 14864), (258, 14912), (281, 14933), (323, 14996), (359, 15080), (420, 15176), (504, 15317), (561, 15413), (582, 15461), (612, 15548), (625, 15572), (651, 15683), (660, 15716), (675, 15770), (696, 15821), (745, 15974),

Gene: Xebius_16 Start: 9432, Stop: 11840, Start Num: 21

Candidate Starts for Xebius_16:

(Start: 21 @9432 has 86 MA's), (27, 9447), (47, 9546), (71, 9636), (85, 9711), (96, 9768), (99, 9777), (116, 9840), (120, 9855), (122, 9864), (146, 9948), (158, 9993), (169, 10023), (179, 10065), (191, 10113), (210, 10173), (232, 10230), (273, 10317), (287, 10347), (288, 10350), (292, 10362), (336, 10494), (337, 10500), (354, 10551), (374, 10602), (375, 10605), (384, 10623), (394, 10653), (398, 10665), (410, 10704), (432, 10758), (440, 10779), (442, 10785), (472, 10857), (474, 10863), (486, 10899), (487, 10902), (503, 10956), (514, 10989), (525, 11019), (529, 11031), (535, 11049), (559, 11121), (570, 11151), (583, 11187), (590, 11211), (600, 11250), (608, 11286), (611, 11295), (618, 11316), (638, 11415), (639, 11418), (650, 11466), (675, 11556), (679, 11571), (700, 11616), (709, 11643), (715, 11661), (722, 11682), (727, 11700), (732, 11709), (738, 11730), (740, 11736), (743, 11745), (760, 11802), (768, 11829), (769, 11832),

Gene: Yami_12 Start: 7552, Stop: 9636, Start Num: 38

Candidate Starts for Yami_12:

(Start: 32 @7531 has 142 MA's), (Start: 38 @7552 has 3 MA's), (80, 7729), (81, 7738), (85, 7762), (101, 7834), (106, 7858), (137, 7957), (149, 8014), (156, 8035), (158, 8047), (160, 8056), (212, 8263), (218, 8281), (270, 8368), (298, 8437), (313, 8449), (328, 8497), (346, 8527), (350, 8542), (384, 8626), (385, 8629), (392, 8650), (402, 8680), (410, 8707), (426, 8740), (439, 8779), (449, 8806), (451, 8812), (456, 8827), (462, 8842), (477, 8872), (484, 8893), (487, 8905), (489, 8911), (503, 8959), (515, 8995), (531, 9043), (541, 9070), (550, 9091), (570, 9154), (580, 9178), (626, 9235), (653, 9340), (659, 9361), (673, 9415), (682, 9436), (693, 9457),

Gene: Yang_16 Start: 10824, Stop: 13148, Start Num: 14

Candidate Starts for Yang_16:

(Start: 14 @10824 has 63 MA's), (56, 10998), (63, 11022), (75, 11070), (87, 11130), (113, 11247), (138, 11328), (139, 11331), (144, 11361), (167, 11445), (181, 11502), (187, 11526), (201, 11586), (202, 11592), (328, 11808), (329, 11811), (428, 11979), (444, 12027), (454, 12048), (468, 12081), (482, 12123), (494, 12162), (497, 12174), (512, 12222), (547, 12315), (568, 12384), (629, 12480), (635, 12501), (659, 12594), (663, 12612), (709, 12744), (710, 12747), (744, 12858), (755, 12897),

Gene: Yasuo_12 Start: 7537, Stop: 9642, Start Num: 32

Candidate Starts for Yasuo_12:

(Start: 32 @7537 has 142 MA's), (Start: 38 @7558 has 3 MA's), (80, 7735), (81, 7744), (85, 7768), (101, 7840), (106, 7864), (109, 7870), (149, 8020), (156, 8041), (158, 8053), (160, 8062), (212, 8269), (218, 8287), (270, 8374), (298, 8443), (313, 8455), (328, 8503), (346, 8533), (350, 8548), (363, 8584), (374, 8611), (384, 8632), (392, 8656), (400, 8680), (402, 8686), (410, 8713), (426, 8746), (439, 8785), (449, 8812), (456, 8833), (462, 8848), (476, 8875), (477, 8878), (484, 8899), (487, 8911), (489, 8917), (503, 8965), (529, 9040), (531, 9049), (541, 9076), (550, 9097), (570, 9160), (580, 9184), (626, 9241), (653, 9346), (659, 9367), (661, 9379), (673, 9421), (682, 9442), (693, 9463),

Gene: YertPhresh_12 Start: 7540, Stop: 9645, Start Num: 32

Candidate Starts for YertPhresh_12:

(Start: 32 @7540 has 142 MA's), (Start: 38 @7561 has 3 MA's), (80, 7738), (81, 7747), (85, 7771), (101, 7843), (106, 7867), (109, 7873), (149, 8023), (156, 8044), (158, 8056), (160, 8065), (212, 8272), (218, 8290), (270, 8377), (298, 8446), (313, 8458), (328, 8506), (346, 8536), (350, 8551), (363, 8587), (374, 8614), (384, 8635), (392, 8659), (400, 8683), (402, 8689), (410, 8716), (426, 8749), (439, 8788), (449, 8815), (456, 8836), (462, 8851), (476, 8878), (477, 8881), (484, 8902), (487, 8914), (489, 8920), (503, 8968), (515, 9004), (531, 9052), (541, 9079), (550, 9100), (570, 9163), (580, 9187), (626, 9244), (653, 9349), (659, 9370), (661, 9382), (673, 9424), (682, 9445), (693, 9466), (745, 9595),

Gene: YesChef_16 Start: 10781, Stop: 13096, Start Num: 14

Candidate Starts for YesChef_16:

(Start: 14 @10781 has 63 MA's), (53, 10937), (54, 10946), (75, 11027), (78, 11039), (87, 11087), (88, 11090), (95, 11132), (113, 11204), (138, 11285), (139, 11288), (144, 11318), (158, 11372), (167, 11402), (181, 11459), (187, 11483), (201, 11543), (329, 11768), (399, 11864), (425, 11927), (428, 11936), (444, 11984), (450, 11993), (454, 12005), (468, 12038), (482, 12080), (494, 12119), (512, 12179), (561, 12320), (598, 12395), (611, 12407), (633, 12449), (635, 12458), (641, 12482), (659, 12551), (663, 12569), (701, 12680), (709, 12701), (710, 12704), (720, 12737), (744, 12815), (755, 12854), (778, 12914), (785, 12944), (795, 12995), (807, 13040), (814, 13085),

Gene: Yubaba_12 Start: 7574, Stop: 9679, Start Num: 32

Candidate Starts for Yubaba_12:

(Start: 32 @7574 has 142 MA's), (Start: 38 @7595 has 3 MA's), (80, 7772), (81, 7781), (85, 7805), (101, 7877), (106, 7901), (109, 7907), (149, 8057), (156, 8078), (158, 8090), (160, 8099), (212, 8306), (218, 8324), (270, 8411), (298, 8480), (313, 8492), (328, 8540), (346, 8570), (350, 8585), (363, 8621), (374, 8648), (384, 8669), (392, 8693), (400, 8717), (402, 8723), (410, 8750), (426, 8783), (439, 8822), (449, 8849), (456, 8870), (462, 8885), (476, 8912), (477, 8915), (484, 8936), (487, 8948), (489, 8954), (503, 9002), (515, 9038), (531, 9086), (541, 9113), (550, 9134), (570, 9197), (580, 9221), (626, 9278), (653, 9383), (659, 9404), (661, 9416), (673, 9458), (682, 9479), (693, 9500), (745, 9629),

Gene: YuuY_16 Start: 9625, Stop: 12036, Start Num: 21

Candidate Starts for YuuY_16:

(Start: 21 @9625 has 86 MA's), (27, 9640), (Start: 30 @9658 has 5 MA's), (47, 9739), (70, 9823), (72, 9832), (85, 9904), (96, 9961), (116, 10033), (120, 10048), (122, 10057), (136, 10099), (146, 10141), (158, 10186), (169, 10216), (179, 10258), (191, 10306), (210, 10366), (232, 10423), (273, 10510), (287, 10540), (288, 10543), (292, 10555), (295, 10564), (308, 10600), (314, 10621), (328, 10666), (336, 10687), (358, 10756), (384, 10816), (385, 10819), (419, 10918), (422, 10924), (432, 10951), (440, 10972), (442, 10978), (449, 10996), (474, 11056), (493, 11113), (503, 11149), (525, 11212), (570, 11344), (584, 11383), (601, 11446), (638, 11608), (639, 11611), (650, 11659), (664, 11707), (675, 11749), (679, 11764), (709, 11836), (713, 11848), (715, 11854), (727, 11893), (733, 11908), (740, 11932), (743, 11941), (760, 11998), (768, 12025), (769, 12028),

Gene: Zada_17 Start: 9356, Stop: 11626, Start Num: 20

Candidate Starts for Zada_17:

(Start: 20 @9356 has 123 MA's), (47, 9473), (54, 9503), (71, 9563), (81, 9614), (85, 9638), (96, 9695), (120, 9782), (122, 9791), (146, 9875), (158, 9920), (168, 9947), (169, 9950), (191, 10040), (210, 10100), (232, 10157), (245, 10178), (287, 10274), (288, 10277), (304, 10319), (328, 10400), (336, 10421), (339, 10433), (350, 10466), (380, 10544), (384, 10550), (394, 10580), (406, 10619), (419, 10652), (422, 10658), (428, 10670), (432, 10685), (437, 10697), (440, 10706), (442, 10712), (460, 10760), (472, 10784), (474, 10790), (486, 10826), (503, 10883), (559, 11048), (580, 11102), (630, 11180), (638, 11210), (639, 11213), (650, 11261), (675, 11351), (679, 11366), (700, 11408), (703, 11420), (710, 11435), (740, 11522), (743, 11531), (760, 11588),

Gene: Zahlia_12 Start: 7645, Stop: 9750, Start Num: 32

Candidate Starts for Zahlia_12:

(Start: 32 @7645 has 142 MA's), (Start: 38 @7666 has 3 MA's), (80, 7843), (81, 7852), (85, 7876), (101, 7948), (106, 7972), (109, 7978), (149, 8128), (156, 8149), (158, 8161), (160, 8170), (212, 8377), (218, 8395), (270, 8482), (298, 8551), (313, 8563), (328, 8611), (346, 8641), (350, 8656), (363, 8692), (374, 8719), (384, 8740), (392, 8764), (400, 8788), (402, 8794), (410, 8821), (426, 8854), (439, 8893), (449, 8920), (456, 8941), (462, 8956), (476, 8983), (477, 8986), (484, 9007), (487, 9019), (489, 9025), (503, 9073), (529, 9148), (531, 9157), (541, 9184), (550, 9205), (570, 9268), (580, 9292), (626, 9349), (653, 9454), (659, 9475), (661, 9487), (673, 9529), (682, 9550), (693, 9571), (745, 9700),

Gene: Zanella_19 Start: 13343, Stop: 15331, Start Num: 24

Candidate Starts for Zanella_19:

(Start: 24 @13343 has 21 MA's), (36, 13382), (64, 13493), (69, 13508), (72, 13520), (113, 13712), (120, 13736), (168, 13919), (185, 13985), (208, 14081), (214, 14105), (296, 14192), (337, 14294), (350, 14318), (417, 14387), (433, 14420), (519, 14585), (587, 14633), (592, 14645), (597, 14663), (634, 14765), (637, 14777), (638, 14783), (727, 15038), (747, 15104), (766, 15164), (808, 15305),

Gene: Zayuliv_18 Start: 9861, Stop: 12302, Start Num: 21

Candidate Starts for Zayuliv_18:

(Start: 21 @9861 has 86 MA's), (Start: 30 @9894 has 5 MA's), (78, 10095), (85, 10137), (96, 10194), (102, 10212), (108, 10236), (122, 10290), (127, 10311), (146, 10374), (158, 10419), (173, 10461), (178, 10479), (191, 10530), (222, 10626), (245, 10686), (258, 10728), (273, 10752), (287, 10782), (288, 10785), (291, 10794), (308, 10842), (310, 10848), (341, 10947), (347, 10962), (353, 10983), (384, 11058), (385, 11061), (396, 11094), (404, 11118), (415, 11148), (442, 11220), (453, 11250), (456, 11259), (472, 11292), (474, 11298), (479, 11310), (489, 11343), (494, 11358), (503, 11391), (514, 11424), (525, 11454), (529, 11466), (574, 11598), (590, 11646), (591, 11652), (594, 11664), (613, 11733), (616, 11742), (630, 11820), (638, 11850), (678, 12003), (679, 12006), (685, 12018), (704, 12072), (709, 12081), (715, 12099), (730, 12144), (747, 12204), (774, 12285), (776, 12288),

Gene: Zenitsu_16 Start: 9459, Stop: 11867, Start Num: 21

Candidate Starts for Zenitsu_16:

(Start: 21 @9459 has 86 MA's), (27, 9474), (47, 9573), (71, 9663), (85, 9738), (96, 9795), (99, 9804), (116, 9867), (120, 9882), (122, 9891), (146, 9975), (158, 10020), (169, 10050), (179, 10092), (191, 10140), (210, 10200), (232, 10257), (273, 10344), (287, 10374), (288, 10377), (292, 10389), (336, 10521), (337, 10527), (354, 10578), (374, 10629), (375, 10632), (384, 10650), (394, 10680), (398, 10692), (410, 10731), (432, 10785), (440, 10806), (442, 10812), (472, 10884), (474, 10890), (486, 10926), (487, 10929), (503, 10983), (525, 11046), (529, 11058), (535, 11076), (559, 11148), (570, 11178), (580, 11202), (590, 11238), (600, 11277), (608, 11313), (611, 11322), (618, 11343), (638, 11442), (639, 11445), (650, 11493), (675, 11583), (679, 11598), (700, 11643), (709, 11670), (715, 11688), (722, 11709), (727, 11727), (732, 11736), (738, 11757), (740, 11763), (743, 11772), (760, 11829), (768, 11856), (769, 11859),

Gene: Zepp_19 Start: 9869, Stop: 12310, Start Num: 21

Candidate Starts for Zepp_19:

(Start: 21 @9869 has 86 MA's), (Start: 30 @9902 has 5 MA's), (78, 10103), (85, 10145), (96, 10202), (102, 10220), (108, 10244), (122, 10298), (127, 10319), (146, 10382), (158, 10427), (173, 10469), (178, 10487), (191, 10538), (222, 10634), (245, 10694), (258, 10736), (273, 10760), (287, 10790), (288, 10793), (291, 10802), (308, 10850), (310, 10856), (341, 10955), (347, 10970), (353, 10991), (384, 11066), (385, 11069), (404, 11126), (415, 11156), (442, 11228), (453, 11258), (456, 11267), (472, 11300), (474, 11306), (479, 11318), (489, 11351), (494, 11366), (503, 11399), (506, 11408), (514, 11432), (525, 11462), (529, 11474), (574, 11606), (590, 11654), (591, 11660), (594, 11672), (613, 11741), (616, 11750), (630, 11828), (638, 11858), (678, 12011), (679, 12014), (685, 12026), (709, 12089), (715, 12107), (730, 12152), (747, 12212), (774, 12293), (776, 12296),

Gene: Zeta1847_14 Start: 9068, Stop: 11329, Start Num: 18

Candidate Starts for Zeta1847_14:

(Start: 18 @9068 has 1 MA's), (42, 9158), (51, 9203), (57, 9230), (65, 9254), (67, 9260), (85, 9350), (111, 9458), (126, 9518), (177, 9713), (192, 9776), (220, 9875), (224, 9884), (273, 9986), (320, 10118), (327, 10139), (342, 10184), (378, 10283), (392, 10319), (394, 10325), (406, 10364), (428, 10415), (439, 10448), (453, 10487), (470, 10523), (489, 10580), (519, 10673), (521, 10679), (531, 10712), (550, 10760), (627, 10910), (629, 10922), (652, 11006), (716, 11186),

Gene: Zorro_18 Start: 12572, Stop: 15133, Start Num: 12

Candidate Starts for Zorro_18:

(6, 12551), (Start: 12 @12572 has 84 MA's), (26, 12620), (34, 12653), (45, 12701), (53, 12725), (55, 12737), (72, 12797), (82, 12845), (84, 12860), (85, 12866), (113, 12986), (123, 13028), (151, 13124), (153, 13127), (163, 13157), (175, 13211), (212, 13352), (218, 13373), (226, 13397), (233, 13418), (237, 13427), (250, 13478), (257, 13496), (313, 13682), (373, 13826), (402, 13859), (414, 13886), (423, 13904), (428, 13910), (436, 13934), (439, 13943), (460, 13991), (471, 14018), (472, 14021), (479, 14042), (483, 14054), (499, 14105), (503, 14120), (507, 14132), (510, 14141), (513, 14150), (522, 14177), (526, 14189), (529, 14198), (534, 14210), (536, 14216), (544, 14237), (552, 14261), (555, 14270), (567, 14309), (588, 14360), (592, 14363), (594, 14372), (596, 14375), (599, 14390), (627, 14480), (636, 14516), (663, 14624), (672, 14660), (709, 14756), (710, 14759), (726, 14813), (739, 14852), (753, 14900), (755, 14909), (763, 14933), (770, 14951), (788, 15002), (793, 15026), (795, 15044), (801, 15074),