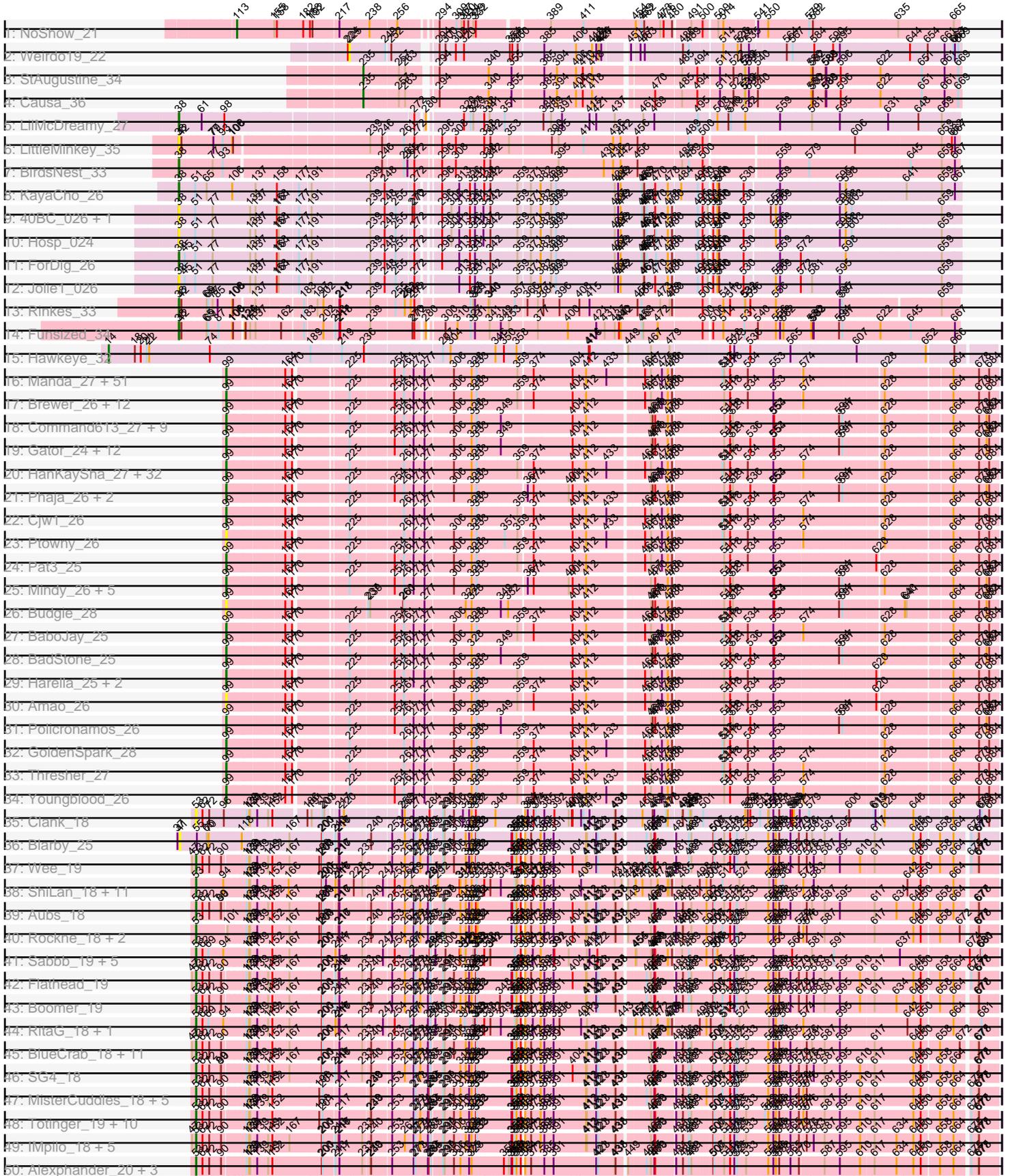


Pham 283352



Pham 283352

201: Sulley_27 + 2	82	125	297	290	296	306	305	306	305	426	446	461	464	496	508	528	532	530	536
202: Joy99_27	82	125	297	290	296	306	305	306	305	426	446	461	464	496	508	528	532	530	536
203: CnmD_27	82	125	297	290	296	306	305	306	305	426	446	461	464	496	508	528	532	530	536
204: Pithvi_27 + 2	82	125	297	290	296	306	305	306	305	426	446	461	464	496	508	528	532	530	536
205: Adonis_27	82	125	297	290	296	306	305	306	305	426	446	461	464	496	508	528	532	530	536
206: Zavala_27 + 4	82	125	297	290	296	306	305	306	305	426	446	461	464	496	508	528	532	530	536
207: HedwigODU_27 + 7	82	125	297	290	296	306	305	306	305	426	446	461	464	496	508	528	532	530	536
208: Anaya_28	82	103	125	297	290	296	306	306	305	426	446	461	464	496	508	528	532	530	536
209: Illumine_27 + 2	82	103	125	297	290	296	306	306	305	426	446	461	464	496	508	528	532	530	536
210: PISA4_26 + 1	82	103	125	297	290	296	306	306	305	426	446	461	464	496	508	528	532	530	536
211: Guanica15_27 + 2	82	103	125	168	297	290	296	306	306	305	426	446	461	464	496	508	528	532	530
212: Geraldini_27 + 1	82	103	125	297	290	296	306	306	305	426	446	461	464	496	508	528	532	530	536
213: Tachez_27 + 2	82	103	125	297	290	296	306	306	305	426	446	461	464	496	508	528	532	530	536
214: DriHayes_27 + 3	82	103	125	297	290	296	306	306	305	426	446	461	464	496	508	528	532	530	536
215: Megsy_27	82	103	125	297	290	296	306	306	305	426	446	461	464	496	508	528	532	530	536
216: Murucutumbu_27	82	103	125	297	290	296	306	306	305	426	446	461	464	496	508	528	532	530	536
217: CheetoDust_27	82	103	125	297	290	296	306	306	305	426	446	461	464	496	508	528	532	530	536
218: Sunson_28	82	103	141	168	297	290	296	306	306	305	426	446	461	496	508	528	532	530	536
219: Leivind_26	82	103	125	297	290	296	306	306	305	426	446	461	464	496	508	528	532	530	536
220: MacKat_27 + 1	82	103	125	297	290	296	306	306	305	426	446	461	464	496	508	528	532	530	536
221: Ganymede_28 + 1	82	103	125	297	290	296	306	306	305	426	446	461	464	496	508	528	532	530	536
222: Apocalypse_27	82	103	125	297	290	296	306	306	305	426	446	461	464	496	508	528	532	530	536
223: Bella96_27 + 1	82	103	125	297	290	296	306	306	305	426	446	461	464	496	508	528	532	530	536
224: TaiwanKao_28	82	103	125	297	290	296	306	306	305	426	446	461	464	496	508	528	532	530	536
225: Beezoo_27	82	103	125	297	290	296	306	306	305	426	446	461	464	496	508	528	532	530	536
226: TimBug_27	82	103	125	297	290	296	306	306	305	426	446	461	464	496	508	528	532	530	536
227: Bem_27	82	103	125	297	290	296	306	306	305	426	446	461	464	496	508	528	532	530	536
228: Tim_27	82	103	141	164	297	290	296	306	306	305	426	446	461	496	508	528	532	530	536
229: Chris_28	82	103	141	164	297	290	296	306	306	305	426	446	461	496	508	528	532	530	536
230: Oscar_26	82	103	141	164	297	290	296	306	306	305	426	446	461	496	508	528	532	530	536
231: KISI_26	82	103	125	168	297	290	296	306	306	305	426	446	461	496	508	528	532	530	536
232: Ageofdapage_27	82	103	141	168	297	290	296	306	306	305	426	446	461	496	508	528	532	530	536
233: Scarlett_26	82	103	141	168	297	290	296	306	306	305	426	446	461	496	508	528	532	530	536
234: Nibb_26	82	103	125	168	297	290	296	306	306	305	426	446	461	496	508	528	532	530	536
235: LaterM_27	82	103	125	141	168	297	290	296	306	306	305	426	446	496	508	528	532	530	536
236: Marshawn_28	82	103	141	168	297	290	296	306	306	305	426	446	461	496	508	528	532	530	536
237: SirPhilip_26	82	103	125	168	297	290	296	306	306	305	426	446	461	496	508	528	532	530	536
238: Aminay_25	82	103	125	168	297	290	296	306	306	305	426	446	461	496	508	528	532	530	536
239: Bollgate_24	82	103	125	168	297	290	296	306	306	305	426	446	461	496	508	528	532	530	536
240: Vagabond_58 + 21	82	103	125	168	297	290	296	306	306	305	426	446	461	496	508	528	532	530	536
241: YungJamai_63 + 7	82	103	125	168	297	290	296	306	306	305	426	446	461	496	508	528	532	530	536
242: Ryadel_62	82	103	125	168	297	290	296	306	306	305	426	446	461	496	508	528	532	530	536
243: Smooch_61 + 1	82	103	125	168	297	290	296	306	306	305	426	446	461	496	508	528	532	530	536
244: Bora_56	82	103	125	168	297	290	296	306	306	305	426	446	461	496	508	528	532	530	536
245: Shipwreck_20 + 1	82	103	125	168	297	290	296	306	306	305	426	446	461	496	508	528	532	530	536
246: Pygmy_20	82	103	125	168	297	290	296	306	306	305	426	446	461	496	508	528	532	530	536
247: NovoPizza_24	82	103	125	168	297	290	296	306	306	305	426	446	461	496	508	528	532	530	536
248: MaryV_43 + 1	82	103	125	168	297	290	296	306	306	305	426	446	461	496	508	528	532	530	536
249: Cosmo_43	82	103	125	168	297	290	296	306	306	305	426	446	461	496	508	528	532	530	536
250: Azrael100_42	82	103	125	168	297	290	296	306	306	305	426	446	461	496	508	528	532	530	536

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 283352 Report

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

Pham number 283352 has 612 members, 71 are drafts.

Phages represented in each track:

- Track 1 : NoShow_21
- Track 2 : Weirdo19_22
- Track 3 : StAugustine_34
- Track 4 : Causa_36
- Track 5 : LilMcDreamy_27
- Track 6 : LittleMinkey_35
- Track 7 : BirdsNest_33
- Track 8 : KayaCho_26
- Track 9 : 40BC_026, 39HC_026
- Track 10 : Hosp_024
- Track 11 : ForDig_26
- Track 12 : Jolie1_026
- Track 13 : Rinkes_33
- Track 14 : Funsized_34
- Track 15 : Hawkeye_32
- Track 16 : Manda_27, Terminus_26, Goldilocks_27, Murphy_27, Willez_25, TeamEdward_26, Holt_27, Thimble_26, Porky_26, Teaspoon_27, Buck_25, Miniwave_26, PhatBacter_26, Cookies_26, MPhalcon_25, Murica_25, Pharsalus_27, Inca_25, Filch_27, Tarkin_28, NonchalantPear_26, Palpatine_26, HufflyPuff_25, Petra64142_28, FireRed_26, Phaux_25, StellaBean_26, TBrady12_28, Bogg_26, AmericanBeauty_28, Misfit_26, Paperbeatsrock_28, Nala_26, Argent26_28, MISSy_25, Nimrod_26, Highbury_27, Becksu_26, SophKB_26, Gemini_29, GooberAzure_28, StormChicken_26, Gage_28, Kanye_28, BugsBunny_24, Saints25_27, Kimchi_28, ShereKhan_28, Stank_29, Quallification_27, Easy2Say_28, Sassay_25
- Track 17 : Brewer_26, YassJohnny_27, Greep_27, Contagion_25, Mosby_25, MollyToe_26, Tomaszewski_25, BigBubba_27, Bruin_26, ChotaBhai_26, xkcd_27, Rimmer_25, FoghornLeghorn_25
- Track 18 : Command613_27, Marshmallow_26, Icee_25, Bask21_26, Sotrice96_26, Kostya_26, CrystalP_26, BilboSwaggins_26, Cactus_27, SirDuracell_25
- Track 19 : Gator_24, Dusk_25, Rakim_27, Myrale_26, ABCat_25, Asriel_25, Barbarian_25, Goku_26, Balomoji_25, Tuco_27, Traaww1_24, TeardropMSU_25, Eureka_26
- Track 20 : HanKaySha_27, Phrux_26, Xandras_28, Wiggin_29, Adnama_29, Stark_27, Moldemort_27, Czyszczonek1_27, RiverMonster_26, Elite2014_25, Bench_28, Lilizi_28, ChosenOne_25, DoctorDiddles_26, DrDrey_27, Simpliphy_27, Lilpickle_25, PaddyBaddy_27, Pumpkin_28, MadamMonkfish_26, NoSleep_27,

Dumbo_26, Ukulele_26, OrionPax_27, Elph10_27, Maxxinista_27, JeTaime_28, Hopey_28, 244_28, StolenFromERC_28, Emmina_27, Hoonter_28, Lilac_28

- Track 21 : Phaja_26, IHOP_26, FairyPath_26
- Track 22 : Cjw1_26
- Track 23 : Ptowny_26
- Track 24 : Pat3_25
- Track 25 : Mindy_26, NelitzaMV_26, Henry_26, ShamWow_26, Daikon_24, Toto_26
- Track 26 : Budgie_28
- Track 27 : BaboJay_25
- Track 28 : BadStone_25
- Track 29 : Harella_25, Flypotenuse_24, Glexan_24
- Track 30 : Amao_26
- Track 31 : Policronamos_26
- Track 32 : GoldenSpark_28
- Track 33 : Thresher_27
- Track 34 : Youngblood_26
- Track 35 : Clank_18
- Track 36 : Blarby_25
- Track 37 : Wee_19
- Track 38 : ShiLan_18, Gandalph_18, Burwell21_18, OlympiaSaint_18, NormanBulbieJr_18, ShowerHandel_18, Priscilla_18, Yorick_18, Jarcob_18, Spoonbill_18, Martik_18, Cabrinians_18
- Track 39 : Aubs_18
- Track 40 : Rockne_18, Llij_18, PMC_18
- Track 41 : Sabbb_19, Mattes_18, BobaPhett_18, Gorge_18, James_18, LilMoolah_18
- Track 42 : Flathead_19
- Track 43 : Boomer_19
- Track 44 : RitaG_18, Lucia_19
- Track 45 : BlueCrab_18, Pacc40_18, Daenerys_18, PHappiness_18, Dorothy_18, KingMidas_19, JoeyJr_18, OldBen_18, Polka14_19, DaddyRickover_18, IbOuu_18, Scottish_19
- Track 46 : SG4_18
- Track 47 : MisterCuddles_18, GUmbie_18, Girr_18, Veteran_18, Phasih_19, Ruby_18
- Track 48 : Totinger_19, LittleShirley_19, EmiMonkey_18, Emmaloid_19, Starcevich_19, Vivum_18, Tchotchke_19, Slim_19, Rialto_20, GigiOuiOui_18, PhilipPhlop_18
- Track 49 : IMpilo_18, Firehouse51_19, Minnie_19, Leozinho_19, MilleniumForce_19, Whatsapiecost_18
- Track 50 : Alexphander_20, ArcusAngelus_18, DaWorst_20, Chevrolet_18
- Track 51 : Zerg_18
- Track 52 : Madiba_19
- Track 53 : VRedHorse_18
- Track 54 : Job42_21
- Track 55 : Doug_19
- Track 56 : TootsiePop_19, Awesomesauce_19, Misha28_19
- Track 57 : Tootsieroll_19, Radiance_18
- Track 58 : Aloeri_19, ChickenDinner_19, DocMcStuffins_19, Piper2020_19
- Track 59 : OfUltron_18, Jinglebell_17, Llama_18, Modragons_18, AlpineSix_18, Sebastian_18, Ochi17_18
- Track 60 : Spikelee_19, RedBird_18, BuzzLyseyear_20, RockyHorror_19, WillSterrel_19, IrishSherpFalk_19, Mantra_18

- Track 61 : Chuckly_18
- Track 62 : Phatniss_19, Drago_19, UncleRicky_19, Enby_19, Lorde_19
- Track 63 : Coco12_20, Phanphagia_18, Brookers_19, Kingsley_19
- Track 64 : Hades_18, OwlsT2W_20, DosHalletts_19
- Track 65 : Karhdo_18
- Track 66 : Strokeseat_18, Hlubikazi_18, Mandlovu_18
- Track 67 : Dante_18
- Track 68 : Kersh_19
- Track 69 : Mova_19
- Track 70 : Moonbeam_19, Kimberlium_20, Juice456_20, QuickMath_19, MulchExplorer_21
- Track 71 : Mozy_19
- Track 72 : SuperGrey_19
- Track 73 : PatoPoderoso_18, Doomslug_20, EleanorGeorge_18, KristaRAM_19, Batiatus_18, KingJulian_18, Corium_18, JalFarm20_20, Fruitloop_18
- Track 74 : DotProduct_18
- Track 75 : NewHope4_19, Polo2Bam_20, Enzomatic_20
- Track 76 : MinionDave_19, CaptainTrips_19
- Track 77 : Brushbloom_19
- Track 78 : Ibhubesi_18, Harley_18
- Track 79 : Nitzel_19
- Track 80 : Taj_18, DeadP_18
- Track 81 : Peridot_20
- Track 82 : Nivrat_18, Lizziana_18
- Track 83 : ByChance_18
- Track 84 : PhesterPhotato_18
- Track 85 : Ramsey_19
- Track 86 : Nimbo_18, Blexus_18, Geralt_18, Inventum_18, Deb65_18, Sassafras_18
- Track 87 : XFactor_18, Galactic_18, Filuzino_18
- Track 88 : Mwanjiwa_18
- Track 89 : Che8_18
- Track 90 : Fancypants_18
- Track 91 : ShroomBoi_18
- Track 92 : SwagPiggett_18, TDanisky_18, Philus_18, DRBy19_18, Saal_18, Sparkdehlily_18
- Track 93 : Spartacus_19
- Track 94 : SimranZ1_19
- Track 95 : Whouxphf_18
- Track 96 : DLane_18
- Track 97 : Donkeykong_18
- Track 98 : Rita_18
- Track 99 : LunaBlu_19
- Track 100 : Bobi_20
- Track 101 : DoRead_18
- Track 102 : Mutaforma13_18
- Track 103 : Pollywog_21, Ogopogo_21
- Track 104 : Royals2015_18
- Track 105 : Emma_18, Tweety_18
- Track 106 : Bubbles123_19
- Track 107 : Stap_19
- Track 108 : Wachhund_18
- Track 109 : Phalconet_18

- Track 110 : Oksu_19
- Track 111 : Quico_19, Girafales_19, Florinda_18
- Track 112 : Guppsters_19
- Track 113 : Estave1_18
- Track 114 : Mahavrat_18, Juniper1_18
- Track 115 : Jant_18
- Track 116 : Plumbus_19
- Track 117 : Ovechkin_18
- Track 118 : Medindi_18
- Track 119 : Krakatau_19
- Track 120 : Hegedechwinu_19
- Track 121 : Eish_18
- Track 122 : Hamulus_18
- Track 123 : Beanstalk_20
- Track 124 : Sandalphon_19
- Track 125 : SiSi_18
- Track 126 : Grimmer_19
- Track 127 : Poenanya_18, Doomphist_18
- Track 128 : SassyB_18, PopTart_18
- Track 129 : Seagreen_19
- Track 130 : Cornucopia_19, Marker_19
- Track 131 : Leperchaun_18
- Track 132 : Eradicator_18
- Track 133 : Maravista_18
- Track 134 : Topiatin_20
- Track 135 : Empress_19
- Track 136 : Melissauren88_18
- Track 137 : Zizzle_18
- Track 138 : Violac_19
- Track 139 : Beakin_19
- Track 140 : Bipolar_18
- Track 141 : MadMen_19
- Track 142 : DillTech15_18
- Track 143 : FreddyB_18
- Track 144 : BodEinwohner17_18
- Track 145 : Byougenkin_18
- Track 146 : Fastidio_18
- Track 147 : DirtMcgirt_19
- Track 148 : Latretium_19
- Track 149 : Ardmore_18
- Track 150 : Shauna1_18
- Track 151 : StAnnes_18
- Track 152 : Frankie_19
- Track 153 : Cheesepuff_20
- Track 154 : Kenuha5_18
- Track 155 : Zapner_25, Jabbawokkie_26
- Track 156 : Avani_24
- Track 157 : Soul22_24
- Track 158 : Demsculpinboyz_24
- Track 159 : SilverChicken_24
- Track 160 : Che9d_24
- Track 161 : Yoshi_24
- Track 162 : LunaStella_20

- Track 163 : ThetaBob_20
- Track 164 : Renaud18_20
- Track 165 : Cornie_20
- Track 166 : Toron_20
- Track 167 : Cambiare_23
- Track 168 : Avocado_22
- Track 169 : GodSpeed_23
- Track 170 : Pace1224_22, FlagStaff_22
- Track 171 : Pinnie_23
- Track 172 : Cloudyecho_22
- Track 173 : MOOREtheMARYer_23
- Track 174 : Lemuria_23
- Track 175 : Mercurio_24
- Track 176 : Jolie2_22
- Track 177 : YangYin_22
- Track 178 : Antsirabe_22
- Track 179 : Stargaze_22
- Track 180 : Puissant_28
- Track 181 : Oaker_29
- Track 182 : Damien_29, Cborch11_30, Beckerton_29, Megatron06_31
- Track 183 : Thumb_29, BobtimousPrime_28
- Track 184 : Konstantine_34, Phreeze_29
- Track 185 : DrLupo_38
- Track 186 : Barnyard_36
- Track 187 : PaintedDog_20
- Track 188 : Brujita_21, Island3_21
- Track 189 : Courthouse_36, Superphikiman_36, Squint_35, Porcelain_35, Ariel_36, Lucky2013_36
- Track 190 : LittleE_39
- Track 191 : MiaZeal_36
- Track 192 : Optimus_37
- Track 193 : Shaboozey_30, Hannaconda_33, KashFlow_30, BronnyJames_30, Nibley_31
- Track 194 : Wanda_39, BAKA_36, Omega_38
- Track 195 : Duke13_36
- Track 196 : Minerva_39
- Track 197 : Gonephishing_34
- Track 198 : DmpstrDiver_37
- Track 199 : Durfee_27, Dalmuri_27, Inky_27, Asayake_27, Jeckyll_27, Capricorn_27, BGIlluviae_27, CallaLilly_27, Pokerus_26, Ramen_27, Boiiii_27, Belladonna_27, Peel_27, Padfoot_27, AlishaPH_27, Twitch_27, CaseJules_27, Llorens_27, Piatt_27, BaghaKamala_27, JAWS_27, BEEST_27, Hyperbowlee_27, Jarvi_27, Spock_27, BarrelRoll_27, Topper_27, CREW_27, Blizzard_27, Homura_27, Rosmarinus_27, ShiaSurprise_27, Lunahalos_27
- Track 200 : MarkPhew_27
- Track 201 : Sulley_27, Angelica_27, Deby_27
- Track 202 : Joy99_27
- Track 203 : CrimD_27
- Track 204 : Prithvi_27, TreyKay_27, LindNT_27
- Track 205 : Adonis_27
- Track 206 : Zavala_27, Mynx_27, Emerson_27, TruffulaTree_27, Padpat_27
- Track 207 : HedwigODU_27, Veliki_27, Zabiza_27, Rapunzel97_27, Jayhawk_27, Adephagia_27, Slimphazie_27, ActinUp_27

- Track 208 : Anaya_28
- Track 209 : Illumine_27, Devera_27, Dole_27
- Track 210 : Pisa4_26, Pisa1_26
- Track 211 : Guanica15_27, Yunkel11_27, Efra2_27
- Track 212 : Geraldini_27, MeaningOfLife_27
- Track 213 : Tachez_27, YoureAdopted_26, Atiba_27
- Track 214 : DrHayes_27, Anma_27, Urkel_27, SamuelLPlaqson_27
- Track 215 : Megsy_27
- Track 216 : Murucutumbu_27
- Track 217 : CheetoDust_27
- Track 218 : Stinson_28
- Track 219 : LeMond_26
- Track 220 : MacKat_27, Clipper_27
- Track 221 : Ganymede_28, QuincyRose_26
- Track 222 : Apocalypse_27
- Track 223 : Bella96_27, DartGoblin_27
- Track 224 : TaiwanKao_28
- Track 225 : Beezoo_27
- Track 226 : TiniBug_27
- Track 227 : Bern_27
- Track 228 : Tiri_27
- Track 229 : Chris_26
- Track 230 : Oscar_26
- Track 231 : KiSi_26
- Track 232 : Ageofdapage_27
- Track 233 : Scarlett_26
- Track 234 : Nibb_26
- Track 235 : LaterM_27
- Track 236 : Marshawn_28
- Track 237 : SirPhilip_26
- Track 238 : Aminay_25
- Track 239 : Boilgate_24
- Track 240 : Vagabond_58, Krili_57, SchoolBus_58, Idergollasper_58, Mori_58, Wogge42_57, YoyoKar_56, KingPhillip3_57, Alkhayr_58, Schuy_59, Familton_59, FoulBall_58, Winget_59, MadKillah_59, NiebruSaylor_57, Blessica_59, TelAviv_55, Zebo_58, Catdawg_58, Imara_56, JangDynasty_58, Vorrps_58
- Track 241 : YungJamal_63, Wildflower_58, Corndog_61, Shida_58, Dylan_58, Murai_59, Ashwin_60, Zakhe101_58
- Track 242 : Ryadel_62
- Track 243 : Smooch_61, Firecracker_59
- Track 244 : Bora_56
- Track 245 : Shipwreck_20, Bogie_20
- Track 246 : Pygmy_20
- Track 247 : NovoPizza_24
- Track 248 : MaryV_43, Wildcat_43
- Track 249 : Cosmo_43
- Track 250 : Azrael100_42
- Track 251 : EniyanLRS_40
- Track 252 : Gaia_21
- Track 253 : Nebkiss_22
- Track 254 : Kumao_30
- Track 255 : MooMoo_18

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

The start number called the most often in the published annotations is 53, it was called in 233 of the 541 non-draft genes in the pham.

Genes that call this "Most Annotated" start:

- Alexphander_20, Aloeri_19, AlpineSix_18, ArcusAngelus_18, Ardmore_18, Ariel_36, Aubs_18, Awesomesauce_19, BAKA_36, Batiatus_18, Beakin_19, Beanstalk_20, Bipolar_18, Blexus_18, BlueCrab_18, BobaPhett_18, Bobi_20, BodEinwohner17_18, Boomer_19, BronnyJames_30, Brookers_19, Brushbloom_19, Bubbles123_19, Burwell21_18, BuzzLyseyear_20, ByChance_18, Byougenkin_18, Cabrinians_18, CaptainTrips_19, Che8_18, CheesePuff_20, Chevrolet_18, ChickenDinner_19, Chuckly_18, Clank_18, Coco12_20, Corium_18, Cornucopia_19, Courthouse_36, DLane_18, DRBy19_18, DaWorst_20, DaddyRickover_18, Daenerys_18, Dante_18, DeadP_18, Deb65_18, DillTech15_18, DirtMcgirt_19, DmpstrDiver_37, DoRead_18, DocMcStuffs_19, Donkeykong_18, Doomphist_18, Doomslug_20, Dorothy_18, DosHalletts_19, DotProduct_18, Doug_19, Drago_19, Duke13_36, Eish_18, EleanorGeorge_18, EmiMonkey_18, Emma_18, Emmaloid_19, Empress_19, Enby_19, Enzomatic_20, Eradicator_18, Estave1_18, Fancypants_18, Fastidio_18, Filuzino_18, Firehouse51_19, Flathead_19, Florinda_18, Frankie_19, FreddyB_18, Fruitloop_18, GUmbie_18, Galactic_18, Gandolph_18, Geralt_18, GigiOuiOui_18, Girafales_19, Girr_18, Gorge_18, Grimmer_19, Guppsters_19, Hades_18, Hamulus_18, Hannaconda_33, Harley_18, Hegedechwinu_19, Hlubikazi_18, IMpilo_18, IbOuu_18, Ibhubesi_18, Inventum_18, IrishSherpFalk_19, JalFarm20_20, James_18, Jant_18, Jarcob_18, Jinglebell_17, Job42_21, JoeyJr_18, Juice456_20, Juniper1_18, Karhdo_18, KashFlow_30, Kenuha5_18, Kersh_19, Kimberlium_20, KingJulian_18, KingMidas_19, Kingsley_19, Krakatau_19, KristaRAM_19, Latretium_19, Leozinho_19, Leperchaun_18, LilMoolah_18, LittleE_39, LittleShirley_19, Lizziana_18, Llama_18, Llij_18, Lorde_19, Lucia_19, Lucky2013_36, LunaBlu_19, MadMen_19, Madiba_19, Mahavrat_18, Mandlovu_18, Mantra_18, Maravista_18, Marker_19, Martik_18, Mattes_18, Medindi_18, MiaZeal_36, MilleniumForce_19, Minerva_39, MinionDave_19, Minnie_19, Misha28_19, MisterCuddles_18, Modragons_18, MooMoo_18, Moonbeam_19, Mova_19, Mozy_19, MulchExplorer_21, Mutaforma13_18, Mwanjiwa_18, NewHope4_19, Nibley_31, Nimbo_18, Nitzel_19, Nivrat_18, NormanBulbieJr_18, Ochi17_18, OfUltron_18, OgoPogo_21, Oksu_19, OldBen_18, OlympiaSaint_18, Omega_38, Optimus_37, Ovechkin_18, OwlsT2W_20, PHappiness_18, PMC_18, Pacc40_18, PatoPoderoso_18, Peridot_20, Phalconet_18, Phanphagia_18, Phasih_19, Phatniss_19, PhesterPotato_18, Philus_18, PhilipPhlop_18, Piper2020_19, Plumbus_19, Poenanya_18, Polka14_19, Pollywog_21, Polo2Bam_20, PopTart_18, Porcelain_35, Priscilla_18, QuickMath_19, Quico_19, Radiance_18, Ramsey_19, RedBird_18, Rialto_20, RitaG_18, Rita_18, Rockne_18, RockyHorror_19, Royals2015_18, Ruby_18, SG4_18, Saal_18, Sabb_19, Sandalphon_19, Sassafras_18, SassyB_18, Scottish_19, Sebastian_18, Seagreen_19, Shaboozey_30, Shauna1_18, ShiLan_18, ShowerHandel_18, ShroomBoi_18, SiSi_18, SimranZ1_19, Slim_19, Sparkdehlily_18, Spartacus_19, Spikelee_19, Spoonbill_18, Squint_35, StAnnes_18, Stap_19, StarceVich_19, Strokeseat_18, SuperGrey_19, Superphikiman_36, SwagPiggett_18, TDanisky_18, Taj_18, Tchotchke_19, TootsiePop_19, Tootsieroll_19, Topiatin_20, Totinger_19, Tweety_18, UncleRicky_19, VRedHorse_18, Veteran_18, Violac_19, Vivum_18, Wachhund_18,

Wanda_39, Wee_19, Whatsapiecost_18, Whouxphf_18, WillSterrel_19, XFactor_18, Yorick_18, Zerg_18, Zizzle_18,

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

• Avani_24, Che9d_24, Demsculpinboyz_24, Gonephishing_34, Jabbawokkie_26, Melissauren88_18, Soul22_24, Yoshi_24, Zapner_25,

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

• 244_28, 39HC_026, 40BC_026, ABCat_25, ActinUp_27, Adephagia_27, Adnama_29, Adonis_27, Ageofdapage_27, AlishaPH_27, Alkhayr_58, Amao_26, AmericanBeauty_28, Aminay_25, Anaya_28, Angelica_27, Anma_27, Antsirabe_22, Apocalypse_27, Argent26_28, Asayake_27, Ashwin_60, Asriel_25, Atiba_27, Avocado_22, Azrael100_42, BEEST_27, BGlluviae_27, BaboJay_25, BadStone_25, BaghaKamala_27, Balomoji_25, Barbarian_25, Barnyard_36, BarrelRoll_27, Bask21_26, Beckerton_29, Becksu_26, Beezoo_27, Bella96_27, Belladonna_27, Bench_28, Bern_27, BigBubba_27, BilboSwaggins_26, BirdsNest_33, Blarby_25, Blessica_59, Blizzard_27, BobtimousPrime_28, Bogg_26, Bogie_20, Boiiii_27, Boilgate_24, Bora_56, Brewer_26, Bruin_26, Brujita_21, Buck_25, Budgie_28, BugsBunny_24, CREW_27, Cactus_27, CallaLilly_27, Cambiare_23, Capricorn_27, CaseJules_27, Catdawg_58, Causa_36, Cborch11_30, CheetoDust_27, ChosenOne_25, ChotaBhai_26, Chris_26, Cjw1_26, Clipper_27, Cloudyecho_22, Command613_27, Contagion_25, Cookies_26, Corndog_61, Cornie_20, Cosmo_43, CrimD_27, CrystalP_26, Czystczon1_27, Daikon_24, Dalmuri_27, Damien_29, DartGoblin_27, Deby_27, Devera_27, DoctorDiddles_26, Dole_27, DrDrey_27, DrHayes_27, DrLupo_38, Dumbo_26, Durfee_27, Dusk_25, Dylan_58, Easy2Say_28, Efra2_27, Elite2014_25, Elph10_27, Emerson_27, Emmina_27, EniyanLRS_40, Eureka_26, FairyPath_26, Familton_59, Filch_27, FireRed_26, Firecracker_59, FlagStaff_22, Flypotenuse_24, FoghornLeghorn_25, ForDig_26, FoulBall_58, Funsized_34, Gage_28, Gaia_21, Ganymede_28, Gator_24, Gemini_29, Geraldini_27, Glexan_24, GodSpeed_23, Goku_26, GoldenSpark_28, Goldilocks_27, GooberAzure_28, Greep_27, Guanica15_27, HanKaySha_27, Harella_25, Hawkeye_32, HedwigODU_27, Henry_26, Highbury_27, Holt_27, Homura_27, Hoonter_28, Hopey_28, Hosp_024, HufflyPuff_25, Hyperbowlee_27, IHOP_26, Icee_25, Idergollasper_58, Illumine_27, Imara_56, Inca_25, Inky_27, Island3_21, JAWS_27, JangDynasty_58, Jarvi_27, Jayhawk_27, JeTaime_28, Jeckyll_27, Jolie1_026, Jolie2_22, Joy99_27, Kanye_28, KayaCho_26, KiSi_26, Kimchi_28, KingPhillip3_57, Konstantine_34, Kostya_26, Krili_57, Kumao_30, LaterM_27, LeMond_26, Lemuria_23, LilMcDreamy_27, Lilac_28, Lilizi_28, Lilpickle_25, LindNT_27, LittleMinkey_35, Llorens_27, LunaStella_20, Lunahalos_27, MISSy_25, MOOREtheMARYer_23, MPhalcon_25, MacKat_27, MadKillah_59, MadamMonkfish_26, Manda_27, MarkPhew_27, Marshawn_28, Marshmallow_26, MaryV_43, Maxxinista_27, MeaningOfLife_27, Megatron06_31, Megsy_27, Mercurio_24, Mindy_26, Miniwave_26, Misfit_26, Moldemort_27, MollyToe_26, Mori_58, Mosby_25, Murai_59, Murica_25, Murphy_27, Murucutumbu_27, Mynx_27, Myrale_26, Nala_26, Nebkiss_22, NelitzaMV_26, Nibb_26, NiebruSaylor_57, Nimrod_26, NoShow_21, NoSleep_27, NonchalantPear_26, NovoPizza_24, Oaker_29, OrionPax_27, Oscar_26, Pace1224_22, PaddyBaddy_27, Padfoot_27, Padpat_27, PaintedDog_20, Palpatine_26, Paperbeatsrock_28, Pat3_25, Peel_27, Petra64142_28, Phaja_26, Pharsalus_27, PhatBacter_26, Phaux_25, Phreeze_29, Phrux_26, Piatt_27, Pinnie_23, Pisa1_26, Pisa4_26, Pokerus_26, Policronamos_26, Porky_26, Prithvi_27, Ptowny_26, Puissant_28, Pumpkin_28, Pygmy_20, Qualification_27, QuincyRose_26, Rakim_27, Ramen_27, Rapunzel97_27, Renaud18_20, Rimmer_25, Rinke_33, RiverMonster_26, Rosmarinus_27,

Ryadel_62, Saints25_27, SamuelLPlaqson_27, Sassay_25, Scarlett_26, SchoolBus_58, Schuy_59, ShamWow_26, ShereKhan_28, ShiaSurprise_27, Shida_58, Shipwreck_20, SilverChicken_24, Simpliphy_27, SirDuracell_25, SirPhilip_26, Slimphazie_27, Smooch_61, SophKB_26, Sotrice96_26, Spock_27, StAugustine_34, Stank_29, Stargaze_22, Stark_27, StellaBean_26, Stinson_28, StolenFromERC_28, StormChicken_26, Sulley_27, TBrady12_28, Tachez_27, TaiwanKao_28, Tarkin_28, TeamEdward_26, TeardropMSU_25, Teaspoon_27, TelAviv_55, Terminus_26, ThetaBob_20, Thimble_26, Thresher_27, Thumb_29, TiniBug_27, Tiri_27, Tomaszewski_25, Topper_27, Toron_20, Toto_26, Traaww1_24, TreyKay_27, TruffulaTree_27, Tuco_27, Twitch_27, Ukulele_26, Urkel_27, Vagabond_58, Veliki_27, Vorrps_58, Weirdo19_22, Wiggin_29, Wildcat_43, Wildflower_58, Willez_25, Winget_59, Wogge42_57, Xandras_28, YangYin_22, YassJohnny_27, Youngblood_26, YoureAdopted_26, YoyoKar_56, YungJamal_63, Yunkel11_27, Zabiza_27, Zakhe101_58, Zavala_27, Zebo_58, xkcd_27,

Summary by start number:

Start 2:

- Found in 2 of 612 (0.3%) of genes in pham
- Manual Annotations of this start: 2 of 541
- Called 100.0% of time when present
- Phage (with cluster) where this start called: Barnyard_36 (H2), DrLupo_38 (H2),

Start 14:

- Found in 1 of 612 (0.2%) of genes in pham
- Manual Annotations of this start: 1 of 541
- Called 100.0% of time when present
- Phage (with cluster) where this start called: Hawkeye_32 (D2),

Start 17:

- Found in 10 of 612 (1.6%) of genes in pham
- Manual Annotations of this start: 8 of 541
- Called 100.0% of time when present
- Phage (with cluster) where this start called: Beckerton_29 (H1), BobtimousPrime_28 (H1), Cborch11_30 (H1), Damien_29 (H1), Konstantine_34 (H1), Megatron06_31 (H1), Oaker_29 (H1), Phreeze_29 (H1), Puissant_28 (H1), Thumb_29 (H1),

Start 19:

- Found in 3 of 612 (0.5%) of genes in pham
- No Manual Annotations of this start.
- Called 33.3% of time when present
- Phage (with cluster) where this start called: NovoPizza_24 (Q),

Start 33:

- Found in 14 of 612 (2.3%) of genes in pham
- Manual Annotations of this start: 9 of 541
- Called 100.0% of time when present
- Phage (with cluster) where this start called: Antsirabe_22 (G5), Avocado_22 (G2), Cambiare_23 (G2), Cloudyecho_22 (G3), FlagStaff_22 (G2), GodSpeed_23 (G2), Jolie2_22 (G4), Lemuria_23 (G4), MOOREtheMARYer_23 (G3), Mercurio_24 (G4), Pace1224_22 (G2), Pinnie_23 (G3), Stargaze_22 (G5), YangYin_22 (G5),

Start 38:

- Found in 11 of 612 (1.8%) of genes in pham
- Manual Annotations of this start: 6 of 541
- Called 100.0% of time when present
- Phage (with cluster) where this start called: 39HC_026 (B6), 40BC_026 (B6), BirdsNest_33 (B13), ForDig_26 (B6), Funsized_34 (B9), Hosp_024 (B6), Jolie1_026 (B6), KayaCho_26 (B6), LilMcDreamy_27 (B12), LittleMinkey_35 (B13), Rinkes_33 (B9),

Start 39:

- Found in 7 of 612 (1.1%) of genes in pham
- Manual Annotations of this start: 7 of 541
- Called 100.0% of time when present
- Phage (with cluster) where this start called: Avani_24 (F2), Che9d_24 (F2), Demsculpinboyz_24 (F2), Jabbawokkie_26 (F2), Soul22_24 (F2), Yoshi_24 (F2), Zapner_25 (F2),

Start 41:

- Found in 2 of 612 (0.3%) of genes in pham
- No Manual Annotations of this start.
- Called 50.0% of time when present
- Phage (with cluster) where this start called: Blarby_25 (F),

Start 43:

- Found in 2 of 612 (0.3%) of genes in pham
- Manual Annotations of this start: 2 of 541
- Called 100.0% of time when present
- Phage (with cluster) where this start called: Gaia_21 (X), Nebkiss_22 (X),

Start 53:

- Found in 268 of 612 (43.8%) of genes in pham
- Manual Annotations of this start: 233 of 541
- Called 96.6% of time when present
- Phage (with cluster) where this start called: Alexphander_20 (F1), Aloeri_19 (F1), AlpineSix_18 (F1), ArcusAngelus_18 (F1), Ardmore_18 (F1), Ariel_36 (J), Aubs_18 (F1), Awesomesauce_19 (F1), BAKA_36 (J), Batiatus_18 (F1), Beakin_19 (F1), Beanstalk_20 (F1), Bipolar_18 (F1), Blexus_18 (F1), BlueCrab_18 (F1), BobaPhett_18 (F1), Bobi_20 (F1), BodEinwohner17_18 (F1), Boomer_19 (F1), BronnyJames_30 (J), Brookers_19 (F1), Brushbloom_19 (F1), Bubbles123_19 (F1), Burwell21_18 (F1), BuzzLyseyear_20 (F1), ByChance_18 (F1), Byougenkin_18 (F1), Cabrinians_18 (F1), CaptainTrips_19 (F1), Che8_18 (F1), Cheesepuff_20 (F1), Chevrolet_18 (F1), ChickenDinner_19 (F1), Chuckly_18 (F1), Clank_18 (F), Coco12_20 (F1), Corium_18 (F1), Cornucopia_19 (F1), Courthouse_36 (J), DLane_18 (F1), DRBy19_18 (F1), DaWorst_20 (F1), DaddyRickover_18 (F1), Daenerys_18 (F1), Dante_18 (F1), DeadP_18 (F1), Deb65_18 (F1), DillTech15_18 (F1), DirtMcgirt_19 (F1), DmpstrDiver_37 (J), DoRead_18 (F1), DocMcStuffins_19 (F1), Donkeykong_18 (F1), Doomphist_18 (F1), Doomslug_20 (F), Dorothy_18 (F1), DosHalletts_19 (F1), DotProduct_18 (F1), Doug_19 (F1), Drago_19 (F1), Duke13_36 (J), Eish_18 (F1), EleanorGeorge_18 (F1), EmiMonkey_18 (F1), Emma_18 (F1), Emmaloid_19 (F1), Empress_19 (F1), Enby_19 (F1), Enzomatic_20 (F1), Eradicator_18 (F1), Estave1_18 (F1), Fancypants_18 (F1), Fastidio_18 (F1), Filuzino_18 (F1), Firehouse51_19 (F1), Flathead_19 (F1), Florinda_18 (F1), Frankie_19 (F1), FreddyB_18 (F1), Fruitloop_18 (F1), GUmbie_18 (F1), Galactic_18 (F1), Gandolph_18 (F1), Geralt_18 (F1), GigiOuiOui_18 (F1), Girafales_19 (F1),

Girr_18 (F1), Gorge_18 (F1), Grimmer_19 (F1), Guppsters_19 (F1), Hades_18 (F1), Hamulus_18 (F1), Hannaconda_33 (J), Harley_18 (F1), Hegedechwinu_19 (F1), Hlubikazi_18 (F1), IMpilo_18 (F1), IbOuu_18 (F1), Ibhubesi_18 (F1), Inventum_18 (F1), IrishSherpFalk_19 (F1), JalFarm20_20 (F1), James_18 (F1), Jant_18 (F1), Jarcob_18 (F1), Jinglebell_17 (F1), Job42_21 (F1), JoeyJr_18 (F1), Juice456_20 (F1), Juniper1_18 (F1), Karhdo_18 (F1), KashFlow_30 (J), Kenuha5_18 (F1), Kersh_19 (F1), Kimberlium_20 (F1), KingJulian_18 (F1), KingMidas_19 (F1), Kingsley_19 (F1), Krakatau_19 (F1), KristaRAM_19 (F1), Latretium_19 (F1), Leozinho_19 (F1), Leperchaun_18 (F1), LilMoolah_18 (F1), LittleE_39 (J), LittleShirley_19 (F1), Lizziana_18 (F1), Llama_18 (F1), Llij_18 (F1), Lorde_19 (F1), Lucia_19 (F1), Lucky2013_36 (J), LunaBlu_19 (F1), MadMen_19 (F1), Madiba_19 (F1), Mahavrat_18 (F1), Mandlovu_18 (F1), Mantra_18 (F1), Maravista_18 (F1), Marker_19 (F1), Martik_18 (F1), Mattes_18 (F1), Medindi_18 (F1), MiaZeal_36 (J), MilleniumForce_19 (F1), Minerva_39 (J), MinionDave_19 (F1), Minnie_19 (F1), Misha28_19 (F1), MisterCuddles_18 (F1), Modragons_18 (F1), MooMoo_18 (singleton), Moonbeam_19 (F1), Mova_19 (F1), Mozy_19 (F1), MulchExplorer_21 (F1), Mutaforma13_18 (F1), Mwanjiwa_18 (F1), NewHope4_19 (F1), Nibley_31 (J), Nimbo_18 (F1), Nitzel_19 (F1), Nivrat_18 (F1), NormanBulbieJr_18 (F1), Ochi17_18 (F1), OfUltron_18 (F1), Ogopogo_21 (F1), Oksu_19 (F1), OldBen_18 (F1), OlympiaSaint_18 (F1), Omega_38 (J), Optimus_37 (J), Ovechkin_18 (F1), OwlsT2W_20 (F1), PHappiness_18 (F1), PMC_18 (F1), Pacc40_18 (F1), PatoPoderoso_18 (F1), Peridot_20 (F1), Phalconet_18 (F1), Phanphagia_18 (F1), Phasih_19 (F1), Phatniss_19 (F1), PhesterPhotato_18 (F1), Philus_18 (F1), PhilipPhlop_18 (F1), Piper2020_19 (F1), Plumbus_19 (F1), Poenanya_18 (F1), Polka14_19 (F1), Pollywog_21 (F1), Polo2Bam_20 (F1), PopTart_18 (F1), Porcelain_35 (J), Priscilla_18 (F1), QuickMath_19 (F1), Quico_19 (F1), Radiance_18 (F1), Ramsey_19 (F1), RedBird_18 (F1), Rialto_20 (F1), RitaG_18 (F1), Rita_18 (F1), Rockne_18 (F1), RockyHorror_19 (F1), Royals2015_18 (F1), Ruby_18 (F1), SG4_18 (F1), Saal_18 (F1), Sabbb_19 (F1), Sandalphon_19 (F1), Sassafras_18 (F1), SassyB_18 (F1), Scottish_19 (F1), Sebastian_18 (F1), Seagreen_19 (F1), Shaboozey_30 (J), Shauna1_18 (F1), ShiLan_18 (F1), ShowerHandel_18 (F1), ShroomBoi_18 (F1), SiSi_18 (F1), SimranZ1_19 (F1), Slim_19 (F1), Sparkdehily_18 (F1), Spartacus_19 (F1), Spikelee_19 (F1), Spoonbill_18 (F1), Squint_35 (J), StAnnes_18 (F1), Stap_19 (F1), Starcevic_19 (F1), Strokeseat_18 (F1), SuperGrey_19 (F1), Superphikiman_36 (J), SwagPiggett_18 (F1), TDanisky_18 (F1), Taj_18 (F1), Tchochke_19 (F1), TootsiePop_19 (F1), Tootsieroll_19 (F1), Topiatin_20 (F1), Totinger_19 (F1), Tweety_18 (F1), UncleRicky_19 (F1), VRedHorse_18 (F1), Veteran_18 (F1), Violac_19 (F1), Vivum_18 (F1), Wachhund_18 (F1), Wanda_39 (J), Wee_19 (F1), Whatsapiecost_18 (F1), Whouxphf_18 (F1), WillSterrel_19 (F1), XFactor_18 (F1), Yorick_18 (F1), Zerg_18 (F1), Zizzle_18 (F1),

Start 54:

- Found in 6 of 612 (1.0%) of genes in pham
- Manual Annotations of this start: 6 of 541
- Called 100.0% of time when present
- Phage (with cluster) where this start called: Azrael100_42 (V), Cosmo_43 (V), EniyanLRS_40 (V), Kumao_30 (singleton), MaryV_43 (V), Wildcat_43 (V),

Start 55:

- Found in 2 of 612 (0.3%) of genes in pham
- Manual Annotations of this start: 1 of 541
- Called 50.0% of time when present
- Phage (with cluster) where this start called: Cornie_20 (F5),

Start 56:

- Found in 3 of 612 (0.5%) of genes in pham
- Manual Annotations of this start: 3 of 541
- Called 100.0% of time when present
- Phage (with cluster) where this start called: LunaStella_20 (F4), Renaud18_20 (F4), ThetaBob_20 (F4),

Start 60:

- Found in 3 of 612 (0.5%) of genes in pham
- Manual Annotations of this start: 2 of 541
- Called 100.0% of time when present
- Phage (with cluster) where this start called: Brujita_21 (I1), Island3_21 (I1), PaintedDog_20 (I1),

Start 63:

- Found in 37 of 612 (6.0%) of genes in pham
- Manual Annotations of this start: 33 of 541
- Called 100.0% of time when present
- Phage (with cluster) where this start called: Alkhayr_58 (O), Ashwin_60 (O), Blessica_59 (O), Bogie_20 (P1), Bora_56 (O), Catdawg_58 (O), Corndog_61 (O), Dylan_58 (O), Familton_59 (O), Firecracker_59 (O), FoulBall_58 (O), Idergollasper_58 (O), Imara_56 (O), JangDynasty_58 (O), KingPhillip3_57 (O), Kriii_57 (O), MadKillah_59 (O), Mori_58 (O), Murai_59 (O), NiebruSaylor_57 (O), Pygmy_20 (P1), Ryadel_62 (O), SchoolBus_58 (O), Schuy_59 (O), Shida_58 (O), Shipwreck_20 (P1), Smooch_61 (O), TelAviv_55 (O), Vagabond_58 (O), Vorrps_58 (O), Wildflower_58 (O), Winget_59 (O), Wogge42_57 (O), YoyoKar_56 (O), YungJamal_63 (O), Zakhe101_58 (O), Zebo_58 (O),

Start 72:

- Found in 196 of 612 (32.0%) of genes in pham
- Manual Annotations of this start: 1 of 541
- Called 0.5% of time when present
- Phage (with cluster) where this start called: Melissauren88_18 (F1),

Start 78:

- Found in 1 of 612 (0.2%) of genes in pham
- Manual Annotations of this start: 1 of 541
- Called 100.0% of time when present
- Phage (with cluster) where this start called: Boilgate_24 (K8),

Start 82:

- Found in 101 of 612 (16.5%) of genes in pham
- Manual Annotations of this start: 96 of 541
- Called 100.0% of time when present
- Phage (with cluster) where this start called: ActinUp_27 (K1), Adephegia_27 (K1), Adonis_27 (K1), Ageofdapage_27 (K1), AlishaPH_27 (K1), Aminay_25 (K7), Anaya_28 (K1), Angelica_27 (K1), Anma_27 (K1), Apocalypse_27 (K1), Asayake_27 (K1), Atiba_27 (K1), BEEST_27 (K1), BGlluviae_27 (K1), BaghaKamala_27 (K1), BarrelRoll_27 (K1), Beezoo_27 (K1), Bella96_27 (K1), Belladonna_27 (K1), Bern_27 (K1), Blizzard_27 (K1), Boiii_27 (K1), CREW_27 (K1), CallaLilly_27 (K1), Capricorn_27 (K1), CaseJules_27 (K1), CheetoDust_27 (K1), Chris_26 (K1), Clipper_27 (K1), CrimD_27 (K1), Dalmuri_27 (K1), DartGoblin_27 (K1), Deby_27

(K1), Devera_27 (K1), Dole_27 (K1), DrHayes_27 (K1), Durfee_27 (K1), Efra2_27 (K1), Emerson_27 (K1), Ganymede_28 (K1), Geraldini_27 (K1), Guanica15_27 (K1), HedwigODU_27 (K1), Homura_27 (K1), Hyperbowlee_27 (K1), Illumine_27 (K1), Inky_27 (K1), JAWS_27 (K1), Jarvi_27 (K1), Jayhawk_27 (K1), Jeckyll_27 (K1), Joy99_27 (K1), KiSi_26 (K1), LaterM_27 (K1), LeMond_26 (K1), LindNT_27 (K1), Llorens_27 (K1), Lunahalos_27 (K1), MacKat_27 (K1), MarkPheW_27 (K1), Marshawn_28 (K6), MeaningOfLife_27 (K1), Megsy_27 (K1), Murucutumbu_27 (K1), Mynx_27 (K1), Nibb_26 (K1), Oscar_26 (K1), Padfoot_27 (K1), Padpat_27 (K1), Peel_27 (K1), Piatt_27 (K1), Pisa1_26 (K1), Pisa4_26 (K1), Pokerus_26 (K1), Prithvi_27 (K1), QuincyRose_26 (K1), Ramen_27 (K1), Rapunzel97_27 (K1), Rosmarinus_27 (K1), SamuelLPlaqson_27 (K1), Scarlett_26 (K1), ShiaSurprise_27 (K1), SirPhilip_26 (K6), Slimphazie_27 (K1), Spock_27 (K1), Stinson_28 (K1), Sulley_27 (K1), Tachez_27 (K1), TaiwanKao_28 (K1), TiniBug_27 (K1), Tiri_27 (K1), Topper_27 (K1), TreyKay_27 (K1), TruffulaTree_27 (K1), Twitch_27 (K1), Urkel_27 (K1), Veliki_27 (K1), YoureAdopted_26 (K1), Yunkel11_27 (K1), Zabiza_27 (K1), Zavala_27 (K1),

Start 84:

- Found in 1 of 612 (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: SilverChicken_24 (F2),

Start 99:

- Found in 147 of 612 (24.0%) of genes in pham
- Manual Annotations of this start: 127 of 541
- Called 98.0% of time when present
- Phage (with cluster) where this start called: 244_28 (E), ABCat_25 (E), Adnama_29 (E), Amao_26 (E), AmericanBeauty_28 (E), Argent26_28 (E), Asriel_25 (E), BaboJay_25 (E), BadStone_25 (E), Balomoji_25 (E), Barbarian_25 (E), Bask21_26 (E), Becksu_26 (E), Bench_28 (E), BigBubba_27 (E), BilboSwaggins_26 (E), Bogg_26 (E), Brewer_26 (E), Bruin_26 (E), Buck_25 (E), Budgie_28 (E), BugsBunny_24 (E), Cactus_27 (E), ChosenOne_25 (E), ChotaBhai_26 (E), Cjw1_26 (E), Command613_27 (E), Contagion_25 (E), Cookies_26 (E), CrystalP_26 (E), Czystczon1_27 (E), Daikon_24 (E), DoctorDiddles_26 (E), DrDrey_27 (E), Dumbo_26 (E), Dusk_25 (E), Easy2Say_28 (E), Elite2014_25 (E), Elph10_27 (E), Emmina_27 (E), Eureka_26 (E), FairyPath_26 (E), Filch_27 (E), FireRed_26 (E), Flypotenuse_24 (E), FoghornLeghorn_25 (E), Gage_28 (E), Gator_24 (E), Gemini_29 (E), Glexan_24 (E), Goku_26 (E), GoldenSpark_28 (E), Goldilocks_27 (E), GooberAzure_28 (E), Greep_27 (E), HanKaySha_27 (E), Harella_25 (E), Henry_26 (E), Highbury_27 (E), Holt_27 (E), Hoonter_28 (E), Hopey_28 (E), HuffyPuff_25 (E), IHOP_26 (E), Icee_25 (E), Inca_25 (E), JeTaime_28 (E), Kanye_28 (E), Kimchi_28 (E), Kostya_26 (E), Lilac_28 (E), Lilizi_28 (E), Lilpickle_25 (E), MISSy_25 (E), MPhalcon_25 (E), MadamMonkfish_26 (E), Manda_27 (E), Marshmallow_26 (E), Maxxinista_27 (E), Mindy_26 (E), Miniwave_26 (E), Misfit_26 (E), Moldemort_27 (E), MollyToe_26 (E), Mosby_25 (E), Murica_25 (E), Murphy_27 (E), Myrale_26 (E), Nala_26 (E), NelitzaMV_26 (E), Nimrod_26 (E), NoSleep_27 (E), NonchalantPear_26 (E), OrionPax_27 (E), PaddyBaddy_27 (E), Palpatine_26 (E), Paperbeatsrock_28 (E), Pat3_25 (E), Petra64142_28 (E), Phaja_26 (E), Pharsalus_27 (E), PhatBacter_26 (E), Phaux_25 (E), Phrux_26 (E), Policronamos_26 (E), Porky_26 (E), Ptowny_26 (E), Pumpkin_28 (E), Qualification_27 (E), Rakim_27 (E), Rimmer_25 (E), RiverMonster_26 (E), Saints25_27 (E), Sassay_25 (E), ShamWow_26 (E), ShereKhan_28 (E), Simpliphy_27 (E), SirDuracell_25 (E), SophKB_26 (E),

Sotrice96_26 (E), Stank_29 (E), Stark_27 (E), StellaBean_26 (E), StolenFromERC_28 (E), StormChicken_26 (E), TBrady12_28 (E), Tarkin_28 (E), TeamEdward_26 (E), TeardropMSU_25 (E), Teaspoon_27 (E), Terminus_26 (E), Thimble_26 (E), Thresher_27 (E), Tomaszewski_25 (E), Toto_26 (E), Traaww1_24 (E), Tuco_27 (E), Ukulele_26 (E), Wiggins_29 (E), Willez_25 (E), Xandras_28 (E), YassJohnny_27 (E), Youngblood_26 (E), xkcd_27 (E),

Start 113:

- Found in 1 of 612 (0.2%) of genes in pham
- Manual Annotations of this start: 1 of 541
- Called 100.0% of time when present
- Phage (with cluster) where this start called: NoShow_21 (AB),

Start 117:

- Found in 1 of 612 (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: Toron_20 (F6),

Start 139:

- Found in 266 of 612 (43.5%) of genes in pham
- No Manual Annotations of this start.
- Called 0.4% of time when present
- Phage (with cluster) where this start called: Gonephishing_34 (J),

Start 225:

- Found in 145 of 612 (23.7%) of genes in pham
- No Manual Annotations of this start.
- Called 0.7% of time when present
- Phage (with cluster) where this start called: Weirido19_22 (AH),

Start 235:

- Found in 2 of 612 (0.3%) of genes in pham
- Manual Annotations of this start: 2 of 541
- Called 100.0% of time when present
- Phage (with cluster) where this start called: Causa_36 (AI), StAugustine_34 (AI),

Summary by clusters:

There are 33 clusters represented in this pham: singleton, K1, AB, K7, K6, K8, G5, G4, G3, G2, I1, P1, E, F, AI, AH, J, O, Q, V, X, F1, F2, F4, F5, F6, H2, H1, B6, B12, D2, B9, B13,

Info for manual annotations of cluster AB:

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

Info for manual annotations of cluster AI:

- Start number 235 was manually annotated 2 times for cluster AI.

Info for manual annotations of cluster B12:

- Start number 38 was manually annotated 1 time for cluster B12.

Info for manual annotations of cluster B13:

- Start number 38 was manually annotated 1 time for cluster B13.

Info for manual annotations of cluster B6:

- Start number 38 was manually annotated 2 times for cluster B6.

Info for manual annotations of cluster B9:

- Start number 38 was manually annotated 2 times for cluster B9.

Info for manual annotations of cluster D2:

- Start number 14 was manually annotated 1 time for cluster D2.

Info for manual annotations of cluster E:

- Start number 99 was manually annotated 127 times for cluster E.

Info for manual annotations of cluster F1:

- Start number 53 was manually annotated 215 times for cluster F1.
- Start number 72 was manually annotated 1 time for cluster F1.

Info for manual annotations of cluster F2:

- Start number 39 was manually annotated 7 times for cluster F2.

Info for manual annotations of cluster F4:

- Start number 56 was manually annotated 3 times for cluster F4.

Info for manual annotations of cluster F5:

- Start number 55 was manually annotated 1 time for cluster F5.

Info for manual annotations of cluster G2:

- Start number 33 was manually annotated 3 times for cluster G2.

Info for manual annotations of cluster G3:

- Start number 33 was manually annotated 2 times for cluster G3.

Info for manual annotations of cluster G4:

- Start number 33 was manually annotated 2 times for cluster G4.

Info for manual annotations of cluster G5:

- Start number 33 was manually annotated 2 times for cluster G5.

Info for manual annotations of cluster H1:

- Start number 17 was manually annotated 8 times for cluster H1.

Info for manual annotations of cluster H2:

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

Info for manual annotations of cluster I1:

- Start number 60 was manually annotated 2 times for cluster I1.

Info for manual annotations of cluster J:

- Start number 53 was manually annotated 17 times for cluster J.

Info for manual annotations of cluster K1:

- Start number 82 was manually annotated 93 times for cluster K1.

Info for manual annotations of cluster K6:

- Start number 82 was manually annotated 2 times for cluster K6.

Info for manual annotations of cluster K7:

- Start number 82 was manually annotated 1 time for cluster K7.

Info for manual annotations of cluster K8:

- Start number 78 was manually annotated 1 time for cluster K8.

Info for manual annotations of cluster O:

- Start number 63 was manually annotated 30 times for cluster O.

Info for manual annotations of cluster P1:

- Start number 63 was manually annotated 3 times for cluster P1.

Info for manual annotations of cluster V:

- Start number 54 was manually annotated 5 times for cluster V.

Info for manual annotations of cluster X:

- Start number 43 was manually annotated 2 times for cluster X.

Gene Information:

Gene: 244_28 Start: 22564, Stop: 24960, Start Num: 99

Candidate Starts for 244_28:

(Start: 99 @22564 has 127 MA's), (164, 22741), (170, 22762), (225, 22909), (261, 23083), (271, 23116), (277, 23152), (306, 23245), (328, 23305), (333, 23323), (359, 23455), (374, 23500), (404, 23632), (412, 23677), (433, 23737), (464, 23851), (467, 23872), (475, 23911), (478, 23932), (480, 23947), (513, 24097), (515, 24103), (518, 24121), (534, 24175), (553, 24259), (574, 24352), (628, 24598), (664, 24814), (678, 24898), (684, 24931),

Gene: 39HC_026 Start: 27572, Stop: 30067, Start Num: 38

Candidate Starts for 39HC_026:

(Start: 38 @27572 has 6 MA's), (51, 27629), (77, 27686), (131, 27806), (137, 27824), (158, 27896), (161, 27902), (177, 27956), (191, 27992), (239, 28175), (248, 28220), (255, 28259), (270, 28307), (272, 28313), (296, 28361), (305, 28391), (313, 28418), (326, 28454), (331, 28472), (337, 28496), (342, 28520), (359, 28604), (371, 28640), (382, 28670), (389, 28706), (393, 28724), (437, 28931), (439, 28943), (442, 28952), (459, 29021), (461, 29027), (462, 29030), (465, 29039), (470, 29069), (478, 29114), (480, 29129), (495, 29210), (500, 29222), (503, 29240), (506, 29246), (508, 29261), (510, 29267), (530, 29348), (552, 29420), (556, 29438), (559, 29453), (595, 29663), (598, 29684), (603, 29702), (659, 29999),

Gene: 40BC_026 Start: 27572, Stop: 30067, Start Num: 38

Candidate Starts for 40BC_026:

(Start: 38 @27572 has 6 MA's), (51, 27629), (77, 27686), (131, 27806), (137, 27824), (158, 27896), (161, 27902), (177, 27956), (191, 27992), (239, 28175), (248, 28220), (255, 28259), (270, 28307),

(272, 28313), (296, 28361), (305, 28391), (313, 28418), (326, 28454), (331, 28472), (337, 28496), (342, 28520), (359, 28604), (371, 28640), (382, 28670), (389, 28706), (393, 28724), (437, 28931), (439, 28943), (442, 28952), (459, 29021), (461, 29027), (462, 29030), (465, 29039), (470, 29069), (478, 29114), (480, 29129), (495, 29210), (500, 29222), (503, 29240), (506, 29246), (508, 29261), (510, 29267), (530, 29348), (552, 29420), (556, 29438), (559, 29453), (595, 29663), (598, 29684), (603, 29702), (659, 29999),

Gene: ABCat_25 Start: 22283, Stop: 24679, Start Num: 99

Candidate Starts for ABCat_25:

(Start: 99 @22283 has 127 MA's), (164, 22460), (170, 22481), (225, 22628), (254, 22769), (261, 22802), (271, 22835), (277, 22871), (306, 22964), (328, 23024), (333, 23042), (349, 23123), (404, 23351), (412, 23396), (467, 23591), (468, 23597), (470, 23606), (478, 23651), (480, 23666), (515, 23822), (518, 23840), (521, 23849), (536, 23903), (553, 23978), (554, 23981), (594, 24191), (597, 24203), (628, 24317), (664, 24533), (678, 24617), (682, 24641), (684, 24650),

Gene: ActinUp_27 Start: 20881, Stop: 23313, Start Num: 82

Candidate Starts for ActinUp_27:

(Start: 82 @20881 has 96 MA's), (125, 20980), (210, 21241), (217, 21262), (260, 21469), (270, 21502), (275, 21532), (301, 21604), (306, 21628), (323, 21673), (355, 21826), (363, 21871), (366, 21883), (370, 21892), (385, 21943), (421, 22123), (426, 22138), (441, 22207), (445, 22219), (470, 22324), (478, 22363), (479, 22369), (480, 22378), (496, 22459), (508, 22507), (527, 22582), (536, 22618), (557, 22699), (562, 22720), (580, 22813), (595, 22909), (628, 23056), (634, 23098), (643, 23137), (655, 23212),

Gene: Adephagia_27 Start: 20878, Stop: 23310, Start Num: 82

Candidate Starts for Adephagia_27:

(Start: 82 @20878 has 96 MA's), (125, 20977), (210, 21238), (217, 21259), (260, 21466), (270, 21499), (275, 21529), (301, 21601), (306, 21625), (323, 21670), (355, 21823), (363, 21868), (366, 21880), (370, 21889), (385, 21940), (421, 22120), (426, 22135), (441, 22204), (445, 22216), (470, 22321), (478, 22360), (479, 22366), (480, 22375), (496, 22456), (508, 22504), (527, 22579), (536, 22615), (557, 22696), (562, 22717), (580, 22810), (595, 22906), (628, 23053), (634, 23095), (643, 23134), (655, 23209),

Gene: Adnama_29 Start: 22791, Stop: 25187, Start Num: 99

Candidate Starts for Adnama_29:

(Start: 99 @22791 has 127 MA's), (164, 22968), (170, 22989), (225, 23136), (261, 23310), (271, 23343), (277, 23379), (306, 23472), (328, 23532), (333, 23550), (359, 23682), (374, 23727), (404, 23859), (412, 23904), (433, 23964), (464, 24078), (467, 24099), (475, 24138), (478, 24159), (480, 24174), (513, 24324), (515, 24330), (518, 24348), (534, 24402), (553, 24486), (574, 24579), (628, 24825), (664, 25041), (678, 25125), (684, 25158),

Gene: Adonis_27 Start: 20884, Stop: 23316, Start Num: 82

Candidate Starts for Adonis_27:

(Start: 82 @20884 has 96 MA's), (125, 20983), (210, 21244), (217, 21265), (260, 21472), (270, 21505), (275, 21535), (301, 21607), (306, 21631), (323, 21676), (355, 21829), (363, 21874), (366, 21886), (370, 21895), (385, 21946), (421, 22126), (426, 22141), (441, 22210), (461, 22285), (470, 22327), (478, 22366), (479, 22372), (480, 22381), (484, 22402), (496, 22462), (525, 22579), (536, 22621), (555, 22693), (557, 22702), (562, 22723), (575, 22795), (580, 22816), (595, 22912), (609, 22975), (634, 23101), (643, 23140), (665, 23287),

Gene: Ageofdapage_27 Start: 20828, Stop: 23260, Start Num: 82

Candidate Starts for Ageofdapage_27:

(Start: 82 @20828 has 96 MA's), (125, 20927), (127, 20930), (164, 21056), (210, 21188), (217, 21209), (245, 21341), (270, 21449), (301, 21551), (306, 21575), (313, 21593), (323, 21620), (339, 21686), (355, 21773), (366, 21830), (370, 21839), (381, 21875), (385, 21890), (421, 22070), (426, 22085), (445, 22166), (461, 22229), (470, 22271), (478, 22310), (479, 22316), (480, 22325), (496, 22406), (506, 22439), (508, 22454), (509, 22457), (522, 22511), (525, 22523), (555, 22637), (557, 22646), (595, 22856), (634, 23045), (643, 23084), (665, 23231),

Gene: Alexphander_20 Start: 17923, Stop: 20460, Start Num: 53

Candidate Starts for Alexphander_20:

(Start: 53 @17923 has 233 MA's), (62, 17944), (Start: 72 @17965 has 1 MA's), (90, 18004), (129, 18073), (130, 18082), (131, 18085), (139, 18103), (149, 18136), (152, 18151), (200, 18310), (201, 18313), (213, 18343), (217, 18358), (233, 18436), (239, 18457), (240, 18460), (253, 18526), (271, 18601), (273, 18607), (283, 18649), (284, 18655), (285, 18658), (297, 18691), (299, 18697), (306, 18727), (316, 18748), (325, 18778), (328, 18787), (350, 18895), (353, 18907), (355, 18916), (356, 18919), (357, 18928), (358, 18934), (362, 18949), (364, 18952), (372, 18973), (385, 19015), (391, 19048), (421, 19189), (423, 19195), (437, 19249), (438, 19252), (449, 19279), (465, 19339), (467, 19354), (469, 19366), (470, 19369), (481, 19435), (486, 19459), (489, 19480), (491, 19489), (506, 19549), (507, 19552), (515, 19588), (518, 19606), (523, 19618), (525, 19627), (533, 19654), (550, 19723), (553, 19741), (556, 19750), (558, 19762), (565, 19798), (570, 19828), (587, 19909), (595, 19963), (610, 20023), (617, 20065), (634, 20143), (646, 20200), (650, 20224), (658, 20278), (664, 20326), (675, 20368), (677, 20392), (678, 20395),

Gene: AlishaPH_27 Start: 20871, Stop: 23303, Start Num: 82

Candidate Starts for AlishaPH_27:

(Start: 82 @20871 has 96 MA's), (125, 20970), (210, 21231), (217, 21252), (260, 21459), (270, 21492), (275, 21522), (301, 21594), (306, 21618), (355, 21816), (363, 21861), (366, 21873), (370, 21882), (385, 21933), (421, 22113), (426, 22128), (441, 22197), (445, 22209), (461, 22272), (470, 22314), (478, 22353), (479, 22359), (480, 22368), (484, 22389), (496, 22449), (525, 22566), (536, 22608), (555, 22680), (557, 22689), (562, 22710), (575, 22782), (580, 22803), (595, 22899), (628, 23046), (643, 23127), (665, 23274),

Gene: Alkhayr_58 Start: 35810, Stop: 38320, Start Num: 63

Candidate Starts for Alkhayr_58:

(Start: 63 @35810 has 33 MA's), (81, 35843), (111, 35912), (112, 35915), (121, 35939), (131, 35963), (141, 35987), (149, 36020), (206, 36227), (209, 36239), (210, 36242), (244, 36389), (247, 36419), (253, 36443), (262, 36473), (264, 36476), (271, 36503), (274, 36527), (284, 36557), (302, 36614), (307, 36638), (322, 36674), (325, 36686), (332, 36710), (333, 36713), (340, 36755), (362, 36851), (364, 36854), (430, 37109), (467, 37253), (478, 37313), (488, 37385), (489, 37388), (512, 37484), (553, 37658), (558, 37679), (579, 37772), (582, 37784), (595, 37874), (613, 37949), (633, 37994), (670, 38195), (676, 38249), (681, 38264),

Gene: Aloeri_19 Start: 17271, Stop: 19796, Start Num: 53

Candidate Starts for Aloeri_19:

(Start: 53 @17271 has 233 MA's), (62, 17292), (Start: 72 @17313 has 1 MA's), (90, 17352), (129, 17421), (130, 17430), (131, 17433), (139, 17451), (149, 17484), (152, 17499), (167, 17547), (200, 17658), (201, 17661), (217, 17706), (233, 17784), (240, 17808), (253, 17874), (254, 17883), (271, 17949), (273, 17955), (274, 17973), (283, 17997), (284, 18003), (285, 18006), (297, 18039), (299, 18045), (306, 18075), (316, 18096), (328, 18135), (332, 18150), (334, 18156), (364, 18300), (382, 18351), (403, 18462), (413, 18513), (420, 18537), (449, 18630), (460, 18675), (464, 18684), (467, 18705), (469, 18717), (470, 18720), (478, 18765), (486, 18810), (488, 18828), (489, 18831), (502, 18882), (513, 18933), (515, 18939), (518, 18957), (523, 18969), (525, 18978), (534, 19011), (553, 19092), (568, 19161), (574, 19188), (580, 19215), (589, 19266), (595, 19314), (649, 19557), (664, 19662), (672, 19683), (680, 19737), (683, 19761),

Gene: AlpineSix_18 Start: 17634, Stop: 20171, Start Num: 53

Candidate Starts for AlpineSix_18:

(Start: 53 @17634 has 233 MA's), (62, 17655), (Start: 72 @17676 has 1 MA's), (90, 17715), (129, 17784), (130, 17793), (131, 17796), (139, 17814), (152, 17862), (200, 18021), (201, 18024), (216, 18066), (217, 18069), (233, 18147), (239, 18168), (240, 18171), (253, 18237), (254, 18246), (262, 18282), (271, 18312), (273, 18318), (283, 18360), (284, 18366), (285, 18369), (297, 18402), (299, 18408), (306, 18438), (316, 18459), (325, 18489), (328, 18498), (350, 18606), (353, 18618), (355, 18627), (356, 18630), (357, 18639), (358, 18645), (362, 18660), (364, 18663), (372, 18684), (385, 18726), (391, 18759), (421, 18900), (423, 18906), (437, 18960), (438, 18963), (449, 18990), (467, 19065), (469, 19077), (470, 19080), (481, 19146), (485, 19167), (486, 19170), (489, 19191), (502, 19242), (506, 19260), (507, 19263), (513, 19293), (518, 19317), (523, 19329), (550, 19434), (553, 19452), (556, 19461), (558, 19473), (565, 19509), (570, 19539), (576, 19560), (583, 19584), (587, 19620), (610, 19734), (617, 19776), (634, 19854), (646, 19911), (650, 19935), (658, 19989), (664, 20037), (675, 20079), (677, 20103), (678, 20106),

Gene: Amao_26 Start: 21488, Stop: 23884, Start Num: 99

Candidate Starts for Amao_26:

(Start: 99 @21488 has 127 MA's), (164, 21665), (170, 21686), (225, 21833), (254, 21974), (261, 22007), (277, 22076), (306, 22169), (328, 22229), (333, 22247), (359, 22379), (374, 22424), (404, 22556), (412, 22601), (464, 22775), (467, 22796), (475, 22835), (478, 22856), (480, 22871), (515, 23027), (518, 23045), (534, 23099), (553, 23183), (620, 23507), (664, 23738), (678, 23822), (684, 23855),

Gene: AmericanBeauty_28 Start: 22271, Stop: 24667, Start Num: 99

Candidate Starts for AmericanBeauty_28:

(Start: 99 @22271 has 127 MA's), (164, 22448), (170, 22469), (225, 22616), (254, 22757), (261, 22790), (271, 22823), (277, 22859), (306, 22952), (328, 23012), (333, 23030), (359, 23162), (374, 23207), (404, 23339), (412, 23384), (433, 23444), (464, 23558), (467, 23579), (475, 23618), (478, 23639), (480, 23654), (513, 23804), (515, 23810), (518, 23828), (534, 23882), (553, 23966), (574, 24059), (628, 24305), (664, 24521), (678, 24605), (684, 24638),

Gene: Aminay_25 Start: 21018, Stop: 23477, Start Num: 82

Candidate Starts for Aminay_25:

(Start: 82 @21018 has 96 MA's), (125, 21120), (169, 21264), (193, 21327), (202, 21360), (217, 21402), (259, 21609), (269, 21642), (281, 21693), (301, 21756), (305, 21771), (306, 21780), (308, 21786), (313, 21798), (346, 21921), (347, 21933), (362, 22011), (386, 22104), (389, 22119), (400, 22179), (415, 22251), (425, 22287), (435, 22332), (437, 22341), (448, 22380), (459, 22431), (461, 22437), (500, 22638), (508, 22677), (511, 22686), (562, 22878), (580, 22971), (602, 23109), (639, 23277),

Gene: Anaya_28 Start: 20897, Stop: 23329, Start Num: 82

Candidate Starts for Anaya_28:

(Start: 82 @20897 has 96 MA's), (85, 20906), (125, 20996), (210, 21257), (217, 21278), (270, 21518), (275, 21548), (306, 21644), (323, 21689), (355, 21842), (363, 21887), (366, 21899), (370, 21908), (385, 21959), (421, 22139), (426, 22154), (441, 22223), (470, 22340), (478, 22379), (479, 22385), (480, 22394), (496, 22475), (508, 22523), (509, 22526), (555, 22706), (557, 22715), (562, 22736), (580, 22829), (595, 22925), (609, 22988), (643, 23153), (655, 23228),

Gene: Angelica_27 Start: 20846, Stop: 23278, Start Num: 82

Candidate Starts for Angelica_27:

(Start: 82 @20846 has 96 MA's), (125, 20945), (210, 21206), (217, 21227), (260, 21434), (270, 21467), (275, 21497), (301, 21569), (306, 21593), (355, 21791), (363, 21836), (366, 21848), (370, 21857), (385, 21908), (421, 22088), (426, 22103), (441, 22172), (445, 22184), (461, 22247), (470, 22289),

(478, 22328), (479, 22334), (480, 22343), (484, 22364), (496, 22424), (506, 22457), (508, 22472), (509, 22475), (522, 22529), (525, 22541), (555, 22655), (557, 22664), (562, 22685), (575, 22757), (580, 22778), (595, 22874), (643, 23102), (665, 23249),

Gene: Anma_27 Start: 20840, Stop: 23272, Start Num: 82

Candidate Starts for Anma_27:

(73, 20822), (Start: 82 @20840 has 96 MA's), (103, 20888), (125, 20939), (210, 21200), (217, 21221), (269, 21458), (270, 21461), (275, 21491), (276, 21494), (301, 21563), (306, 21587), (308, 21593), (310, 21599), (323, 21632), (355, 21785), (366, 21842), (370, 21851), (385, 21902), (421, 22082), (426, 22097), (441, 22166), (445, 22178), (454, 22214), (461, 22241), (470, 22283), (478, 22322), (479, 22328), (480, 22337), (484, 22358), (496, 22418), (506, 22451), (509, 22469), (525, 22535), (536, 22577), (555, 22649), (557, 22658), (562, 22679), (575, 22751), (595, 22868), (628, 23015), (643, 23096), (655, 23171), (665, 23243),

Gene: Antsirabe_22 Start: 20760, Stop: 23216, Start Num: 33

Candidate Starts for Antsirabe_22:

(Start: 33 @20760 has 9 MA's), (61, 20850), (64, 20865), (65, 20868), (131, 20988), (159, 21063), (213, 21222), (239, 21339), (308, 21561), (327, 21612), (351, 21720), (353, 21729), (359, 21759), (362, 21771), (371, 21795), (377, 21816), (437, 22083), (440, 22098), (442, 22104), (461, 22179), (476, 22251), (478, 22266), (500, 22374), (508, 22413), (544, 22548), (556, 22590), (559, 22605), (562, 22617), (581, 22716), (603, 22854), (635, 23010), (659, 23154), (665, 23196),

Gene: Apocalypse_27 Start: 20849, Stop: 23281, Start Num: 82

Candidate Starts for Apocalypse_27:

(Start: 82 @20849 has 96 MA's), (107, 20906), (125, 20948), (210, 21209), (217, 21230), (260, 21437), (270, 21470), (275, 21500), (301, 21572), (306, 21596), (323, 21641), (355, 21794), (363, 21839), (366, 21851), (370, 21860), (385, 21911), (421, 22091), (426, 22106), (441, 22175), (445, 22187), (461, 22250), (470, 22292), (478, 22331), (479, 22337), (480, 22346), (484, 22367), (496, 22427), (506, 22460), (508, 22475), (509, 22478), (527, 22550), (536, 22586), (555, 22658), (557, 22667), (562, 22688), (575, 22760), (580, 22781), (595, 22877), (643, 23105), (665, 23252),

Gene: ArcusAngelus_18 Start: 17438, Stop: 19975, Start Num: 53

Candidate Starts for ArcusAngelus_18:

(Start: 53 @17438 has 233 MA's), (62, 17459), (Start: 72 @17480 has 1 MA's), (90, 17519), (129, 17588), (130, 17597), (131, 17600), (139, 17618), (149, 17651), (152, 17666), (200, 17825), (201, 17828), (213, 17858), (217, 17873), (233, 17951), (239, 17972), (240, 17975), (253, 18041), (271, 18116), (273, 18122), (283, 18164), (284, 18170), (285, 18173), (297, 18206), (299, 18212), (306, 18242), (316, 18263), (325, 18293), (328, 18302), (350, 18410), (353, 18422), (355, 18431), (356, 18434), (357, 18443), (358, 18449), (362, 18464), (364, 18467), (372, 18488), (385, 18530), (391, 18563), (421, 18704), (423, 18710), (437, 18764), (438, 18767), (449, 18794), (465, 18854), (467, 18869), (469, 18881), (470, 18884), (481, 18950), (486, 18974), (489, 18995), (491, 19004), (506, 19064), (507, 19067), (515, 19103), (518, 19121), (523, 19133), (525, 19142), (533, 19169), (550, 19238), (553, 19256), (556, 19265), (558, 19277), (565, 19313), (570, 19343), (587, 19424), (595, 19478), (610, 19538), (617, 19580), (634, 19658), (646, 19715), (650, 19739), (658, 19793), (664, 19841), (675, 19883), (677, 19907), (678, 19910),

Gene: Ardmore_18 Start: 17447, Stop: 19984, Start Num: 53

Candidate Starts for Ardmore_18:

(47, 17435), (Start: 53 @17447 has 233 MA's), (62, 17468), (Start: 72 @17489 has 1 MA's), (90, 17528), (129, 17597), (130, 17606), (131, 17609), (139, 17627), (149, 17660), (152, 17675), (167, 17723), (200, 17834), (201, 17837), (213, 17867), (216, 17879), (217, 17882), (233, 17960), (240, 17984), (253, 18050), (262, 18095), (271, 18125), (273, 18131), (274, 18149), (283, 18173), (285, 18182), (297, 18215), (299, 18221), (306, 18251), (322, 18290), (325, 18302), (328, 18311), (332,

18326), (333, 18329), (355, 18440), (356, 18443), (357, 18452), (358, 18458), (362, 18473), (364, 18476), (372, 18497), (382, 18527), (385, 18539), (391, 18572), (412, 18683), (413, 18686), (421, 18713), (423, 18719), (437, 18773), (438, 18776), (467, 18878), (469, 18890), (470, 18893), (481, 18959), (486, 18983), (489, 19004), (491, 19013), (506, 19073), (507, 19076), (515, 19112), (518, 19130), (523, 19142), (525, 19151), (533, 19178), (550, 19247), (553, 19265), (556, 19274), (558, 19286), (565, 19322), (570, 19352), (576, 19373), (587, 19433), (595, 19487), (610, 19547), (617, 19589), (646, 19724), (650, 19748), (658, 19802), (664, 19850), (675, 19892), (677, 19916), (678, 19919),

Gene: Argent26_28 Start: 22274, Stop: 24670, Start Num: 99

Candidate Starts for Argent26_28:

(Start: 99 @22274 has 127 MA's), (164, 22451), (170, 22472), (225, 22619), (254, 22760), (261, 22793), (271, 22826), (277, 22862), (306, 22955), (328, 23015), (333, 23033), (359, 23165), (374, 23210), (404, 23342), (412, 23387), (433, 23447), (464, 23561), (467, 23582), (475, 23621), (478, 23642), (480, 23657), (513, 23807), (515, 23813), (518, 23831), (534, 23885), (553, 23969), (574, 24062), (628, 24308), (664, 24524), (678, 24608), (684, 24641),

Gene: Ariel_36 Start: 27338, Stop: 29845, Start Num: 53

Candidate Starts for Ariel_36:

(Start: 53 @27338 has 233 MA's), (139, 27533), (149, 27569), (152, 27584), (186, 27671), (191, 27686), (217, 27761), (220, 27773), (228, 27800), (250, 27905), (259, 27944), (262, 27953), (271, 27977), (273, 27983), (274, 28001), (281, 28019), (285, 28034), (289, 28043), (292, 28052), (297, 28067), (304, 28094), (306, 28103), (322, 28142), (325, 28154), (328, 28163), (346, 28247), (364, 28328), (374, 28358), (375, 28361), (385, 28391), (390, 28418), (392, 28427), (401, 28478), (402, 28487), (404, 28490), (411, 28526), (415, 28547), (429, 28583), (468, 28736), (478, 28790), (486, 28835), (488, 28853), (489, 28856), (501, 28895), (532, 29042), (534, 29051), (551, 29120), (553, 29135), (587, 29300), (600, 29387), (612, 29435), (628, 29486), (641, 29564), (679, 29786), (681, 29789), (684, 29816),

Gene: Asayake_27 Start: 20912, Stop: 23344, Start Num: 82

Candidate Starts for Asayake_27:

(Start: 82 @20912 has 96 MA's), (125, 21011), (210, 21272), (217, 21293), (260, 21500), (270, 21533), (275, 21563), (301, 21635), (306, 21659), (355, 21857), (363, 21902), (366, 21914), (370, 21923), (385, 21974), (421, 22154), (426, 22169), (441, 22238), (445, 22250), (461, 22313), (470, 22355), (478, 22394), (479, 22400), (480, 22409), (484, 22430), (496, 22490), (525, 22607), (536, 22649), (555, 22721), (557, 22730), (562, 22751), (575, 22823), (580, 22844), (595, 22940), (628, 23087), (643, 23168), (665, 23315),

Gene: Ashwin_60 Start: 36580, Stop: 39090, Start Num: 63

Candidate Starts for Ashwin_60:

(Start: 63 @36580 has 33 MA's), (81, 36613), (111, 36682), (112, 36685), (121, 36709), (131, 36733), (141, 36757), (149, 36790), (206, 36997), (209, 37009), (210, 37012), (244, 37159), (247, 37189), (253, 37213), (262, 37243), (264, 37246), (271, 37273), (274, 37297), (284, 37327), (302, 37384), (322, 37444), (325, 37456), (332, 37480), (333, 37483), (340, 37525), (362, 37621), (364, 37624), (430, 37879), (467, 38023), (478, 38083), (488, 38155), (489, 38158), (512, 38254), (553, 38428), (558, 38449), (579, 38542), (582, 38554), (595, 38644), (613, 38719), (633, 38764), (670, 38965), (676, 39019), (681, 39034),

Gene: Asriel_25 Start: 21152, Stop: 23548, Start Num: 99

Candidate Starts for Asriel_25:

(Start: 99 @21152 has 127 MA's), (164, 21329), (170, 21350), (225, 21497), (254, 21638), (261, 21671), (271, 21704), (277, 21740), (306, 21833), (328, 21893), (333, 21911), (349, 21992), (404, 22220), (412, 22265), (467, 22460), (468, 22466), (470, 22475), (478, 22520), (480, 22535), (515,

22691), (518, 22709), (521, 22718), (536, 22772), (553, 22847), (554, 22850), (594, 23060), (597, 23072), (628, 23186), (664, 23402), (678, 23486), (682, 23510), (684, 23519),

Gene: Atiba_27 Start: 20841, Stop: 23273, Start Num: 82

Candidate Starts for Atiba_27:

(Start: 82 @20841 has 96 MA's), (125, 20940), (210, 21201), (217, 21222), (260, 21429), (270, 21462), (275, 21492), (301, 21564), (306, 21588), (323, 21633), (355, 21786), (363, 21831), (366, 21843), (370, 21852), (385, 21903), (421, 22083), (426, 22098), (441, 22167), (445, 22179), (470, 22284), (478, 22323), (479, 22329), (480, 22338), (496, 22419), (508, 22467), (527, 22542), (536, 22578), (555, 22650), (557, 22659), (562, 22680), (580, 22773), (595, 22869), (628, 23016), (634, 23058), (643, 23097), (655, 23172),

Gene: Aubs_18 Start: 17557, Stop: 20094, Start Num: 53

Candidate Starts for Aubs_18:

(Start: 53 @17557 has 233 MA's), (62, 17578), (Start: 72 @17599 has 1 MA's), (89, 17635), (90, 17638), (129, 17707), (130, 17716), (131, 17719), (139, 17737), (149, 17770), (152, 17785), (167, 17833), (198, 17938), (200, 17944), (201, 17947), (216, 17989), (217, 17992), (240, 18094), (253, 18160), (262, 18205), (271, 18235), (273, 18241), (274, 18259), (283, 18283), (285, 18292), (297, 18325), (299, 18331), (316, 18382), (322, 18400), (325, 18412), (328, 18421), (332, 18436), (334, 18442), (355, 18550), (356, 18553), (357, 18562), (358, 18568), (362, 18583), (364, 18586), (372, 18607), (382, 18637), (385, 18649), (391, 18682), (404, 18748), (412, 18793), (413, 18796), (421, 18823), (423, 18829), (437, 18883), (438, 18886), (449, 18913), (467, 18988), (469, 19000), (470, 19003), (481, 19069), (486, 19093), (491, 19123), (502, 19165), (506, 19183), (507, 19186), (515, 19222), (518, 19240), (525, 19261), (533, 19288), (550, 19357), (553, 19375), (556, 19384), (558, 19396), (565, 19432), (576, 19483), (581, 19501), (587, 19543), (595, 19597), (617, 19699), (634, 19777), (646, 19834), (650, 19858), (658, 19912), (664, 19960), (677, 20026), (678, 20029),

Gene: Avani_24 Start: 17093, Stop: 19642, Start Num: 39

Candidate Starts for Avani_24:

(36, 17084), (Start: 39 @17093 has 7 MA's), (Start: 53 @17153 has 233 MA's), (65, 17186), (67, 17189), (107, 17258), (118, 17288), (186, 17468), (191, 17483), (201, 17519), (203, 17525), (204, 17528), (215, 17546), (217, 17558), (220, 17570), (227, 17594), (228, 17597), (259, 17741), (262, 17750), (271, 17774), (274, 17798), (283, 17822), (284, 17828), (292, 17849), (293, 17852), (299, 17870), (306, 17900), (319, 17930), (325, 17951), (346, 18044), (349, 18059), (350, 18068), (355, 18089), (356, 18092), (367, 18134), (382, 18176), (383, 18179), (385, 18188), (390, 18215), (392, 18224), (399, 18263), (402, 18284), (404, 18287), (411, 18323), (415, 18344), (437, 18422), (438, 18425), (456, 18479), (469, 18539), (484, 18626), (486, 18632), (489, 18653), (501, 18689), (511, 18743), (513, 18752), (532, 18830), (536, 18848), (545, 18884), (547, 18887), (550, 18905), (551, 18908), (553, 18923), (565, 18980), (568, 18992), (587, 19088), (600, 19175), (612, 19223), (615, 19247), (623, 19274), (628, 19283), (633, 19322), (641, 19361), (646, 19385), (649, 19406), (664, 19502), (672, 19523), (679, 19583), (681, 19586), (684, 19613),

Gene: Avocado_22 Start: 20763, Stop: 23240, Start Num: 33

Candidate Starts for Avocado_22:

(Start: 33 @20763 has 9 MA's), (65, 20871), (112, 20961), (150, 21051), (213, 21228), (239, 21345), (260, 21444), (296, 21525), (308, 21567), (318, 21591), (327, 21618), (328, 21621), (331, 21633), (349, 21714), (359, 21765), (395, 21894), (397, 21906), (423, 22032), (437, 22092), (440, 22107), (442, 22113), (459, 22182), (500, 22383), (556, 22614), (581, 22740), (635, 23034), (646, 23085), (659, 23178),

Gene: Awesomesauce_19 Start: 17268, Stop: 19793, Start Num: 53

Candidate Starts for Awesomesauce_19:

(Start: 53 @17268 has 233 MA's), (62, 17289), (Start: 72 @17310 has 1 MA's), (90, 17349), (129, 17418), (130, 17427), (131, 17430), (139, 17448), (149, 17481), (152, 17496), (167, 17544), (200, 17655), (201, 17658), (217, 17703), (233, 17781), (240, 17805), (253, 17871), (262, 17916), (271, 17946), (273, 17952), (274, 17970), (283, 17994), (285, 18003), (297, 18036), (299, 18042), (306, 18072), (322, 18111), (325, 18123), (328, 18132), (332, 18147), (333, 18150), (364, 18297), (382, 18348), (403, 18459), (413, 18510), (420, 18534), (449, 18627), (460, 18672), (464, 18681), (467, 18702), (469, 18714), (470, 18717), (478, 18762), (486, 18807), (488, 18825), (489, 18828), (502, 18879), (513, 18930), (515, 18936), (518, 18954), (523, 18966), (525, 18975), (534, 19008), (553, 19089), (568, 19158), (574, 19185), (580, 19212), (589, 19263), (595, 19311), (649, 19554), (664, 19659), (672, 19680), (680, 19734), (683, 19758),

Gene: Azrael100_42 Start: 28340, Stop: 30907, Start Num: 54

Candidate Starts for Azrael100_42:

(Start: 54 @28340 has 6 MA's), (83, 28409), (135, 28532), (138, 28538), (139, 28541), (146, 28565), (151, 28586), (198, 28742), (199, 28748), (201, 28754), (210, 28784), (211, 28790), (217, 28811), (219, 28820), (232, 28880), (248, 28958), (273, 29057), (278, 29090), (284, 29105), (285, 29108), (299, 29147), (316, 29198), (322, 29216), (328, 29237), (329, 29243), (336, 29270), (340, 29297), (355, 29366), (361, 29390), (367, 29411), (374, 29432), (378, 29441), (385, 29462), (391, 29495), (392, 29498), (401, 29549), (419, 29627), (424, 29645), (434, 29684), (467, 29801), (476, 29846), (485, 29903), (489, 29927), (491, 29936), (494, 29954), (506, 29999), (513, 30032), (520, 30068), (563, 30242), (565, 30260), (566, 30266), (580, 30323), (645, 30647), (647, 30665), (656, 30716), (666, 30779), (677, 30854),

Gene: BAKA_36 Start: 29892, Stop: 32447, Start Num: 53

Candidate Starts for BAKA_36:

(Start: 53 @29892 has 233 MA's), (139, 30087), (149, 30123), (152, 30138), (167, 30186), (200, 30297), (201, 30300), (213, 30330), (217, 30345), (233, 30423), (240, 30447), (253, 30513), (262, 30558), (271, 30588), (273, 30594), (274, 30612), (283, 30636), (285, 30645), (297, 30678), (299, 30684), (306, 30714), (322, 30753), (325, 30765), (328, 30774), (332, 30789), (333, 30792), (355, 30903), (356, 30906), (357, 30915), (358, 30921), (362, 30936), (364, 30939), (372, 30960), (382, 30990), (385, 31002), (391, 31035), (404, 31101), (412, 31146), (413, 31149), (421, 31176), (423, 31182), (437, 31236), (438, 31239), (465, 31326), (467, 31341), (469, 31353), (470, 31356), (481, 31422), (489, 31467), (491, 31476), (506, 31536), (507, 31539), (515, 31575), (518, 31593), (523, 31605), (525, 31614), (533, 31641), (550, 31710), (553, 31728), (556, 31737), (558, 31749), (565, 31785), (570, 31815), (576, 31836), (583, 31860), (587, 31896), (595, 31950), (610, 32010), (617, 32052), (646, 32187), (650, 32211), (658, 32265), (664, 32313), (675, 32355), (677, 32379), (678, 32382),

Gene: BEEST_27 Start: 20912, Stop: 23344, Start Num: 82

Candidate Starts for BEEST_27:

(Start: 82 @20912 has 96 MA's), (125, 21011), (210, 21272), (217, 21293), (260, 21500), (270, 21533), (275, 21563), (301, 21635), (306, 21659), (355, 21857), (363, 21902), (366, 21914), (370, 21923), (385, 21974), (421, 22154), (426, 22169), (441, 22238), (445, 22250), (461, 22313), (470, 22355), (478, 22394), (479, 22400), (480, 22409), (484, 22430), (496, 22490), (525, 22607), (536, 22649), (555, 22721), (557, 22730), (562, 22751), (575, 22823), (580, 22844), (595, 22940), (628, 23087), (643, 23168), (665, 23315),

Gene: BGlluviae_27 Start: 20912, Stop: 23344, Start Num: 82

Candidate Starts for BGlluviae_27:

(Start: 82 @20912 has 96 MA's), (125, 21011), (210, 21272), (217, 21293), (260, 21500), (270, 21533), (275, 21563), (301, 21635), (306, 21659), (355, 21857), (363, 21902), (366, 21914), (370, 21923), (385, 21974), (421, 22154), (426, 22169), (441, 22238), (445, 22250), (461, 22313), (470, 22355), (478, 22394), (479, 22400), (480, 22409), (484, 22430), (496, 22490), (525, 22607), (536, 22649),

(555, 22721), (557, 22730), (562, 22751), (575, 22823), (580, 22844), (595, 22940), (628, 23087), (643, 23168), (665, 23315),

Gene: BaboJay_25 Start: 21834, Stop: 24230, Start Num: 99

Candidate Starts for BaboJay_25:

(Start: 99 @21834 has 127 MA's), (164, 22011), (170, 22032), (225, 22179), (254, 22320), (261, 22353), (271, 22386), (277, 22422), (306, 22515), (328, 22575), (333, 22593), (359, 22725), (374, 22770), (404, 22902), (412, 22947), (464, 23121), (467, 23142), (475, 23181), (478, 23202), (480, 23217), (513, 23367), (515, 23373), (518, 23391), (534, 23445), (553, 23529), (574, 23622), (628, 23868), (664, 24084), (678, 24168), (684, 24201),

Gene: BadStone_25 Start: 22283, Stop: 24679, Start Num: 99

Candidate Starts for BadStone_25:

(Start: 99 @22283 has 127 MA's), (164, 22460), (170, 22481), (225, 22628), (254, 22769), (261, 22802), (271, 22835), (277, 22871), (306, 22964), (328, 23024), (349, 23123), (404, 23351), (412, 23396), (467, 23591), (468, 23597), (470, 23606), (478, 23651), (480, 23666), (515, 23822), (518, 23840), (521, 23849), (536, 23903), (553, 23978), (554, 23981), (594, 24191), (597, 24203), (628, 24317), (664, 24533), (678, 24617), (682, 24641), (684, 24650),

Gene: BaghaKamala_27 Start: 20841, Stop: 23273, Start Num: 82

Candidate Starts for BaghaKamala_27:

(Start: 82 @20841 has 96 MA's), (125, 20940), (210, 21201), (217, 21222), (260, 21429), (270, 21462), (275, 21492), (301, 21564), (306, 21588), (355, 21786), (363, 21831), (366, 21843), (370, 21852), (385, 21903), (421, 22083), (426, 22098), (441, 22167), (445, 22179), (461, 22242), (470, 22284), (478, 22323), (479, 22329), (480, 22338), (484, 22359), (496, 22419), (525, 22536), (536, 22578), (555, 22650), (557, 22659), (562, 22680), (575, 22752), (580, 22773), (595, 22869), (628, 23016), (643, 23097), (665, 23244),

Gene: Balomoji_25 Start: 22017, Stop: 24413, Start Num: 99

Candidate Starts for Balomoji_25:

(Start: 99 @22017 has 127 MA's), (164, 22194), (170, 22215), (225, 22362), (254, 22503), (261, 22536), (271, 22569), (277, 22605), (306, 22698), (328, 22758), (333, 22776), (349, 22857), (404, 23085), (412, 23130), (467, 23325), (468, 23331), (470, 23340), (478, 23385), (480, 23400), (515, 23556), (518, 23574), (521, 23583), (536, 23637), (553, 23712), (554, 23715), (594, 23925), (597, 23937), (628, 24051), (664, 24267), (678, 24351), (682, 24375), (684, 24384),

Gene: Barbarian_25 Start: 21152, Stop: 23548, Start Num: 99

Candidate Starts for Barbarian_25:

(Start: 99 @21152 has 127 MA's), (164, 21329), (170, 21350), (225, 21497), (254, 21638), (261, 21671), (271, 21704), (277, 21740), (306, 21833), (328, 21893), (333, 21911), (349, 21992), (404, 22220), (412, 22265), (467, 22460), (468, 22466), (470, 22475), (478, 22520), (480, 22535), (515, 22691), (518, 22709), (521, 22718), (536, 22772), (553, 22847), (554, 22850), (594, 23060), (597, 23072), (628, 23186), (664, 23402), (678, 23486), (682, 23510), (684, 23519),

Gene: Barnyard_36 Start: 26772, Stop: 29858, Start Num: 2

Candidate Starts for Barnyard_36:

(1, 26745), (Start: 2 @26772 has 2 MA's), (3, 26775), (4, 26895), (5, 26907), (6, 26925), (7, 26928), (8, 26982), (9, 26991), (11, 27012), (13, 27084), (16, 27120), (19, 27195), (26, 27273), (27, 27282), (28, 27288), (32, 27315), (65, 27432), (91, 27483), (92, 27486), (105, 27516), (114, 27540), (123, 27558), (163, 27690), (164, 27702), (188, 27783), (230, 27933), (248, 28017), (256, 28053), (272, 28107), (273, 28110), (277, 28128), (291, 28146), (302, 28182), (328, 28263), (342, 28323), (346, 28341), (353, 28377), (362, 28419), (367, 28431), (376, 28461), (382, 28473), (384, 28482), (399, 28557), (417, 28644), (442, 28752), (454, 28797), (459, 28818), (470, 28866), (477, 28905), (479, 28917),

(482, 28941), (483, 28947), (489, 28977), (500, 29019), (503, 29037), (508, 29058), (514, 29079), (517, 29100), (523, 29118), (525, 29127), (537, 29181), (542, 29190), (556, 29232), (574, 29325), (582, 29358), (599, 29478), (606, 29505), (625, 29598), (635, 29652), (659, 29796),

Gene: BarrelRoll_27 Start: 20864, Stop: 23296, Start Num: 82

Candidate Starts for BarrelRoll_27:

(Start: 82 @20864 has 96 MA's), (125, 20963), (210, 21224), (217, 21245), (260, 21452), (270, 21485), (275, 21515), (301, 21587), (306, 21611), (355, 21809), (363, 21854), (366, 21866), (370, 21875), (385, 21926), (421, 22106), (426, 22121), (441, 22190), (445, 22202), (461, 22265), (470, 22307), (478, 22346), (479, 22352), (480, 22361), (484, 22382), (496, 22442), (525, 22559), (536, 22601), (555, 22673), (557, 22682), (562, 22703), (575, 22775), (580, 22796), (595, 22892), (628, 23039), (643, 23120), (665, 23267),

Gene: Bask21_26 Start: 21463, Stop: 23859, Start Num: 99

Candidate Starts for Bask21_26:

(Start: 99 @21463 has 127 MA's), (164, 21640), (170, 21661), (225, 21808), (254, 21949), (261, 21982), (271, 22015), (277, 22051), (306, 22144), (328, 22204), (333, 22222), (349, 22303), (404, 22531), (412, 22576), (467, 22771), (468, 22777), (470, 22786), (478, 22831), (480, 22846), (515, 23002), (518, 23020), (521, 23029), (553, 23158), (554, 23161), (594, 23371), (597, 23383), (628, 23497), (664, 23713), (678, 23797), (682, 23821), (684, 23830),

Gene: Batiatus_18 Start: 17448, Stop: 19985, Start Num: 53

Candidate Starts for Batiatus_18:

(47, 17436), (Start: 53 @17448 has 233 MA's), (62, 17469), (Start: 72 @17490 has 1 MA's), (90, 17529), (129, 17598), (130, 17607), (131, 17610), (139, 17628), (149, 17661), (152, 17676), (167, 17724), (200, 17835), (201, 17838), (213, 17868), (216, 17880), (217, 17883), (233, 17961), (240, 17985), (253, 18051), (262, 18096), (271, 18126), (273, 18132), (274, 18150), (283, 18174), (285, 18183), (297, 18216), (299, 18222), (306, 18252), (322, 18291), (325, 18303), (328, 18312), (332, 18327), (333, 18330), (355, 18441), (356, 18444), (357, 18453), (358, 18459), (362, 18474), (364, 18477), (372, 18498), (382, 18528), (385, 18540), (391, 18573), (412, 18684), (413, 18687), (421, 18714), (423, 18720), (437, 18774), (438, 18777), (465, 18864), (467, 18879), (469, 18891), (470, 18894), (481, 18960), (486, 18984), (489, 19005), (491, 19014), (506, 19074), (507, 19077), (515, 19113), (518, 19131), (523, 19143), (525, 19152), (533, 19179), (550, 19248), (553, 19266), (556, 19275), (558, 19287), (565, 19323), (570, 19353), (576, 19374), (583, 19398), (587, 19434), (595, 19488), (610, 19548), (617, 19590), (634, 19668), (646, 19725), (650, 19749), (658, 19803), (664, 19851), (675, 19893), (677, 19917), (678, 19920),

Gene: Beakin_19 Start: 17255, Stop: 19786, Start Num: 53

Candidate Starts for Beakin_19:

(47, 17243), (Start: 53 @17255 has 233 MA's), (62, 17276), (Start: 72 @17297 has 1 MA's), (90, 17336), (129, 17405), (130, 17414), (131, 17417), (139, 17435), (149, 17468), (152, 17483), (167, 17525), (200, 17636), (201, 17639), (213, 17669), (217, 17684), (233, 17762), (240, 17786), (253, 17852), (262, 17897), (271, 17927), (273, 17933), (274, 17951), (283, 17975), (285, 17984), (297, 18017), (299, 18023), (306, 18053), (322, 18092), (325, 18104), (328, 18113), (332, 18128), (333, 18131), (355, 18242), (356, 18245), (357, 18254), (358, 18260), (362, 18275), (364, 18278), (372, 18299), (382, 18329), (385, 18341), (391, 18374), (404, 18440), (412, 18485), (413, 18488), (421, 18515), (423, 18521), (437, 18575), (438, 18578), (465, 18665), (467, 18680), (469, 18692), (470, 18695), (481, 18761), (486, 18785), (489, 18806), (491, 18815), (506, 18875), (507, 18878), (515, 18914), (518, 18932), (525, 18953), (533, 18980), (550, 19049), (553, 19067), (556, 19076), (558, 19088), (565, 19124), (576, 19175), (581, 19193), (587, 19235), (595, 19289), (617, 19391), (634, 19469), (646, 19526), (650, 19550), (658, 19604), (664, 19652), (677, 19718), (678, 19721),

Gene: Beanstalk_20 Start: 17400, Stop: 19937, Start Num: 53

Candidate Starts for Beanstalk_20:

(Start: 53 @17400 has 233 MA's), (62, 17421), (Start: 72 @17442 has 1 MA's), (90, 17481), (129, 17550), (130, 17559), (131, 17562), (139, 17580), (149, 17613), (152, 17628), (198, 17781), (201, 17790), (217, 17835), (239, 17934), (240, 17937), (253, 18003), (271, 18078), (273, 18084), (274, 18102), (283, 18126), (285, 18135), (297, 18168), (299, 18174), (306, 18204), (322, 18243), (325, 18255), (328, 18264), (332, 18279), (333, 18282), (355, 18393), (356, 18396), (357, 18405), (358, 18411), (362, 18426), (364, 18429), (372, 18450), (382, 18480), (385, 18492), (391, 18525), (412, 18636), (413, 18639), (421, 18666), (423, 18672), (437, 18726), (438, 18729), (465, 18816), (467, 18831), (469, 18843), (470, 18846), (481, 18912), (486, 18936), (489, 18957), (491, 18966), (506, 19026), (507, 19029), (518, 19083), (523, 19095), (525, 19104), (533, 19131), (549, 19188), (550, 19200), (553, 19218), (556, 19227), (558, 19239), (565, 19275), (570, 19305), (576, 19326), (583, 19350), (587, 19386), (595, 19440), (610, 19500), (617, 19542), (646, 19677), (650, 19701), (658, 19755), (664, 19803), (675, 19845), (677, 19869), (678, 19872),

Gene: Beckerton_29 Start: 26219, Stop: 29062, Start Num: 17

Candidate Starts for Beckerton_29:

(Start: 17 @26219 has 8 MA's), (30, 26351), (31, 26363), (35, 26372), (49, 26441), (52, 26447), (76, 26507), (86, 26528), (108, 26576), (125, 26618), (134, 26642), (145, 26675), (154, 26711), (160, 26723), (185, 26816), (201, 26873), (212, 26912), (242, 27038), (254, 27107), (260, 27137), (273, 27179), (285, 27230), (316, 27320), (322, 27338), (340, 27419), (349, 27458), (353, 27479), (391, 27617), (398, 27656), (411, 27719), (438, 27821), (488, 28046), (571, 28409), (579, 28436), (629, 28679), (632, 28712), (638, 28736), (657, 28856), (673, 28934), (684, 29021), (686, 29036), (687, 29042),

Gene: Becksu_26 Start: 22467, Stop: 24863, Start Num: 99

Candidate Starts for Becksu_26:

(Start: 99 @22467 has 127 MA's), (164, 22644), (170, 22665), (225, 22812), (254, 22953), (261, 22986), (271, 23019), (277, 23055), (306, 23148), (328, 23208), (333, 23226), (359, 23358), (374, 23403), (404, 23535), (412, 23580), (433, 23640), (464, 23754), (467, 23775), (475, 23814), (478, 23835), (480, 23850), (513, 24000), (515, 24006), (518, 24024), (534, 24078), (553, 24162), (574, 24255), (628, 24501), (664, 24717), (678, 24801), (684, 24834),

Gene: Beezoo_27 Start: 20888, Stop: 23320, Start Num: 82

Candidate Starts for Beezoo_27:

(Start: 82 @20888 has 96 MA's), (125, 20987), (210, 21248), (217, 21269), (260, 21476), (270, 21509), (275, 21539), (290, 21578), (301, 21611), (306, 21635), (323, 21680), (355, 21833), (363, 21878), (366, 21890), (370, 21899), (385, 21950), (421, 22130), (426, 22145), (441, 22214), (445, 22226), (461, 22289), (470, 22331), (478, 22370), (479, 22376), (480, 22385), (484, 22406), (496, 22466), (525, 22583), (555, 22697), (557, 22706), (562, 22727), (575, 22799), (580, 22820), (595, 22916), (643, 23144), (665, 23291),

Gene: Bella96_27 Start: 20822, Stop: 23254, Start Num: 82

Candidate Starts for Bella96_27:

(73, 20804), (Start: 82 @20822 has 96 MA's), (103, 20870), (125, 20921), (210, 21182), (217, 21203), (270, 21443), (275, 21473), (276, 21476), (306, 21569), (310, 21581), (323, 21614), (355, 21767), (366, 21824), (370, 21833), (385, 21884), (421, 22064), (426, 22079), (441, 22148), (445, 22160), (454, 22196), (461, 22223), (470, 22265), (478, 22304), (479, 22310), (480, 22319), (484, 22340), (496, 22400), (506, 22433), (508, 22448), (525, 22517), (536, 22559), (555, 22631), (557, 22640), (562, 22661), (575, 22733), (595, 22850), (628, 22997), (643, 23078), (655, 23153), (665, 23225),

Gene: Belladonna_27 Start: 20912, Stop: 23344, Start Num: 82

Candidate Starts for Belladonna_27:

(Start: 82 @20912 has 96 MA's), (125, 21011), (210, 21272), (217, 21293), (260, 21500), (270, 21533), (275, 21563), (301, 21635), (306, 21659), (355, 21857), (363, 21902), (366, 21914), (370, 21923), (385, 21974), (421, 22154), (426, 22169), (441, 22238), (445, 22250), (461, 22313), (470, 22355), (478, 22394), (479, 22400), (480, 22409), (484, 22430), (496, 22490), (525, 22607), (536, 22649), (555, 22721), (557, 22730), (562, 22751), (575, 22823), (580, 22844), (595, 22940), (628, 23087), (643, 23168), (665, 23315),

Gene: Bench_28 Start: 22144, Stop: 24540, Start Num: 99

Candidate Starts for Bench_28:

(Start: 99 @22144 has 127 MA's), (164, 22321), (170, 22342), (225, 22489), (261, 22663), (271, 22696), (277, 22732), (306, 22825), (328, 22885), (333, 22903), (359, 23035), (374, 23080), (404, 23212), (412, 23257), (433, 23317), (464, 23431), (467, 23452), (475, 23491), (478, 23512), (480, 23527), (513, 23677), (515, 23683), (518, 23701), (534, 23755), (553, 23839), (574, 23932), (628, 24178), (664, 24394), (678, 24478), (684, 24511),

Gene: Bern_27 Start: 20832, Stop: 23264, Start Num: 82

Candidate Starts for Bern_27:

(Start: 82 @20832 has 96 MA's), (104, 20883), (109, 20892), (125, 20931), (210, 21192), (217, 21213), (269, 21450), (270, 21453), (275, 21483), (276, 21486), (279, 21498), (301, 21555), (306, 21579), (308, 21585), (323, 21624), (355, 21777), (363, 21822), (366, 21834), (370, 21843), (381, 21879), (385, 21894), (421, 22074), (426, 22089), (441, 22158), (461, 22233), (470, 22275), (478, 22314), (479, 22320), (480, 22329), (484, 22350), (486, 22356), (496, 22410), (506, 22443), (508, 22458), (525, 22527), (527, 22533), (536, 22569), (557, 22650), (568, 22707), (575, 22743), (580, 22764), (595, 22860), (616, 22971), (643, 23088), (655, 23163), (665, 23235),

Gene: BigBubba_27 Start: 22047, Stop: 24443, Start Num: 99

Candidate Starts for BigBubba_27:

(Start: 99 @22047 has 127 MA's), (164, 22224), (170, 22245), (225, 22392), (254, 22533), (261, 22566), (271, 22599), (277, 22635), (306, 22728), (328, 22788), (333, 22806), (359, 22938), (374, 22983), (404, 23115), (412, 23160), (464, 23334), (467, 23355), (475, 23394), (478, 23415), (480, 23430), (515, 23586), (518, 23604), (534, 23658), (553, 23742), (574, 23835), (628, 24081), (664, 24297), (678, 24381), (684, 24414),

Gene: BilboSwaggins_26 Start: 22284, Stop: 24680, Start Num: 99

Candidate Starts for BilboSwaggins_26:

(Start: 99 @22284 has 127 MA's), (164, 22461), (170, 22482), (225, 22629), (254, 22770), (261, 22803), (271, 22836), (277, 22872), (306, 22965), (328, 23025), (333, 23043), (349, 23124), (404, 23352), (412, 23397), (467, 23592), (468, 23598), (470, 23607), (478, 23652), (480, 23667), (515, 23823), (518, 23841), (521, 23850), (553, 23979), (554, 23982), (594, 24192), (597, 24204), (628, 24318), (664, 24534), (678, 24618), (682, 24642), (684, 24651),

Gene: Bipolar_18 Start: 17398, Stop: 19890, Start Num: 53

Candidate Starts for Bipolar_18:

(48, 17386), (Start: 53 @17398 has 233 MA's), (62, 17419), (Start: 72 @17440 has 1 MA's), (96, 17479), (129, 17548), (130, 17557), (131, 17560), (139, 17578), (149, 17611), (161, 17644), (167, 17677), (191, 17731), (201, 17767), (204, 17776), (215, 17794), (220, 17818), (227, 17842), (250, 17950), (254, 17974), (259, 17989), (262, 17998), (271, 18022), (273, 18028), (274, 18046), (277, 18058), (281, 18064), (283, 18070), (284, 18076), (285, 18079), (289, 18088), (292, 18097), (297, 18112), (306, 18148), (322, 18187), (325, 18199), (328, 18208), (346, 18292), (364, 18373), (374, 18403), (375, 18406), (385, 18436), (390, 18463), (392, 18472), (401, 18523), (402, 18532), (404, 18535), (411, 18571), (415, 18592), (429, 18628), (468, 18781), (478, 18835), (486, 18880), (488, 18898), (489, 18901), (501, 18940), (532, 19087), (534, 19096), (551, 19165), (553, 19180), (587, 19345), (600, 19432), (612, 19480), (628, 19531), (641, 19609), (679, 19831), (681, 19834), (684,

19861),

Gene: BirdsNest_33 Start: 28321, Stop: 30801, Start Num: 38

Candidate Starts for BirdsNest_33:

(Start: 38 @28321 has 6 MA's), (77, 28435), (93, 28468), (246, 28945), (261, 29011), (265, 29023), (272, 29041), (296, 29107), (308, 29149), (338, 29242), (342, 29263), (395, 29476), (430, 29632), (436, 29665), (442, 29692), (456, 29746), (485, 29896), (489, 29920), (500, 29962), (559, 30193), (579, 30292), (645, 30634), (659, 30739), (667, 30784),

Gene: Blarby_25 Start: 17613, Stop: 20210, Start Num: 41

Candidate Starts for Blarby_25:

(37, 17604), (41, 17613), (Start: 55 @17673 has 1 MA's), (65, 17706), (70, 17709), (118, 17808), (167, 17949), (200, 18060), (201, 18063), (213, 18093), (216, 18105), (217, 18108), (240, 18210), (253, 18276), (262, 18321), (271, 18351), (273, 18357), (274, 18375), (283, 18399), (285, 18408), (297, 18441), (299, 18447), (306, 18477), (322, 18516), (325, 18528), (328, 18537), (332, 18552), (333, 18555), (355, 18666), (356, 18669), (357, 18678), (358, 18684), (362, 18699), (364, 18702), (372, 18723), (382, 18753), (385, 18765), (391, 18798), (412, 18909), (413, 18912), (421, 18939), (423, 18945), (437, 18999), (438, 19002), (465, 19089), (467, 19104), (469, 19116), (470, 19119), (481, 19185), (489, 19230), (491, 19239), (506, 19299), (507, 19302), (515, 19338), (518, 19356), (525, 19377), (533, 19404), (550, 19473), (553, 19491), (556, 19500), (558, 19512), (565, 19548), (570, 19578), (576, 19599), (581, 19617), (587, 19659), (595, 19713), (617, 19815), (646, 19950), (650, 19974), (658, 20028), (664, 20076), (675, 20118), (677, 20142), (678, 20145),

Gene: Blessica_59 Start: 36409, Stop: 38919, Start Num: 63

Candidate Starts for Blessica_59:

(Start: 63 @36409 has 33 MA's), (81, 36442), (111, 36511), (112, 36514), (121, 36538), (131, 36562), (141, 36586), (149, 36619), (206, 36826), (209, 36838), (210, 36841), (244, 36988), (247, 37018), (253, 37042), (262, 37072), (264, 37075), (271, 37102), (274, 37126), (284, 37156), (302, 37213), (307, 37237), (322, 37273), (325, 37285), (332, 37309), (333, 37312), (340, 37354), (362, 37450), (364, 37453), (430, 37708), (467, 37852), (478, 37912), (488, 37984), (489, 37987), (512, 38083), (553, 38257), (558, 38278), (579, 38371), (582, 38383), (595, 38473), (613, 38548), (633, 38593), (670, 38794), (676, 38848), (681, 38863),

Gene: Blexus_18 Start: 17586, Stop: 20123, Start Num: 53

Candidate Starts for Blexus_18:

(Start: 53 @17586 has 233 MA's), (62, 17607), (Start: 72 @17628 has 1 MA's), (90, 17667), (129, 17736), (130, 17745), (131, 17748), (139, 17766), (152, 17814), (167, 17862), (200, 17973), (201, 17976), (217, 18021), (233, 18099), (240, 18123), (253, 18189), (271, 18264), (273, 18270), (274, 18288), (283, 18312), (285, 18321), (297, 18354), (299, 18360), (306, 18390), (316, 18411), (325, 18441), (328, 18450), (350, 18558), (353, 18570), (355, 18579), (356, 18582), (358, 18597), (362, 18612), (364, 18615), (372, 18636), (385, 18678), (391, 18711), (412, 18822), (413, 18825), (421, 18852), (423, 18858), (437, 18912), (438, 18915), (449, 18942), (467, 19017), (469, 19029), (470, 19032), (481, 19098), (485, 19119), (486, 19122), (489, 19143), (491, 19152), (502, 19194), (506, 19212), (507, 19215), (513, 19245), (518, 19269), (523, 19281), (525, 19290), (550, 19386), (553, 19404), (556, 19413), (558, 19425), (565, 19461), (570, 19491), (574, 19500), (576, 19512), (587, 19572), (595, 19626), (610, 19686), (617, 19728), (646, 19863), (650, 19887), (658, 19941), (664, 19989), (675, 20031), (677, 20055), (678, 20058),

Gene: Blizzard_27 Start: 20912, Stop: 23344, Start Num: 82

Candidate Starts for Blizzard_27:

(Start: 82 @20912 has 96 MA's), (125, 21011), (210, 21272), (217, 21293), (260, 21500), (270, 21533), (275, 21563), (301, 21635), (306, 21659), (355, 21857), (363, 21902), (366, 21914), (370, 21923), (385, 21974), (421, 22154), (426, 22169), (441, 22238), (445, 22250), (461, 22313), (470, 22355),

(478, 22394), (479, 22400), (480, 22409), (484, 22430), (496, 22490), (525, 22607), (536, 22649), (555, 22721), (557, 22730), (562, 22751), (575, 22823), (580, 22844), (595, 22940), (628, 23087), (643, 23168), (665, 23315),

Gene: BlueCrab_18 Start: 17568, Stop: 20105, Start Num: 53

Candidate Starts for BlueCrab_18:

(47, 17556), (Start: 53 @17568 has 233 MA's), (62, 17589), (Start: 72 @17610 has 1 MA's), (90, 17649), (129, 17718), (130, 17727), (131, 17730), (139, 17748), (152, 17796), (167, 17844), (200, 17955), (201, 17958), (217, 18003), (233, 18081), (240, 18105), (253, 18171), (262, 18216), (271, 18246), (273, 18252), (274, 18270), (283, 18294), (285, 18303), (297, 18336), (299, 18342), (306, 18372), (322, 18411), (325, 18423), (328, 18432), (332, 18447), (333, 18450), (355, 18561), (356, 18564), (357, 18573), (358, 18579), (362, 18594), (364, 18597), (372, 18618), (382, 18648), (385, 18660), (391, 18693), (412, 18804), (413, 18807), (421, 18834), (423, 18840), (437, 18894), (438, 18897), (467, 18999), (469, 19011), (470, 19014), (481, 19080), (486, 19104), (489, 19125), (491, 19134), (506, 19194), (507, 19197), (515, 19233), (518, 19251), (525, 19272), (533, 19299), (550, 19368), (553, 19386), (556, 19395), (558, 19407), (565, 19443), (576, 19494), (581, 19512), (587, 19554), (595, 19608), (617, 19710), (646, 19845), (650, 19869), (658, 19923), (672, 19992), (677, 20037), (678, 20040),

Gene: BobaPhett_18 Start: 17397, Stop: 19922, Start Num: 53

Candidate Starts for BobaPhett_18:

(Start: 53 @17397 has 233 MA's), (62, 17418), (69, 17439), (94, 17478), (129, 17547), (130, 17556), (131, 17559), (139, 17577), (152, 17625), (167, 17673), (200, 17784), (201, 17787), (214, 17820), (217, 17832), (233, 17910), (247, 17976), (254, 18009), (267, 18063), (271, 18075), (284, 18129), (285, 18132), (289, 18141), (300, 18174), (314, 18213), (316, 18216), (321, 18231), (322, 18234), (329, 18261), (331, 18267), (332, 18270), (333, 18273), (338, 18300), (341, 18318), (342, 18321), (357, 18396), (362, 18417), (364, 18420), (373, 18447), (382, 18471), (391, 18516), (392, 18519), (401, 18570), (413, 18633), (415, 18642), (422, 18666), (454, 18771), (455, 18774), (467, 18825), (468, 18831), (469, 18837), (470, 18840), (478, 18885), (480, 18900), (485, 18927), (489, 18951), (502, 19002), (506, 19020), (507, 19023), (508, 19035), (523, 19089), (553, 19212), (566, 19275), (581, 19338), (591, 19413), (637, 19614), (674, 19824), (680, 19863), (681, 19866),

Gene: Bobi_20 Start: 17987, Stop: 20524, Start Num: 53

Candidate Starts for Bobi_20:

(47, 17975), (Start: 53 @17987 has 233 MA's), (62, 18008), (Start: 72 @18029 has 1 MA's), (90, 18068), (129, 18137), (130, 18146), (131, 18149), (139, 18167), (149, 18200), (152, 18215), (167, 18263), (200, 18374), (201, 18377), (213, 18407), (216, 18419), (217, 18422), (233, 18500), (240, 18524), (253, 18590), (262, 18635), (271, 18665), (273, 18671), (274, 18689), (283, 18713), (285, 18722), (297, 18755), (299, 18761), (306, 18791), (322, 18830), (325, 18842), (328, 18851), (332, 18866), (333, 18869), (355, 18980), (356, 18983), (357, 18992), (358, 18998), (362, 19013), (364, 19016), (382, 19067), (385, 19079), (391, 19112), (404, 19178), (412, 19223), (413, 19226), (421, 19253), (423, 19259), (437, 19313), (438, 19316), (465, 19403), (467, 19418), (469, 19430), (470, 19433), (481, 19499), (489, 19544), (491, 19553), (506, 19613), (507, 19616), (515, 19652), (518, 19670), (523, 19682), (525, 19691), (533, 19718), (550, 19787), (553, 19805), (556, 19814), (558, 19826), (565, 19862), (570, 19892), (576, 19913), (583, 19937), (587, 19973), (595, 20027), (610, 20087), (617, 20129), (646, 20264), (650, 20288), (658, 20342), (664, 20390), (675, 20432), (677, 20456), (678, 20459),

Gene: BobtimousPrime_28 Start: 26139, Stop: 28982, Start Num: 17

Candidate Starts for BobtimousPrime_28:

(Start: 17 @26139 has 8 MA's), (30, 26271), (31, 26283), (35, 26292), (49, 26361), (76, 26427), (86, 26448), (108, 26496), (125, 26538), (134, 26562), (145, 26595), (154, 26631), (160, 26643), (185, 26736), (201, 26793), (212, 26832), (254, 27027), (260, 27057), (273, 27099), (316, 27240), (322,

27258), (340, 27339), (349, 27378), (353, 27399), (391, 27537), (398, 27576), (438, 27741), (460, 27813), (469, 27855), (472, 27867), (488, 27966), (571, 28329), (629, 28599), (632, 28632), (638, 28656), (657, 28776), (673, 28854), (684, 28941), (686, 28956), (687, 28962),

Gene: BodEinwohner17_18 Start: 17569, Stop: 20106, Start Num: 53

Candidate Starts for BodEinwohner17_18:

(Start: 53 @17569 has 233 MA's), (62, 17590), (Start: 72 @17611 has 1 MA's), (90, 17650), (129, 17719), (130, 17728), (131, 17731), (139, 17749), (152, 17797), (198, 17950), (201, 17959), (217, 18004), (239, 18103), (240, 18106), (253, 18172), (271, 18247), (273, 18253), (274, 18271), (283, 18295), (285, 18304), (297, 18337), (299, 18343), (306, 18373), (316, 18394), (325, 18424), (328, 18433), (332, 18448), (333, 18451), (350, 18541), (353, 18553), (355, 18562), (356, 18565), (358, 18580), (362, 18595), (364, 18598), (372, 18619), (385, 18661), (391, 18694), (412, 18805), (413, 18808), (421, 18835), (423, 18841), (437, 18895), (438, 18898), (449, 18925), (467, 19000), (469, 19012), (470, 19015), (481, 19081), (485, 19102), (486, 19105), (489, 19126), (491, 19135), (502, 19177), (506, 19195), (507, 19198), (513, 19228), (518, 19252), (523, 19264), (525, 19273), (550, 19369), (553, 19387), (556, 19396), (558, 19408), (565, 19444), (570, 19474), (574, 19483), (576, 19495), (587, 19555), (595, 19609), (610, 19669), (617, 19711), (646, 19846), (650, 19870), (658, 19924), (664, 19972), (675, 20014), (677, 20038), (678, 20041),

Gene: Bogg_26 Start: 21184, Stop: 23580, Start Num: 99

Candidate Starts for Bogg_26:

(Start: 99 @21184 has 127 MA's), (164, 21361), (170, 21382), (225, 21529), (254, 21670), (261, 21703), (271, 21736), (277, 21772), (306, 21865), (328, 21925), (333, 21943), (359, 22075), (374, 22120), (404, 22252), (412, 22297), (433, 22357), (464, 22471), (467, 22492), (475, 22531), (478, 22552), (480, 22567), (513, 22717), (515, 22723), (518, 22741), (534, 22795), (553, 22879), (574, 22972), (628, 23218), (664, 23434), (678, 23518), (684, 23551),

Gene: Bogie_20 Start: 18761, Stop: 21265, Start Num: 63

Candidate Starts for Bogie_20:

(Start: 63 @18761 has 33 MA's), (131, 18914), (239, 19319), (244, 19334), (247, 19364), (248, 19370), (253, 19388), (283, 19496), (299, 19547), (333, 19658), (334, 19661), (340, 19700), (349, 19733), (364, 19799), (385, 19859), (390, 19886), (391, 19892), (467, 20198), (478, 20258), (484, 20306), (485, 20309), (488, 20330), (489, 20333), (553, 20594), (581, 20717), (582, 20720), (595, 20810), (608, 20867), (613, 20888), (637, 20948), (673, 21149), (676, 21191),

Gene: Boiiii_27 Start: 20914, Stop: 23346, Start Num: 82

Candidate Starts for Boiiii_27:

(Start: 82 @20914 has 96 MA's), (125, 21013), (210, 21274), (217, 21295), (260, 21502), (270, 21535), (275, 21565), (301, 21637), (306, 21661), (355, 21859), (363, 21904), (366, 21916), (370, 21925), (385, 21976), (421, 22156), (426, 22171), (441, 22240), (445, 22252), (461, 22315), (470, 22357), (478, 22396), (479, 22402), (480, 22411), (484, 22432), (496, 22492), (525, 22609), (536, 22651), (555, 22723), (557, 22732), (562, 22753), (575, 22825), (580, 22846), (595, 22942), (628, 23089), (643, 23170), (665, 23317),

Gene: Boilgate_24 Start: 21197, Stop: 23551, Start Num: 78

Candidate Starts for Boilgate_24:

(Start: 78 @21197 has 1 MA's), (127, 21308), (136, 21338), (165, 21431), (166, 21440), (183, 21482), (188, 21494), (193, 21506), (196, 21518), (221, 21605), (247, 21728), (248, 21734), (298, 21866), (320, 21938), (323, 21950), (325, 21956), (338, 22004), (355, 22088), (369, 22142), (376, 22172), (380, 22181), (382, 22184), (387, 22214), (430, 22391), (448, 22469), (456, 22502), (469, 22562), (470, 22565), (478, 22610), (479, 22616), (480, 22625), (486, 22655), (491, 22685), (493, 22697), (508, 22754), (514, 22775), (529, 22832), (530, 22835), (550, 22910), (556, 22937), (558, 22949), (560, 22955), (562, 22964), (578, 23048), (593, 23144), (595, 23153), (604, 23192), (621, 23276),

(634, 23336), (641, 23363), (667, 23522),

Gene: Boomer_19 Start: 17212, Stop: 19749, Start Num: 53

Candidate Starts for Boomer_19:

(Start: 53 @17212 has 233 MA's), (62, 17233), (Start: 72 @17254 has 1 MA's), (90, 17293), (129, 17362), (130, 17371), (131, 17374), (139, 17392), (149, 17425), (152, 17440), (167, 17488), (200, 17599), (201, 17602), (213, 17632), (217, 17647), (233, 17725), (240, 17749), (253, 17815), (262, 17860), (271, 17890), (273, 17896), (274, 17914), (283, 17938), (285, 17947), (297, 17980), (299, 17986), (306, 18016), (316, 18037), (322, 18055), (325, 18067), (328, 18076), (332, 18091), (333, 18094), (348, 18172), (355, 18205), (356, 18208), (357, 18217), (358, 18223), (362, 18238), (364, 18241), (372, 18262), (382, 18292), (385, 18304), (391, 18337), (412, 18448), (413, 18451), (421, 18478), (423, 18484), (437, 18538), (438, 18541), (465, 18628), (467, 18643), (469, 18655), (470, 18658), (481, 18724), (486, 18748), (489, 18769), (491, 18778), (506, 18838), (507, 18841), (513, 18871), (518, 18895), (523, 18907), (525, 18916), (533, 18943), (550, 19012), (553, 19030), (556, 19039), (558, 19051), (565, 19087), (570, 19117), (576, 19138), (583, 19162), (587, 19198), (595, 19252), (610, 19312), (617, 19354), (634, 19432), (646, 19489), (650, 19513), (658, 19567), (664, 19615), (677, 19681), (678, 19684),

Gene: Bora_56 Start: 35766, Stop: 38276, Start Num: 63

Candidate Starts for Bora_56:

(Start: 63 @35766 has 33 MA's), (81, 35799), (111, 35868), (112, 35871), (121, 35895), (131, 35919), (141, 35943), (149, 35976), (190, 36129), (206, 36183), (209, 36195), (210, 36198), (244, 36345), (247, 36375), (253, 36399), (262, 36429), (264, 36432), (271, 36459), (274, 36483), (284, 36513), (302, 36570), (322, 36630), (325, 36642), (332, 36666), (333, 36669), (340, 36711), (362, 36807), (364, 36810), (430, 37065), (467, 37209), (478, 37269), (488, 37341), (489, 37344), (512, 37440), (553, 37614), (556, 37623), (558, 37635), (579, 37728), (582, 37740), (595, 37830), (613, 37905), (633, 37950), (670, 38151), (676, 38205), (681, 38220),

Gene: Brewer_26 Start: 22532, Stop: 24928, Start Num: 99

Candidate Starts for Brewer_26:

(Start: 99 @22532 has 127 MA's), (164, 22709), (170, 22730), (225, 22877), (254, 23018), (261, 23051), (271, 23084), (277, 23120), (306, 23213), (328, 23273), (333, 23291), (359, 23423), (374, 23468), (404, 23600), (412, 23645), (464, 23819), (467, 23840), (475, 23879), (478, 23900), (480, 23915), (515, 24071), (518, 24089), (534, 24143), (553, 24227), (574, 24320), (628, 24566), (664, 24782), (678, 24866), (684, 24899),

Gene: BronnyJames_30 Start: 25923, Stop: 28418, Start Num: 53

Candidate Starts for BronnyJames_30:

(Start: 53 @25923 has 233 MA's), (139, 26118), (149, 26154), (152, 26169), (186, 26256), (191, 26271), (201, 26307), (203, 26313), (217, 26346), (220, 26358), (259, 26529), (262, 26538), (271, 26562), (284, 26616), (297, 26652), (299, 26658), (306, 26688), (319, 26718), (325, 26739), (328, 26748), (332, 26763), (346, 26832), (364, 26913), (367, 26922), (374, 26943), (375, 26946), (385, 26976), (392, 27012), (401, 27063), (402, 27072), (404, 27075), (409, 27102), (411, 27111), (415, 27132), (437, 27210), (438, 27213), (460, 27285), (468, 27321), (469, 27327), (477, 27369), (478, 27375), (485, 27417), (486, 27420), (489, 27441), (490, 27447), (491, 27450), (501, 27480), (532, 27621), (534, 27630), (536, 27639), (543, 27672), (550, 27696), (551, 27699), (553, 27714), (558, 27735), (565, 27771), (566, 27777), (568, 27783), (571, 27804), (579, 27831), (600, 27966), (615, 28038), (619, 28044), (628, 28062), (646, 28161), (664, 28278), (679, 28359), (681, 28362), (684, 28389),

Gene: Brookers_19 Start: 17254, Stop: 19731, Start Num: 53

Candidate Starts for Brookers_19:

(48, 17242), (Start: 53 @17254 has 233 MA's), (62, 17275), (Start: 72 @17296 has 1 MA's), (96, 17335), (129, 17404), (130, 17413), (131, 17416), (139, 17434), (149, 17467), (152, 17482), (186, 17569), (191, 17584), (201, 17620), (203, 17626), (217, 17659), (220, 17671), (259, 17842), (262, 17851), (271, 17875), (284, 17929), (297, 17965), (299, 17971), (306, 18001), (319, 18031), (325, 18052), (328, 18061), (346, 18145), (358, 18208), (364, 18226), (367, 18235), (374, 18256), (375, 18259), (382, 18277), (385, 18289), (390, 18316), (392, 18325), (401, 18376), (402, 18385), (404, 18388), (409, 18415), (411, 18424), (415, 18445), (437, 18523), (438, 18526), (468, 18634), (469, 18640), (478, 18688), (485, 18730), (486, 18733), (489, 18754), (490, 18760), (491, 18763), (501, 18793), (532, 18934), (536, 18952), (543, 18985), (550, 19009), (551, 19012), (553, 19027), (558, 19048), (565, 19084), (566, 19090), (571, 19117), (579, 19144), (600, 19279), (612, 19327), (615, 19351), (619, 19357), (628, 19375), (646, 19474), (649, 19495), (652, 19513), (664, 19591), (672, 19612), (681, 19675), (682, 19693), (685, 19711),

Gene: Bruin_26 Start: 22307, Stop: 24703, Start Num: 99

Candidate Starts for Bruin_26:

(Start: 99 @22307 has 127 MA's), (164, 22484), (170, 22505), (225, 22652), (254, 22793), (261, 22826), (271, 22859), (277, 22895), (306, 22988), (328, 23048), (333, 23066), (359, 23198), (374, 23243), (404, 23375), (412, 23420), (464, 23594), (467, 23615), (475, 23654), (478, 23675), (480, 23690), (515, 23846), (518, 23864), (534, 23918), (553, 24002), (574, 24095), (628, 24341), (664, 24557), (678, 24641), (684, 24674),

Gene: Brujita_21 Start: 19089, Stop: 21620, Start Num: 60

Candidate Starts for Brujita_21:

(Start: 60 @19089 has 2 MA's), (68, 19113), (116, 19224), (119, 19233), (131, 19260), (171, 19407), (239, 19674), (244, 19689), (247, 19719), (248, 19725), (253, 19743), (283, 19851), (299, 19902), (333, 20013), (334, 20016), (340, 20055), (349, 20088), (364, 20154), (385, 20214), (390, 20241), (391, 20247), (467, 20553), (478, 20613), (484, 20661), (485, 20664), (488, 20685), (489, 20688), (553, 20949), (581, 21072), (582, 21075), (595, 21165), (608, 21222), (613, 21243), (637, 21303), (673, 21504), (676, 21546),

Gene: Brushbloom_19 Start: 17281, Stop: 19818, Start Num: 53

Candidate Starts for Brushbloom_19:

(Start: 53 @17281 has 233 MA's), (62, 17302), (Start: 72 @17323 has 1 MA's), (89, 17359), (90, 17362), (129, 17431), (130, 17440), (131, 17443), (139, 17461), (149, 17494), (152, 17509), (167, 17557), (198, 17662), (200, 17668), (201, 17671), (216, 17713), (217, 17716), (240, 17818), (253, 17884), (262, 17929), (271, 17959), (273, 17965), (274, 17983), (283, 18007), (285, 18016), (297, 18049), (299, 18055), (316, 18106), (322, 18124), (325, 18136), (328, 18145), (332, 18160), (334, 18166), (355, 18274), (357, 18286), (358, 18292), (362, 18307), (364, 18310), (372, 18331), (382, 18361), (385, 18373), (391, 18406), (404, 18472), (412, 18517), (413, 18520), (421, 18547), (423, 18553), (437, 18607), (438, 18610), (449, 18637), (467, 18712), (469, 18724), (470, 18727), (481, 18793), (486, 18817), (491, 18847), (502, 18889), (506, 18907), (507, 18910), (515, 18946), (518, 18964), (525, 18985), (533, 19012), (550, 19081), (553, 19099), (556, 19108), (558, 19120), (565, 19156), (576, 19207), (581, 19225), (587, 19267), (595, 19321), (617, 19423), (634, 19501), (646, 19558), (650, 19582), (658, 19636), (664, 19684), (675, 19726), (677, 19750), (678, 19753),

Gene: Bubbles123_19 Start: 18112, Stop: 20649, Start Num: 53

Candidate Starts for Bubbles123_19:

(Start: 53 @18112 has 233 MA's), (62, 18133), (Start: 72 @18154 has 1 MA's), (90, 18193), (129, 18262), (130, 18271), (131, 18274), (139, 18292), (149, 18325), (152, 18340), (167, 18388), (200, 18499), (201, 18502), (216, 18544), (217, 18547), (240, 18649), (253, 18715), (262, 18760), (271, 18790), (273, 18796), (274, 18814), (283, 18838), (285, 18847), (297, 18880), (299, 18886), (322, 18955), (325, 18967), (328, 18976), (332, 18991), (334, 18997), (355, 19105), (357, 19117), (358, 19123), (362, 19138), (364, 19141), (372, 19162), (382, 19192), (385, 19204), (391, 19237), (404,

19303), (412, 19348), (413, 19351), (421, 19378), (423, 19384), (437, 19438), (438, 19441), (449, 19468), (467, 19543), (469, 19555), (470, 19558), (481, 19624), (486, 19648), (491, 19678), (502, 19720), (506, 19738), (507, 19741), (515, 19777), (518, 19795), (525, 19816), (533, 19843), (550, 19912), (553, 19930), (556, 19939), (558, 19951), (565, 19987), (576, 20038), (583, 20062), (587, 20098), (595, 20152), (617, 20254), (634, 20332), (646, 20389), (650, 20413), (664, 20515), (675, 20557), (677, 20581), (678, 20584),

Gene: Buck_25 Start: 22240, Stop: 24636, Start Num: 99

Candidate Starts for Buck_25:

(Start: 99 @22240 has 127 MA's), (164, 22417), (170, 22438), (225, 22585), (254, 22726), (261, 22759), (271, 22792), (277, 22828), (306, 22921), (328, 22981), (333, 22999), (359, 23131), (374, 23176), (404, 23308), (412, 23353), (433, 23413), (464, 23527), (467, 23548), (475, 23587), (478, 23608), (480, 23623), (513, 23773), (515, 23779), (518, 23797), (534, 23851), (553, 23935), (574, 24028), (628, 24274), (664, 24490), (678, 24574), (684, 24607),

Gene: Budgie_28 Start: 21675, Stop: 24068, Start Num: 99

Candidate Starts for Budgie_28:

(Start: 99 @21675 has 127 MA's), (164, 21852), (170, 21873), (237, 22077), (239, 22083), (260, 22191), (261, 22194), (277, 22263), (322, 22392), (328, 22413), (349, 22512), (352, 22530), (404, 22740), (412, 22785), (467, 22980), (468, 22986), (470, 22995), (478, 23040), (480, 23055), (515, 23211), (518, 23229), (521, 23238), (553, 23367), (554, 23370), (594, 23580), (597, 23592), (640, 23775), (641, 23781), (664, 23922), (678, 24006), (682, 24030), (684, 24039),

Gene: BugsBunny_24 Start: 21873, Stop: 24269, Start Num: 99

Candidate Starts for BugsBunny_24:

(Start: 99 @21873 has 127 MA's), (164, 22050), (170, 22071), (225, 22218), (254, 22359), (261, 22392), (271, 22425), (277, 22461), (306, 22554), (328, 22614), (333, 22632), (359, 22764), (374, 22809), (404, 22941), (412, 22986), (433, 23046), (464, 23160), (467, 23181), (475, 23220), (478, 23241), (480, 23256), (513, 23406), (515, 23412), (518, 23430), (534, 23484), (553, 23568), (574, 23661), (628, 23907), (664, 24123), (678, 24207), (684, 24240),

Gene: Burwell21_18 Start: 17404, Stop: 19956, Start Num: 53

Candidate Starts for Burwell21_18:

(Start: 53 @17404 has 233 MA's), (94, 17485), (129, 17554), (130, 17563), (131, 17566), (139, 17584), (152, 17632), (166, 17677), (200, 17791), (201, 17794), (205, 17806), (214, 17827), (216, 17836), (217, 17839), (228, 17887), (233, 17917), (247, 17983), (254, 18016), (262, 18052), (269, 18076), (284, 18136), (285, 18139), (292, 18157), (314, 18220), (316, 18223), (322, 18241), (328, 18262), (333, 18280), (338, 18307), (342, 18328), (349, 18361), (357, 18403), (358, 18409), (359, 18412), (364, 18427), (373, 18454), (374, 18457), (382, 18478), (385, 18490), (391, 18523), (409, 18616), (437, 18724), (443, 18748), (449, 18754), (453, 18772), (454, 18775), (460, 18799), (467, 18829), (472, 18853), (478, 18889), (479, 18895), (480, 18904), (485, 18931), (498, 18994), (502, 19018), (504, 19033), (513, 19075), (527, 19126), (551, 19222), (553, 19237), (556, 19246), (561, 19270), (574, 19333), (583, 19369), (642, 19675), (650, 19720), (664, 19822),

Gene: BuzzLyseyear_20 Start: 17791, Stop: 20328, Start Num: 53

Candidate Starts for BuzzLyseyear_20:

(Start: 53 @17791 has 233 MA's), (62, 17812), (Start: 72 @17833 has 1 MA's), (90, 17872), (129, 17941), (130, 17950), (131, 17953), (139, 17971), (152, 18019), (198, 18172), (201, 18181), (217, 18226), (239, 18325), (240, 18328), (253, 18394), (271, 18469), (273, 18475), (274, 18493), (283, 18517), (284, 18523), (285, 18526), (297, 18559), (299, 18565), (306, 18595), (316, 18616), (325, 18646), (328, 18655), (332, 18670), (333, 18673), (355, 18784), (356, 18787), (357, 18796), (358, 18802), (362, 18817), (364, 18820), (372, 18841), (382, 18871), (385, 18883), (391, 18916), (412, 19027), (413, 19030), (421, 19057), (423, 19063), (437, 19117), (438, 19120), (465, 19207), (467,

19222), (469, 19234), (470, 19237), (481, 19303), (486, 19327), (489, 19348), (491, 19357), (506, 19417), (507, 19420), (515, 19456), (518, 19474), (523, 19486), (525, 19495), (533, 19522), (549, 19579), (550, 19591), (553, 19609), (556, 19618), (558, 19630), (565, 19666), (570, 19696), (574, 19705), (576, 19717), (587, 19777), (595, 19831), (610, 19891), (617, 19933), (646, 20068), (650, 20092), (658, 20146), (664, 20194), (675, 20236), (677, 20260), (678, 20263),

Gene: ByChance_18 Start: 17408, Stop: 19933, Start Num: 53

Candidate Starts for ByChance_18:

(Start: 53 @17408 has 233 MA's), (94, 17489), (129, 17558), (130, 17567), (131, 17570), (139, 17588), (152, 17636), (167, 17684), (200, 17795), (201, 17798), (214, 17831), (217, 17843), (233, 17921), (247, 17987), (254, 18020), (267, 18074), (271, 18086), (284, 18140), (285, 18143), (289, 18152), (300, 18185), (314, 18224), (316, 18227), (321, 18242), (322, 18245), (329, 18272), (331, 18278), (332, 18281), (333, 18284), (338, 18311), (341, 18329), (342, 18332), (357, 18407), (362, 18428), (364, 18431), (373, 18458), (382, 18482), (391, 18527), (392, 18530), (401, 18581), (413, 18644), (415, 18653), (422, 18677), (454, 18782), (455, 18785), (467, 18836), (468, 18842), (469, 18848), (470, 18851), (478, 18896), (480, 18911), (485, 18938), (489, 18962), (502, 19013), (506, 19031), (507, 19034), (508, 19046), (523, 19100), (534, 19142), (566, 19286), (579, 19340), (580, 19346), (581, 19349), (585, 19385), (586, 19388), (589, 19397), (591, 19424), (637, 19625), (664, 19796), (674, 19835), (680, 19874), (681, 19877),

Gene: Byougenkin_18 Start: 17418, Stop: 19949, Start Num: 53

Candidate Starts for Byougenkin_18:

(Start: 53 @17418 has 233 MA's), (101, 17508), (129, 17568), (130, 17577), (131, 17580), (139, 17598), (149, 17631), (152, 17646), (167, 17694), (200, 17805), (201, 17808), (213, 17838), (217, 17853), (233, 17931), (240, 17955), (253, 18021), (262, 18066), (271, 18096), (273, 18102), (274, 18120), (283, 18144), (284, 18150), (285, 18153), (297, 18186), (299, 18192), (322, 18261), (328, 18282), (332, 18297), (333, 18300), (355, 18411), (357, 18423), (358, 18429), (362, 18444), (364, 18447), (372, 18468), (385, 18510), (391, 18543), (412, 18654), (413, 18657), (421, 18684), (423, 18690), (437, 18744), (438, 18747), (465, 18834), (467, 18849), (469, 18861), (470, 18864), (481, 18930), (486, 18954), (489, 18975), (491, 18984), (506, 19044), (507, 19047), (515, 19083), (518, 19101), (523, 19113), (525, 19122), (533, 19149), (550, 19218), (553, 19236), (556, 19245), (558, 19257), (565, 19293), (570, 19323), (576, 19344), (583, 19368), (587, 19404), (595, 19458), (610, 19518), (617, 19560), (634, 19638), (646, 19695), (650, 19719), (658, 19773), (664, 19821), (675, 19857), (677, 19881), (678, 19884),

Gene: CREW_27 Start: 20912, Stop: 23344, Start Num: 82

Candidate Starts for CREW_27:

(Start: 82 @20912 has 96 MA's), (125, 21011), (210, 21272), (217, 21293), (260, 21500), (270, 21533), (275, 21563), (301, 21635), (306, 21659), (355, 21857), (363, 21902), (366, 21914), (370, 21923), (385, 21974), (421, 22154), (426, 22169), (441, 22238), (445, 22250), (461, 22313), (470, 22355), (478, 22394), (479, 22400), (480, 22409), (484, 22430), (496, 22490), (525, 22607), (536, 22649), (555, 22721), (557, 22730), (562, 22751), (575, 22823), (580, 22844), (595, 22940), (628, 23087), (643, 23168), (665, 23315),

Gene: Cabrinians_18 Start: 17398, Stop: 19950, Start Num: 53

Candidate Starts for Cabrinians_18:

(Start: 53 @17398 has 233 MA's), (94, 17479), (129, 17548), (130, 17557), (131, 17560), (139, 17578), (152, 17626), (166, 17671), (200, 17785), (201, 17788), (205, 17800), (214, 17821), (216, 17830), (217, 17833), (228, 17881), (233, 17911), (247, 17977), (254, 18010), (262, 18046), (269, 18070), (284, 18130), (285, 18133), (292, 18151), (314, 18214), (316, 18217), (322, 18235), (328, 18256), (333, 18274), (338, 18301), (342, 18322), (349, 18355), (357, 18397), (358, 18403), (359, 18406), (364, 18421), (373, 18448), (374, 18451), (382, 18472), (385, 18484), (391, 18517), (409, 18610), (437, 18718), (443, 18742), (449, 18748), (453, 18766), (454, 18769), (460, 18793), (467, 18823),

(472, 18847), (478, 18883), (479, 18889), (480, 18898), (485, 18925), (498, 18988), (502, 19012), (504, 19027), (513, 19069), (527, 19120), (551, 19216), (553, 19231), (556, 19240), (561, 19264), (574, 19327), (583, 19363), (642, 19669), (650, 19714), (664, 19816),

Gene: Cactus_27 Start: 21496, Stop: 23892, Start Num: 99

Candidate Starts for Cactus_27:

(Start: 99 @21496 has 127 MA's), (164, 21673), (170, 21694), (225, 21841), (254, 21982), (261, 22015), (271, 22048), (277, 22084), (306, 22177), (328, 22237), (333, 22255), (349, 22336), (404, 22564), (412, 22609), (467, 22804), (468, 22810), (470, 22819), (478, 22864), (480, 22879), (515, 23035), (518, 23053), (521, 23062), (553, 23191), (554, 23194), (594, 23404), (597, 23416), (628, 23530), (664, 23746), (678, 23830), (682, 23854), (684, 23863),

Gene: CallaLilly_27 Start: 20835, Stop: 23267, Start Num: 82

Candidate Starts for CallaLilly_27:

(Start: 82 @20835 has 96 MA's), (125, 20934), (210, 21195), (217, 21216), (260, 21423), (270, 21456), (275, 21486), (301, 21558), (306, 21582), (355, 21780), (363, 21825), (366, 21837), (370, 21846), (385, 21897), (421, 22077), (426, 22092), (441, 22161), (445, 22173), (461, 22236), (470, 22278), (478, 22317), (479, 22323), (480, 22332), (484, 22353), (496, 22413), (525, 22530), (536, 22572), (555, 22644), (557, 22653), (562, 22674), (575, 22746), (580, 22767), (595, 22863), (628, 23010), (643, 23091), (665, 23238),

Gene: Cambiare_23 Start: 21228, Stop: 23705, Start Num: 33

Candidate Starts for Cambiare_23:

(Start: 33 @21228 has 9 MA's), (65, 21336), (112, 21426), (138, 21474), (150, 21516), (213, 21693), (239, 21810), (260, 21909), (296, 21990), (308, 22032), (318, 22056), (327, 22083), (328, 22086), (331, 22098), (349, 22179), (359, 22230), (395, 22359), (397, 22371), (423, 22497), (437, 22557), (440, 22572), (442, 22578), (459, 22647), (486, 22785), (500, 22848), (508, 22887), (540, 23022), (544, 23031), (556, 23079), (559, 23094), (581, 23205), (635, 23499), (646, 23550), (659, 23643),

Gene: Capricorn_27 Start: 20912, Stop: 23344, Start Num: 82

Candidate Starts for Capricorn_27:

(Start: 82 @20912 has 96 MA's), (125, 21011), (210, 21272), (217, 21293), (260, 21500), (270, 21533), (275, 21563), (301, 21635), (306, 21659), (355, 21857), (363, 21902), (366, 21914), (370, 21923), (385, 21974), (421, 22154), (426, 22169), (441, 22238), (445, 22250), (461, 22313), (470, 22355), (478, 22394), (479, 22400), (480, 22409), (484, 22430), (496, 22490), (525, 22607), (536, 22649), (555, 22721), (557, 22730), (562, 22751), (575, 22823), (580, 22844), (595, 22940), (628, 23087), (643, 23168), (665, 23315),

Gene: CaptainTrips_19 Start: 18092, Stop: 20629, Start Num: 53

Candidate Starts for CaptainTrips_19:

(Start: 53 @18092 has 233 MA's), (101, 18182), (129, 18242), (130, 18251), (131, 18254), (139, 18272), (149, 18305), (152, 18320), (167, 18368), (200, 18479), (201, 18482), (213, 18512), (216, 18524), (217, 18527), (233, 18605), (240, 18629), (253, 18695), (262, 18740), (271, 18770), (273, 18776), (274, 18794), (283, 18818), (285, 18827), (297, 18860), (299, 18866), (306, 18896), (322, 18935), (325, 18947), (328, 18956), (332, 18971), (333, 18974), (355, 19085), (356, 19088), (357, 19097), (358, 19103), (362, 19118), (364, 19121), (372, 19142), (382, 19172), (385, 19184), (391, 19217), (412, 19328), (413, 19331), (421, 19358), (423, 19364), (437, 19418), (438, 19421), (465, 19508), (467, 19523), (469, 19535), (470, 19538), (481, 19604), (486, 19628), (489, 19649), (491, 19658), (506, 19718), (507, 19721), (515, 19757), (518, 19775), (523, 19787), (525, 19796), (533, 19823), (550, 19892), (553, 19910), (556, 19919), (558, 19931), (565, 19967), (570, 19997), (576, 20018), (583, 20042), (587, 20078), (595, 20132), (610, 20192), (617, 20234), (634, 20312), (646, 20369), (650, 20393), (658, 20447), (664, 20495), (675, 20537), (677, 20561), (678, 20564),

Gene: CaseJules_27 Start: 20912, Stop: 23344, Start Num: 82

Candidate Starts for CaseJules_27:

(Start: 82 @20912 has 96 MA's), (125, 21011), (210, 21272), (217, 21293), (260, 21500), (270, 21533), (275, 21563), (301, 21635), (306, 21659), (355, 21857), (363, 21902), (366, 21914), (370, 21923), (385, 21974), (421, 22154), (426, 22169), (441, 22238), (445, 22250), (461, 22313), (470, 22355), (478, 22394), (479, 22400), (480, 22409), (484, 22430), (496, 22490), (525, 22607), (536, 22649), (555, 22721), (557, 22730), (562, 22751), (575, 22823), (580, 22844), (595, 22940), (628, 23087), (643, 23168), (665, 23315),

Gene: Catdawg_58 Start: 36145, Stop: 38655, Start Num: 63

Candidate Starts for Catdawg_58:

(Start: 63 @36145 has 33 MA's), (81, 36178), (111, 36247), (112, 36250), (121, 36274), (131, 36298), (141, 36322), (149, 36355), (206, 36562), (209, 36574), (210, 36577), (244, 36724), (247, 36754), (253, 36778), (262, 36808), (264, 36811), (271, 36838), (274, 36862), (284, 36892), (302, 36949), (307, 36973), (322, 37009), (325, 37021), (332, 37045), (333, 37048), (340, 37090), (362, 37186), (364, 37189), (430, 37444), (467, 37588), (478, 37648), (488, 37720), (489, 37723), (512, 37819), (553, 37993), (558, 38014), (579, 38107), (582, 38119), (595, 38209), (613, 38284), (633, 38329), (670, 38530), (676, 38584), (681, 38599),

Gene: Causa_36 Start: 31862, Stop: 33766, Start Num: 235

Candidate Starts for Causa_36:

(Start: 235 @31862 has 2 MA's), (257, 31973), (263, 31991), (294, 32060), (340, 32231), (355, 32306), (385, 32408), (394, 32453), (406, 32513), (410, 32537), (418, 32567), (470, 32753), (485, 32831), (494, 32885), (511, 32948), (522, 32996), (531, 33032), (532, 33035), (535, 33047), (540, 33071), (580, 33248), (582, 33254), (588, 33299), (589, 33302), (596, 33353), (622, 33485), (651, 33629), (661, 33710), (669, 33755),

Gene: Cborch11_30 Start: 25681, Stop: 28524, Start Num: 17

Candidate Starts for Cborch11_30:

(Start: 17 @25681 has 8 MA's), (30, 25813), (31, 25825), (35, 25834), (49, 25903), (52, 25909), (76, 25969), (86, 25990), (108, 26038), (125, 26080), (134, 26104), (145, 26137), (154, 26173), (160, 26185), (185, 26278), (201, 26335), (212, 26374), (242, 26500), (254, 26569), (260, 26599), (273, 26641), (285, 26692), (316, 26782), (322, 26800), (340, 26881), (349, 26920), (353, 26941), (391, 27079), (398, 27118), (411, 27181), (438, 27283), (488, 27508), (571, 27871), (579, 27898), (629, 28141), (632, 28174), (638, 28198), (657, 28318), (673, 28396), (684, 28483), (686, 28498), (687, 28504),

Gene: Che8_18 Start: 17426, Stop: 19963, Start Num: 53

Candidate Starts for Che8_18:

(Start: 53 @17426 has 233 MA's), (62, 17447), (Start: 72 @17468 has 1 MA's), (90, 17507), (129, 17576), (130, 17585), (131, 17588), (139, 17606), (149, 17639), (152, 17654), (200, 17813), (201, 17816), (213, 17846), (217, 17861), (233, 17939), (240, 17963), (253, 18029), (271, 18104), (273, 18110), (274, 18128), (283, 18152), (284, 18158), (285, 18161), (297, 18194), (299, 18200), (306, 18230), (316, 18251), (325, 18281), (328, 18290), (350, 18398), (353, 18410), (355, 18419), (356, 18422), (357, 18431), (358, 18437), (362, 18452), (364, 18455), (372, 18476), (382, 18506), (385, 18518), (391, 18551), (421, 18692), (423, 18698), (437, 18752), (438, 18755), (449, 18782), (467, 18857), (469, 18869), (470, 18872), (474, 18893), (481, 18938), (486, 18962), (491, 18992), (502, 19034), (506, 19052), (507, 19055), (515, 19091), (518, 19109), (523, 19121), (525, 19130), (533, 19157), (549, 19214), (550, 19226), (553, 19244), (556, 19253), (558, 19265), (565, 19301), (570, 19331), (574, 19340), (576, 19352), (587, 19412), (595, 19466), (617, 19568), (634, 19646), (646, 19703), (650, 19727), (658, 19781), (664, 19829), (672, 19850), (677, 19895), (678, 19898),

Gene: Che9d_24 Start: 17101, Stop: 19650, Start Num: 39

Candidate Starts for Che9d_24:

(36, 17092), (Start: 39 @17101 has 7 MA's), (Start: 53 @17161 has 233 MA's), (67, 17197), (118, 17296), (167, 17437), (186, 17476), (191, 17491), (201, 17527), (203, 17533), (204, 17536), (215, 17554), (220, 17578), (227, 17602), (228, 17605), (259, 17749), (262, 17758), (271, 17782), (274, 17806), (283, 17830), (284, 17836), (292, 17857), (293, 17860), (299, 17878), (306, 17908), (319, 17938), (325, 17959), (346, 18052), (349, 18067), (350, 18076), (355, 18097), (356, 18100), (367, 18142), (382, 18184), (383, 18187), (385, 18196), (390, 18223), (392, 18232), (399, 18271), (402, 18292), (404, 18295), (411, 18331), (415, 18352), (437, 18430), (438, 18433), (456, 18487), (469, 18547), (484, 18634), (486, 18640), (489, 18661), (501, 18697), (511, 18751), (513, 18760), (532, 18838), (536, 18856), (545, 18892), (547, 18895), (550, 18913), (553, 18931), (565, 18988), (568, 19000), (583, 19063), (587, 19096), (600, 19183), (612, 19231), (615, 19255), (623, 19282), (628, 19291), (633, 19330), (641, 19369), (646, 19393), (649, 19414), (664, 19510), (672, 19531), (679, 19591), (681, 19594), (684, 19621),

Gene: CheesePuff_20 Start: 18248, Stop: 20785, Start Num: 53

Candidate Starts for CheesePuff_20:

(Start: 53 @18248 has 233 MA's), (62, 18269), (Start: 72 @18290 has 1 MA's), (90, 18329), (129, 18398), (130, 18407), (131, 18410), (139, 18428), (149, 18461), (152, 18476), (198, 18629), (201, 18638), (217, 18683), (239, 18782), (240, 18785), (253, 18851), (262, 18896), (271, 18926), (273, 18932), (274, 18950), (283, 18974), (284, 18980), (285, 18983), (297, 19016), (299, 19022), (306, 19052), (322, 19091), (325, 19103), (328, 19112), (332, 19127), (333, 19130), (355, 19241), (356, 19244), (357, 19253), (358, 19259), (362, 19274), (364, 19277), (372, 19298), (382, 19328), (385, 19340), (391, 19373), (412, 19484), (413, 19487), (421, 19514), (423, 19520), (437, 19574), (438, 19577), (450, 19613), (465, 19664), (467, 19679), (469, 19691), (470, 19694), (481, 19760), (486, 19784), (489, 19805), (491, 19814), (506, 19874), (507, 19877), (515, 19913), (518, 19931), (523, 19943), (525, 19952), (533, 19979), (549, 20036), (550, 20048), (553, 20066), (556, 20075), (558, 20087), (565, 20123), (570, 20153), (574, 20162), (576, 20174), (583, 20198), (587, 20234), (595, 20288), (610, 20348), (617, 20390), (634, 20468), (646, 20525), (650, 20549), (658, 20603), (664, 20651), (675, 20693), (677, 20717), (678, 20720),

Gene: CheetoDust_27 Start: 20889, Stop: 23321, Start Num: 82

Candidate Starts for CheetoDust_27:

(Start: 82 @20889 has 96 MA's), (125, 20988), (210, 21249), (260, 21477), (269, 21507), (270, 21510), (275, 21540), (301, 21612), (306, 21636), (323, 21681), (355, 21834), (363, 21879), (366, 21891), (370, 21900), (385, 21951), (421, 22131), (426, 22146), (437, 22197), (441, 22215), (445, 22227), (456, 22269), (461, 22290), (470, 22332), (478, 22371), (479, 22377), (480, 22386), (484, 22407), (493, 22455), (496, 22467), (508, 22515), (525, 22584), (536, 22626), (553, 22695), (555, 22698), (557, 22707), (562, 22728), (580, 22821), (595, 22917), (609, 22980), (628, 23064), (643, 23145), (655, 23220),

Gene: Chevrolet_18 Start: 17438, Stop: 19975, Start Num: 53

Candidate Starts for Chevrolet_18:

(Start: 53 @17438 has 233 MA's), (62, 17459), (Start: 72 @17480 has 1 MA's), (90, 17519), (129, 17588), (130, 17597), (131, 17600), (139, 17618), (149, 17651), (152, 17666), (200, 17825), (201, 17828), (213, 17858), (217, 17873), (233, 17951), (239, 17972), (240, 17975), (253, 18041), (271, 18116), (273, 18122), (283, 18164), (284, 18170), (285, 18173), (297, 18206), (299, 18212), (306, 18242), (316, 18263), (325, 18293), (328, 18302), (350, 18410), (353, 18422), (355, 18431), (356, 18434), (357, 18443), (358, 18449), (362, 18464), (364, 18467), (372, 18488), (385, 18530), (391, 18563), (421, 18704), (423, 18710), (437, 18764), (438, 18767), (449, 18794), (465, 18854), (467, 18869), (469, 18881), (470, 18884), (481, 18950), (486, 18974), (489, 18995), (491, 19004), (506, 19064), (507, 19067), (515, 19103), (518, 19121), (523, 19133), (525, 19142), (533, 19169), (550, 19238), (553, 19256), (556, 19265), (558, 19277), (565, 19313), (570, 19343), (587, 19424), (595, 19478), (610, 19538), (617, 19580), (634, 19658), (646, 19715), (650, 19739), (658, 19793), (664,

19841), (675, 19883), (677, 19907), (678, 19910),

Gene: ChickenDinner_19 Start: 17271, Stop: 19796, Start Num: 53

Candidate Starts for ChickenDinner_19:

(Start: 53 @17271 has 233 MA's), (62, 17292), (Start: 72 @17313 has 1 MA's), (90, 17352), (129, 17421), (130, 17430), (131, 17433), (139, 17451), (149, 17484), (152, 17499), (167, 17547), (200, 17658), (201, 17661), (217, 17706), (233, 17784), (240, 17808), (253, 17874), (254, 17883), (271, 17949), (273, 17955), (274, 17973), (283, 17997), (284, 18003), (285, 18006), (297, 18039), (299, 18045), (306, 18075), (316, 18096), (328, 18135), (332, 18150), (334, 18156), (364, 18300), (382, 18351), (403, 18462), (413, 18513), (420, 18537), (449, 18630), (460, 18675), (464, 18684), (467, 18705), (469, 18717), (470, 18720), (478, 18765), (486, 18810), (488, 18828), (489, 18831), (502, 18882), (513, 18933), (515, 18939), (518, 18957), (523, 18969), (525, 18978), (534, 19011), (553, 19092), (568, 19161), (574, 19188), (580, 19215), (589, 19266), (595, 19314), (649, 19557), (664, 19662), (672, 19683), (680, 19737), (683, 19761),

Gene: ChosenOne_25 Start: 21491, Stop: 23887, Start Num: 99

Candidate Starts for ChosenOne_25:

(Start: 99 @21491 has 127 MA's), (164, 21668), (170, 21689), (225, 21836), (261, 22010), (271, 22043), (277, 22079), (306, 22172), (328, 22232), (333, 22250), (359, 22382), (374, 22427), (404, 22559), (412, 22604), (433, 22664), (464, 22778), (467, 22799), (475, 22838), (478, 22859), (480, 22874), (513, 23024), (515, 23030), (518, 23048), (534, 23102), (553, 23186), (574, 23279), (628, 23525), (664, 23741), (678, 23825), (684, 23858),

Gene: ChotaBhai_26 Start: 21533, Stop: 23929, Start Num: 99

Candidate Starts for ChotaBhai_26:

(Start: 99 @21533 has 127 MA's), (164, 21710), (170, 21731), (225, 21878), (254, 22019), (261, 22052), (271, 22085), (277, 22121), (306, 22214), (328, 22274), (333, 22292), (359, 22424), (374, 22469), (404, 22601), (412, 22646), (464, 22820), (467, 22841), (475, 22880), (478, 22901), (480, 22916), (515, 23072), (518, 23090), (534, 23144), (553, 23228), (574, 23321), (628, 23567), (664, 23783), (678, 23867), (684, 23900),

Gene: Chris_26 Start: 20139, Stop: 22598, Start Num: 82

Candidate Starts for Chris_26:

(Start: 82 @20139 has 96 MA's), (85, 20148), (103, 20187), (147, 20310), (164, 20367), (200, 20472), (217, 20520), (223, 20547), (256, 20709), (284, 20820), (287, 20829), (288, 20838), (295, 20859), (306, 20907), (337, 21009), (368, 21168), (389, 21249), (409, 21351), (421, 21405), (436, 21465), (452, 21528), (456, 21543), (458, 21555), (461, 21564), (470, 21606), (478, 21651), (480, 21666), (499, 21753), (505, 21777), (562, 22014), (581, 22110), (605, 22248), (624, 22332), (662, 22563), (665, 22569),

Gene: Chuckly_18 Start: 17569, Stop: 20106, Start Num: 53

Candidate Starts for Chuckly_18:

(47, 17557), (Start: 53 @17569 has 233 MA's), (62, 17590), (Start: 72 @17611 has 1 MA's), (90, 17650), (129, 17719), (130, 17728), (131, 17731), (139, 17749), (149, 17782), (152, 17797), (167, 17845), (200, 17956), (201, 17959), (213, 17989), (216, 18001), (217, 18004), (233, 18082), (240, 18106), (253, 18172), (262, 18217), (271, 18247), (273, 18253), (274, 18271), (283, 18295), (285, 18304), (297, 18337), (299, 18343), (306, 18373), (322, 18412), (325, 18424), (328, 18433), (332, 18448), (334, 18454), (355, 18562), (356, 18565), (357, 18574), (358, 18580), (362, 18595), (364, 18598), (372, 18619), (382, 18649), (385, 18661), (391, 18694), (404, 18760), (412, 18805), (413, 18808), (421, 18835), (423, 18841), (437, 18895), (438, 18898), (465, 18985), (467, 19000), (469, 19012), (470, 19015), (481, 19081), (486, 19105), (489, 19126), (491, 19135), (506, 19195), (507, 19198), (515, 19234), (518, 19252), (525, 19273), (533, 19300), (550, 19369), (553, 19387), (556, 19396), (558, 19408), (565, 19444), (570, 19474), (576, 19495), (583, 19519), (587, 19555), (595,

19609), (610, 19669), (617, 19711), (646, 19846), (650, 19870), (658, 19924), (664, 19972), (675, 20014), (677, 20038), (678, 20041),

Gene: Cjw1_26 Start: 23044, Stop: 25440, Start Num: 99

Candidate Starts for Cjw1_26:

(Start: 99 @23044 has 127 MA's), (164, 23221), (170, 23242), (225, 23389), (261, 23563), (271, 23596), (277, 23632), (328, 23785), (333, 23803), (359, 23935), (374, 23980), (404, 24112), (412, 24157), (433, 24217), (464, 24331), (467, 24352), (475, 24391), (478, 24412), (480, 24427), (513, 24577), (515, 24583), (518, 24601), (534, 24655), (553, 24739), (574, 24832), (628, 25078), (664, 25294), (678, 25378), (684, 25411),

Gene: Clank_18 Start: 17552, Stop: 20029, Start Num: 53

Candidate Starts for Clank_18:

(Start: 53 @17552 has 233 MA's), (62, 17573), (Start: 72 @17594 has 1 MA's), (96, 17633), (129, 17702), (130, 17711), (131, 17714), (139, 17732), (149, 17765), (152, 17780), (186, 17867), (191, 17882), (201, 17918), (203, 17924), (217, 17957), (220, 17969), (259, 18140), (262, 18149), (271, 18173), (284, 18227), (297, 18263), (299, 18269), (306, 18299), (319, 18329), (325, 18350), (328, 18359), (332, 18374), (346, 18443), (364, 18524), (367, 18533), (374, 18554), (375, 18557), (385, 18587), (392, 18623), (401, 18674), (402, 18683), (404, 18686), (409, 18713), (411, 18722), (415, 18743), (437, 18821), (438, 18824), (460, 18896), (468, 18932), (469, 18938), (477, 18980), (478, 18986), (485, 19028), (486, 19031), (489, 19052), (490, 19058), (491, 19061), (501, 19091), (532, 19232), (534, 19241), (536, 19250), (543, 19283), (550, 19307), (551, 19310), (553, 19325), (558, 19346), (565, 19382), (566, 19388), (568, 19394), (571, 19415), (579, 19442), (600, 19577), (615, 19649), (619, 19655), (628, 19673), (646, 19772), (664, 19889), (679, 19970), (681, 19973), (684, 20000),

Gene: Clipper_27 Start: 20889, Stop: 23321, Start Num: 82

Candidate Starts for Clipper_27:

(Start: 82 @20889 has 96 MA's), (125, 20988), (210, 21249), (217, 21270), (260, 21477), (270, 21510), (275, 21540), (301, 21612), (306, 21636), (323, 21681), (355, 21834), (363, 21879), (366, 21891), (370, 21900), (385, 21951), (421, 22131), (426, 22146), (441, 22215), (445, 22227), (461, 22290), (470, 22332), (478, 22371), (479, 22377), (480, 22386), (484, 22407), (496, 22467), (525, 22584), (536, 22626), (555, 22698), (557, 22707), (562, 22728), (575, 22800), (580, 22821), (595, 22917), (643, 23145), (665, 23292),

Gene: Cloudyecho_22 Start: 20645, Stop: 23107, Start Num: 33

Candidate Starts for Cloudyecho_22:

(Start: 33 @20645 has 9 MA's), (64, 20750), (65, 20753), (131, 20873), (143, 20906), (145, 20915), (155, 20948), (191, 21053), (239, 21236), (252, 21296), (297, 21419), (308, 21458), (327, 21509), (349, 21605), (353, 21626), (365, 21680), (389, 21761), (391, 21770), (397, 21797), (421, 21917), (430, 21944), (442, 22004), (456, 22052), (459, 22067), (473, 22133), (500, 22268), (514, 22328), (518, 22352), (587, 22652), (594, 22703), (597, 22715), (614, 22811), (625, 22847), (645, 22940), (659, 23045),

Gene: Coco12_20 Start: 17795, Stop: 20272, Start Num: 53

Candidate Starts for Coco12_20:

(48, 17783), (Start: 53 @17795 has 233 MA's), (62, 17816), (Start: 72 @17837 has 1 MA's), (96, 17876), (129, 17945), (130, 17954), (131, 17957), (139, 17975), (149, 18008), (152, 18023), (186, 18110), (191, 18125), (201, 18161), (203, 18167), (217, 18200), (220, 18212), (259, 18383), (262, 18392), (271, 18416), (284, 18470), (297, 18506), (299, 18512), (306, 18542), (319, 18572), (325, 18593), (328, 18602), (346, 18686), (358, 18749), (364, 18767), (367, 18776), (374, 18797), (375, 18800), (382, 18818), (385, 18830), (390, 18857), (392, 18866), (401, 18917), (402, 18926), (404, 18929), (409, 18956), (411, 18965), (415, 18986), (437, 19064), (438, 19067), (468, 19175), (469,

19181), (478, 19229), (485, 19271), (486, 19274), (489, 19295), (490, 19301), (491, 19304), (501, 19334), (532, 19475), (536, 19493), (543, 19526), (550, 19550), (551, 19553), (553, 19568), (558, 19589), (565, 19625), (566, 19631), (571, 19658), (579, 19685), (600, 19820), (612, 19868), (615, 19892), (619, 19898), (628, 19916), (646, 20015), (649, 20036), (652, 20054), (664, 20132), (672, 20153), (681, 20216), (682, 20234), (685, 20252),

Gene: Command613_27 Start: 22552, Stop: 24948, Start Num: 99

Candidate Starts for Command613_27:

(Start: 99 @22552 has 127 MA's), (164, 22729), (170, 22750), (225, 22897), (254, 23038), (261, 23071), (271, 23104), (277, 23140), (306, 23233), (328, 23293), (333, 23311), (349, 23392), (404, 23620), (412, 23665), (467, 23860), (468, 23866), (470, 23875), (478, 23920), (480, 23935), (515, 24091), (518, 24109), (521, 24118), (553, 24247), (554, 24250), (594, 24460), (597, 24472), (628, 24586), (664, 24802), (678, 24886), (682, 24910), (684, 24919),

Gene: Contagion_25 Start: 21791, Stop: 24187, Start Num: 99

Candidate Starts for Contagion_25:

(Start: 99 @21791 has 127 MA's), (164, 21968), (170, 21989), (225, 22136), (254, 22277), (261, 22310), (271, 22343), (277, 22379), (306, 22472), (328, 22532), (333, 22550), (359, 22682), (374, 22727), (404, 22859), (412, 22904), (464, 23078), (467, 23099), (475, 23138), (478, 23159), (480, 23174), (515, 23330), (518, 23348), (534, 23402), (553, 23486), (574, 23579), (628, 23825), (664, 24041), (678, 24125), (684, 24158),

Gene: Cookies_26 Start: 22153, Stop: 24549, Start Num: 99

Candidate Starts for Cookies_26:

(Start: 99 @22153 has 127 MA's), (164, 22330), (170, 22351), (225, 22498), (254, 22639), (261, 22672), (271, 22705), (277, 22741), (306, 22834), (328, 22894), (333, 22912), (359, 23044), (374, 23089), (404, 23221), (412, 23266), (433, 23326), (464, 23440), (467, 23461), (475, 23500), (478, 23521), (480, 23536), (513, 23686), (515, 23692), (518, 23710), (534, 23764), (553, 23848), (574, 23941), (628, 24187), (664, 24403), (678, 24487), (684, 24520),

Gene: Corium_18 Start: 17437, Stop: 19974, Start Num: 53

Candidate Starts for Corium_18:

(47, 17425), (Start: 53 @17437 has 233 MA's), (62, 17458), (Start: 72 @17479 has 1 MA's), (90, 17518), (129, 17587), (130, 17596), (131, 17599), (139, 17617), (149, 17650), (152, 17665), (167, 17713), (200, 17824), (201, 17827), (213, 17857), (216, 17869), (217, 17872), (233, 17950), (240, 17974), (253, 18040), (262, 18085), (271, 18115), (273, 18121), (274, 18139), (283, 18163), (285, 18172), (297, 18205), (299, 18211), (306, 18241), (322, 18280), (325, 18292), (328, 18301), (332, 18316), (333, 18319), (355, 18430), (356, 18433), (357, 18442), (358, 18448), (362, 18463), (364, 18466), (372, 18487), (382, 18517), (385, 18529), (391, 18562), (412, 18673), (413, 18676), (421, 18703), (423, 18709), (437, 18763), (438, 18766), (465, 18853), (467, 18868), (469, 18880), (470, 18883), (481, 18949), (486, 18973), (489, 18994), (491, 19003), (506, 19063), (507, 19066), (515, 19102), (518, 19120), (523, 19132), (525, 19141), (533, 19168), (550, 19237), (553, 19255), (556, 19264), (558, 19276), (565, 19312), (570, 19342), (576, 19363), (583, 19387), (587, 19423), (595, 19477), (610, 19537), (617, 19579), (634, 19657), (646, 19714), (650, 19738), (658, 19792), (664, 19840), (675, 19882), (677, 19906), (678, 19909),

Gene: Corndog_61 Start: 37139, Stop: 39649, Start Num: 63

Candidate Starts for Corndog_61:

(Start: 63 @37139 has 33 MA's), (81, 37172), (111, 37241), (112, 37244), (121, 37268), (131, 37292), (141, 37316), (149, 37349), (206, 37556), (209, 37568), (210, 37571), (244, 37718), (247, 37748), (253, 37772), (262, 37802), (264, 37805), (271, 37832), (274, 37856), (284, 37886), (302, 37943), (322, 38003), (325, 38015), (332, 38039), (333, 38042), (340, 38084), (362, 38180), (364, 38183), (430, 38438), (467, 38582), (478, 38642), (488, 38714), (489, 38717), (512, 38813), (553, 38987),

(558, 39008), (579, 39101), (582, 39113), (595, 39203), (613, 39278), (633, 39323), (670, 39524), (676, 39578), (681, 39593),

Gene: Cornie_20 Start: 18264, Stop: 20744, Start Num: 55

Candidate Starts for Cornie_20:

(Start: 55 @18264 has 1 MA's), (57, 18270), (62, 18276), (Start: 99 @18339 has 127 MA's), (100, 18342), (112, 18369), (135, 18423), (139, 18432), (149, 18465), (161, 18498), (167, 18531), (186, 18570), (191, 18585), (201, 18621), (203, 18627), (204, 18630), (215, 18648), (217, 18660), (220, 18672), (227, 18696), (228, 18699), (250, 18804), (254, 18828), (259, 18843), (262, 18852), (271, 18876), (273, 18882), (274, 18900), (277, 18912), (281, 18918), (283, 18924), (284, 18930), (285, 18933), (289, 18942), (292, 18951), (297, 18966), (306, 19002), (322, 19041), (325, 19053), (328, 19062), (346, 19146), (364, 19227), (367, 19236), (375, 19260), (385, 19290), (392, 19326), (401, 19377), (402, 19386), (404, 19389), (409, 19416), (411, 19425), (415, 19446), (429, 19482), (437, 19524), (438, 19527), (456, 19581), (469, 19641), (484, 19728), (486, 19734), (489, 19755), (501, 19791), (511, 19845), (513, 19854), (532, 19932), (536, 19950), (545, 19986), (547, 19989), (550, 20007), (553, 20025), (565, 20082), (568, 20094), (583, 20157), (587, 20190), (600, 20277), (612, 20325), (615, 20349), (623, 20376), (628, 20385), (633, 20424), (641, 20463), (646, 20487), (649, 20508), (664, 20604), (672, 20625), (679, 20685), (681, 20688), (684, 20715),

Gene: Cornucopia_19 Start: 17435, Stop: 19972, Start Num: 53

Candidate Starts for Cornucopia_19:

(Start: 53 @17435 has 233 MA's), (62, 17456), (Start: 72 @17477 has 1 MA's), (90, 17516), (129, 17585), (130, 17594), (131, 17597), (139, 17615), (152, 17663), (198, 17816), (201, 17825), (217, 17870), (239, 17969), (240, 17972), (253, 18038), (271, 18113), (273, 18119), (274, 18137), (283, 18161), (285, 18170), (297, 18203), (299, 18209), (306, 18239), (316, 18260), (322, 18278), (325, 18290), (328, 18299), (332, 18314), (333, 18317), (355, 18428), (356, 18431), (357, 18440), (358, 18446), (362, 18461), (364, 18464), (372, 18485), (382, 18515), (385, 18527), (391, 18560), (412, 18671), (413, 18674), (421, 18701), (423, 18707), (437, 18761), (438, 18764), (454, 18812), (465, 18851), (467, 18866), (469, 18878), (470, 18881), (474, 18902), (481, 18947), (486, 18971), (491, 19001), (502, 19043), (506, 19061), (507, 19064), (515, 19100), (518, 19118), (523, 19130), (525, 19139), (534, 19172), (550, 19235), (553, 19253), (556, 19262), (558, 19274), (570, 19340), (576, 19361), (583, 19385), (587, 19421), (595, 19475), (610, 19535), (617, 19577), (634, 19655), (646, 19712), (650, 19736), (658, 19790), (664, 19838), (675, 19880), (677, 19904), (678, 19907),

Gene: Cosmo_43 Start: 28347, Stop: 30914, Start Num: 54

Candidate Starts for Cosmo_43:

(Start: 54 @28347 has 6 MA's), (83, 28416), (135, 28539), (138, 28545), (139, 28548), (146, 28572), (151, 28593), (198, 28749), (199, 28755), (201, 28761), (210, 28791), (211, 28797), (217, 28818), (219, 28827), (232, 28887), (241, 28923), (248, 28965), (273, 29064), (278, 29097), (284, 29112), (285, 29115), (299, 29154), (316, 29205), (322, 29223), (328, 29244), (329, 29250), (336, 29277), (340, 29304), (355, 29373), (361, 29397), (367, 29418), (374, 29439), (378, 29448), (385, 29469), (391, 29502), (392, 29505), (401, 29556), (404, 29568), (419, 29634), (424, 29652), (434, 29691), (467, 29808), (476, 29853), (485, 29910), (489, 29934), (491, 29943), (494, 29961), (506, 30006), (513, 30039), (520, 30075), (563, 30249), (565, 30267), (566, 30273), (580, 30330), (645, 30654), (647, 30672), (656, 30723), (666, 30786), (677, 30861),

Gene: Courthouse_36 Start: 27742, Stop: 30249, Start Num: 53

Candidate Starts for Courthouse_36:

(Start: 53 @27742 has 233 MA's), (139, 27937), (149, 27973), (152, 27988), (186, 28075), (191, 28090), (217, 28165), (220, 28177), (228, 28204), (250, 28309), (259, 28348), (262, 28357), (271, 28381), (273, 28387), (274, 28405), (281, 28423), (285, 28438), (289, 28447), (292, 28456), (297, 28471), (304, 28498), (306, 28507), (322, 28546), (325, 28558), (328, 28567), (346, 28651), (364, 28732), (374, 28762), (375, 28765), (385, 28795), (390, 28822), (392, 28831), (401, 28882), (402,

28891), (404, 28894), (411, 28930), (415, 28951), (429, 28987), (468, 29140), (478, 29194), (486, 29239), (488, 29257), (489, 29260), (501, 29299), (532, 29446), (534, 29455), (551, 29524), (553, 29539), (587, 29704), (600, 29791), (612, 29839), (628, 29890), (641, 29968), (679, 30190), (681, 30193), (684, 30220),

Gene: CrimD_27 Start: 20850, Stop: 23282, Start Num: 82

Candidate Starts for CrimD_27:

(Start: 82 @20850 has 96 MA's), (125, 20949), (210, 21210), (260, 21438), (270, 21471), (275, 21501), (301, 21573), (306, 21597), (323, 21642), (355, 21795), (363, 21840), (366, 21852), (370, 21861), (381, 21897), (385, 21912), (421, 22092), (426, 22107), (441, 22176), (445, 22188), (461, 22251), (470, 22293), (478, 22332), (479, 22338), (480, 22347), (484, 22368), (496, 22428), (525, 22545), (536, 22587), (557, 22668), (562, 22689), (580, 22782), (595, 22878), (643, 23106),

Gene: CrystalP_26 Start: 22284, Stop: 24680, Start Num: 99

Candidate Starts for CrystalP_26:

(Start: 99 @22284 has 127 MA's), (164, 22461), (170, 22482), (225, 22629), (254, 22770), (261, 22803), (271, 22836), (277, 22872), (306, 22965), (328, 23025), (333, 23043), (349, 23124), (404, 23352), (412, 23397), (467, 23592), (468, 23598), (470, 23607), (478, 23652), (480, 23667), (515, 23823), (518, 23841), (521, 23850), (553, 23979), (554, 23982), (594, 24192), (597, 24204), (628, 24318), (664, 24534), (678, 24618), (682, 24642), (684, 24651),

Gene: Czyszczone1_27 Start: 22029, Stop: 24425, Start Num: 99

Candidate Starts for Czyszczone1_27:

(Start: 99 @22029 has 127 MA's), (164, 22206), (170, 22227), (225, 22374), (261, 22548), (271, 22581), (277, 22617), (306, 22710), (328, 22770), (333, 22788), (359, 22920), (374, 22965), (404, 23097), (412, 23142), (433, 23202), (464, 23316), (467, 23337), (475, 23376), (478, 23397), (480, 23412), (513, 23562), (515, 23568), (518, 23586), (534, 23640), (553, 23724), (574, 23817), (628, 24063), (664, 24279), (678, 24363), (684, 24396),

Gene: DLane_18 Start: 17386, Stop: 19923, Start Num: 53

Candidate Starts for DLane_18:

(47, 17374), (Start: 53 @17386 has 233 MA's), (62, 17407), (Start: 72 @17428 has 1 MA's), (90, 17467), (129, 17536), (130, 17545), (131, 17548), (139, 17566), (149, 17599), (152, 17614), (167, 17662), (200, 17773), (201, 17776), (213, 17806), (215, 17809), (217, 17821), (233, 17899), (240, 17923), (253, 17989), (262, 18034), (271, 18064), (273, 18070), (274, 18088), (283, 18112), (285, 18121), (297, 18154), (299, 18160), (306, 18190), (325, 18241), (328, 18250), (332, 18265), (333, 18268), (355, 18379), (356, 18382), (357, 18391), (358, 18397), (362, 18412), (364, 18415), (372, 18436), (382, 18466), (385, 18478), (391, 18511), (412, 18622), (413, 18625), (421, 18652), (423, 18658), (437, 18712), (438, 18715), (467, 18817), (469, 18829), (470, 18832), (481, 18898), (486, 18922), (489, 18943), (491, 18952), (506, 19012), (507, 19015), (515, 19051), (518, 19069), (523, 19081), (525, 19090), (533, 19117), (550, 19186), (553, 19204), (556, 19213), (558, 19225), (565, 19261), (570, 19291), (576, 19312), (583, 19336), (587, 19372), (595, 19426), (610, 19486), (617, 19528), (634, 19606), (646, 19663), (650, 19687), (658, 19741), (664, 19789), (675, 19831), (677, 19855), (678, 19858),

Gene: DRBy19_18 Start: 17429, Stop: 19966, Start Num: 53

Candidate Starts for DRBy19_18:

(Start: 53 @17429 has 233 MA's), (62, 17450), (Start: 72 @17471 has 1 MA's), (90, 17510), (129, 17579), (130, 17588), (131, 17591), (139, 17609), (152, 17657), (198, 17810), (201, 17819), (217, 17864), (233, 17942), (240, 17966), (253, 18032), (262, 18077), (271, 18107), (273, 18113), (274, 18131), (283, 18155), (285, 18164), (297, 18197), (299, 18203), (306, 18233), (322, 18272), (328, 18293), (332, 18308), (333, 18311), (356, 18425), (357, 18434), (358, 18440), (364, 18458), (372, 18479), (382, 18509), (385, 18521), (391, 18554), (412, 18665), (413, 18668), (421, 18695), (423,

18701), (437, 18755), (438, 18758), (465, 18845), (467, 18860), (470, 18875), (486, 18965), (489, 18986), (491, 18995), (506, 19055), (507, 19058), (515, 19094), (518, 19112), (523, 19124), (525, 19133), (533, 19160), (550, 19229), (553, 19247), (556, 19256), (558, 19268), (565, 19304), (570, 19334), (576, 19355), (583, 19379), (587, 19415), (595, 19469), (617, 19571), (634, 19649), (646, 19706), (650, 19730), (658, 19784), (664, 19832), (675, 19874), (680, 19907), (681, 19910),

Gene: DaWorst_20 Start: 17930, Stop: 20467, Start Num: 53

Candidate Starts for DaWorst_20:

(Start: 53 @17930 has 233 MA's), (62, 17951), (Start: 72 @17972 has 1 MA's), (90, 18011), (129, 18080), (130, 18089), (131, 18092), (139, 18110), (149, 18143), (152, 18158), (200, 18317), (201, 18320), (213, 18350), (217, 18365), (233, 18443), (239, 18464), (240, 18467), (253, 18533), (271, 18608), (273, 18614), (283, 18656), (284, 18662), (285, 18665), (297, 18698), (299, 18704), (306, 18734), (316, 18755), (325, 18785), (328, 18794), (350, 18902), (353, 18914), (355, 18923), (356, 18926), (357, 18935), (358, 18941), (362, 18956), (364, 18959), (372, 18980), (385, 19022), (391, 19055), (421, 19196), (423, 19202), (437, 19256), (438, 19259), (449, 19286), (465, 19346), (467, 19361), (469, 19373), (470, 19376), (481, 19442), (486, 19466), (489, 19487), (491, 19496), (506, 19556), (507, 19559), (515, 19595), (518, 19613), (523, 19625), (525, 19634), (533, 19661), (550, 19730), (553, 19748), (556, 19757), (558, 19769), (565, 19805), (570, 19835), (587, 19916), (595, 19970), (610, 20030), (617, 20072), (634, 20150), (646, 20207), (650, 20231), (658, 20285), (664, 20333), (675, 20375), (677, 20399), (678, 20402),

Gene: DaddyRickover_18 Start: 17568, Stop: 20105, Start Num: 53

Candidate Starts for DaddyRickover_18:

(47, 17556), (Start: 53 @17568 has 233 MA's), (62, 17589), (Start: 72 @17610 has 1 MA's), (90, 17649), (129, 17718), (130, 17727), (131, 17730), (139, 17748), (152, 17796), (167, 17844), (200, 17955), (201, 17958), (217, 18003), (233, 18081), (240, 18105), (253, 18171), (262, 18216), (271, 18246), (273, 18252), (274, 18270), (283, 18294), (285, 18303), (297, 18336), (299, 18342), (306, 18372), (322, 18411), (325, 18423), (328, 18432), (332, 18447), (333, 18450), (355, 18561), (356, 18564), (357, 18573), (358, 18579), (362, 18594), (364, 18597), (372, 18618), (382, 18648), (385, 18660), (391, 18693), (412, 18804), (413, 18807), (421, 18834), (423, 18840), (437, 18894), (438, 18897), (467, 18999), (469, 19011), (470, 19014), (481, 19080), (486, 19104), (489, 19125), (491, 19134), (506, 19194), (507, 19197), (515, 19233), (518, 19251), (525, 19272), (533, 19299), (550, 19368), (553, 19386), (556, 19395), (558, 19407), (565, 19443), (576, 19494), (581, 19512), (587, 19554), (595, 19608), (617, 19710), (646, 19845), (650, 19869), (658, 19923), (672, 19992), (677, 20037), (678, 20040),

Gene: Daenerys_18 Start: 17400, Stop: 19937, Start Num: 53

Candidate Starts for Daenerys_18:

(47, 17388), (Start: 53 @17400 has 233 MA's), (62, 17421), (Start: 72 @17442 has 1 MA's), (90, 17481), (129, 17550), (130, 17559), (131, 17562), (139, 17580), (152, 17628), (167, 17676), (200, 17787), (201, 17790), (217, 17835), (233, 17913), (240, 17937), (253, 18003), (262, 18048), (271, 18078), (273, 18084), (274, 18102), (283, 18126), (285, 18135), (297, 18168), (299, 18174), (306, 18204), (322, 18243), (325, 18255), (328, 18264), (332, 18279), (333, 18282), (355, 18393), (356, 18396), (357, 18405), (358, 18411), (362, 18426), (364, 18429), (372, 18450), (382, 18480), (385, 18492), (391, 18525), (412, 18636), (413, 18639), (421, 18666), (423, 18672), (437, 18726), (438, 18729), (467, 18831), (469, 18843), (470, 18846), (481, 18912), (486, 18936), (489, 18957), (491, 18966), (506, 19026), (507, 19029), (515, 19065), (518, 19083), (525, 19104), (533, 19131), (550, 19200), (553, 19218), (556, 19227), (558, 19239), (565, 19275), (576, 19326), (581, 19344), (587, 19386), (595, 19440), (617, 19542), (646, 19677), (650, 19701), (658, 19755), (672, 19824), (677, 19869), (678, 19872),

Gene: Daikon_24 Start: 22021, Stop: 24417, Start Num: 99

Candidate Starts for Daikon_24:

(Start: 99 @22021 has 127 MA's), (164, 22198), (170, 22219), (225, 22366), (254, 22507), (261, 22540), (271, 22573), (277, 22609), (306, 22702), (328, 22762), (333, 22780), (367, 22936), (374, 22957), (401, 23077), (404, 23089), (412, 23134), (467, 23329), (470, 23344), (478, 23389), (480, 23404), (515, 23560), (518, 23578), (521, 23587), (553, 23716), (554, 23719), (594, 23929), (597, 23941), (628, 24055), (664, 24271), (678, 24355), (682, 24379), (684, 24388),

Gene: Dalmuri_27 Start: 20912, Stop: 23344, Start Num: 82

Candidate Starts for Dalmuri_27:

(Start: 82 @20912 has 96 MA's), (125, 21011), (210, 21272), (217, 21293), (260, 21500), (270, 21533), (275, 21563), (301, 21635), (306, 21659), (355, 21857), (363, 21902), (366, 21914), (370, 21923), (385, 21974), (421, 22154), (426, 22169), (441, 22238), (445, 22250), (461, 22313), (470, 22355), (478, 22394), (479, 22400), (480, 22409), (484, 22430), (496, 22490), (525, 22607), (536, 22649), (555, 22721), (557, 22730), (562, 22751), (575, 22823), (580, 22844), (595, 22940), (628, 23087), (643, 23168), (665, 23315),

Gene: Damien_29 Start: 25682, Stop: 28525, Start Num: 17

Candidate Starts for Damien_29:

(Start: 17 @25682 has 8 MA's), (30, 25814), (31, 25826), (35, 25835), (49, 25904), (52, 25910), (76, 25970), (86, 25991), (108, 26039), (125, 26081), (134, 26105), (145, 26138), (154, 26174), (160, 26186), (185, 26279), (201, 26336), (212, 26375), (242, 26501), (254, 26570), (260, 26600), (273, 26642), (285, 26693), (316, 26783), (322, 26801), (340, 26882), (349, 26921), (353, 26942), (391, 27080), (398, 27119), (411, 27182), (438, 27284), (488, 27509), (571, 27872), (579, 27899), (629, 28142), (632, 28175), (638, 28199), (657, 28319), (673, 28397), (684, 28484), (686, 28499), (687, 28505),

Gene: Dante_18 Start: 17416, Stop: 19953, Start Num: 53

Candidate Starts for Dante_18:

(47, 17404), (Start: 53 @17416 has 233 MA's), (62, 17437), (Start: 72 @17458 has 1 MA's), (90, 17497), (129, 17566), (130, 17575), (131, 17578), (139, 17596), (149, 17629), (152, 17644), (167, 17692), (198, 17797), (200, 17803), (201, 17806), (216, 17848), (217, 17851), (233, 17929), (240, 17953), (253, 18019), (262, 18064), (271, 18094), (273, 18100), (274, 18118), (283, 18142), (285, 18151), (297, 18184), (299, 18190), (306, 18220), (322, 18259), (325, 18271), (328, 18280), (332, 18295), (333, 18298), (355, 18409), (356, 18412), (357, 18421), (358, 18427), (362, 18442), (364, 18445), (372, 18466), (382, 18496), (391, 18541), (412, 18652), (413, 18655), (421, 18682), (423, 18688), (437, 18742), (438, 18745), (467, 18847), (469, 18859), (470, 18862), (481, 18928), (486, 18952), (489, 18973), (491, 18982), (506, 19042), (507, 19045), (515, 19081), (518, 19099), (523, 19111), (525, 19120), (533, 19147), (550, 19216), (553, 19234), (556, 19243), (558, 19255), (565, 19291), (570, 19321), (576, 19342), (583, 19366), (587, 19402), (595, 19456), (610, 19516), (617, 19558), (634, 19636), (646, 19693), (650, 19717), (658, 19771), (664, 19819), (675, 19861), (677, 19885), (678, 19888),

Gene: DartGoblin_27 Start: 20819, Stop: 23251, Start Num: 82

Candidate Starts for DartGoblin_27:

(73, 20801), (Start: 82 @20819 has 96 MA's), (103, 20867), (125, 20918), (210, 21179), (217, 21200), (270, 21440), (275, 21470), (276, 21473), (306, 21566), (310, 21578), (323, 21611), (355, 21764), (366, 21821), (370, 21830), (385, 21881), (421, 22061), (426, 22076), (441, 22145), (445, 22157), (454, 22193), (461, 22220), (470, 22262), (478, 22301), (479, 22307), (480, 22316), (484, 22337), (496, 22397), (506, 22430), (508, 22445), (525, 22514), (536, 22556), (555, 22628), (557, 22637), (562, 22658), (575, 22730), (595, 22847), (628, 22994), (643, 23075), (655, 23150), (665, 23222),

Gene: DeadP_18 Start: 17430, Stop: 19967, Start Num: 53

Candidate Starts for DeadP_18:

(47, 17418), (Start: 53 @17430 has 233 MA's), (62, 17451), (Start: 72 @17472 has 1 MA's), (90, 17511), (129, 17580), (130, 17589), (131, 17592), (139, 17610), (149, 17643), (152, 17658), (167, 17706), (198, 17811), (200, 17817), (201, 17820), (216, 17862), (217, 17865), (233, 17943), (253, 18033), (262, 18078), (271, 18108), (273, 18114), (274, 18132), (283, 18156), (285, 18165), (297, 18198), (299, 18204), (306, 18234), (322, 18273), (325, 18285), (328, 18294), (332, 18309), (333, 18312), (355, 18423), (356, 18426), (357, 18435), (358, 18441), (362, 18456), (364, 18459), (372, 18480), (382, 18510), (385, 18522), (391, 18555), (412, 18666), (413, 18669), (421, 18696), (423, 18702), (437, 18756), (438, 18759), (465, 18846), (467, 18861), (469, 18873), (470, 18876), (481, 18942), (486, 18966), (489, 18987), (491, 18996), (506, 19056), (507, 19059), (515, 19095), (518, 19113), (523, 19125), (525, 19134), (533, 19161), (550, 19230), (553, 19248), (556, 19257), (558, 19269), (565, 19305), (570, 19335), (576, 19356), (583, 19380), (587, 19416), (595, 19470), (610, 19530), (617, 19572), (646, 19707), (650, 19731), (658, 19785), (664, 19833), (675, 19875), (677, 19899), (678, 19902),

Gene: Deb65_18 Start: 17397, Stop: 19934, Start Num: 53

Candidate Starts for Deb65_18:

(Start: 53 @17397 has 233 MA's), (62, 17418), (Start: 72 @17439 has 1 MA's), (90, 17478), (129, 17547), (130, 17556), (131, 17559), (139, 17577), (152, 17625), (167, 17673), (200, 17784), (201, 17787), (217, 17832), (233, 17910), (240, 17934), (253, 18000), (271, 18075), (273, 18081), (274, 18099), (283, 18123), (285, 18132), (297, 18165), (299, 18171), (306, 18201), (316, 18222), (325, 18252), (328, 18261), (350, 18369), (353, 18381), (355, 18390), (356, 18393), (358, 18408), (362, 18423), (364, 18426), (372, 18447), (385, 18489), (391, 18522), (412, 18633), (413, 18636), (421, 18663), (423, 18669), (437, 18723), (438, 18726), (449, 18753), (467, 18828), (469, 18840), (470, 18843), (481, 18909), (485, 18930), (486, 18933), (489, 18954), (491, 18963), (502, 19005), (506, 19023), (507, 19026), (513, 19056), (518, 19080), (523, 19092), (525, 19101), (550, 19197), (553, 19215), (556, 19224), (558, 19236), (565, 19272), (570, 19302), (574, 19311), (576, 19323), (587, 19383), (595, 19437), (610, 19497), (617, 19539), (646, 19674), (650, 19698), (658, 19752), (664, 19800), (675, 19842), (677, 19866), (678, 19869),

Gene: Deby_27 Start: 20846, Stop: 23278, Start Num: 82

Candidate Starts for Deby_27:

(Start: 82 @20846 has 96 MA's), (125, 20945), (210, 21206), (217, 21227), (260, 21434), (270, 21467), (275, 21497), (301, 21569), (306, 21593), (355, 21791), (363, 21836), (366, 21848), (370, 21857), (385, 21908), (421, 22088), (426, 22103), (441, 22172), (445, 22184), (461, 22247), (470, 22289), (478, 22328), (479, 22334), (480, 22343), (484, 22364), (496, 22424), (506, 22457), (508, 22472), (509, 22475), (522, 22529), (525, 22541), (555, 22655), (557, 22664), (562, 22685), (575, 22757), (580, 22778), (595, 22874), (643, 23102), (665, 23249),

Gene: Demsculpinboyz_24 Start: 17086, Stop: 19635, Start Num: 39

Candidate Starts for Demsculpinboyz_24:

(36, 17077), (Start: 39 @17086 has 7 MA's), (Start: 53 @17146 has 233 MA's), (65, 17179), (67, 17182), (107, 17251), (118, 17281), (186, 17461), (191, 17476), (201, 17512), (203, 17518), (215, 17539), (220, 17563), (227, 17587), (259, 17734), (262, 17743), (271, 17767), (274, 17791), (283, 17815), (284, 17821), (292, 17842), (299, 17863), (306, 17893), (319, 17923), (325, 17944), (346, 18037), (349, 18052), (350, 18061), (352, 18070), (355, 18082), (356, 18085), (382, 18169), (383, 18172), (385, 18181), (390, 18208), (392, 18217), (399, 18256), (402, 18277), (404, 18280), (411, 18316), (415, 18337), (437, 18415), (438, 18418), (469, 18532), (484, 18619), (486, 18625), (489, 18646), (501, 18682), (511, 18736), (513, 18745), (532, 18823), (536, 18841), (545, 18877), (547, 18880), (550, 18898), (553, 18916), (565, 18973), (568, 18985), (583, 19048), (587, 19081), (600, 19168), (612, 19216), (615, 19240), (628, 19276), (633, 19315), (641, 19354), (646, 19378), (649, 19399), (664, 19495), (672, 19516), (679, 19576), (681, 19579), (684, 19606),

Gene: Devera_27 Start: 20893, Stop: 23325, Start Num: 82

Candidate Starts for Devera_27:

(Start: 82 @20893 has 96 MA's), (103, 20941), (125, 20992), (210, 21253), (217, 21274), (260, 21481), (270, 21514), (275, 21544), (301, 21616), (306, 21640), (323, 21685), (355, 21838), (366, 21895), (370, 21904), (381, 21940), (385, 21955), (421, 22135), (426, 22150), (441, 22219), (445, 22231), (461, 22294), (470, 22336), (478, 22375), (479, 22381), (480, 22390), (484, 22411), (496, 22471), (508, 22519), (522, 22576), (525, 22588), (536, 22630), (555, 22702), (557, 22711), (575, 22804), (580, 22825), (595, 22921), (607, 22975), (628, 23068), (643, 23149), (665, 23296),

Gene: DillTech15_18 Start: 17434, Stop: 19971, Start Num: 53

Candidate Starts for DillTech15_18:

(Start: 53 @17434 has 233 MA's), (62, 17455), (Start: 72 @17476 has 1 MA's), (90, 17515), (129, 17584), (130, 17593), (131, 17596), (139, 17614), (149, 17647), (152, 17662), (198, 17815), (201, 17824), (217, 17869), (239, 17968), (240, 17971), (253, 18037), (262, 18082), (271, 18112), (273, 18118), (274, 18136), (283, 18160), (284, 18166), (285, 18169), (297, 18202), (299, 18208), (306, 18238), (322, 18277), (325, 18289), (328, 18298), (332, 18313), (333, 18316), (355, 18427), (356, 18430), (357, 18439), (358, 18445), (362, 18460), (364, 18463), (372, 18484), (382, 18514), (385, 18526), (391, 18559), (412, 18670), (413, 18673), (421, 18700), (423, 18706), (437, 18760), (438, 18763), (465, 18850), (467, 18865), (469, 18877), (470, 18880), (481, 18946), (486, 18970), (489, 18991), (491, 19000), (506, 19060), (507, 19063), (515, 19099), (518, 19117), (523, 19129), (525, 19138), (533, 19165), (550, 19234), (553, 19252), (556, 19261), (558, 19273), (565, 19309), (570, 19339), (574, 19348), (576, 19360), (583, 19384), (587, 19420), (595, 19474), (610, 19534), (617, 19576), (646, 19711), (650, 19735), (658, 19789), (664, 19837), (675, 19879), (677, 19903), (678, 19906),

Gene: DirtMcgirt_19 Start: 17221, Stop: 19758, Start Num: 53

Candidate Starts for DirtMcgirt_19:

(47, 17209), (Start: 53 @17221 has 233 MA's), (62, 17242), (Start: 72 @17263 has 1 MA's), (90, 17302), (129, 17371), (130, 17380), (131, 17383), (139, 17401), (149, 17434), (152, 17449), (167, 17497), (198, 17602), (201, 17611), (216, 17653), (217, 17656), (233, 17734), (240, 17758), (253, 17824), (262, 17869), (271, 17899), (273, 17905), (274, 17923), (283, 17947), (285, 17956), (297, 17989), (299, 17995), (306, 18025), (322, 18064), (325, 18076), (328, 18085), (332, 18100), (333, 18103), (355, 18214), (357, 18226), (358, 18232), (362, 18247), (364, 18250), (372, 18271), (382, 18301), (385, 18313), (391, 18346), (412, 18457), (413, 18460), (421, 18487), (423, 18493), (437, 18547), (438, 18550), (449, 18577), (467, 18652), (469, 18664), (470, 18667), (481, 18733), (486, 18757), (491, 18787), (502, 18829), (506, 18847), (507, 18850), (515, 18886), (518, 18904), (525, 18925), (533, 18952), (550, 19021), (553, 19039), (556, 19048), (558, 19060), (565, 19096), (570, 19126), (574, 19135), (576, 19147), (587, 19207), (595, 19261), (610, 19321), (617, 19363), (634, 19441), (646, 19498), (650, 19522), (658, 19576), (664, 19624), (675, 19666), (677, 19690), (678, 19693),

Gene: DmpstrDiver_37 Start: 30383, Stop: 32890, Start Num: 53

Candidate Starts for DmpstrDiver_37:

(41, 30326), (Start: 53 @30383 has 233 MA's), (139, 30578), (149, 30614), (152, 30629), (167, 30677), (191, 30731), (201, 30767), (203, 30773), (204, 30776), (215, 30794), (217, 30806), (220, 30818), (228, 30845), (250, 30950), (259, 30989), (262, 30998), (271, 31022), (273, 31028), (274, 31046), (281, 31064), (285, 31079), (289, 31088), (292, 31097), (297, 31112), (304, 31139), (306, 31148), (322, 31187), (325, 31199), (328, 31208), (346, 31292), (364, 31373), (374, 31403), (375, 31406), (385, 31436), (390, 31463), (392, 31472), (401, 31523), (402, 31532), (404, 31535), (411, 31571), (415, 31592), (429, 31628), (468, 31781), (478, 31835), (486, 31880), (488, 31898), (489, 31901), (501, 31940), (532, 32087), (534, 32096), (551, 32165), (553, 32180), (587, 32345), (600, 32432), (612, 32480), (628, 32531), (641, 32609), (679, 32831), (681, 32834), (684, 32861),

Gene: DoRead_18 Start: 17366, Stop: 19891, Start Num: 53

Candidate Starts for DoRead_18:

(Start: 53 @17366 has 233 MA's), (62, 17387), (101, 17456), (129, 17516), (130, 17525), (131, 17528), (139, 17546), (152, 17594), (167, 17642), (200, 17753), (201, 17756), (208, 17777), (214, 17789), (217, 17801), (233, 17879), (247, 17945), (254, 17978), (267, 18032), (271, 18044), (283, 18092), (284, 18098), (285, 18101), (289, 18110), (300, 18143), (314, 18182), (316, 18185), (321, 18200), (329, 18230), (331, 18236), (332, 18239), (333, 18242), (338, 18269), (341, 18287), (342, 18290), (352, 18341), (353, 18344), (357, 18365), (358, 18371), (359, 18374), (362, 18386), (364, 18389), (373, 18416), (382, 18440), (385, 18452), (401, 18539), (413, 18602), (415, 18611), (422, 18635), (454, 18740), (455, 18743), (467, 18794), (468, 18800), (469, 18806), (470, 18809), (478, 18854), (480, 18869), (485, 18896), (489, 18920), (491, 18929), (506, 18989), (507, 18992), (508, 19004), (518, 19046), (523, 19058), (534, 19100), (566, 19244), (581, 19307), (591, 19382), (637, 19583), (674, 19793), (680, 19832), (681, 19835),

Gene: DocMcStuffins_19 Start: 17271, Stop: 19796, Start Num: 53

Candidate Starts for DocMcStuffins_19:

(Start: 53 @17271 has 233 MA's), (62, 17292), (Start: 72 @17313 has 1 MA's), (90, 17352), (129, 17421), (130, 17430), (131, 17433), (139, 17451), (149, 17484), (152, 17499), (167, 17547), (200, 17658), (201, 17661), (217, 17706), (233, 17784), (240, 17808), (253, 17874), (254, 17883), (271, 17949), (273, 17955), (274, 17973), (283, 17997), (284, 18003), (285, 18006), (297, 18039), (299, 18045), (306, 18075), (316, 18096), (328, 18135), (332, 18150), (334, 18156), (364, 18300), (382, 18351), (403, 18462), (413, 18513), (420, 18537), (449, 18630), (460, 18675), (464, 18684), (467, 18705), (469, 18717), (470, 18720), (478, 18765), (486, 18810), (488, 18828), (489, 18831), (502, 18882), (513, 18933), (515, 18939), (518, 18957), (523, 18969), (525, 18978), (534, 19011), (553, 19092), (568, 19161), (574, 19188), (580, 19215), (589, 19266), (595, 19314), (649, 19557), (664, 19662), (672, 19683), (680, 19737), (683, 19761),

Gene: DoctorDiddles_26 Start: 21446, Stop: 23842, Start Num: 99

Candidate Starts for DoctorDiddles_26:

(Start: 99 @21446 has 127 MA's), (164, 21623), (170, 21644), (225, 21791), (261, 21965), (271, 21998), (277, 22034), (306, 22127), (328, 22187), (333, 22205), (359, 22337), (374, 22382), (404, 22514), (412, 22559), (433, 22619), (464, 22733), (467, 22754), (475, 22793), (478, 22814), (480, 22829), (513, 22979), (515, 22985), (518, 23003), (534, 23057), (553, 23141), (574, 23234), (628, 23480), (664, 23696), (678, 23780), (684, 23813),

Gene: Dole_27 Start: 20895, Stop: 23327, Start Num: 82

Candidate Starts for Dole_27:

(Start: 82 @20895 has 96 MA's), (103, 20943), (125, 20994), (210, 21255), (217, 21276), (260, 21483), (270, 21516), (275, 21546), (301, 21618), (306, 21642), (323, 21687), (355, 21840), (366, 21897), (370, 21906), (381, 21942), (385, 21957), (421, 22137), (426, 22152), (441, 22221), (445, 22233), (461, 22296), (470, 22338), (478, 22377), (479, 22383), (480, 22392), (484, 22413), (496, 22473), (508, 22521), (522, 22578), (525, 22590), (536, 22632), (555, 22704), (557, 22713), (575, 22806), (580, 22827), (595, 22923), (607, 22977), (628, 23070), (643, 23151), (665, 23298),

Gene: Donkeykong_18 Start: 17574, Stop: 20111, Start Num: 53

Candidate Starts for Donkeykong_18:

(47, 17562), (Start: 53 @17574 has 233 MA's), (62, 17595), (Start: 72 @17616 has 1 MA's), (90, 17655), (129, 17724), (130, 17733), (131, 17736), (139, 17754), (149, 17787), (152, 17802), (167, 17850), (200, 17961), (201, 17964), (213, 17994), (216, 18006), (217, 18009), (233, 18087), (240, 18111), (253, 18177), (262, 18222), (271, 18252), (273, 18258), (274, 18276), (283, 18300), (285, 18309), (297, 18342), (299, 18348), (306, 18378), (322, 18417), (325, 18429), (328, 18438), (332, 18453), (333, 18456), (355, 18567), (356, 18570), (357, 18579), (358, 18585), (362, 18600), (364, 18603), (372, 18624), (382, 18654), (385, 18666), (391, 18699), (404, 18765), (412, 18810), (413, 18813), (421, 18840), (423, 18846), (437, 18900), (438, 18903), (467, 19005), (469, 19017), (470,

19020), (481, 19086), (486, 19110), (489, 19131), (491, 19140), (506, 19200), (507, 19203), (515, 19239), (518, 19257), (523, 19269), (525, 19278), (533, 19305), (550, 19374), (553, 19392), (556, 19401), (558, 19413), (565, 19449), (570, 19479), (576, 19500), (583, 19524), (587, 19560), (595, 19614), (610, 19674), (617, 19716), (634, 19794), (646, 19851), (650, 19875), (658, 19929), (664, 19977), (675, 20019), (677, 20043), (678, 20046),

Gene: Doomphist_18 Start: 17534, Stop: 20071, Start Num: 53

Candidate Starts for Doomphist_18:

(Start: 53 @17534 has 233 MA's), (62, 17555), (Start: 72 @17576 has 1 MA's), (90, 17615), (129, 17684), (130, 17693), (131, 17696), (139, 17714), (152, 17762), (200, 17921), (201, 17924), (217, 17969), (233, 18047), (240, 18071), (253, 18137), (271, 18212), (273, 18218), (274, 18236), (283, 18260), (284, 18266), (285, 18269), (297, 18302), (299, 18308), (306, 18338), (316, 18359), (325, 18389), (328, 18398), (350, 18506), (353, 18518), (355, 18527), (356, 18530), (358, 18545), (362, 18560), (364, 18563), (372, 18584), (385, 18626), (391, 18659), (412, 18770), (413, 18773), (421, 18800), (423, 18806), (437, 18860), (438, 18863), (449, 18890), (467, 18965), (469, 18977), (470, 18980), (481, 19046), (485, 19067), (486, 19070), (489, 19091), (491, 19100), (506, 19160), (507, 19163), (515, 19199), (518, 19217), (523, 19229), (525, 19238), (533, 19265), (549, 19322), (550, 19334), (553, 19352), (556, 19361), (558, 19373), (565, 19409), (570, 19439), (574, 19448), (576, 19460), (587, 19520), (595, 19574), (610, 19634), (617, 19676), (646, 19811), (650, 19835), (658, 19889), (664, 19937), (675, 19979), (677, 20003), (678, 20006),

Gene: Doomslug_20 Start: 17255, Stop: 19792, Start Num: 53

Candidate Starts for Doomslug_20:

(47, 17243), (Start: 53 @17255 has 233 MA's), (62, 17276), (Start: 72 @17297 has 1 MA's), (90, 17336), (129, 17405), (130, 17414), (131, 17417), (139, 17435), (149, 17468), (152, 17483), (167, 17531), (200, 17642), (201, 17645), (213, 17675), (216, 17687), (217, 17690), (233, 17768), (240, 17792), (253, 17858), (262, 17903), (271, 17933), (273, 17939), (274, 17957), (283, 17981), (285, 17990), (297, 18023), (299, 18029), (306, 18059), (322, 18098), (325, 18110), (328, 18119), (332, 18134), (333, 18137), (355, 18248), (356, 18251), (357, 18260), (358, 18266), (362, 18281), (364, 18284), (372, 18305), (382, 18335), (385, 18347), (391, 18380), (412, 18491), (413, 18494), (421, 18521), (423, 18527), (437, 18581), (438, 18584), (465, 18671), (467, 18686), (469, 18698), (470, 18701), (481, 18767), (486, 18791), (489, 18812), (491, 18821), (506, 18881), (507, 18884), (515, 18920), (518, 18938), (523, 18950), (525, 18959), (533, 18986), (550, 19055), (553, 19073), (556, 19082), (558, 19094), (565, 19130), (570, 19160), (576, 19181), (583, 19205), (587, 19241), (595, 19295), (610, 19355), (617, 19397), (634, 19475), (646, 19532), (650, 19556), (658, 19610), (664, 19658), (675, 19700), (677, 19724), (678, 19727),

Gene: Dorothy_18 Start: 17358, Stop: 19895, Start Num: 53

Candidate Starts for Dorothy_18:

(47, 17346), (Start: 53 @17358 has 233 MA's), (62, 17379), (Start: 72 @17400 has 1 MA's), (90, 17439), (129, 17508), (130, 17517), (131, 17520), (139, 17538), (152, 17586), (167, 17634), (200, 17745), (201, 17748), (217, 17793), (233, 17871), (240, 17895), (253, 17961), (262, 18006), (271, 18036), (273, 18042), (274, 18060), (283, 18084), (285, 18093), (297, 18126), (299, 18132), (306, 18162), (322, 18201), (325, 18213), (328, 18222), (332, 18237), (333, 18240), (355, 18351), (356, 18354), (357, 18363), (358, 18369), (362, 18384), (364, 18387), (372, 18408), (382, 18438), (385, 18450), (391, 18483), (412, 18594), (413, 18597), (421, 18624), (423, 18630), (437, 18684), (438, 18687), (467, 18789), (469, 18801), (470, 18804), (481, 18870), (486, 18894), (489, 18915), (491, 18924), (506, 18984), (507, 18987), (515, 19023), (518, 19041), (525, 19062), (533, 19089), (550, 19158), (553, 19176), (556, 19185), (558, 19197), (565, 19233), (576, 19284), (581, 19302), (587, 19344), (595, 19398), (617, 19500), (646, 19635), (650, 19659), (658, 19713), (672, 19782), (677, 19827), (678, 19830),

Gene: DosHalletts_19 Start: 17327, Stop: 19879, Start Num: 53

Candidate Starts for DosHalletts_19:

(Start: 53 @17327 has 233 MA's), (101, 17417), (129, 17477), (130, 17486), (131, 17489), (139, 17507), (152, 17555), (166, 17600), (200, 17714), (201, 17717), (205, 17729), (214, 17750), (216, 17759), (217, 17762), (233, 17840), (247, 17906), (254, 17939), (262, 17975), (269, 17999), (284, 18059), (285, 18062), (292, 18080), (314, 18143), (316, 18146), (322, 18164), (328, 18185), (333, 18203), (338, 18230), (342, 18251), (349, 18284), (357, 18326), (358, 18332), (359, 18335), (364, 18350), (373, 18377), (374, 18380), (382, 18401), (385, 18413), (391, 18446), (409, 18539), (437, 18647), (443, 18671), (449, 18677), (453, 18695), (454, 18698), (460, 18722), (467, 18752), (472, 18776), (478, 18812), (479, 18818), (480, 18827), (485, 18854), (498, 18917), (502, 18941), (504, 18956), (513, 18998), (527, 19049), (551, 19145), (553, 19160), (556, 19169), (561, 19193), (574, 19256), (583, 19292), (642, 19598), (650, 19643), (664, 19745),

Gene: DotProduct_18 Start: 17408, Stop: 19939, Start Num: 53

Candidate Starts for DotProduct_18:

(47, 17396), (Start: 53 @17408 has 233 MA's), (62, 17429), (Start: 72 @17450 has 1 MA's), (90, 17489), (129, 17558), (130, 17567), (131, 17570), (139, 17588), (149, 17621), (152, 17636), (167, 17678), (200, 17789), (201, 17792), (215, 17825), (216, 17834), (217, 17837), (233, 17915), (253, 18005), (262, 18050), (271, 18080), (273, 18086), (274, 18104), (283, 18128), (285, 18137), (297, 18170), (299, 18176), (306, 18206), (325, 18257), (328, 18266), (332, 18281), (333, 18284), (355, 18395), (356, 18398), (357, 18407), (358, 18413), (362, 18428), (364, 18431), (372, 18452), (382, 18482), (385, 18494), (391, 18527), (412, 18638), (413, 18641), (423, 18674), (437, 18728), (438, 18731), (467, 18833), (469, 18845), (470, 18848), (481, 18914), (486, 18938), (489, 18959), (491, 18968), (506, 19028), (507, 19031), (515, 19067), (518, 19085), (523, 19097), (525, 19106), (533, 19133), (550, 19202), (553, 19220), (556, 19229), (558, 19241), (565, 19277), (570, 19307), (576, 19328), (583, 19352), (587, 19388), (595, 19442), (610, 19502), (617, 19544), (634, 19622), (646, 19679), (650, 19703), (658, 19757), (664, 19805), (675, 19847), (677, 19871), (678, 19874),

Gene: Doug_19 Start: 17950, Stop: 20487, Start Num: 53

Candidate Starts for Doug_19:

(47, 17938), (Start: 53 @17950 has 233 MA's), (62, 17971), (Start: 72 @17992 has 1 MA's), (90, 18031), (129, 18100), (130, 18109), (131, 18112), (139, 18130), (149, 18163), (152, 18178), (167, 18226), (198, 18331), (200, 18337), (201, 18340), (216, 18382), (217, 18385), (233, 18463), (253, 18553), (262, 18598), (271, 18628), (273, 18634), (274, 18652), (283, 18676), (285, 18685), (297, 18718), (299, 18724), (306, 18754), (322, 18793), (325, 18805), (328, 18814), (332, 18829), (333, 18832), (355, 18943), (356, 18946), (357, 18955), (358, 18961), (362, 18976), (364, 18979), (372, 19000), (382, 19030), (385, 19042), (391, 19075), (404, 19141), (412, 19186), (413, 19189), (421, 19216), (423, 19222), (437, 19276), (438, 19279), (465, 19366), (467, 19381), (469, 19393), (470, 19396), (481, 19462), (486, 19486), (489, 19507), (491, 19516), (506, 19576), (507, 19579), (515, 19615), (518, 19633), (523, 19645), (525, 19654), (533, 19681), (550, 19750), (553, 19768), (556, 19777), (558, 19789), (565, 19825), (570, 19855), (576, 19876), (583, 19900), (587, 19936), (595, 19990), (610, 20050), (617, 20092), (634, 20170), (646, 20227), (650, 20251), (658, 20305), (664, 20353), (677, 20419), (678, 20422),

Gene: DrDrey_27 Start: 22776, Stop: 25172, Start Num: 99

Candidate Starts for DrDrey_27:

(Start: 99 @22776 has 127 MA's), (164, 22953), (170, 22974), (225, 23121), (261, 23295), (271, 23328), (277, 23364), (306, 23457), (328, 23517), (333, 23535), (359, 23667), (374, 23712), (404, 23844), (412, 23889), (433, 23949), (464, 24063), (467, 24084), (475, 24123), (478, 24144), (480, 24159), (513, 24309), (515, 24315), (518, 24333), (534, 24387), (553, 24471), (574, 24564), (628, 24810), (664, 25026), (678, 25110), (684, 25143),

Gene: DrHayes_27 Start: 20840, Stop: 23272, Start Num: 82

Candidate Starts for DrHayes_27:

(73, 20822), (Start: 82 @20840 has 96 MA's), (103, 20888), (125, 20939), (210, 21200), (217, 21221), (269, 21458), (270, 21461), (275, 21491), (276, 21494), (301, 21563), (306, 21587), (308, 21593), (310, 21599), (323, 21632), (355, 21785), (366, 21842), (370, 21851), (385, 21902), (421, 22082), (426, 22097), (441, 22166), (445, 22178), (454, 22214), (461, 22241), (470, 22283), (478, 22322), (479, 22328), (480, 22337), (484, 22358), (496, 22418), (506, 22451), (509, 22469), (525, 22535), (536, 22577), (555, 22649), (557, 22658), (562, 22679), (575, 22751), (595, 22868), (628, 23015), (643, 23096), (655, 23171), (665, 23243),

Gene: DrLupo_38 Start: 27172, Stop: 30258, Start Num: 2

Candidate Starts for DrLupo_38:

(1, 27145), (Start: 2 @27172 has 2 MA's), (3, 27175), (6, 27325), (7, 27328), (10, 27403), (11, 27412), (12, 27415), (13, 27484), (16, 27520), (19, 27595), (27, 27682), (34, 27718), (36, 27727), (44, 27748), (62, 27817), (Start: 72 @27841 has 1 MA's), (91, 27883), (92, 27886), (105, 27916), (123, 27958), (141, 28009), (163, 28090), (164, 28102), (183, 28162), (188, 28183), (200, 28222), (225, 28303), (231, 28336), (259, 28468), (272, 28507), (279, 28531), (291, 28546), (323, 28648), (327, 28660), (330, 28672), (331, 28675), (374, 28852), (385, 28885), (389, 28909), (400, 28966), (442, 29152), (459, 29218), (470, 29266), (479, 29317), (482, 29341), (483, 29347), (500, 29419), (506, 29443), (508, 29458), (525, 29527), (625, 29998), (635, 30052), (659, 30196),

Gene: Drago_19 Start: 17219, Stop: 19756, Start Num: 53

Candidate Starts for Drago_19:

(47, 17207), (Start: 53 @17219 has 233 MA's), (62, 17240), (Start: 72 @17261 has 1 MA's), (90, 17300), (129, 17369), (130, 17378), (131, 17381), (139, 17399), (149, 17432), (152, 17447), (167, 17495), (198, 17600), (201, 17609), (216, 17651), (217, 17654), (233, 17732), (240, 17756), (253, 17822), (262, 17867), (271, 17897), (273, 17903), (274, 17921), (283, 17945), (285, 17954), (297, 17987), (299, 17993), (306, 18023), (322, 18062), (325, 18074), (328, 18083), (332, 18098), (333, 18101), (355, 18212), (357, 18224), (358, 18230), (362, 18245), (364, 18248), (372, 18269), (382, 18299), (385, 18311), (391, 18344), (404, 18410), (412, 18455), (413, 18458), (421, 18485), (423, 18491), (437, 18545), (438, 18548), (449, 18575), (467, 18650), (469, 18662), (470, 18665), (481, 18731), (486, 18755), (491, 18785), (502, 18827), (506, 18845), (507, 18848), (515, 18884), (518, 18902), (525, 18923), (533, 18950), (550, 19019), (553, 19037), (556, 19046), (558, 19058), (565, 19094), (570, 19124), (574, 19133), (576, 19145), (587, 19205), (595, 19259), (610, 19319), (617, 19361), (634, 19439), (646, 19496), (650, 19520), (658, 19574), (664, 19622), (675, 19664), (677, 19688), (678, 19691),

Gene: Duke13_36 Start: 29781, Stop: 32336, Start Num: 53

Candidate Starts for Duke13_36:

(40, 29724), (Start: 53 @29781 has 233 MA's), (139, 29976), (149, 30012), (152, 30027), (167, 30075), (200, 30186), (201, 30189), (217, 30234), (233, 30312), (240, 30336), (253, 30402), (262, 30447), (271, 30477), (273, 30483), (274, 30501), (283, 30525), (285, 30534), (297, 30567), (299, 30573), (306, 30603), (322, 30642), (325, 30654), (328, 30663), (332, 30678), (333, 30681), (355, 30792), (356, 30795), (357, 30804), (358, 30810), (362, 30825), (364, 30828), (372, 30849), (382, 30879), (385, 30891), (391, 30924), (412, 31035), (413, 31038), (421, 31065), (423, 31071), (437, 31125), (438, 31128), (467, 31230), (469, 31242), (470, 31245), (481, 31311), (486, 31335), (489, 31356), (491, 31365), (506, 31425), (507, 31428), (515, 31464), (518, 31482), (525, 31503), (533, 31530), (550, 31599), (553, 31617), (556, 31626), (558, 31638), (565, 31674), (576, 31725), (581, 31743), (587, 31785), (595, 31839), (617, 31941), (646, 32076), (650, 32100), (658, 32154), (672, 32223), (677, 32268), (678, 32271),

Gene: Dumbo_26 Start: 21751, Stop: 24147, Start Num: 99

Candidate Starts for Dumbo_26:

(Start: 99 @21751 has 127 MA's), (164, 21928), (170, 21949), (225, 22096), (261, 22270), (271, 22303), (277, 22339), (306, 22432), (328, 22492), (333, 22510), (359, 22642), (374, 22687), (404,

22819), (412, 22864), (433, 22924), (464, 23038), (467, 23059), (475, 23098), (478, 23119), (480, 23134), (513, 23284), (515, 23290), (518, 23308), (534, 23362), (553, 23446), (574, 23539), (628, 23785), (664, 24001), (678, 24085), (684, 24118),

Gene: Durfee_27 Start: 20912, Stop: 23344, Start Num: 82

Candidate Starts for Durfee_27:

(Start: 82 @20912 has 96 MA's), (125, 21011), (210, 21272), (217, 21293), (260, 21500), (270, 21533), (275, 21563), (301, 21635), (306, 21659), (355, 21857), (363, 21902), (366, 21914), (370, 21923), (385, 21974), (421, 22154), (426, 22169), (441, 22238), (445, 22250), (461, 22313), (470, 22355), (478, 22394), (479, 22400), (480, 22409), (484, 22430), (496, 22490), (525, 22607), (536, 22649), (555, 22721), (557, 22730), (562, 22751), (575, 22823), (580, 22844), (595, 22940), (628, 23087), (643, 23168), (665, 23315),

Gene: Dusk_25 Start: 21943, Stop: 24339, Start Num: 99

Candidate Starts for Dusk_25:

(Start: 99 @21943 has 127 MA's), (164, 22120), (170, 22141), (225, 22288), (254, 22429), (261, 22462), (271, 22495), (277, 22531), (306, 22624), (328, 22684), (333, 22702), (349, 22783), (404, 23011), (412, 23056), (467, 23251), (468, 23257), (470, 23266), (478, 23311), (480, 23326), (515, 23482), (518, 23500), (521, 23509), (536, 23563), (553, 23638), (554, 23641), (594, 23851), (597, 23863), (628, 23977), (664, 24193), (678, 24277), (682, 24301), (684, 24310),

Gene: Dylan_58 Start: 36190, Stop: 38700, Start Num: 63

Candidate Starts for Dylan_58:

(Start: 63 @36190 has 33 MA's), (81, 36223), (111, 36292), (112, 36295), (121, 36319), (131, 36343), (141, 36367), (149, 36400), (206, 36607), (209, 36619), (210, 36622), (244, 36769), (247, 36799), (253, 36823), (262, 36853), (264, 36856), (271, 36883), (274, 36907), (284, 36937), (302, 36994), (322, 37054), (325, 37066), (332, 37090), (333, 37093), (340, 37135), (362, 37231), (364, 37234), (430, 37489), (467, 37633), (478, 37693), (488, 37765), (489, 37768), (512, 37864), (553, 38038), (558, 38059), (579, 38152), (582, 38164), (595, 38254), (613, 38329), (633, 38374), (670, 38575), (676, 38629), (681, 38644),

Gene: Easy2Say_28 Start: 23534, Stop: 25930, Start Num: 99

Candidate Starts for Easy2Say_28:

(Start: 99 @23534 has 127 MA's), (164, 23711), (170, 23732), (225, 23879), (254, 24020), (261, 24053), (271, 24086), (277, 24122), (306, 24215), (328, 24275), (333, 24293), (359, 24425), (374, 24470), (404, 24602), (412, 24647), (433, 24707), (464, 24821), (467, 24842), (475, 24881), (478, 24902), (480, 24917), (513, 25067), (515, 25073), (518, 25091), (534, 25145), (553, 25229), (574, 25322), (628, 25568), (664, 25784), (678, 25868), (684, 25901),

Gene: Efra2_27 Start: 20082, Stop: 22514, Start Num: 82

Candidate Starts for Efra2_27:

(Start: 82 @20082 has 96 MA's), (103, 20130), (104, 20133), (109, 20142), (210, 20442), (217, 20463), (270, 20703), (301, 20805), (306, 20829), (308, 20835), (323, 20874), (355, 21027), (366, 21084), (370, 21093), (385, 21144), (423, 21330), (426, 21339), (428, 21345), (437, 21390), (441, 21408), (461, 21483), (470, 21525), (478, 21564), (479, 21570), (480, 21579), (484, 21600), (493, 21648), (506, 21693), (508, 21708), (525, 21777), (536, 21819), (557, 21900), (575, 21993), (580, 22014), (595, 22110), (643, 22338), (652, 22392), (655, 22413), (665, 22485), (671, 22503),

Gene: Eish_18 Start: 17540, Stop: 20077, Start Num: 53

Candidate Starts for Eish_18:

(Start: 53 @17540 has 233 MA's), (62, 17561), (Start: 72 @17582 has 1 MA's), (90, 17621), (129, 17690), (130, 17699), (131, 17702), (139, 17720), (149, 17753), (152, 17768), (167, 17816), (198, 17921), (201, 17930), (217, 17975), (233, 18053), (240, 18077), (253, 18143), (271, 18218), (273,

18224), (274, 18242), (283, 18266), (284, 18272), (285, 18275), (297, 18308), (299, 18314), (306, 18344), (316, 18365), (325, 18395), (328, 18404), (350, 18512), (353, 18524), (355, 18533), (356, 18536), (357, 18545), (358, 18551), (362, 18566), (364, 18569), (372, 18590), (382, 18620), (385, 18632), (391, 18665), (392, 18668), (404, 18731), (421, 18806), (423, 18812), (437, 18866), (438, 18869), (449, 18896), (467, 18971), (469, 18983), (470, 18986), (481, 19052), (489, 19097), (491, 19106), (506, 19166), (507, 19169), (515, 19205), (518, 19223), (525, 19244), (550, 19340), (553, 19358), (556, 19367), (558, 19379), (565, 19415), (570, 19445), (587, 19526), (595, 19580), (617, 19682), (646, 19817), (650, 19841), (658, 19895), (664, 19943), (675, 19985), (677, 20009), (678, 20012),

Gene: EleanorGeorge_18 Start: 17568, Stop: 20105, Start Num: 53

Candidate Starts for EleanorGeorge_18:

(47, 17556), (Start: 53 @17568 has 233 MA's), (62, 17589), (Start: 72 @17610 has 1 MA's), (90, 17649), (129, 17718), (130, 17727), (131, 17730), (139, 17748), (149, 17781), (152, 17796), (167, 17844), (200, 17955), (201, 17958), (213, 17988), (216, 18000), (217, 18003), (233, 18081), (240, 18105), (253, 18171), (262, 18216), (271, 18246), (273, 18252), (274, 18270), (283, 18294), (285, 18303), (297, 18336), (299, 18342), (306, 18372), (322, 18411), (325, 18423), (328, 18432), (332, 18447), (333, 18450), (355, 18561), (356, 18564), (357, 18573), (358, 18579), (362, 18594), (364, 18597), (372, 18618), (382, 18648), (385, 18660), (391, 18693), (412, 18804), (413, 18807), (421, 18834), (423, 18840), (437, 18894), (438, 18897), (465, 18984), (467, 18999), (469, 19011), (470, 19014), (481, 19080), (486, 19104), (489, 19125), (491, 19134), (506, 19194), (507, 19197), (515, 19233), (518, 19251), (523, 19263), (525, 19272), (533, 19299), (550, 19368), (553, 19386), (556, 19395), (558, 19407), (565, 19443), (570, 19473), (576, 19494), (583, 19518), (587, 19554), (595, 19608), (610, 19668), (617, 19710), (634, 19788), (646, 19845), (650, 19869), (658, 19923), (664, 19971), (675, 20013), (677, 20037), (678, 20040),

Gene: Elite2014_25 Start: 21491, Stop: 23887, Start Num: 99

Candidate Starts for Elite2014_25:

(Start: 99 @21491 has 127 MA's), (164, 21668), (170, 21689), (225, 21836), (261, 22010), (271, 22043), (277, 22079), (306, 22172), (328, 22232), (333, 22250), (359, 22382), (374, 22427), (404, 22559), (412, 22604), (433, 22664), (464, 22778), (467, 22799), (475, 22838), (478, 22859), (480, 22874), (513, 23024), (515, 23030), (518, 23048), (534, 23102), (553, 23186), (574, 23279), (628, 23525), (664, 23741), (678, 23825), (684, 23858),

Gene: Elph10_27 Start: 21754, Stop: 24150, Start Num: 99

Candidate Starts for Elph10_27:

(Start: 99 @21754 has 127 MA's), (164, 21931), (170, 21952), (225, 22099), (261, 22273), (271, 22306), (277, 22342), (306, 22435), (328, 22495), (333, 22513), (359, 22645), (374, 22690), (404, 22822), (412, 22867), (433, 22927), (464, 23041), (467, 23062), (475, 23101), (478, 23122), (480, 23137), (513, 23287), (515, 23293), (518, 23311), (534, 23365), (553, 23449), (574, 23542), (628, 23788), (664, 24004), (678, 24088), (684, 24121),

Gene: Emerson_27 Start: 20872, Stop: 23304, Start Num: 82

Candidate Starts for Emerson_27:

(Start: 82 @20872 has 96 MA's), (125, 20971), (210, 21232), (217, 21253), (260, 21460), (270, 21493), (275, 21523), (301, 21595), (306, 21619), (323, 21664), (355, 21817), (363, 21862), (366, 21874), (370, 21883), (385, 21934), (421, 22114), (426, 22129), (441, 22198), (445, 22210), (461, 22273), (470, 22315), (478, 22354), (479, 22360), (480, 22369), (484, 22390), (496, 22450), (525, 22567), (536, 22609), (555, 22681), (557, 22690), (562, 22711), (575, 22783), (580, 22804), (595, 22900), (609, 22963), (643, 23128), (665, 23275),

Gene: EmiMonkey_18 Start: 17352, Stop: 19889, Start Num: 53

Candidate Starts for EmiMonkey_18:

(Start: 53 @17352 has 233 MA's), (62, 17373), (Start: 72 @17394 has 1 MA's), (90, 17433), (129, 17502), (130, 17511), (131, 17514), (139, 17532), (152, 17580), (198, 17733), (201, 17742), (217, 17787), (239, 17886), (240, 17889), (253, 17955), (271, 18030), (273, 18036), (274, 18054), (283, 18078), (284, 18084), (285, 18087), (297, 18120), (299, 18126), (306, 18156), (316, 18177), (325, 18207), (328, 18216), (332, 18231), (333, 18234), (355, 18345), (356, 18348), (357, 18357), (358, 18363), (362, 18378), (364, 18381), (372, 18402), (382, 18432), (385, 18444), (391, 18477), (412, 18588), (413, 18591), (421, 18618), (423, 18624), (437, 18678), (438, 18681), (467, 18783), (469, 18795), (470, 18798), (481, 18864), (486, 18888), (489, 18909), (491, 18918), (506, 18978), (507, 18981), (515, 19017), (518, 19035), (523, 19047), (525, 19056), (533, 19083), (549, 19140), (550, 19152), (553, 19170), (556, 19179), (558, 19191), (565, 19227), (570, 19257), (574, 19266), (576, 19278), (587, 19338), (595, 19392), (610, 19452), (617, 19494), (646, 19629), (650, 19653), (658, 19707), (664, 19755), (675, 19797), (677, 19821), (678, 19824),

Gene: Emma_18 Start: 17448, Stop: 19985, Start Num: 53

Candidate Starts for Emma_18:

(47, 17436), (Start: 53 @17448 has 233 MA's), (62, 17469), (Start: 72 @17490 has 1 MA's), (90, 17529), (129, 17598), (130, 17607), (131, 17610), (139, 17628), (149, 17661), (152, 17676), (167, 17724), (200, 17835), (201, 17838), (213, 17868), (217, 17883), (233, 17961), (240, 17985), (253, 18051), (262, 18096), (271, 18126), (273, 18132), (274, 18150), (283, 18174), (285, 18183), (297, 18216), (299, 18222), (306, 18252), (322, 18291), (325, 18303), (328, 18312), (332, 18327), (333, 18330), (355, 18441), (356, 18444), (357, 18453), (358, 18459), (362, 18474), (364, 18477), (372, 18498), (382, 18528), (385, 18540), (391, 18573), (404, 18639), (412, 18684), (413, 18687), (421, 18714), (423, 18720), (437, 18774), (438, 18777), (465, 18864), (467, 18879), (469, 18891), (470, 18894), (481, 18960), (486, 18984), (489, 19005), (491, 19014), (502, 19056), (506, 19074), (507, 19077), (515, 19113), (518, 19131), (523, 19143), (525, 19152), (533, 19179), (550, 19248), (553, 19266), (556, 19275), (558, 19287), (565, 19323), (570, 19353), (576, 19374), (583, 19398), (587, 19434), (595, 19488), (610, 19548), (617, 19590), (646, 19725), (650, 19749), (658, 19803), (664, 19851), (675, 19893), (677, 19917), (678, 19920),

Gene: Emmaloid_19 Start: 17189, Stop: 19726, Start Num: 53

Candidate Starts for Emmaloid_19:

(Start: 53 @17189 has 233 MA's), (62, 17210), (Start: 72 @17231 has 1 MA's), (90, 17270), (129, 17339), (130, 17348), (131, 17351), (139, 17369), (152, 17417), (198, 17570), (201, 17579), (217, 17624), (239, 17723), (240, 17726), (253, 17792), (271, 17867), (273, 17873), (274, 17891), (283, 17915), (284, 17921), (285, 17924), (297, 17957), (299, 17963), (306, 17993), (316, 18014), (325, 18044), (328, 18053), (332, 18068), (333, 18071), (355, 18182), (356, 18185), (357, 18194), (358, 18200), (362, 18215), (364, 18218), (372, 18239), (382, 18269), (385, 18281), (391, 18314), (412, 18425), (413, 18428), (421, 18455), (423, 18461), (437, 18515), (438, 18518), (467, 18620), (469, 18632), (470, 18635), (481, 18701), (486, 18725), (489, 18746), (491, 18755), (506, 18815), (507, 18818), (515, 18854), (518, 18872), (523, 18884), (525, 18893), (533, 18920), (549, 18977), (550, 18989), (553, 19007), (556, 19016), (558, 19028), (565, 19064), (570, 19094), (574, 19103), (576, 19115), (587, 19175), (595, 19229), (610, 19289), (617, 19331), (646, 19466), (650, 19490), (658, 19544), (664, 19592), (675, 19634), (677, 19658), (678, 19661),

Gene: Emmina_27 Start: 22115, Stop: 24511, Start Num: 99

Candidate Starts for Emmina_27:

(Start: 99 @22115 has 127 MA's), (164, 22292), (170, 22313), (225, 22460), (261, 22634), (271, 22667), (277, 22703), (306, 22796), (328, 22856), (333, 22874), (359, 23006), (374, 23051), (404, 23183), (412, 23228), (433, 23288), (464, 23402), (467, 23423), (475, 23462), (478, 23483), (480, 23498), (513, 23648), (515, 23654), (518, 23672), (534, 23726), (553, 23810), (574, 23903), (628, 24149), (664, 24365), (678, 24449), (684, 24482),

Gene: Empress_19 Start: 18749, Stop: 21286, Start Num: 53

Candidate Starts for Empress_19:

(47, 18737), (Start: 53 @18749 has 233 MA's), (62, 18770), (Start: 72 @18791 has 1 MA's), (90, 18830), (129, 18899), (130, 18908), (131, 18911), (139, 18929), (152, 18977), (167, 19025), (200, 19136), (201, 19139), (217, 19184), (233, 19262), (240, 19286), (253, 19352), (262, 19397), (271, 19427), (273, 19433), (274, 19451), (283, 19475), (285, 19484), (297, 19517), (299, 19523), (306, 19553), (322, 19592), (325, 19604), (328, 19613), (332, 19628), (333, 19631), (355, 19742), (356, 19745), (357, 19754), (358, 19760), (362, 19775), (364, 19778), (372, 19799), (382, 19829), (385, 19841), (391, 19874), (412, 19985), (413, 19988), (421, 20015), (423, 20021), (437, 20075), (438, 20078), (467, 20180), (469, 20192), (470, 20195), (481, 20261), (486, 20285), (489, 20306), (491, 20315), (506, 20375), (507, 20378), (515, 20414), (518, 20432), (525, 20453), (533, 20480), (549, 20537), (550, 20549), (553, 20567), (556, 20576), (558, 20588), (565, 20624), (570, 20654), (574, 20663), (576, 20675), (587, 20735), (595, 20789), (610, 20849), (617, 20891), (646, 21026), (650, 21050), (658, 21104), (664, 21152), (672, 21173), (677, 21218), (678, 21221),

Gene: Enby_19 Start: 17219, Stop: 19756, Start Num: 53

Candidate Starts for Enby_19:

(47, 17207), (Start: 53 @17219 has 233 MA's), (62, 17240), (Start: 72 @17261 has 1 MA's), (90, 17300), (129, 17369), (130, 17378), (131, 17381), (139, 17399), (149, 17432), (152, 17447), (167, 17495), (198, 17600), (201, 17609), (216, 17651), (217, 17654), (233, 17732), (240, 17756), (253, 17822), (262, 17867), (271, 17897), (273, 17903), (274, 17921), (283, 17945), (285, 17954), (297, 17987), (299, 17993), (306, 18023), (322, 18062), (325, 18074), (328, 18083), (332, 18098), (333, 18101), (355, 18212), (357, 18224), (358, 18230), (362, 18245), (364, 18248), (372, 18269), (382, 18299), (385, 18311), (391, 18344), (404, 18410), (412, 18455), (413, 18458), (421, 18485), (423, 18491), (437, 18545), (438, 18548), (449, 18575), (467, 18650), (469, 18662), (470, 18665), (481, 18731), (486, 18755), (491, 18785), (502, 18827), (506, 18845), (507, 18848), (515, 18884), (518, 18902), (525, 18923), (533, 18950), (550, 19019), (553, 19037), (556, 19046), (558, 19058), (565, 19094), (570, 19124), (574, 19133), (576, 19145), (587, 19205), (595, 19259), (610, 19319), (617, 19361), (634, 19439), (646, 19496), (650, 19520), (658, 19574), (664, 19622), (675, 19664), (677, 19688), (678, 19691),

Gene: EniyanLRS_40 Start: 28045, Stop: 30612, Start Num: 54

Candidate Starts for EniyanLRS_40:

(Start: 54 @28045 has 6 MA's), (83, 28114), (135, 28237), (138, 28243), (139, 28246), (146, 28270), (151, 28291), (198, 28447), (199, 28453), (201, 28459), (210, 28489), (211, 28495), (217, 28516), (219, 28525), (232, 28585), (248, 28663), (273, 28762), (278, 28795), (284, 28810), (285, 28813), (299, 28852), (316, 28903), (322, 28921), (328, 28942), (329, 28948), (340, 29002), (355, 29071), (361, 29095), (367, 29116), (374, 29137), (378, 29146), (385, 29167), (391, 29200), (392, 29203), (401, 29254), (404, 29266), (419, 29332), (424, 29350), (434, 29389), (467, 29506), (476, 29551), (485, 29608), (489, 29632), (491, 29641), (494, 29659), (506, 29704), (513, 29737), (520, 29773), (563, 29947), (565, 29965), (566, 29971), (580, 30028), (645, 30352), (647, 30370), (656, 30421), (666, 30484), (677, 30559),

Gene: Enzomatic_20 Start: 17446, Stop: 19983, Start Num: 53

Candidate Starts for Enzomatic_20:

(Start: 53 @17446 has 233 MA's), (62, 17467), (Start: 72 @17488 has 1 MA's), (89, 17524), (90, 17527), (129, 17596), (130, 17605), (131, 17608), (139, 17626), (149, 17659), (152, 17674), (167, 17722), (198, 17827), (200, 17833), (201, 17836), (216, 17878), (217, 17881), (240, 17983), (253, 18049), (262, 18094), (271, 18124), (273, 18130), (274, 18148), (283, 18172), (285, 18181), (297, 18214), (299, 18220), (316, 18271), (322, 18289), (325, 18301), (328, 18310), (332, 18325), (334, 18331), (355, 18439), (357, 18451), (358, 18457), (362, 18472), (364, 18475), (372, 18496), (382, 18526), (385, 18538), (391, 18571), (404, 18637), (412, 18682), (413, 18685), (421, 18712), (423, 18718), (437, 18772), (438, 18775), (465, 18862), (467, 18877), (469, 18889), (470, 18892), (481, 18958), (489, 19003), (491, 19012), (506, 19072), (507, 19075), (515, 19111), (518, 19129), (523,

19141), (525, 19150), (533, 19177), (550, 19246), (553, 19264), (556, 19273), (558, 19285), (565, 19321), (570, 19351), (576, 19372), (583, 19396), (587, 19432), (595, 19486), (610, 19546), (617, 19588), (634, 19666), (646, 19723), (650, 19747), (658, 19801), (664, 19849), (675, 19891), (677, 19915), (678, 19918),

Gene: Eradicator_18 Start: 17363, Stop: 19915, Start Num: 53

Candidate Starts for Eradicator_18:

(Start: 53 @17363 has 233 MA's), (62, 17384), (101, 17453), (129, 17513), (130, 17522), (131, 17525), (149, 17576), (152, 17591), (167, 17639), (200, 17750), (201, 17753), (214, 17786), (216, 17795), (217, 17798), (233, 17876), (247, 17942), (254, 17975), (267, 18029), (271, 18041), (283, 18089), (285, 18098), (289, 18107), (300, 18140), (316, 18182), (321, 18197), (329, 18227), (331, 18233), (332, 18236), (333, 18239), (338, 18266), (342, 18287), (349, 18320), (357, 18362), (358, 18368), (359, 18371), (362, 18383), (364, 18386), (373, 18413), (382, 18437), (385, 18449), (391, 18482), (396, 18503), (409, 18575), (413, 18596), (443, 18707), (453, 18731), (454, 18734), (460, 18758), (467, 18788), (472, 18812), (478, 18848), (479, 18854), (480, 18863), (498, 18953), (502, 18977), (504, 18992), (513, 19034), (515, 19040), (527, 19085), (551, 19181), (553, 19196), (556, 19205), (561, 19229), (574, 19292), (595, 19418), (642, 19634), (650, 19679), (664, 19781), (681, 19859),

Gene: Estave1_18 Start: 17517, Stop: 20006, Start Num: 53

Candidate Starts for Estave1_18:

(Start: 53 @17517 has 233 MA's), (62, 17538), (Start: 72 @17559 has 1 MA's), (96, 17598), (129, 17667), (130, 17676), (131, 17679), (139, 17697), (149, 17730), (152, 17745), (167, 17793), (191, 17847), (201, 17883), (204, 17892), (215, 17910), (217, 17922), (220, 17934), (227, 17958), (228, 17961), (259, 18105), (262, 18114), (271, 18138), (274, 18162), (283, 18186), (284, 18192), (292, 18213), (299, 18234), (306, 18264), (319, 18294), (325, 18315), (346, 18408), (349, 18423), (350, 18432), (355, 18453), (356, 18456), (382, 18540), (383, 18543), (385, 18552), (390, 18579), (392, 18588), (399, 18627), (402, 18648), (404, 18651), (411, 18687), (415, 18708), (437, 18786), (438, 18789), (456, 18843), (469, 18903), (486, 18996), (489, 19017), (501, 19053), (511, 19107), (513, 19116), (532, 19194), (536, 19212), (545, 19248), (547, 19251), (550, 19269), (551, 19272), (553, 19287), (565, 19344), (568, 19356), (587, 19452), (600, 19539), (612, 19587), (615, 19611), (623, 19638), (628, 19647), (633, 19686), (641, 19725), (646, 19749), (649, 19770), (664, 19866), (672, 19887), (681, 19950), (684, 19977), (685, 19986),

Gene: Eureka_26 Start: 22269, Stop: 24665, Start Num: 99

Candidate Starts for Eureka_26:

(Start: 99 @22269 has 127 MA's), (164, 22446), (170, 22467), (225, 22614), (254, 22755), (261, 22788), (271, 22821), (277, 22857), (306, 22950), (328, 23010), (333, 23028), (349, 23109), (404, 23337), (412, 23382), (467, 23577), (468, 23583), (470, 23592), (478, 23637), (480, 23652), (515, 23808), (518, 23826), (521, 23835), (536, 23889), (553, 23964), (554, 23967), (594, 24177), (597, 24189), (628, 24303), (664, 24519), (678, 24603), (682, 24627), (684, 24636),

Gene: FairyPath_26 Start: 22481, Stop: 24877, Start Num: 99

Candidate Starts for FairyPath_26:

(Start: 99 @22481 has 127 MA's), (164, 22658), (170, 22679), (225, 22826), (254, 22967), (261, 23000), (271, 23033), (277, 23069), (306, 23162), (328, 23222), (333, 23240), (367, 23396), (374, 23417), (401, 23537), (404, 23549), (412, 23594), (467, 23789), (468, 23795), (470, 23804), (478, 23849), (480, 23864), (515, 24020), (518, 24038), (521, 24047), (536, 24101), (553, 24176), (554, 24179), (594, 24389), (597, 24401), (628, 24515), (664, 24731), (678, 24815), (682, 24839), (684, 24848),

Gene: Familton_59 Start: 36102, Stop: 38612, Start Num: 63

Candidate Starts for Familton_59:

(Start: 63 @36102 has 33 MA's), (81, 36135), (111, 36204), (112, 36207), (121, 36231), (131, 36255), (141, 36279), (149, 36312), (206, 36519), (209, 36531), (210, 36534), (244, 36681), (247, 36711), (253, 36735), (262, 36765), (264, 36768), (271, 36795), (274, 36819), (284, 36849), (302, 36906), (307, 36930), (322, 36966), (325, 36978), (332, 37002), (333, 37005), (340, 37047), (362, 37143), (364, 37146), (430, 37401), (467, 37545), (478, 37605), (488, 37677), (489, 37680), (512, 37776), (553, 37950), (558, 37971), (579, 38064), (582, 38076), (595, 38166), (613, 38241), (633, 38286), (670, 38487), (676, 38541), (681, 38556),

Gene: Fancypants_18 Start: 17408, Stop: 19945, Start Num: 53

Candidate Starts for Fancypants_18:

(47, 17396), (Start: 53 @17408 has 233 MA's), (62, 17429), (Start: 72 @17450 has 1 MA's), (90, 17489), (129, 17558), (130, 17567), (131, 17570), (139, 17588), (149, 17621), (152, 17636), (167, 17684), (200, 17795), (201, 17798), (213, 17828), (216, 17840), (217, 17843), (233, 17921), (240, 17945), (253, 18011), (262, 18056), (271, 18086), (273, 18092), (274, 18110), (283, 18134), (285, 18143), (297, 18176), (299, 18182), (306, 18212), (322, 18251), (325, 18263), (328, 18272), (332, 18287), (333, 18290), (355, 18401), (356, 18404), (357, 18413), (358, 18419), (362, 18434), (364, 18437), (372, 18458), (382, 18488), (385, 18500), (391, 18533), (412, 18644), (413, 18647), (421, 18674), (423, 18680), (437, 18734), (438, 18737), (467, 18839), (469, 18851), (470, 18854), (481, 18920), (486, 18944), (489, 18965), (491, 18974), (506, 19034), (507, 19037), (508, 19049), (515, 19073), (518, 19091), (523, 19103), (525, 19112), (533, 19139), (550, 19208), (553, 19226), (556, 19235), (558, 19247), (565, 19283), (570, 19313), (576, 19334), (583, 19358), (587, 19394), (595, 19448), (610, 19508), (617, 19550), (634, 19628), (646, 19685), (650, 19709), (658, 19763), (664, 19811), (675, 19853), (677, 19877), (678, 19880),

Gene: Fastidio_18 Start: 17365, Stop: 19902, Start Num: 53

Candidate Starts for Fastidio_18:

(47, 17353), (Start: 53 @17365 has 233 MA's), (62, 17386), (Start: 72 @17407 has 1 MA's), (90, 17446), (129, 17515), (130, 17524), (131, 17527), (139, 17545), (149, 17578), (152, 17593), (167, 17641), (200, 17752), (201, 17755), (213, 17785), (216, 17797), (217, 17800), (233, 17878), (240, 17902), (253, 17968), (262, 18013), (271, 18043), (273, 18049), (274, 18067), (283, 18091), (285, 18100), (297, 18133), (299, 18139), (306, 18169), (322, 18208), (325, 18220), (328, 18229), (332, 18244), (333, 18247), (355, 18358), (356, 18361), (357, 18370), (358, 18376), (362, 18391), (364, 18394), (372, 18415), (382, 18445), (385, 18457), (391, 18490), (412, 18601), (413, 18604), (421, 18631), (423, 18637), (437, 18691), (438, 18694), (465, 18781), (467, 18796), (469, 18808), (470, 18811), (481, 18877), (485, 18898), (486, 18901), (489, 18922), (502, 18973), (506, 18991), (507, 18994), (515, 19030), (518, 19048), (523, 19060), (525, 19069), (549, 19153), (550, 19165), (553, 19183), (556, 19192), (558, 19204), (565, 19240), (570, 19270), (583, 19315), (587, 19351), (595, 19405), (617, 19507), (634, 19585), (646, 19642), (650, 19666), (658, 19720), (664, 19768), (675, 19810), (677, 19834), (678, 19837),

Gene: Filch_27 Start: 22042, Stop: 24438, Start Num: 99

Candidate Starts for Filch_27:

(Start: 99 @22042 has 127 MA's), (164, 22219), (170, 22240), (225, 22387), (254, 22528), (261, 22561), (271, 22594), (277, 22630), (306, 22723), (328, 22783), (333, 22801), (359, 22933), (374, 22978), (404, 23110), (412, 23155), (433, 23215), (464, 23329), (467, 23350), (475, 23389), (478, 23410), (480, 23425), (513, 23575), (515, 23581), (518, 23599), (534, 23653), (553, 23737), (574, 23830), (628, 24076), (664, 24292), (678, 24376), (684, 24409),

Gene: Filuzino_18 Start: 17390, Stop: 19927, Start Num: 53

Candidate Starts for Filuzino_18:

(47, 17378), (Start: 53 @17390 has 233 MA's), (62, 17411), (Start: 72 @17432 has 1 MA's), (90, 17471), (129, 17540), (130, 17549), (131, 17552), (139, 17570), (149, 17603), (152, 17618), (167, 17666), (200, 17777), (201, 17780), (213, 17810), (217, 17825), (233, 17903), (240, 17927), (253,

17993), (262, 18038), (271, 18068), (273, 18074), (274, 18092), (283, 18116), (285, 18125), (297, 18158), (299, 18164), (306, 18194), (322, 18233), (325, 18245), (328, 18254), (332, 18269), (333, 18272), (355, 18383), (356, 18386), (357, 18395), (358, 18401), (362, 18416), (364, 18419), (372, 18440), (382, 18470), (385, 18482), (391, 18515), (412, 18626), (413, 18629), (421, 18656), (423, 18662), (437, 18716), (438, 18719), (467, 18821), (469, 18833), (470, 18836), (481, 18902), (486, 18926), (489, 18947), (491, 18956), (506, 19016), (507, 19019), (515, 19055), (518, 19073), (523, 19085), (525, 19094), (533, 19121), (550, 19190), (553, 19208), (556, 19217), (558, 19229), (565, 19265), (570, 19295), (576, 19316), (583, 19340), (587, 19376), (595, 19430), (610, 19490), (617, 19532), (634, 19610), (646, 19667), (650, 19691), (658, 19745), (664, 19793), (675, 19835), (677, 19859), (678, 19862),

Gene: FireRed_26 Start: 22312, Stop: 24708, Start Num: 99

Candidate Starts for FireRed_26:

(Start: 99 @22312 has 127 MA's), (164, 22489), (170, 22510), (225, 22657), (254, 22798), (261, 22831), (271, 22864), (277, 22900), (306, 22993), (328, 23053), (333, 23071), (359, 23203), (374, 23248), (404, 23380), (412, 23425), (433, 23485), (464, 23599), (467, 23620), (475, 23659), (478, 23680), (480, 23695), (513, 23845), (515, 23851), (518, 23869), (534, 23923), (553, 24007), (574, 24100), (628, 24346), (664, 24562), (678, 24646), (684, 24679),

Gene: Firecracker_59 Start: 36292, Stop: 38802, Start Num: 63

Candidate Starts for Firecracker_59:

(Start: 63 @36292 has 33 MA's), (81, 36325), (111, 36394), (112, 36397), (121, 36421), (131, 36445), (141, 36469), (149, 36502), (206, 36709), (209, 36721), (210, 36724), (244, 36871), (247, 36901), (253, 36925), (262, 36955), (264, 36958), (271, 36985), (274, 37009), (284, 37039), (302, 37096), (322, 37156), (325, 37168), (332, 37192), (333, 37195), (340, 37237), (362, 37333), (364, 37336), (412, 37540), (430, 37591), (467, 37735), (478, 37795), (488, 37867), (489, 37870), (512, 37966), (553, 38140), (558, 38161), (579, 38254), (582, 38266), (595, 38356), (613, 38431), (633, 38476), (670, 38677), (676, 38731), (681, 38746),

Gene: Firehouse51_19 Start: 17957, Stop: 20494, Start Num: 53

Candidate Starts for Firehouse51_19:

(47, 17945), (Start: 53 @17957 has 233 MA's), (62, 17978), (Start: 72 @17999 has 1 MA's), (90, 18038), (129, 18107), (130, 18116), (131, 18119), (139, 18137), (149, 18170), (152, 18185), (167, 18233), (200, 18344), (201, 18347), (213, 18377), (216, 18389), (217, 18392), (233, 18470), (240, 18494), (253, 18560), (262, 18605), (271, 18635), (273, 18641), (274, 18659), (283, 18683), (285, 18692), (297, 18725), (299, 18731), (306, 18761), (322, 18800), (325, 18812), (328, 18821), (332, 18836), (333, 18839), (355, 18950), (356, 18953), (357, 18962), (358, 18968), (362, 18983), (364, 18986), (372, 19007), (382, 19037), (385, 19049), (391, 19082), (412, 19193), (413, 19196), (421, 19223), (423, 19229), (437, 19283), (438, 19286), (467, 19388), (469, 19400), (470, 19403), (481, 19469), (486, 19493), (489, 19514), (491, 19523), (506, 19583), (507, 19586), (515, 19622), (518, 19640), (523, 19652), (525, 19661), (533, 19688), (550, 19757), (553, 19775), (556, 19784), (558, 19796), (565, 19832), (570, 19862), (576, 19883), (583, 19907), (587, 19943), (595, 19997), (610, 20057), (617, 20099), (634, 20177), (646, 20234), (650, 20258), (658, 20312), (664, 20360), (675, 20402), (677, 20426), (678, 20429),

Gene: FlagStaff_22 Start: 20643, Stop: 23102, Start Num: 33

Candidate Starts for FlagStaff_22:

(Start: 33 @20643 has 9 MA's), (46, 20703), (65, 20751), (155, 20946), (239, 21234), (261, 21336), (270, 21360), (327, 21504), (331, 21519), (349, 21600), (365, 21675), (385, 21732), (389, 21756), (397, 21792), (437, 21978), (442, 21999), (456, 22047), (459, 22062), (473, 22128), (480, 22170), (500, 22263), (503, 22281), (518, 22347), (537, 22428), (559, 22494), (587, 22647), (602, 22737), (614, 22806), (625, 22842), (645, 22935), (659, 23040), (662, 23076),

Gene: Flathead_19 Start: 17265, Stop: 19802, Start Num: 53

Candidate Starts for Flathead_19:

(47, 17253), (Start: 53 @17265 has 233 MA's), (62, 17286), (Start: 72 @17307 has 1 MA's), (90, 17346), (129, 17415), (130, 17424), (131, 17427), (139, 17445), (149, 17478), (152, 17493), (167, 17541), (200, 17652), (201, 17655), (213, 17685), (216, 17697), (217, 17700), (233, 17778), (240, 17802), (253, 17868), (262, 17913), (271, 17943), (273, 17949), (274, 17967), (283, 17991), (285, 18000), (297, 18033), (299, 18039), (306, 18069), (322, 18108), (325, 18120), (328, 18129), (332, 18144), (333, 18147), (355, 18258), (356, 18261), (357, 18270), (358, 18276), (362, 18291), (364, 18294), (372, 18315), (382, 18345), (385, 18357), (391, 18390), (404, 18456), (412, 18501), (413, 18504), (421, 18531), (423, 18537), (437, 18591), (438, 18594), (465, 18681), (467, 18696), (469, 18708), (470, 18711), (481, 18777), (486, 18801), (489, 18822), (491, 18831), (506, 18891), (507, 18894), (515, 18930), (518, 18948), (523, 18960), (525, 18969), (533, 18996), (550, 19065), (553, 19083), (556, 19092), (558, 19104), (565, 19140), (570, 19170), (576, 19191), (583, 19215), (587, 19251), (595, 19305), (610, 19365), (617, 19407), (646, 19542), (650, 19566), (658, 19620), (664, 19668), (675, 19710), (677, 19734), (678, 19737),

Gene: Florinda_18 Start: 17419, Stop: 19956, Start Num: 53

Candidate Starts for Florinda_18:

(Start: 53 @17419 has 233 MA's), (62, 17440), (Start: 72 @17461 has 1 MA's), (90, 17500), (129, 17569), (130, 17578), (131, 17581), (139, 17599), (149, 17632), (152, 17647), (167, 17695), (200, 17806), (201, 17809), (213, 17839), (217, 17854), (233, 17932), (240, 17956), (253, 18022), (262, 18067), (271, 18097), (273, 18103), (274, 18121), (283, 18145), (285, 18154), (297, 18187), (299, 18193), (306, 18223), (322, 18262), (328, 18283), (332, 18298), (333, 18301), (356, 18415), (357, 18424), (358, 18430), (364, 18448), (372, 18469), (382, 18499), (385, 18511), (391, 18544), (412, 18655), (413, 18658), (421, 18685), (423, 18691), (437, 18745), (438, 18748), (465, 18835), (467, 18850), (470, 18865), (486, 18955), (489, 18976), (491, 18985), (506, 19045), (507, 19048), (513, 19078), (518, 19102), (525, 19123), (550, 19219), (553, 19237), (556, 19246), (558, 19258), (565, 19294), (570, 19324), (576, 19345), (583, 19369), (587, 19405), (595, 19459), (610, 19519), (617, 19561), (634, 19639), (646, 19696), (650, 19720), (658, 19774), (664, 19822), (675, 19864), (677, 19888), (678, 19891),

Gene: Flypotenuse_24 Start: 21900, Stop: 24296, Start Num: 99

Candidate Starts for Flypotenuse_24:

(Start: 99 @21900 has 127 MA's), (164, 22077), (170, 22098), (225, 22245), (254, 22386), (261, 22419), (271, 22452), (277, 22488), (306, 22581), (328, 22641), (333, 22659), (359, 22791), (404, 22968), (412, 23013), (464, 23187), (467, 23208), (475, 23247), (478, 23268), (480, 23283), (515, 23439), (518, 23457), (534, 23511), (553, 23595), (620, 23919), (664, 24150), (678, 24234), (684, 24267),

Gene: FoghornLeghorn_25 Start: 21788, Stop: 24184, Start Num: 99

Candidate Starts for FoghornLeghorn_25:

(Start: 99 @21788 has 127 MA's), (164, 21965), (170, 21986), (225, 22133), (254, 22274), (261, 22307), (271, 22340), (277, 22376), (306, 22469), (328, 22529), (333, 22547), (359, 22679), (374, 22724), (404, 22856), (412, 22901), (464, 23075), (467, 23096), (475, 23135), (478, 23156), (480, 23171), (515, 23327), (518, 23345), (534, 23399), (553, 23483), (574, 23576), (628, 23822), (664, 24038), (678, 24122), (684, 24155),

Gene: ForDig_26 Start: 27555, Stop: 30056, Start Num: 38

Candidate Starts for ForDig_26:

(Start: 38 @27555 has 6 MA's), (45, 27576), (51, 27612), (77, 27669), (131, 27789), (137, 27807), (158, 27879), (161, 27885), (177, 27939), (191, 27975), (239, 28158), (248, 28203), (255, 28242), (272, 28296), (296, 28344), (313, 28401), (326, 28437), (331, 28455), (342, 28503), (359, 28587), (371, 28623), (382, 28653), (389, 28689), (393, 28707), (437, 28914), (439, 28926), (442, 28935),

(459, 29004), (461, 29010), (462, 29013), (465, 29022), (471, 29055), (478, 29097), (480, 29112), (495, 29193), (500, 29205), (503, 29223), (506, 29229), (508, 29244), (510, 29250), (530, 29331), (559, 29436), (572, 29508), (598, 29667), (659, 29988),

Gene: FoulBall_58 Start: 36096, Stop: 38606, Start Num: 63

Candidate Starts for FoulBall_58:

(Start: 63 @36096 has 33 MA's), (81, 36129), (111, 36198), (112, 36201), (121, 36225), (131, 36249), (141, 36273), (149, 36306), (206, 36513), (209, 36525), (210, 36528), (244, 36675), (247, 36705), (253, 36729), (262, 36759), (264, 36762), (271, 36789), (274, 36813), (284, 36843), (302, 36900), (307, 36924), (322, 36960), (325, 36972), (332, 36996), (333, 36999), (340, 37041), (362, 37137), (364, 37140), (430, 37395), (467, 37539), (478, 37599), (488, 37671), (489, 37674), (512, 37770), (553, 37944), (558, 37965), (579, 38058), (582, 38070), (595, 38160), (613, 38235), (633, 38280), (670, 38481), (676, 38535), (681, 38550),

Gene: Frankie_19 Start: 17503, Stop: 20040, Start Num: 53

Candidate Starts for Frankie_19:

(Start: 53 @17503 has 233 MA's), (62, 17524), (Start: 72 @17545 has 1 MA's), (90, 17584), (129, 17653), (130, 17662), (131, 17665), (139, 17683), (149, 17716), (152, 17731), (167, 17779), (200, 17890), (201, 17893), (213, 17923), (217, 17938), (233, 18016), (240, 18040), (253, 18106), (262, 18151), (271, 18181), (273, 18187), (274, 18205), (283, 18229), (285, 18238), (297, 18271), (299, 18277), (306, 18307), (322, 18346), (328, 18367), (332, 18382), (334, 18388), (364, 18532), (372, 18553), (382, 18583), (385, 18595), (391, 18628), (402, 18691), (404, 18694), (421, 18769), (423, 18775), (437, 18829), (438, 18832), (449, 18859), (450, 18868), (467, 18934), (469, 18946), (470, 18949), (481, 19015), (485, 19036), (486, 19039), (489, 19060), (502, 19111), (506, 19129), (507, 19132), (513, 19162), (518, 19186), (525, 19207), (534, 19240), (550, 19303), (553, 19321), (556, 19330), (558, 19342), (570, 19408), (574, 19417), (576, 19429), (610, 19603), (617, 19645), (634, 19723), (646, 19780), (650, 19804), (658, 19858), (664, 19906), (677, 19972), (678, 19975),

Gene: FreddyB_18 Start: 17407, Stop: 19959, Start Num: 53

Candidate Starts for FreddyB_18:

(Start: 53 @17407 has 233 MA's), (94, 17488), (129, 17557), (130, 17566), (131, 17569), (139, 17587), (152, 17635), (166, 17680), (200, 17794), (201, 17797), (205, 17809), (214, 17830), (216, 17839), (217, 17842), (228, 17890), (233, 17920), (247, 17986), (254, 18019), (262, 18055), (269, 18079), (284, 18139), (285, 18142), (292, 18160), (314, 18223), (316, 18226), (322, 18244), (328, 18265), (333, 18283), (338, 18310), (342, 18331), (349, 18364), (357, 18406), (358, 18412), (359, 18415), (364, 18430), (373, 18457), (382, 18481), (385, 18493), (391, 18526), (409, 18619), (437, 18727), (443, 18751), (453, 18775), (454, 18778), (460, 18802), (467, 18832), (472, 18856), (478, 18892), (479, 18898), (480, 18907), (485, 18934), (498, 18997), (502, 19021), (504, 19036), (513, 19078), (527, 19129), (551, 19225), (553, 19240), (556, 19249), (561, 19273), (574, 19336), (583, 19372), (642, 19678), (650, 19723), (664, 19825),

Gene: Fruitloop_18 Start: 17429, Stop: 19966, Start Num: 53

Candidate Starts for Fruitloop_18:

(47, 17417), (Start: 53 @17429 has 233 MA's), (62, 17450), (Start: 72 @17471 has 1 MA's), (90, 17510), (129, 17579), (130, 17588), (131, 17591), (139, 17609), (149, 17642), (152, 17657), (167, 17705), (200, 17816), (201, 17819), (213, 17849), (216, 17861), (217, 17864), (233, 17942), (240, 17966), (253, 18032), (262, 18077), (271, 18107), (273, 18113), (274, 18131), (283, 18155), (285, 18164), (297, 18197), (299, 18203), (306, 18233), (322, 18272), (325, 18284), (328, 18293), (332, 18308), (333, 18311), (355, 18422), (356, 18425), (357, 18434), (358, 18440), (362, 18455), (364, 18458), (372, 18479), (382, 18509), (385, 18521), (391, 18554), (412, 18665), (413, 18668), (421, 18695), (423, 18701), (437, 18755), (438, 18758), (465, 18845), (467, 18860), (469, 18872), (470, 18875), (481, 18941), (486, 18965), (489, 18986), (491, 18995), (506, 19055), (507, 19058), (515, 19094), (518, 19112), (523, 19124), (525, 19133), (533, 19160), (550, 19229), (553, 19247), (556,

19256), (558, 19268), (565, 19304), (570, 19334), (576, 19355), (583, 19379), (587, 19415), (595, 19469), (610, 19529), (617, 19571), (634, 19649), (646, 19706), (650, 19730), (658, 19784), (664, 19832), (675, 19874), (677, 19898), (678, 19901),

Gene: Funsized_34 Start: 32646, Stop: 35123, Start Num: 38

Candidate Starts for Funsized_34:

(Start: 38 @32646 has 6 MA's), (42, 32655), (65, 32742), (69, 32748), (87, 32778), (106, 32817), (108, 32820), (124, 32847), (126, 32850), (131, 32865), (137, 32883), (162, 32958), (183, 33021), (202, 33078), (213, 33105), (217, 33120), (218, 33123), (239, 33222), (270, 33354), (272, 33360), (280, 33384), (300, 33420), (310, 33459), (327, 33504), (331, 33519), (341, 33564), (349, 33600), (353, 33621), (377, 33708), (400, 33810), (421, 33909), (431, 33939), (437, 33975), (440, 33990), (442, 33996), (459, 34065), (461, 34071), (472, 34122), (500, 34263), (506, 34287), (514, 34323), (531, 34389), (540, 34434), (556, 34491), (559, 34506), (562, 34518), (580, 34611), (582, 34617), (583, 34620), (594, 34710), (597, 34722), (622, 34848), (645, 34953), (667, 35106),

Gene: GUmbie_18 Start: 17402, Stop: 19939, Start Num: 53

Candidate Starts for GUmbie_18:

(Start: 53 @17402 has 233 MA's), (62, 17423), (Start: 72 @17444 has 1 MA's), (90, 17483), (129, 17552), (130, 17561), (131, 17564), (139, 17582), (149, 17615), (152, 17630), (198, 17783), (201, 17792), (217, 17837), (239, 17936), (240, 17939), (253, 18005), (271, 18080), (273, 18086), (283, 18128), (284, 18134), (285, 18137), (297, 18170), (299, 18176), (306, 18206), (316, 18227), (325, 18257), (328, 18266), (332, 18281), (333, 18284), (355, 18395), (356, 18398), (357, 18407), (358, 18413), (362, 18428), (364, 18431), (372, 18452), (382, 18482), (385, 18494), (391, 18527), (412, 18638), (413, 18641), (421, 18668), (423, 18674), (437, 18728), (438, 18731), (465, 18818), (467, 18833), (469, 18845), (470, 18848), (481, 18914), (486, 18938), (489, 18959), (491, 18968), (502, 19010), (506, 19028), (507, 19031), (513, 19061), (518, 19085), (523, 19097), (525, 19106), (550, 19202), (553, 19220), (556, 19229), (558, 19241), (565, 19277), (570, 19307), (574, 19316), (576, 19328), (587, 19388), (595, 19442), (610, 19502), (617, 19544), (646, 19679), (650, 19703), (658, 19757), (664, 19805), (675, 19847), (677, 19871), (678, 19874),

Gene: Gage_28 Start: 22274, Stop: 24670, Start Num: 99

Candidate Starts for Gage_28:

(Start: 99 @22274 has 127 MA's), (164, 22451), (170, 22472), (225, 22619), (254, 22760), (261, 22793), (271, 22826), (277, 22862), (306, 22955), (328, 23015), (333, 23033), (359, 23165), (374, 23210), (404, 23342), (412, 23387), (433, 23447), (464, 23561), (467, 23582), (475, 23621), (478, 23642), (480, 23657), (513, 23807), (515, 23813), (518, 23831), (534, 23885), (553, 23969), (574, 24062), (628, 24308), (664, 24524), (678, 24608), (684, 24641),

Gene: Gaia_21 Start: 19931, Stop: 22501, Start Num: 43

Candidate Starts for Gaia_21:

(Start: 43 @19931 has 2 MA's), (71, 20021), (110, 20090), (115, 20099), (116, 20102), (140, 20156), (144, 20168), (161, 20216), (172, 20261), (195, 20333), (201, 20354), (208, 20375), (216, 20396), (217, 20399), (247, 20543), (254, 20576), (273, 20633), (285, 20684), (292, 20702), (325, 20798), (328, 20807), (329, 20813), (332, 20822), (333, 20825), (338, 20852), (342, 20873), (349, 20906), (350, 20915), (355, 20936), (357, 20948), (362, 20969), (382, 21023), (385, 21035), (391, 21068), (405, 21143), (411, 21170), (443, 21293), (454, 21320), (460, 21344), (467, 21374), (472, 21398), (479, 21440), (480, 21449), (504, 21578), (509, 21605), (523, 21656), (551, 21767), (553, 21782), (611, 22073), (646, 22241), (650, 22265), (675, 22409), (678, 22436), (680, 22442), (681, 22445),

Gene: Galactic_18 Start: 17394, Stop: 19931, Start Num: 53

Candidate Starts for Galactic_18:

(47, 17382), (Start: 53 @17394 has 233 MA's), (62, 17415), (Start: 72 @17436 has 1 MA's), (90, 17475), (129, 17544), (130, 17553), (131, 17556), (139, 17574), (149, 17607), (152, 17622), (167,

17670), (200, 17781), (201, 17784), (213, 17814), (217, 17829), (233, 17907), (240, 17931), (253, 17997), (262, 18042), (271, 18072), (273, 18078), (274, 18096), (283, 18120), (285, 18129), (297, 18162), (299, 18168), (306, 18198), (322, 18237), (325, 18249), (328, 18258), (332, 18273), (333, 18276), (355, 18387), (356, 18390), (357, 18399), (358, 18405), (362, 18420), (364, 18423), (372, 18444), (382, 18474), (385, 18486), (391, 18519), (412, 18630), (413, 18633), (421, 18660), (423, 18666), (437, 18720), (438, 18723), (467, 18825), (469, 18837), (470, 18840), (481, 18906), (486, 18930), (489, 18951), (491, 18960), (506, 19020), (507, 19023), (515, 19059), (518, 19077), (523, 19089), (525, 19098), (533, 19125), (550, 19194), (553, 19212), (556, 19221), (558, 19233), (565, 19269), (570, 19299), (576, 19320), (583, 19344), (587, 19380), (595, 19434), (610, 19494), (617, 19536), (634, 19614), (646, 19671), (650, 19695), (658, 19749), (664, 19797), (675, 19839), (677, 19863), (678, 19866),

Gene: Gandolph_18 Start: 17413, Stop: 19965, Start Num: 53

Candidate Starts for Gandolph_18:

(Start: 53 @17413 has 233 MA's), (94, 17494), (129, 17563), (130, 17572), (131, 17575), (139, 17593), (152, 17641), (166, 17686), (200, 17800), (201, 17803), (205, 17815), (214, 17836), (216, 17845), (217, 17848), (228, 17896), (233, 17926), (247, 17992), (254, 18025), (262, 18061), (269, 18085), (284, 18145), (285, 18148), (292, 18166), (314, 18229), (316, 18232), (322, 18250), (328, 18271), (333, 18289), (338, 18316), (342, 18337), (349, 18370), (357, 18412), (358, 18418), (359, 18421), (364, 18436), (373, 18463), (374, 18466), (382, 18487), (385, 18499), (391, 18532), (409, 18625), (437, 18733), (443, 18757), (449, 18763), (453, 18781), (454, 18784), (460, 18808), (467, 18838), (472, 18862), (478, 18898), (479, 18904), (480, 18913), (485, 18940), (498, 19003), (502, 19027), (504, 19042), (513, 19084), (527, 19135), (551, 19231), (553, 19246), (556, 19255), (561, 19279), (574, 19342), (583, 19378), (642, 19684), (650, 19729), (664, 19831),

Gene: Ganymede_28 Start: 20892, Stop: 23324, Start Num: 82

Candidate Starts for Ganymede_28:

(Start: 82 @20892 has 96 MA's), (125, 20991), (210, 21252), (217, 21273), (260, 21480), (270, 21513), (275, 21543), (301, 21615), (306, 21639), (323, 21684), (355, 21837), (363, 21882), (366, 21894), (370, 21903), (385, 21954), (421, 22134), (426, 22149), (441, 22218), (445, 22230), (461, 22293), (470, 22335), (478, 22374), (479, 22380), (480, 22389), (484, 22410), (496, 22470), (525, 22587), (536, 22629), (555, 22701), (557, 22710), (562, 22731), (575, 22803), (580, 22824), (595, 22920), (609, 22983), (628, 23067), (634, 23109), (643, 23148),

Gene: Gator_24 Start: 21899, Stop: 24295, Start Num: 99

Candidate Starts for Gator_24:

(Start: 99 @21899 has 127 MA's), (164, 22076), (170, 22097), (225, 22244), (254, 22385), (261, 22418), (271, 22451), (277, 22487), (306, 22580), (328, 22640), (333, 22658), (349, 22739), (404, 22967), (412, 23012), (467, 23207), (468, 23213), (470, 23222), (478, 23267), (480, 23282), (515, 23438), (518, 23456), (521, 23465), (536, 23519), (553, 23594), (554, 23597), (594, 23807), (597, 23819), (628, 23933), (664, 24149), (678, 24233), (682, 24257), (684, 24266),

Gene: Gemini_29 Start: 22791, Stop: 25187, Start Num: 99

Candidate Starts for Gemini_29:

(Start: 99 @22791 has 127 MA's), (164, 22968), (170, 22989), (225, 23136), (254, 23277), (261, 23310), (271, 23343), (277, 23379), (306, 23472), (328, 23532), (333, 23550), (359, 23682), (374, 23727), (404, 23859), (412, 23904), (433, 23964), (464, 24078), (467, 24099), (475, 24138), (478, 24159), (480, 24174), (513, 24324), (515, 24330), (518, 24348), (534, 24402), (553, 24486), (574, 24579), (628, 24825), (664, 25041), (678, 25125), (684, 25158),

Gene: Geraldini_27 Start: 20888, Stop: 23320, Start Num: 82

Candidate Starts for Geraldini_27:

(Start: 82 @20888 has 96 MA's), (125, 20987), (166, 21128), (210, 21248), (217, 21269), (260, 21476), (270, 21509), (275, 21539), (301, 21611), (306, 21635), (355, 21833), (363, 21878), (366, 21890), (370, 21899), (385, 21950), (421, 22130), (426, 22145), (441, 22214), (445, 22226), (461, 22289), (470, 22331), (478, 22370), (479, 22376), (480, 22385), (484, 22406), (496, 22466), (525, 22583), (536, 22625), (555, 22697), (557, 22706), (562, 22727), (575, 22799), (580, 22820), (595, 22916), (609, 22979), (628, 23063), (634, 23105), (643, 23144),

Gene: Geralt_18 Start: 17396, Stop: 19933, Start Num: 53

Candidate Starts for Geralt_18:

(Start: 53 @17396 has 233 MA's), (62, 17417), (Start: 72 @17438 has 1 MA's), (90, 17477), (129, 17546), (130, 17555), (131, 17558), (139, 17576), (152, 17624), (167, 17672), (200, 17783), (201, 17786), (217, 17831), (233, 17909), (240, 17933), (253, 17999), (271, 18074), (273, 18080), (274, 18098), (283, 18122), (285, 18131), (297, 18164), (299, 18170), (306, 18200), (316, 18221), (325, 18251), (328, 18260), (350, 18368), (353, 18380), (355, 18389), (356, 18392), (358, 18407), (362, 18422), (364, 18425), (372, 18446), (385, 18488), (391, 18521), (412, 18632), (413, 18635), (421, 18662), (423, 18668), (437, 18722), (438, 18725), (449, 18752), (467, 18827), (469, 18839), (470, 18842), (481, 18908), (485, 18929), (486, 18932), (489, 18953), (491, 18962), (502, 19004), (506, 19022), (507, 19025), (513, 19055), (518, 19079), (523, 19091), (525, 19100), (550, 19196), (553, 19214), (556, 19223), (558, 19235), (565, 19271), (570, 19301), (574, 19310), (576, 19322), (587, 19382), (595, 19436), (610, 19496), (617, 19538), (646, 19673), (650, 19697), (658, 19751), (664, 19799), (675, 19841), (677, 19865), (678, 19868),

Gene: GigiOuiOui_18 Start: 17527, Stop: 20064, Start Num: 53

Candidate Starts for GigiOuiOui_18:

(Start: 53 @17527 has 233 MA's), (62, 17548), (Start: 72 @17569 has 1 MA's), (90, 17608), (129, 17677), (130, 17686), (131, 17689), (139, 17707), (152, 17755), (198, 17908), (201, 17917), (217, 17962), (239, 18061), (240, 18064), (253, 18130), (271, 18205), (273, 18211), (274, 18229), (283, 18253), (284, 18259), (285, 18262), (297, 18295), (299, 18301), (306, 18331), (316, 18352), (325, 18382), (328, 18391), (332, 18406), (333, 18409), (355, 18520), (356, 18523), (357, 18532), (358, 18538), (362, 18553), (364, 18556), (372, 18577), (382, 18607), (385, 18619), (391, 18652), (412, 18763), (413, 18766), (421, 18793), (423, 18799), (437, 18853), (438, 18856), (467, 18958), (469, 18970), (470, 18973), (481, 19039), (486, 19063), (489, 19084), (491, 19093), (506, 19153), (507, 19156), (515, 19192), (518, 19210), (523, 19222), (525, 19231), (533, 19258), (549, 19315), (550, 19327), (553, 19345), (556, 19354), (558, 19366), (565, 19402), (570, 19432), (574, 19441), (576, 19453), (587, 19513), (595, 19567), (610, 19627), (617, 19669), (646, 19804), (650, 19828), (658, 19882), (664, 19930), (675, 19972), (677, 19996), (678, 19999),

Gene: Girafales_19 Start: 17227, Stop: 19764, Start Num: 53

Candidate Starts for Girafales_19:

(Start: 53 @17227 has 233 MA's), (62, 17248), (Start: 72 @17269 has 1 MA's), (90, 17308), (129, 17377), (130, 17386), (131, 17389), (139, 17407), (149, 17440), (152, 17455), (167, 17503), (200, 17614), (201, 17617), (213, 17647), (217, 17662), (233, 17740), (240, 17764), (253, 17830), (262, 17875), (271, 17905), (273, 17911), (274, 17929), (283, 17953), (285, 17962), (297, 17995), (299, 18001), (306, 18031), (322, 18070), (328, 18091), (332, 18106), (333, 18109), (356, 18223), (357, 18232), (358, 18238), (364, 18256), (372, 18277), (382, 18307), (385, 18319), (391, 18352), (412, 18463), (413, 18466), (421, 18493), (423, 18499), (437, 18553), (438, 18556), (465, 18643), (467, 18658), (470, 18673), (486, 18763), (489, 18784), (491, 18793), (506, 18853), (507, 18856), (513, 18886), (518, 18910), (525, 18931), (550, 19027), (553, 19045), (556, 19054), (558, 19066), (565, 19102), (570, 19132), (576, 19153), (583, 19177), (587, 19213), (595, 19267), (610, 19327), (617, 19369), (634, 19447), (646, 19504), (650, 19528), (658, 19582), (664, 19630), (675, 19672), (677, 19696), (678, 19699),

Gene: Girr_18 Start: 17371, Stop: 19908, Start Num: 53

Candidate Starts for Girr_18:

(Start: 53 @17371 has 233 MA's), (62, 17392), (Start: 72 @17413 has 1 MA's), (90, 17452), (129, 17521), (130, 17530), (131, 17533), (139, 17551), (149, 17584), (152, 17599), (198, 17752), (201, 17761), (217, 17806), (239, 17905), (240, 17908), (253, 17974), (271, 18049), (273, 18055), (283, 18097), (284, 18103), (285, 18106), (297, 18139), (299, 18145), (306, 18175), (316, 18196), (325, 18226), (328, 18235), (332, 18250), (333, 18253), (355, 18364), (356, 18367), (357, 18376), (358, 18382), (362, 18397), (364, 18400), (372, 18421), (382, 18451), (385, 18463), (391, 18496), (412, 18607), (413, 18610), (421, 18637), (423, 18643), (437, 18697), (438, 18700), (465, 18787), (467, 18802), (469, 18814), (470, 18817), (481, 18883), (486, 18907), (489, 18928), (491, 18937), (502, 18979), (506, 18997), (507, 19000), (513, 19030), (518, 19054), (523, 19066), (525, 19075), (550, 19171), (553, 19189), (556, 19198), (558, 19210), (565, 19246), (570, 19276), (574, 19285), (576, 19297), (587, 19357), (595, 19411), (610, 19471), (617, 19513), (646, 19648), (650, 19672), (658, 19726), (664, 19774), (675, 19816), (677, 19840), (678, 19843),

Gene: Glexan_24 Start: 21900, Stop: 24296, Start Num: 99

Candidate Starts for Glexan_24:

(Start: 99 @21900 has 127 MA's), (164, 22077), (170, 22098), (225, 22245), (254, 22386), (261, 22419), (271, 22452), (277, 22488), (306, 22581), (328, 22641), (333, 22659), (359, 22791), (404, 22968), (412, 23013), (464, 23187), (467, 23208), (475, 23247), (478, 23268), (480, 23283), (515, 23439), (518, 23457), (534, 23511), (553, 23595), (620, 23919), (664, 24150), (678, 24234), (684, 24267),

Gene: GodSpeed_23 Start: 20676, Stop: 23147, Start Num: 33

Candidate Starts for GodSpeed_23:

(Start: 33 @20676 has 9 MA's), (65, 20784), (131, 20904), (155, 20982), (239, 21270), (248, 21315), (252, 21330), (270, 21396), (297, 21453), (327, 21543), (331, 21558), (349, 21639), (365, 21714), (385, 21771), (389, 21795), (397, 21831), (442, 22038), (456, 22092), (461, 22113), (480, 22215), (500, 22308), (503, 22326), (514, 22368), (537, 22473), (559, 22539), (566, 22581), (580, 22644), (583, 22653), (587, 22692), (601, 22779), (659, 23085), (662, 23121), (667, 23130),

Gene: Goku_26 Start: 21998, Stop: 24394, Start Num: 99

Candidate Starts for Goku_26:

(Start: 99 @21998 has 127 MA's), (164, 22175), (170, 22196), (225, 22343), (254, 22484), (261, 22517), (271, 22550), (277, 22586), (306, 22679), (328, 22739), (333, 22757), (349, 22838), (404, 23066), (412, 23111), (467, 23306), (468, 23312), (470, 23321), (478, 23366), (480, 23381), (515, 23537), (518, 23555), (521, 23564), (536, 23618), (553, 23693), (554, 23696), (594, 23906), (597, 23918), (628, 24032), (664, 24248), (678, 24332), (682, 24356), (684, 24365),

Gene: GoldenSpark_28 Start: 22274, Stop: 24670, Start Num: 99

Candidate Starts for GoldenSpark_28:

(Start: 99 @22274 has 127 MA's), (164, 22451), (170, 22472), (225, 22619), (261, 22793), (271, 22826), (277, 22862), (306, 22955), (328, 23015), (333, 23033), (359, 23165), (374, 23210), (404, 23342), (412, 23387), (433, 23447), (464, 23561), (467, 23582), (475, 23621), (478, 23642), (480, 23657), (513, 23807), (515, 23813), (518, 23831), (534, 23885), (553, 23969), (628, 24308), (664, 24524), (678, 24608), (684, 24641),

Gene: Goldilocks_27 Start: 21694, Stop: 24090, Start Num: 99

Candidate Starts for Goldilocks_27:

(Start: 99 @21694 has 127 MA's), (164, 21871), (170, 21892), (225, 22039), (254, 22180), (261, 22213), (271, 22246), (277, 22282), (306, 22375), (328, 22435), (333, 22453), (359, 22585), (374, 22630), (404, 22762), (412, 22807), (433, 22867), (464, 22981), (467, 23002), (475, 23041), (478, 23062), (480, 23077), (513, 23227), (515, 23233), (518, 23251), (534, 23305), (553, 23389), (574, 23482), (628, 23728), (664, 23944), (678, 24028), (684, 24061),

Gene: Gonephishing_34 Start: 28088, Stop: 30448, Start Num: 139

Candidate Starts for Gonephishing_34:

(Start: 53 @27893 has 233 MA's), (139, 28088), (149, 28124), (152, 28139), (167, 28187), (200, 28298), (201, 28301), (213, 28331), (217, 28346), (233, 28424), (240, 28448), (253, 28514), (262, 28559), (271, 28589), (273, 28595), (274, 28613), (283, 28637), (285, 28646), (297, 28679), (299, 28685), (306, 28715), (322, 28754), (325, 28766), (328, 28775), (332, 28790), (333, 28793), (355, 28904), (356, 28907), (357, 28916), (358, 28922), (362, 28937), (364, 28940), (382, 28991), (385, 29003), (391, 29036), (404, 29102), (412, 29147), (413, 29150), (421, 29177), (423, 29183), (437, 29237), (438, 29240), (465, 29327), (467, 29342), (469, 29354), (470, 29357), (481, 29423), (489, 29468), (491, 29477), (506, 29537), (507, 29540), (515, 29576), (518, 29594), (523, 29606), (525, 29615), (533, 29642), (550, 29711), (553, 29729), (556, 29738), (558, 29750), (565, 29786), (570, 29816), (576, 29837), (583, 29861), (587, 29897), (595, 29951), (610, 30011), (617, 30053), (646, 30188), (650, 30212), (658, 30266), (664, 30314), (675, 30356), (677, 30380), (678, 30383),

Gene: GooberAzure_28 Start: 22274, Stop: 24670, Start Num: 99

Candidate Starts for GooberAzure_28:

(Start: 99 @22274 has 127 MA's), (164, 22451), (170, 22472), (225, 22619), (254, 22760), (261, 22793), (271, 22826), (277, 22862), (306, 22955), (328, 23015), (333, 23033), (359, 23165), (374, 23210), (404, 23342), (412, 23387), (433, 23447), (464, 23561), (467, 23582), (475, 23621), (478, 23642), (480, 23657), (513, 23807), (515, 23813), (518, 23831), (534, 23885), (553, 23969), (574, 24062), (628, 24308), (664, 24524), (678, 24608), (684, 24641),

Gene: Gorge_18 Start: 17383, Stop: 19926, Start Num: 53

Candidate Starts for Gorge_18:

(Start: 53 @17383 has 233 MA's), (62, 17404), (69, 17425), (94, 17464), (129, 17533), (130, 17542), (131, 17545), (139, 17563), (152, 17611), (167, 17659), (200, 17770), (201, 17773), (214, 17806), (217, 17818), (233, 17896), (247, 17962), (254, 17995), (267, 18049), (271, 18061), (284, 18115), (285, 18118), (289, 18127), (300, 18160), (314, 18199), (316, 18202), (321, 18217), (322, 18220), (329, 18247), (331, 18253), (332, 18256), (333, 18259), (338, 18286), (341, 18304), (342, 18307), (357, 18382), (362, 18403), (364, 18406), (373, 18433), (382, 18457), (391, 18502), (392, 18505), (401, 18556), (413, 18619), (415, 18628), (422, 18652), (454, 18757), (455, 18760), (467, 18811), (468, 18817), (469, 18823), (470, 18826), (478, 18871), (480, 18886), (485, 18913), (489, 18937), (502, 18988), (506, 19006), (507, 19009), (508, 19021), (523, 19075), (553, 19198), (566, 19261), (581, 19324), (591, 19399), (637, 19600), (674, 19828), (680, 19867), (681, 19870),

Gene: Greep_27 Start: 22604, Stop: 25000, Start Num: 99

Candidate Starts for Greep_27:

(Start: 99 @22604 has 127 MA's), (164, 22781), (170, 22802), (225, 22949), (254, 23090), (261, 23123), (271, 23156), (277, 23192), (306, 23285), (328, 23345), (333, 23363), (359, 23495), (374, 23540), (404, 23672), (412, 23717), (464, 23891), (467, 23912), (475, 23951), (478, 23972), (480, 23987), (515, 24143), (518, 24161), (534, 24215), (553, 24299), (574, 24392), (628, 24638), (664, 24854), (678, 24938), (684, 24971),

Gene: Grimmer_19 Start: 18060, Stop: 20597, Start Num: 53

Candidate Starts for Grimmer_19:

(Start: 53 @18060 has 233 MA's), (62, 18081), (Start: 72 @18102 has 1 MA's), (90, 18141), (129, 18210), (130, 18219), (131, 18222), (139, 18240), (152, 18288), (200, 18447), (201, 18450), (217, 18495), (233, 18573), (239, 18594), (240, 18597), (253, 18663), (271, 18738), (273, 18744), (283, 18786), (284, 18792), (285, 18795), (297, 18828), (299, 18834), (306, 18864), (316, 18885), (325, 18915), (328, 18924), (350, 19032), (353, 19044), (355, 19053), (356, 19056), (357, 19065), (358, 19071), (362, 19086), (364, 19089), (372, 19110), (382, 19140), (385, 19152), (391, 19185), (392, 19188), (404, 19251), (412, 19296), (413, 19299), (421, 19326), (423, 19332), (437, 19386), (438,

19389), (449, 19416), (467, 19491), (469, 19503), (470, 19506), (481, 19572), (485, 19593), (486, 19596), (489, 19617), (506, 19686), (507, 19689), (515, 19725), (518, 19743), (525, 19764), (550, 19860), (553, 19878), (556, 19887), (558, 19899), (565, 19935), (570, 19965), (587, 20046), (595, 20100), (617, 20202), (646, 20337), (650, 20361), (658, 20415), (672, 20484), (677, 20529), (678, 20532),

Gene: Guanica15_27 Start: 20098, Stop: 22530, Start Num: 82

Candidate Starts for Guanica15_27:

(Start: 82 @20098 has 96 MA's), (103, 20146), (104, 20149), (109, 20158), (210, 20458), (217, 20479), (270, 20719), (301, 20821), (306, 20845), (308, 20851), (323, 20890), (355, 21043), (366, 21100), (370, 21109), (385, 21160), (423, 21346), (426, 21355), (428, 21361), (437, 21406), (441, 21424), (461, 21499), (470, 21541), (478, 21580), (479, 21586), (480, 21595), (484, 21616), (493, 21664), (506, 21709), (508, 21724), (525, 21793), (536, 21835), (557, 21916), (575, 22009), (580, 22030), (595, 22126), (643, 22354), (652, 22408), (655, 22429), (665, 22501), (671, 22519),

Gene: Guppsters_19 Start: 17584, Stop: 20109, Start Num: 53

Candidate Starts for Guppsters_19:

(Start: 53 @17584 has 233 MA's), (101, 17674), (129, 17734), (130, 17743), (131, 17746), (139, 17764), (152, 17812), (166, 17857), (200, 17971), (201, 17974), (208, 17995), (214, 18007), (217, 18019), (233, 18097), (247, 18163), (254, 18196), (267, 18250), (271, 18262), (284, 18316), (285, 18319), (289, 18328), (300, 18361), (316, 18403), (321, 18418), (329, 18448), (331, 18454), (332, 18457), (333, 18460), (338, 18487), (341, 18505), (342, 18508), (357, 18583), (362, 18604), (364, 18607), (373, 18634), (382, 18658), (385, 18670), (401, 18757), (413, 18820), (415, 18829), (422, 18853), (454, 18958), (455, 18961), (467, 19012), (468, 19018), (469, 19024), (470, 19027), (478, 19072), (480, 19087), (485, 19114), (489, 19138), (491, 19147), (506, 19207), (507, 19210), (508, 19222), (518, 19264), (523, 19276), (553, 19399), (566, 19462), (581, 19525), (591, 19600), (637, 19801), (664, 19972), (674, 20011), (680, 20050), (681, 20053),

Gene: Hades_18 Start: 17406, Stop: 19958, Start Num: 53

Candidate Starts for Hades_18:

(Start: 53 @17406 has 233 MA's), (101, 17496), (129, 17556), (130, 17565), (131, 17568), (139, 17586), (152, 17634), (166, 17679), (200, 17793), (201, 17796), (205, 17808), (214, 17829), (216, 17838), (217, 17841), (233, 17919), (247, 17985), (254, 18018), (262, 18054), (269, 18078), (284, 18138), (285, 18141), (292, 18159), (314, 18222), (316, 18225), (322, 18243), (328, 18264), (333, 18282), (338, 18309), (342, 18330), (349, 18363), (357, 18405), (358, 18411), (359, 18414), (364, 18429), (373, 18456), (374, 18459), (382, 18480), (385, 18492), (391, 18525), (409, 18618), (437, 18726), (443, 18750), (449, 18756), (453, 18774), (454, 18777), (460, 18801), (467, 18831), (472, 18855), (478, 18891), (479, 18897), (480, 18906), (485, 18933), (498, 18996), (502, 19020), (504, 19035), (513, 19077), (527, 19128), (551, 19224), (553, 19239), (556, 19248), (561, 19272), (574, 19335), (583, 19371), (642, 19677), (650, 19722), (664, 19824),

Gene: Hamulus_18 Start: 17403, Stop: 19940, Start Num: 53

Candidate Starts for Hamulus_18:

(47, 17391), (Start: 53 @17403 has 233 MA's), (62, 17424), (Start: 72 @17445 has 1 MA's), (90, 17484), (129, 17553), (130, 17562), (131, 17565), (139, 17583), (149, 17616), (152, 17631), (167, 17679), (198, 17784), (200, 17790), (201, 17793), (213, 17823), (216, 17835), (217, 17838), (233, 17916), (240, 17940), (253, 18006), (271, 18081), (273, 18087), (274, 18105), (283, 18129), (285, 18138), (297, 18171), (299, 18177), (306, 18207), (322, 18246), (325, 18258), (328, 18267), (332, 18282), (333, 18285), (355, 18396), (356, 18399), (357, 18408), (358, 18414), (362, 18429), (364, 18432), (372, 18453), (382, 18483), (385, 18495), (391, 18528), (404, 18594), (412, 18639), (413, 18642), (421, 18669), (423, 18675), (437, 18729), (438, 18732), (465, 18819), (467, 18834), (469, 18846), (470, 18849), (481, 18915), (489, 18960), (491, 18969), (506, 19029), (507, 19032), (515, 19068), (518, 19086), (523, 19098), (525, 19107), (533, 19134), (550, 19203), (553, 19221), (556,

19230), (558, 19242), (565, 19278), (570, 19308), (576, 19329), (583, 19353), (587, 19389), (595, 19443), (610, 19503), (617, 19545), (646, 19680), (650, 19704), (658, 19758), (664, 19806), (675, 19848), (677, 19872), (678, 19875),

Gene: HanKaySha_27 Start: 22026, Stop: 24422, Start Num: 99

Candidate Starts for HanKaySha_27:

(Start: 99 @22026 has 127 MA's), (164, 22203), (170, 22224), (225, 22371), (261, 22545), (271, 22578), (277, 22614), (306, 22707), (328, 22767), (333, 22785), (359, 22917), (374, 22962), (404, 23094), (412, 23139), (433, 23199), (464, 23313), (467, 23334), (475, 23373), (478, 23394), (480, 23409), (513, 23559), (515, 23565), (518, 23583), (534, 23637), (553, 23721), (574, 23814), (628, 24060), (664, 24276), (678, 24360), (684, 24393),

Gene: Hannaconda_33 Start: 26378, Stop: 28873, Start Num: 53

Candidate Starts for Hannaconda_33:

(Start: 53 @26378 has 233 MA's), (139, 26573), (149, 26609), (152, 26624), (186, 26711), (191, 26726), (201, 26762), (203, 26768), (217, 26801), (220, 26813), (259, 26984), (262, 26993), (271, 27017), (284, 27071), (297, 27107), (299, 27113), (306, 27143), (319, 27173), (325, 27194), (328, 27203), (332, 27218), (346, 27287), (364, 27368), (367, 27377), (374, 27398), (375, 27401), (385, 27431), (392, 27467), (401, 27518), (402, 27527), (404, 27530), (409, 27557), (411, 27566), (415, 27587), (437, 27665), (438, 27668), (460, 27740), (468, 27776), (469, 27782), (477, 27824), (478, 27830), (485, 27872), (486, 27875), (489, 27896), (490, 27902), (491, 27905), (501, 27935), (532, 28076), (534, 28085), (536, 28094), (543, 28127), (550, 28151), (551, 28154), (553, 28169), (558, 28190), (565, 28226), (566, 28232), (568, 28238), (571, 28259), (579, 28286), (600, 28421), (615, 28493), (619, 28499), (628, 28517), (646, 28616), (664, 28733), (679, 28814), (681, 28817), (684, 28844),

Gene: Harella_25 Start: 22416, Stop: 24812, Start Num: 99

Candidate Starts for Harella_25:

(Start: 99 @22416 has 127 MA's), (164, 22593), (170, 22614), (225, 22761), (254, 22902), (261, 22935), (271, 22968), (277, 23004), (306, 23097), (328, 23157), (333, 23175), (359, 23307), (404, 23484), (412, 23529), (464, 23703), (467, 23724), (475, 23763), (478, 23784), (480, 23799), (515, 23955), (518, 23973), (534, 24027), (553, 24111), (620, 24435), (664, 24666), (678, 24750), (684, 24783),

Gene: Harley_18 Start: 17393, Stop: 19930, Start Num: 53

Candidate Starts for Harley_18:

(Start: 53 @17393 has 233 MA's), (62, 17414), (Start: 72 @17435 has 1 MA's), (90, 17474), (129, 17543), (130, 17552), (131, 17555), (139, 17573), (152, 17621), (200, 17780), (201, 17783), (217, 17828), (239, 17927), (240, 17930), (253, 17996), (271, 18071), (273, 18077), (274, 18095), (283, 18119), (284, 18125), (285, 18128), (297, 18161), (299, 18167), (306, 18197), (316, 18218), (322, 18236), (328, 18257), (350, 18365), (353, 18377), (355, 18386), (356, 18389), (357, 18398), (358, 18404), (362, 18419), (364, 18422), (372, 18443), (385, 18485), (391, 18518), (392, 18521), (404, 18584), (412, 18629), (413, 18632), (423, 18665), (437, 18719), (438, 18722), (449, 18749), (467, 18824), (469, 18836), (470, 18839), (481, 18905), (485, 18926), (486, 18929), (489, 18950), (502, 19001), (506, 19019), (507, 19022), (513, 19052), (518, 19076), (523, 19088), (525, 19097), (550, 19193), (553, 19211), (556, 19220), (558, 19232), (565, 19268), (570, 19298), (574, 19307), (576, 19319), (583, 19343), (587, 19379), (610, 19493), (617, 19535), (646, 19670), (650, 19694), (658, 19748), (664, 19796), (672, 19817), (677, 19862), (678, 19865),

Gene: Hawkeye_32 Start: 24298, Stop: 27204, Start Num: 14

Candidate Starts for Hawkeye_32:

(Start: 14 @24298 has 1 MA's), (18, 24391), (20, 24412), (21, 24433), (22, 24442), (74, 24658), (189, 25009), (219, 25105), (236, 25180), (297, 25429), (304, 25456), (346, 25609), (350, 25633), (358,

25672), (414, 25903), (416, 25906), (449, 26014), (467, 26089), (479, 26155), (518, 26347), (523, 26359), (536, 26410), (565, 26542), (607, 26761), (652, 26992), (666, 27076),

Gene: HedwigODU_27 Start: 20881, Stop: 23313, Start Num: 82

Candidate Starts for HedwigODU_27:

(Start: 82 @20881 has 96 MA's), (125, 20980), (210, 21241), (217, 21262), (260, 21469), (270, 21502), (275, 21532), (301, 21604), (306, 21628), (323, 21673), (355, 21826), (363, 21871), (366, 21883), (370, 21892), (385, 21943), (421, 22123), (426, 22138), (441, 22207), (445, 22219), (470, 22324), (478, 22363), (479, 22369), (480, 22378), (496, 22459), (508, 22507), (527, 22582), (536, 22618), (557, 22699), (562, 22720), (580, 22813), (595, 22909), (628, 23056), (634, 23098), (643, 23137), (655, 23212),

Gene: Hegedechwinu_19 Start: 17254, Stop: 19785, Start Num: 53

Candidate Starts for Hegedechwinu_19:

(47, 17242), (Start: 53 @17254 has 233 MA's), (62, 17275), (Start: 72 @17296 has 1 MA's), (90, 17335), (129, 17404), (130, 17413), (131, 17416), (139, 17434), (149, 17467), (152, 17482), (167, 17524), (200, 17635), (201, 17638), (213, 17668), (217, 17683), (233, 17761), (253, 17851), (262, 17896), (271, 17926), (273, 17932), (274, 17950), (283, 17974), (285, 17983), (297, 18016), (299, 18022), (306, 18052), (322, 18091), (325, 18103), (328, 18112), (332, 18127), (333, 18130), (355, 18241), (356, 18244), (357, 18253), (358, 18259), (362, 18274), (364, 18277), (372, 18298), (382, 18328), (385, 18340), (391, 18373), (412, 18484), (413, 18487), (421, 18514), (423, 18520), (437, 18574), (438, 18577), (467, 18679), (469, 18691), (470, 18694), (481, 18760), (486, 18784), (489, 18805), (491, 18814), (506, 18874), (507, 18877), (515, 18913), (518, 18931), (523, 18943), (525, 18952), (533, 18979), (550, 19048), (553, 19066), (556, 19075), (558, 19087), (565, 19123), (570, 19153), (576, 19174), (583, 19198), (587, 19234), (595, 19288), (610, 19348), (617, 19390), (634, 19468), (646, 19525), (650, 19549), (658, 19603), (664, 19651), (675, 19693), (677, 19717), (678, 19720),

Gene: Henry_26 Start: 22283, Stop: 24679, Start Num: 99

Candidate Starts for Henry_26:

(Start: 99 @22283 has 127 MA's), (164, 22460), (170, 22481), (225, 22628), (254, 22769), (261, 22802), (271, 22835), (277, 22871), (306, 22964), (328, 23024), (333, 23042), (367, 23198), (374, 23219), (401, 23339), (404, 23351), (412, 23396), (467, 23591), (470, 23606), (478, 23651), (480, 23666), (515, 23822), (518, 23840), (521, 23849), (553, 23978), (554, 23981), (594, 24191), (597, 24203), (628, 24317), (664, 24533), (678, 24617), (682, 24641), (684, 24650),

Gene: Highbury_27 Start: 21945, Stop: 24341, Start Num: 99

Candidate Starts for Highbury_27:

(Start: 99 @21945 has 127 MA's), (164, 22122), (170, 22143), (225, 22290), (254, 22431), (261, 22464), (271, 22497), (277, 22533), (306, 22626), (328, 22686), (333, 22704), (359, 22836), (374, 22881), (404, 23013), (412, 23058), (433, 23118), (464, 23232), (467, 23253), (475, 23292), (478, 23313), (480, 23328), (513, 23478), (515, 23484), (518, 23502), (534, 23556), (553, 23640), (574, 23733), (628, 23979), (664, 24195), (678, 24279), (684, 24312),

Gene: Hlubikazi_18 Start: 17495, Stop: 20032, Start Num: 53

Candidate Starts for Hlubikazi_18:

(Start: 53 @17495 has 233 MA's), (62, 17516), (Start: 72 @17537 has 1 MA's), (90, 17576), (129, 17645), (130, 17654), (131, 17657), (139, 17675), (152, 17723), (200, 17882), (201, 17885), (216, 17927), (217, 17930), (233, 18008), (239, 18029), (240, 18032), (253, 18098), (271, 18173), (273, 18179), (283, 18221), (284, 18227), (285, 18230), (297, 18263), (299, 18269), (306, 18299), (316, 18320), (325, 18350), (328, 18359), (350, 18467), (353, 18479), (355, 18488), (356, 18491), (357, 18500), (358, 18506), (362, 18521), (364, 18524), (372, 18545), (385, 18587), (391, 18620), (421, 18761), (423, 18767), (437, 18821), (438, 18824), (449, 18851), (467, 18926), (469, 18938), (470,

18941), (481, 19007), (486, 19031), (489, 19052), (491, 19061), (506, 19121), (507, 19124), (515, 19160), (518, 19178), (525, 19199), (533, 19226), (550, 19295), (553, 19313), (556, 19322), (558, 19334), (565, 19370), (570, 19400), (587, 19481), (610, 19595), (617, 19637), (646, 19772), (650, 19796), (658, 19850), (677, 19964), (678, 19967),

Gene: Holt_27 Start: 21564, Stop: 23960, Start Num: 99

Candidate Starts for Holt_27:

(Start: 99 @21564 has 127 MA's), (164, 21741), (170, 21762), (225, 21909), (254, 22050), (261, 22083), (271, 22116), (277, 22152), (306, 22245), (328, 22305), (333, 22323), (359, 22455), (374, 22500), (404, 22632), (412, 22677), (433, 22737), (464, 22851), (467, 22872), (475, 22911), (478, 22932), (480, 22947), (513, 23097), (515, 23103), (518, 23121), (534, 23175), (553, 23259), (574, 23352), (628, 23598), (664, 23814), (678, 23898), (684, 23931),

Gene: Homura_27 Start: 20912, Stop: 23344, Start Num: 82

Candidate Starts for Homura_27:

(Start: 82 @20912 has 96 MA's), (125, 21011), (210, 21272), (217, 21293), (260, 21500), (270, 21533), (275, 21563), (301, 21635), (306, 21659), (355, 21857), (363, 21902), (366, 21914), (370, 21923), (385, 21974), (421, 22154), (426, 22169), (441, 22238), (445, 22250), (461, 22313), (470, 22355), (478, 22394), (479, 22400), (480, 22409), (484, 22430), (496, 22490), (525, 22607), (536, 22649), (555, 22721), (557, 22730), (562, 22751), (575, 22823), (580, 22844), (595, 22940), (628, 23087), (643, 23168), (665, 23315),

Gene: Hoonter_28 Start: 22274, Stop: 24670, Start Num: 99

Candidate Starts for Hoonter_28:

(Start: 99 @22274 has 127 MA's), (164, 22451), (170, 22472), (225, 22619), (261, 22793), (271, 22826), (277, 22862), (306, 22955), (328, 23015), (333, 23033), (359, 23165), (374, 23210), (404, 23342), (412, 23387), (433, 23447), (464, 23561), (467, 23582), (475, 23621), (478, 23642), (480, 23657), (513, 23807), (515, 23813), (518, 23831), (534, 23885), (553, 23969), (574, 24062), (628, 24308), (664, 24524), (678, 24608), (684, 24641),

Gene: Hokey_28 Start: 22561, Stop: 24957, Start Num: 99

Candidate Starts for Hokey_28:

(Start: 99 @22561 has 127 MA's), (164, 22738), (170, 22759), (225, 22906), (261, 23080), (271, 23113), (277, 23149), (306, 23242), (328, 23302), (333, 23320), (359, 23452), (374, 23497), (404, 23629), (412, 23674), (433, 23734), (464, 23848), (467, 23869), (475, 23908), (478, 23929), (480, 23944), (513, 24094), (515, 24100), (518, 24118), (534, 24172), (553, 24256), (574, 24349), (628, 24595), (664, 24811), (678, 24895), (684, 24928),

Gene: Hosp_024 Start: 25768, Stop: 28263, Start Num: 38

Candidate Starts for Hosp_024:

(Start: 38 @25768 has 6 MA's), (51, 25825), (77, 25882), (131, 26002), (137, 26020), (158, 26092), (161, 26098), (177, 26152), (191, 26188), (239, 26371), (248, 26416), (255, 26455), (272, 26509), (296, 26557), (305, 26587), (313, 26614), (326, 26650), (331, 26668), (337, 26692), (342, 26716), (359, 26800), (371, 26836), (382, 26866), (389, 26902), (393, 26920), (437, 27127), (439, 27139), (442, 27148), (461, 27223), (462, 27226), (465, 27235), (470, 27265), (471, 27268), (478, 27310), (480, 27325), (495, 27406), (500, 27418), (506, 27442), (508, 27457), (510, 27463), (530, 27544), (556, 27634), (559, 27649), (595, 27859), (598, 27880), (603, 27898), (659, 28195),

Gene: HufflyPuff_25 Start: 22268, Stop: 24664, Start Num: 99

Candidate Starts for HufflyPuff_25:

(Start: 99 @22268 has 127 MA's), (164, 22445), (170, 22466), (225, 22613), (254, 22754), (261, 22787), (271, 22820), (277, 22856), (306, 22949), (328, 23009), (333, 23027), (359, 23159), (374, 23204), (404, 23336), (412, 23381), (433, 23441), (464, 23555), (467, 23576), (475, 23615), (478,

23636), (480, 23651), (513, 23801), (515, 23807), (518, 23825), (534, 23879), (553, 23963), (574, 24056), (628, 24302), (664, 24518), (678, 24602), (684, 24635),

Gene: Hyperbowlee_27 Start: 20912, Stop: 23344, Start Num: 82

Candidate Starts for Hyperbowlee_27:

(Start: 82 @20912 has 96 MA's), (125, 21011), (210, 21272), (217, 21293), (260, 21500), (270, 21533), (275, 21563), (301, 21635), (306, 21659), (355, 21857), (363, 21902), (366, 21914), (370, 21923), (385, 21974), (421, 22154), (426, 22169), (441, 22238), (445, 22250), (461, 22313), (470, 22355), (478, 22394), (479, 22400), (480, 22409), (484, 22430), (496, 22490), (525, 22607), (536, 22649), (555, 22721), (557, 22730), (562, 22751), (575, 22823), (580, 22844), (595, 22940), (628, 23087), (643, 23168), (665, 23315),

Gene: IHOP_26 Start: 22460, Stop: 24856, Start Num: 99

Candidate Starts for IHOP_26:

(Start: 99 @22460 has 127 MA's), (164, 22637), (170, 22658), (225, 22805), (254, 22946), (261, 22979), (271, 23012), (277, 23048), (306, 23141), (328, 23201), (333, 23219), (367, 23375), (374, 23396), (401, 23516), (404, 23528), (412, 23573), (467, 23768), (468, 23774), (470, 23783), (478, 23828), (480, 23843), (515, 23999), (518, 24017), (521, 24026), (536, 24080), (553, 24155), (554, 24158), (594, 24368), (597, 24380), (628, 24494), (664, 24710), (678, 24794), (682, 24818), (684, 24827),

Gene: IMpilo_18 Start: 17430, Stop: 19967, Start Num: 53

Candidate Starts for IMpilo_18:

(47, 17418), (Start: 53 @17430 has 233 MA's), (62, 17451), (Start: 72 @17472 has 1 MA's), (90, 17511), (129, 17580), (130, 17589), (131, 17592), (139, 17610), (149, 17643), (152, 17658), (167, 17706), (200, 17817), (201, 17820), (213, 17850), (216, 17862), (217, 17865), (233, 17943), (240, 17967), (253, 18033), (262, 18078), (271, 18108), (273, 18114), (274, 18132), (283, 18156), (285, 18165), (297, 18198), (299, 18204), (306, 18234), (322, 18273), (325, 18285), (328, 18294), (332, 18309), (333, 18312), (355, 18423), (356, 18426), (357, 18435), (358, 18441), (362, 18456), (364, 18459), (372, 18480), (382, 18510), (385, 18522), (391, 18555), (412, 18666), (413, 18669), (421, 18696), (423, 18702), (437, 18756), (438, 18759), (467, 18861), (469, 18873), (470, 18876), (481, 18942), (486, 18966), (489, 18987), (491, 18996), (506, 19056), (507, 19059), (515, 19095), (518, 19113), (523, 19125), (525, 19134), (533, 19161), (550, 19230), (553, 19248), (556, 19257), (558, 19269), (565, 19305), (570, 19335), (576, 19356), (583, 19380), (587, 19416), (595, 19470), (610, 19530), (617, 19572), (634, 19650), (646, 19707), (650, 19731), (658, 19785), (664, 19833), (675, 19875), (677, 19899), (678, 19902),

Gene: IbOuu_18 Start: 17397, Stop: 19934, Start Num: 53

Candidate Starts for IbOuu_18:

(47, 17385), (Start: 53 @17397 has 233 MA's), (62, 17418), (Start: 72 @17439 has 1 MA's), (90, 17478), (129, 17547), (130, 17556), (131, 17559), (139, 17577), (152, 17625), (167, 17673), (200, 17784), (201, 17787), (217, 17832), (233, 17910), (240, 17934), (253, 18000), (262, 18045), (271, 18075), (273, 18081), (274, 18099), (283, 18123), (285, 18132), (297, 18165), (299, 18171), (306, 18201), (322, 18240), (325, 18252), (328, 18261), (332, 18276), (333, 18279), (355, 18390), (356, 18393), (357, 18402), (358, 18408), (362, 18423), (364, 18426), (372, 18447), (382, 18477), (385, 18489), (391, 18522), (412, 18633), (413, 18636), (421, 18663), (423, 18669), (437, 18723), (438, 18726), (467, 18828), (469, 18840), (470, 18843), (481, 18909), (486, 18933), (489, 18954), (491, 18963), (506, 19023), (507, 19026), (515, 19062), (518, 19080), (525, 19101), (533, 19128), (550, 19197), (553, 19215), (556, 19224), (558, 19236), (565, 19272), (576, 19323), (581, 19341), (587, 19383), (595, 19437), (617, 19539), (646, 19674), (650, 19698), (658, 19752), (672, 19821), (677, 19866), (678, 19869),

Gene: Ibhubesi_18 Start: 17393, Stop: 19930, Start Num: 53

Candidate Starts for Ibhubesi_18:

(Start: 53 @17393 has 233 MA's), (62, 17414), (Start: 72 @17435 has 1 MA's), (90, 17474), (129, 17543), (130, 17552), (131, 17555), (139, 17573), (152, 17621), (200, 17780), (201, 17783), (217, 17828), (239, 17927), (240, 17930), (253, 17996), (271, 18071), (273, 18077), (274, 18095), (283, 18119), (284, 18125), (285, 18128), (297, 18161), (299, 18167), (306, 18197), (316, 18218), (322, 18236), (328, 18257), (350, 18365), (353, 18377), (355, 18386), (356, 18389), (357, 18398), (358, 18404), (362, 18419), (364, 18422), (372, 18443), (385, 18485), (391, 18518), (392, 18521), (404, 18584), (412, 18629), (413, 18632), (423, 18665), (437, 18719), (438, 18722), (449, 18749), (467, 18824), (469, 18836), (470, 18839), (481, 18905), (485, 18926), (486, 18929), (489, 18950), (502, 19001), (506, 19019), (507, 19022), (513, 19052), (518, 19076), (523, 19088), (525, 19097), (550, 19193), (553, 19211), (556, 19220), (558, 19232), (565, 19268), (570, 19298), (574, 19307), (576, 19319), (583, 19343), (587, 19379), (610, 19493), (617, 19535), (646, 19670), (650, 19694), (658, 19748), (664, 19796), (672, 19817), (677, 19862), (678, 19865),

Gene: Icee_25 Start: 21943, Stop: 24339, Start Num: 99

Candidate Starts for Icee_25:

(Start: 99 @21943 has 127 MA's), (164, 22120), (170, 22141), (225, 22288), (254, 22429), (261, 22462), (271, 22495), (277, 22531), (306, 22624), (328, 22684), (333, 22702), (349, 22783), (404, 23011), (412, 23056), (467, 23251), (468, 23257), (470, 23266), (478, 23311), (480, 23326), (515, 23482), (518, 23500), (521, 23509), (553, 23638), (554, 23641), (594, 23851), (597, 23863), (628, 23977), (664, 24193), (678, 24277), (682, 24301), (684, 24310),

Gene: Idergollasper_58 Start: 36096, Stop: 38606, Start Num: 63

Candidate Starts for Idergollasper_58:

(Start: 63 @36096 has 33 MA's), (81, 36129), (111, 36198), (112, 36201), (121, 36225), (131, 36249), (141, 36273), (149, 36306), (206, 36513), (209, 36525), (210, 36528), (244, 36675), (247, 36705), (253, 36729), (262, 36759), (264, 36762), (271, 36789), (274, 36813), (284, 36843), (302, 36900), (307, 36924), (322, 36960), (325, 36972), (332, 36996), (333, 36999), (340, 37041), (362, 37137), (364, 37140), (430, 37395), (467, 37539), (478, 37599), (488, 37671), (489, 37674), (512, 37770), (553, 37944), (558, 37965), (579, 38058), (582, 38070), (595, 38160), (613, 38235), (633, 38280), (670, 38481), (676, 38535), (681, 38550),

Gene: Illumine_27 Start: 20895, Stop: 23327, Start Num: 82

Candidate Starts for Illumine_27:

(Start: 82 @20895 has 96 MA's), (103, 20943), (125, 20994), (210, 21255), (217, 21276), (260, 21483), (270, 21516), (275, 21546), (301, 21618), (306, 21642), (323, 21687), (355, 21840), (366, 21897), (370, 21906), (381, 21942), (385, 21957), (421, 22137), (426, 22152), (441, 22221), (445, 22233), (461, 22296), (470, 22338), (478, 22377), (479, 22383), (480, 22392), (484, 22413), (496, 22473), (508, 22521), (522, 22578), (525, 22590), (536, 22632), (555, 22704), (557, 22713), (575, 22806), (580, 22827), (595, 22923), (607, 22977), (628, 23070), (643, 23151), (665, 23298),

Gene: Imara_56 Start: 35896, Stop: 38406, Start Num: 63

Candidate Starts for Imara_56:

(Start: 63 @35896 has 33 MA's), (81, 35929), (111, 35998), (112, 36001), (121, 36025), (131, 36049), (141, 36073), (149, 36106), (206, 36313), (209, 36325), (210, 36328), (244, 36475), (247, 36505), (253, 36529), (262, 36559), (264, 36562), (271, 36589), (274, 36613), (284, 36643), (302, 36700), (307, 36724), (322, 36760), (325, 36772), (332, 36796), (333, 36799), (340, 36841), (362, 36937), (364, 36940), (430, 37195), (467, 37339), (478, 37399), (488, 37471), (489, 37474), (512, 37570), (553, 37744), (558, 37765), (579, 37858), (582, 37870), (595, 37960), (613, 38035), (633, 38080), (670, 38281), (676, 38335), (681, 38350),

Gene: Inca_25 Start: 20963, Stop: 23359, Start Num: 99

Candidate Starts for Inca_25:

(Start: 99 @20963 has 127 MA's), (164, 21140), (170, 21161), (225, 21308), (254, 21449), (261, 21482), (271, 21515), (277, 21551), (306, 21644), (328, 21704), (333, 21722), (359, 21854), (374, 21899), (404, 22031), (412, 22076), (433, 22136), (464, 22250), (467, 22271), (475, 22310), (478, 22331), (480, 22346), (513, 22496), (515, 22502), (518, 22520), (534, 22574), (553, 22658), (574, 22751), (628, 22997), (664, 23213), (678, 23297), (684, 23330),

Gene: Inky_27 Start: 20912, Stop: 23344, Start Num: 82

Candidate Starts for Inky_27:

(Start: 82 @20912 has 96 MA's), (125, 21011), (210, 21272), (217, 21293), (260, 21500), (270, 21533), (275, 21563), (301, 21635), (306, 21659), (355, 21857), (363, 21902), (366, 21914), (370, 21923), (385, 21974), (421, 22154), (426, 22169), (441, 22238), (445, 22250), (461, 22313), (470, 22355), (478, 22394), (479, 22400), (480, 22409), (484, 22430), (496, 22490), (525, 22607), (536, 22649), (555, 22721), (557, 22730), (562, 22751), (575, 22823), (580, 22844), (595, 22940), (628, 23087), (643, 23168), (665, 23315),

Gene: Inventum_18 Start: 17532, Stop: 20069, Start Num: 53

Candidate Starts for Inventum_18:

(Start: 53 @17532 has 233 MA's), (62, 17553), (Start: 72 @17574 has 1 MA's), (90, 17613), (129, 17682), (130, 17691), (131, 17694), (139, 17712), (152, 17760), (167, 17808), (200, 17919), (201, 17922), (217, 17967), (233, 18045), (240, 18069), (253, 18135), (271, 18210), (273, 18216), (274, 18234), (283, 18258), (285, 18267), (297, 18300), (299, 18306), (306, 18336), (316, 18357), (325, 18387), (328, 18396), (350, 18504), (353, 18516), (355, 18525), (356, 18528), (358, 18543), (362, 18558), (364, 18561), (372, 18582), (385, 18624), (391, 18657), (412, 18768), (413, 18771), (421, 18798), (423, 18804), (437, 18858), (438, 18861), (449, 18888), (467, 18963), (469, 18975), (470, 18978), (481, 19044), (485, 19065), (486, 19068), (489, 19089), (491, 19098), (502, 19140), (506, 19158), (507, 19161), (513, 19191), (518, 19215), (523, 19227), (525, 19236), (550, 19332), (553, 19350), (556, 19359), (558, 19371), (565, 19407), (570, 19437), (574, 19446), (576, 19458), (587, 19518), (595, 19572), (610, 19632), (617, 19674), (646, 19809), (650, 19833), (658, 19887), (664, 19935), (675, 19977), (677, 20001), (678, 20004),

Gene: IrishSherpFalk_19 Start: 18757, Stop: 21294, Start Num: 53

Candidate Starts for IrishSherpFalk_19:

(Start: 53 @18757 has 233 MA's), (62, 18778), (Start: 72 @18799 has 1 MA's), (90, 18838), (129, 18907), (130, 18916), (131, 18919), (139, 18937), (152, 18985), (198, 19138), (201, 19147), (217, 19192), (239, 19291), (240, 19294), (253, 19360), (271, 19435), (273, 19441), (274, 19459), (283, 19483), (284, 19489), (285, 19492), (297, 19525), (299, 19531), (306, 19561), (316, 19582), (325, 19612), (328, 19621), (332, 19636), (333, 19639), (355, 19750), (356, 19753), (357, 19762), (358, 19768), (362, 19783), (364, 19786), (372, 19807), (382, 19837), (385, 19849), (391, 19882), (412, 19993), (413, 19996), (421, 20023), (423, 20029), (437, 20083), (438, 20086), (465, 20173), (467, 20188), (469, 20200), (470, 20203), (481, 20269), (486, 20293), (489, 20314), (491, 20323), (506, 20383), (507, 20386), (515, 20422), (518, 20440), (523, 20452), (525, 20461), (533, 20488), (549, 20545), (550, 20557), (553, 20575), (556, 20584), (558, 20596), (565, 20632), (570, 20662), (574, 20671), (576, 20683), (587, 20743), (595, 20797), (610, 20857), (617, 20899), (646, 21034), (650, 21058), (658, 21112), (664, 21160), (675, 21202), (677, 21226), (678, 21229),

Gene: Island3_21 Start: 19089, Stop: 21620, Start Num: 60

Candidate Starts for Island3_21:

(Start: 60 @19089 has 2 MA's), (68, 19113), (116, 19224), (119, 19233), (131, 19260), (171, 19407), (239, 19674), (244, 19689), (247, 19719), (248, 19725), (253, 19743), (283, 19851), (299, 19902), (333, 20013), (334, 20016), (340, 20055), (349, 20088), (364, 20154), (385, 20214), (390, 20241), (391, 20247), (467, 20553), (478, 20613), (484, 20661), (485, 20664), (488, 20685), (489, 20688), (553, 20949), (581, 21072), (582, 21075), (595, 21165), (608, 21222), (613, 21243), (637, 21303), (673, 21504), (676, 21546),

Gene: JAWS_27 Start: 20866, Stop: 23298, Start Num: 82

Candidate Starts for JAWS_27:

(Start: 82 @20866 has 96 MA's), (125, 20965), (210, 21226), (217, 21247), (260, 21454), (270, 21487), (275, 21517), (301, 21589), (306, 21613), (355, 21811), (363, 21856), (366, 21868), (370, 21877), (385, 21928), (421, 22108), (426, 22123), (441, 22192), (445, 22204), (461, 22267), (470, 22309), (478, 22348), (479, 22354), (480, 22363), (484, 22384), (496, 22444), (525, 22561), (536, 22603), (555, 22675), (557, 22684), (562, 22705), (575, 22777), (580, 22798), (595, 22894), (628, 23041), (643, 23122), (665, 23269),

Gene: Jabbawokkie_26 Start: 17616, Stop: 20168, Start Num: 39

Candidate Starts for Jabbawokkie_26:

(36, 17607), (Start: 39 @17616 has 7 MA's), (Start: 53 @17676 has 233 MA's), (67, 17712), (118, 17811), (167, 17952), (186, 17991), (191, 18006), (201, 18042), (203, 18048), (204, 18051), (215, 18069), (220, 18093), (227, 18117), (228, 18120), (259, 18264), (262, 18273), (271, 18297), (274, 18321), (283, 18345), (284, 18351), (292, 18372), (293, 18375), (299, 18393), (306, 18426), (319, 18456), (325, 18477), (346, 18570), (349, 18585), (350, 18594), (355, 18615), (356, 18618), (367, 18660), (382, 18702), (383, 18705), (385, 18714), (390, 18741), (392, 18750), (399, 18789), (402, 18810), (404, 18813), (411, 18849), (415, 18870), (437, 18948), (438, 18951), (456, 19005), (469, 19065), (484, 19152), (486, 19158), (489, 19179), (501, 19215), (511, 19269), (513, 19278), (532, 19356), (536, 19374), (545, 19410), (547, 19413), (550, 19431), (553, 19449), (565, 19506), (568, 19518), (583, 19581), (587, 19614), (600, 19701), (612, 19749), (615, 19773), (628, 19809), (633, 19848), (641, 19887), (646, 19911), (649, 19932), (664, 20028), (672, 20049), (679, 20109), (681, 20112), (684, 20139),

Gene: JalFarm20_20 Start: 17767, Stop: 20304, Start Num: 53

Candidate Starts for JalFarm20_20:

(47, 17755), (Start: 53 @17767 has 233 MA's), (62, 17788), (Start: 72 @17809 has 1 MA's), (90, 17848), (129, 17917), (130, 17926), (131, 17929), (139, 17947), (149, 17980), (152, 17995), (167, 18043), (200, 18154), (201, 18157), (213, 18187), (216, 18199), (217, 18202), (233, 18280), (240, 18304), (253, 18370), (262, 18415), (271, 18445), (273, 18451), (274, 18469), (283, 18493), (285, 18502), (297, 18535), (299, 18541), (306, 18571), (322, 18610), (325, 18622), (328, 18631), (332, 18646), (333, 18649), (355, 18760), (356, 18763), (357, 18772), (358, 18778), (362, 18793), (364, 18796), (372, 18817), (382, 18847), (385, 18859), (391, 18892), (412, 19003), (413, 19006), (421, 19033), (423, 19039), (437, 19093), (438, 19096), (465, 19183), (467, 19198), (469, 19210), (470, 19213), (481, 19279), (486, 19303), (489, 19324), (491, 19333), (506, 19393), (507, 19396), (515, 19432), (518, 19450), (523, 19462), (525, 19471), (533, 19498), (550, 19567), (553, 19585), (556, 19594), (558, 19606), (565, 19642), (570, 19672), (576, 19693), (583, 19717), (587, 19753), (595, 19807), (610, 19867), (617, 19909), (634, 19987), (646, 20044), (650, 20068), (658, 20122), (664, 20170), (675, 20212), (677, 20236), (678, 20239),

Gene: James_18 Start: 17397, Stop: 19922, Start Num: 53

Candidate Starts for James_18:

(Start: 53 @17397 has 233 MA's), (62, 17418), (69, 17439), (94, 17478), (129, 17547), (130, 17556), (131, 17559), (139, 17577), (152, 17625), (167, 17673), (200, 17784), (201, 17787), (214, 17820), (217, 17832), (233, 17910), (247, 17976), (254, 18009), (267, 18063), (271, 18075), (284, 18129), (285, 18132), (289, 18141), (300, 18174), (314, 18213), (316, 18216), (321, 18231), (322, 18234), (329, 18261), (331, 18267), (332, 18270), (333, 18273), (338, 18300), (341, 18318), (342, 18321), (357, 18396), (362, 18417), (364, 18420), (373, 18447), (382, 18471), (391, 18516), (392, 18519), (401, 18570), (413, 18633), (415, 18642), (422, 18666), (454, 18771), (455, 18774), (467, 18825), (468, 18831), (469, 18837), (470, 18840), (478, 18885), (480, 18900), (485, 18927), (489, 18951), (502, 19002), (506, 19020), (507, 19023), (508, 19035), (523, 19089), (553, 19212), (566, 19275), (581, 19338), (591, 19413), (637, 19614), (674, 19824), (680, 19863), (681, 19866),

Gene: JangDynasty_58 Start: 36182, Stop: 38692, Start Num: 63

Candidate Starts for JangDynasty_58:

(Start: 63 @36182 has 33 MA's), (81, 36215), (111, 36284), (112, 36287), (121, 36311), (131, 36335), (141, 36359), (149, 36392), (206, 36599), (209, 36611), (210, 36614), (244, 36761), (247, 36791), (253, 36815), (262, 36845), (264, 36848), (271, 36875), (274, 36899), (284, 36929), (302, 36986), (307, 37010), (322, 37046), (325, 37058), (332, 37082), (333, 37085), (340, 37127), (362, 37223), (364, 37226), (430, 37481), (467, 37625), (478, 37685), (488, 37757), (489, 37760), (512, 37856), (553, 38030), (558, 38051), (579, 38144), (582, 38156), (595, 38246), (613, 38321), (633, 38366), (670, 38567), (676, 38621), (681, 38636),

Gene: Jant_18 Start: 17553, Stop: 20090, Start Num: 53

Candidate Starts for Jant_18:

(47, 17541), (Start: 53 @17553 has 233 MA's), (62, 17574), (Start: 72 @17595 has 1 MA's), (90, 17634), (129, 17703), (130, 17712), (131, 17715), (139, 17733), (149, 17766), (152, 17781), (167, 17829), (198, 17934), (200, 17940), (201, 17943), (213, 17973), (216, 17985), (217, 17988), (233, 18066), (240, 18090), (253, 18156), (262, 18201), (271, 18231), (273, 18237), (274, 18255), (283, 18279), (285, 18288), (297, 18321), (299, 18327), (306, 18357), (322, 18396), (325, 18408), (328, 18417), (332, 18432), (333, 18435), (355, 18546), (356, 18549), (357, 18558), (358, 18564), (362, 18579), (364, 18582), (372, 18603), (382, 18633), (385, 18645), (391, 18678), (412, 18789), (413, 18792), (421, 18819), (423, 18825), (437, 18879), (438, 18882), (467, 18984), (469, 18996), (470, 18999), (481, 19065), (486, 19089), (489, 19110), (491, 19119), (506, 19179), (507, 19182), (515, 19218), (518, 19236), (523, 19248), (525, 19257), (533, 19284), (550, 19353), (553, 19371), (556, 19380), (558, 19392), (565, 19428), (570, 19458), (576, 19479), (583, 19503), (587, 19539), (595, 19593), (610, 19653), (617, 19695), (646, 19830), (650, 19854), (664, 19956), (675, 19998), (677, 20022), (678, 20025),

Gene: Jarcob_18 Start: 17405, Stop: 19957, Start Num: 53

Candidate Starts for Jarcob_18:

(Start: 53 @17405 has 233 MA's), (94, 17486), (129, 17555), (130, 17564), (131, 17567), (139, 17585), (152, 17633), (166, 17678), (200, 17792), (201, 17795), (205, 17807), (214, 17828), (216, 17837), (217, 17840), (228, 17888), (233, 17918), (247, 17984), (254, 18017), (262, 18053), (269, 18077), (284, 18137), (285, 18140), (292, 18158), (314, 18221), (316, 18224), (322, 18242), (328, 18263), (333, 18281), (338, 18308), (342, 18329), (349, 18362), (357, 18404), (358, 18410), (359, 18413), (364, 18428), (373, 18455), (374, 18458), (382, 18479), (385, 18491), (391, 18524), (409, 18617), (437, 18725), (443, 18749), (449, 18755), (453, 18773), (454, 18776), (460, 18800), (467, 18830), (472, 18854), (478, 18890), (479, 18896), (480, 18905), (485, 18932), (498, 18995), (502, 19019), (504, 19034), (513, 19076), (527, 19127), (551, 19223), (553, 19238), (556, 19247), (561, 19271), (574, 19334), (583, 19370), (642, 19676), (650, 19721), (664, 19823),

Gene: Jarvi_27 Start: 20912, Stop: 23344, Start Num: 82

Candidate Starts for Jarvi_27:

(Start: 82 @20912 has 96 MA's), (125, 21011), (210, 21272), (217, 21293), (260, 21500), (270, 21533), (275, 21563), (301, 21635), (306, 21659), (355, 21857), (363, 21902), (366, 21914), (370, 21923), (385, 21974), (421, 22154), (426, 22169), (441, 22238), (445, 22250), (461, 22313), (470, 22355), (478, 22394), (479, 22400), (480, 22409), (484, 22430), (496, 22490), (525, 22607), (536, 22649), (555, 22721), (557, 22730), (562, 22751), (575, 22823), (580, 22844), (595, 22940), (628, 23087), (643, 23168), (665, 23315),

Gene: Jayhawk_27 Start: 20879, Stop: 23311, Start Num: 82

Candidate Starts for Jayhawk_27:

(Start: 82 @20879 has 96 MA's), (125, 20978), (210, 21239), (217, 21260), (260, 21467), (270, 21500), (275, 21530), (301, 21602), (306, 21626), (323, 21671), (355, 21824), (363, 21869), (366, 21881),

(370, 21890), (385, 21941), (421, 22121), (426, 22136), (441, 22205), (445, 22217), (470, 22322), (478, 22361), (479, 22367), (480, 22376), (496, 22457), (508, 22505), (527, 22580), (536, 22616), (557, 22697), (562, 22718), (580, 22811), (595, 22907), (628, 23054), (634, 23096), (643, 23135), (655, 23210),

Gene: JeTaime_28 Start: 23085, Stop: 25481, Start Num: 99

Candidate Starts for JeTaime_28:

(Start: 99 @23085 has 127 MA's), (164, 23262), (170, 23283), (225, 23430), (261, 23604), (271, 23637), (277, 23673), (306, 23766), (328, 23826), (333, 23844), (359, 23976), (374, 24021), (404, 24153), (412, 24198), (433, 24258), (464, 24372), (467, 24393), (475, 24432), (478, 24453), (480, 24468), (513, 24618), (515, 24624), (518, 24642), (534, 24696), (553, 24780), (574, 24873), (628, 25119), (664, 25335), (678, 25419), (684, 25452),

Gene: Jeckyll_27 Start: 20912, Stop: 23344, Start Num: 82

Candidate Starts for Jeckyll_27:

(Start: 82 @20912 has 96 MA's), (125, 21011), (210, 21272), (217, 21293), (260, 21500), (270, 21533), (275, 21563), (301, 21635), (306, 21659), (355, 21857), (363, 21902), (366, 21914), (370, 21923), (385, 21974), (421, 22154), (426, 22169), (441, 22238), (445, 22250), (461, 22313), (470, 22355), (478, 22394), (479, 22400), (480, 22409), (484, 22430), (496, 22490), (525, 22607), (536, 22649), (555, 22721), (557, 22730), (562, 22751), (575, 22823), (580, 22844), (595, 22940), (628, 23087), (643, 23168), (665, 23315),

Gene: Jinglebell_17 Start: 17634, Stop: 20171, Start Num: 53

Candidate Starts for Jinglebell_17:

(Start: 53 @17634 has 233 MA's), (62, 17655), (Start: 72 @17676 has 1 MA's), (90, 17715), (129, 17784), (130, 17793), (131, 17796), (139, 17814), (152, 17862), (200, 18021), (201, 18024), (216, 18066), (217, 18069), (233, 18147), (239, 18168), (240, 18171), (253, 18237), (254, 18246), (262, 18282), (271, 18312), (273, 18318), (283, 18360), (284, 18366), (285, 18369), (297, 18402), (299, 18408), (306, 18438), (316, 18459), (325, 18489), (328, 18498), (350, 18606), (353, 18618), (355, 18627), (356, 18630), (357, 18639), (358, 18645), (362, 18660), (364, 18663), (372, 18684), (385, 18726), (391, 18759), (421, 18900), (423, 18906), (437, 18960), (438, 18963), (449, 18990), (467, 19065), (469, 19077), (470, 19080), (481, 19146), (485, 19167), (486, 19170), (489, 19191), (502, 19242), (506, 19260), (507, 19263), (513, 19293), (518, 19317), (523, 19329), (550, 19434), (553, 19452), (556, 19461), (558, 19473), (565, 19509), (570, 19539), (576, 19560), (583, 19584), (587, 19620), (610, 19734), (617, 19776), (634, 19854), (646, 19911), (650, 19935), (658, 19989), (664, 20037), (675, 20079), (677, 20103), (678, 20106),

Gene: Job42_21 Start: 19082, Stop: 21619, Start Num: 53

Candidate Starts for Job42_21:

(Start: 53 @19082 has 233 MA's), (Start: 72 @19124 has 1 MA's), (101, 19172), (129, 19232), (130, 19241), (131, 19244), (139, 19262), (149, 19295), (152, 19310), (167, 19358), (200, 19469), (201, 19472), (213, 19502), (216, 19514), (217, 19517), (233, 19595), (240, 19619), (253, 19685), (262, 19730), (271, 19760), (273, 19766), (274, 19784), (283, 19808), (285, 19817), (297, 19850), (299, 19856), (306, 19886), (322, 19925), (325, 19937), (328, 19946), (332, 19961), (333, 19964), (355, 20075), (356, 20078), (357, 20087), (358, 20093), (362, 20108), (364, 20111), (372, 20132), (382, 20162), (385, 20174), (391, 20207), (412, 20318), (413, 20321), (421, 20348), (423, 20354), (437, 20408), (438, 20411), (467, 20513), (469, 20525), (470, 20528), (481, 20594), (486, 20618), (489, 20639), (491, 20648), (506, 20708), (507, 20711), (515, 20747), (518, 20765), (523, 20777), (525, 20786), (533, 20813), (550, 20882), (553, 20900), (556, 20909), (558, 20921), (565, 20957), (570, 20987), (576, 21008), (583, 21032), (587, 21068), (595, 21122), (610, 21182), (617, 21224), (634, 21302), (646, 21359), (650, 21383), (658, 21437), (664, 21485), (675, 21527), (677, 21551), (678, 21554),

Gene: JoeyJr_18 Start: 17568, Stop: 20105, Start Num: 53

Candidate Starts for JoeyJr_18:

(47, 17556), (Start: 53 @17568 has 233 MA's), (62, 17589), (Start: 72 @17610 has 1 MA's), (90, 17649), (129, 17718), (130, 17727), (131, 17730), (139, 17748), (152, 17796), (167, 17844), (200, 17955), (201, 17958), (217, 18003), (233, 18081), (240, 18105), (253, 18171), (262, 18216), (271, 18246), (273, 18252), (274, 18270), (283, 18294), (285, 18303), (297, 18336), (299, 18342), (306, 18372), (322, 18411), (325, 18423), (328, 18432), (332, 18447), (333, 18450), (355, 18561), (356, 18564), (357, 18573), (358, 18579), (362, 18594), (364, 18597), (372, 18618), (382, 18648), (385, 18660), (391, 18693), (412, 18804), (413, 18807), (421, 18834), (423, 18840), (437, 18894), (438, 18897), (467, 18999), (469, 19011), (470, 19014), (481, 19080), (486, 19104), (489, 19125), (491, 19134), (506, 19194), (507, 19197), (515, 19233), (518, 19251), (525, 19272), (533, 19299), (550, 19368), (553, 19386), (556, 19395), (558, 19407), (565, 19443), (576, 19494), (581, 19512), (587, 19554), (595, 19608), (617, 19710), (646, 19845), (650, 19869), (658, 19923), (672, 19992), (677, 20037), (678, 20040),

Gene: Jolie1_026 Start: 27564, Stop: 30065, Start Num: 38

Candidate Starts for Jolie1_026:

(Start: 38 @27564 has 6 MA's), (45, 27585), (51, 27621), (77, 27678), (131, 27798), (137, 27816), (158, 27888), (161, 27894), (177, 27948), (191, 27984), (239, 28167), (248, 28212), (255, 28251), (272, 28305), (313, 28410), (326, 28446), (331, 28464), (342, 28512), (359, 28596), (371, 28632), (382, 28662), (389, 28698), (393, 28716), (437, 28923), (439, 28935), (442, 28944), (461, 29019), (462, 29022), (470, 29061), (478, 29106), (480, 29121), (495, 29202), (500, 29214), (503, 29232), (506, 29238), (508, 29253), (510, 29259), (530, 29340), (556, 29430), (559, 29445), (572, 29517), (581, 29556), (595, 29655), (659, 29997),

Gene: Jolie2_22 Start: 19776, Stop: 22241, Start Num: 33

Candidate Starts for Jolie2_22:

(22, 19692), (23, 19707), (24, 19728), (Start: 33 @19776 has 9 MA's), (65, 19884), (79, 19905), (95, 19938), (213, 20241), (255, 20433), (270, 20484), (294, 20529), (326, 20628), (329, 20640), (331, 20646), (346, 20712), (349, 20727), (359, 20778), (393, 20898), (395, 20907), (437, 21105), (446, 21141), (454, 21180), (480, 21309), (487, 21354), (500, 21405), (514, 21465), (524, 21510), (556, 21621), (562, 21648), (581, 21747), (582, 21750), (594, 21843), (603, 21885), (627, 21990), (659, 22179), (665, 22221),

Gene: Joy99_27 Start: 20841, Stop: 23273, Start Num: 82

Candidate Starts for Joy99_27:

(Start: 82 @20841 has 96 MA's), (125, 20940), (210, 21201), (217, 21222), (260, 21429), (270, 21462), (275, 21492), (301, 21564), (306, 21588), (355, 21786), (363, 21831), (366, 21843), (370, 21852), (385, 21903), (421, 22083), (426, 22098), (441, 22167), (445, 22179), (461, 22242), (470, 22284), (478, 22323), (479, 22329), (480, 22338), (484, 22359), (496, 22419), (525, 22536), (536, 22578), (555, 22650), (562, 22680), (575, 22752), (580, 22773), (595, 22869), (628, 23016), (643, 23097), (665, 23244),

Gene: Juice456_20 Start: 18519, Stop: 21056, Start Num: 53

Candidate Starts for Juice456_20:

(47, 18507), (Start: 53 @18519 has 233 MA's), (62, 18540), (Start: 72 @18561 has 1 MA's), (90, 18600), (129, 18669), (130, 18678), (131, 18681), (139, 18699), (149, 18732), (152, 18747), (167, 18795), (200, 18906), (201, 18909), (213, 18939), (216, 18951), (217, 18954), (233, 19032), (240, 19056), (253, 19122), (262, 19167), (271, 19197), (273, 19203), (274, 19221), (283, 19245), (285, 19254), (297, 19287), (299, 19293), (306, 19323), (322, 19362), (325, 19374), (328, 19383), (332, 19398), (333, 19401), (355, 19512), (356, 19515), (357, 19524), (358, 19530), (362, 19545), (364, 19548), (372, 19569), (382, 19599), (385, 19611), (391, 19644), (412, 19755), (413, 19758), (421, 19785), (423, 19791), (437, 19845), (438, 19848), (465, 19935), (467, 19950), (469, 19962), (470,

19965), (481, 20031), (486, 20055), (489, 20076), (491, 20085), (502, 20127), (506, 20145), (507, 20148), (515, 20184), (518, 20202), (523, 20214), (525, 20223), (533, 20250), (550, 20319), (553, 20337), (556, 20346), (558, 20358), (565, 20394), (570, 20424), (576, 20445), (583, 20469), (587, 20505), (595, 20559), (610, 20619), (617, 20661), (634, 20739), (646, 20796), (650, 20820), (658, 20874), (664, 20922), (675, 20964), (677, 20988), (678, 20991),

Gene: Juniper1_18 Start: 17394, Stop: 19931, Start Num: 53

Candidate Starts for Juniper1_18:

(Start: 53 @17394 has 233 MA's), (62, 17415), (Start: 72 @17436 has 1 MA's), (90, 17475), (129, 17544), (130, 17553), (131, 17556), (139, 17574), (149, 17607), (152, 17622), (200, 17781), (201, 17784), (217, 17829), (233, 17907), (240, 17931), (253, 17997), (271, 18072), (273, 18078), (283, 18120), (284, 18126), (285, 18129), (297, 18162), (299, 18168), (306, 18198), (316, 18219), (325, 18249), (328, 18258), (350, 18366), (353, 18378), (355, 18387), (356, 18390), (357, 18399), (358, 18405), (362, 18420), (364, 18423), (372, 18444), (385, 18486), (391, 18519), (412, 18630), (413, 18633), (421, 18660), (423, 18666), (437, 18720), (438, 18723), (449, 18750), (450, 18759), (467, 18825), (469, 18837), (470, 18840), (481, 18906), (485, 18927), (486, 18930), (489, 18951), (502, 19002), (506, 19020), (507, 19023), (513, 19053), (518, 19077), (523, 19089), (525, 19098), (550, 19194), (553, 19212), (556, 19221), (558, 19233), (565, 19269), (570, 19299), (576, 19320), (583, 19344), (587, 19380), (610, 19494), (617, 19536), (646, 19671), (650, 19695), (658, 19749), (672, 19818), (677, 19863), (678, 19866), (680, 19872),

Gene: Kanye_28 Start: 23270, Stop: 25666, Start Num: 99

Candidate Starts for Kanye_28:

(Start: 99 @23270 has 127 MA's), (164, 23447), (170, 23468), (225, 23615), (254, 23756), (261, 23789), (271, 23822), (277, 23858), (306, 23951), (328, 24011), (333, 24029), (359, 24161), (374, 24206), (404, 24338), (412, 24383), (433, 24443), (464, 24557), (467, 24578), (475, 24617), (478, 24638), (480, 24653), (513, 24803), (515, 24809), (518, 24827), (534, 24881), (553, 24965), (574, 25058), (628, 25304), (664, 25520), (678, 25604), (684, 25637),

Gene: Karhdo_18 Start: 17528, Stop: 20065, Start Num: 53

Candidate Starts for Karhdo_18:

(47, 17516), (Start: 53 @17528 has 233 MA's), (62, 17549), (Start: 72 @17570 has 1 MA's), (90, 17609), (129, 17678), (130, 17687), (131, 17690), (139, 17708), (149, 17741), (152, 17756), (167, 17804), (200, 17915), (201, 17918), (213, 17948), (216, 17960), (217, 17963), (233, 18041), (240, 18065), (253, 18131), (262, 18176), (271, 18206), (273, 18212), (274, 18230), (283, 18254), (285, 18263), (297, 18296), (299, 18302), (306, 18332), (322, 18371), (325, 18383), (328, 18392), (332, 18407), (333, 18410), (355, 18521), (356, 18524), (357, 18533), (358, 18539), (362, 18554), (364, 18557), (372, 18578), (382, 18608), (385, 18620), (391, 18653), (412, 18764), (413, 18767), (421, 18794), (423, 18800), (437, 18854), (438, 18857), (465, 18944), (467, 18959), (469, 18971), (470, 18974), (481, 19040), (486, 19064), (489, 19085), (491, 19094), (502, 19136), (506, 19154), (507, 19157), (513, 19187), (518, 19211), (523, 19223), (525, 19232), (550, 19328), (553, 19346), (556, 19355), (558, 19367), (565, 19403), (570, 19433), (574, 19442), (576, 19454), (587, 19514), (595, 19568), (610, 19628), (617, 19670), (646, 19805), (650, 19829), (658, 19883), (664, 19931), (675, 19973), (677, 19997), (678, 20000),

Gene: KashFlow_30 Start: 26008, Stop: 28503, Start Num: 53

Candidate Starts for KashFlow_30:

(Start: 53 @26008 has 233 MA's), (139, 26203), (149, 26239), (152, 26254), (186, 26341), (191, 26356), (201, 26392), (203, 26398), (217, 26431), (220, 26443), (259, 26614), (262, 26623), (271, 26647), (284, 26701), (297, 26737), (299, 26743), (306, 26773), (319, 26803), (325, 26824), (328, 26833), (332, 26848), (346, 26917), (364, 26998), (367, 27007), (374, 27028), (375, 27031), (385, 27061), (392, 27097), (401, 27148), (402, 27157), (404, 27160), (409, 27187), (411, 27196), (415, 27217), (437, 27295), (438, 27298), (460, 27370), (468, 27406), (469, 27412), (477, 27454), (478,

27460), (485, 27502), (486, 27505), (489, 27526), (490, 27532), (491, 27535), (501, 27565), (532, 27706), (534, 27715), (536, 27724), (543, 27757), (550, 27781), (551, 27784), (553, 27799), (558, 27820), (565, 27856), (566, 27862), (568, 27868), (571, 27889), (579, 27916), (600, 28051), (615, 28123), (619, 28129), (628, 28147), (646, 28246), (664, 28363), (679, 28444), (681, 28447), (684, 28474),

Gene: KayaCho_26 Start: 27566, Stop: 30061, Start Num: 38

Candidate Starts for KayaCho_26:

(Start: 38 @27566 has 6 MA's), (51, 27623), (65, 27662), (106, 27737), (137, 27818), (158, 27890), (177, 27950), (191, 27986), (239, 28169), (248, 28214), (272, 28307), (296, 28355), (313, 28412), (326, 28448), (331, 28466), (338, 28493), (342, 28514), (359, 28598), (371, 28634), (382, 28664), (389, 28700), (393, 28718), (437, 28925), (439, 28937), (442, 28946), (459, 29015), (461, 29021), (462, 29024), (470, 29063), (478, 29108), (484, 29147), (495, 29204), (500, 29216), (506, 29240), (508, 29255), (510, 29261), (530, 29342), (559, 29447), (595, 29657), (598, 29678), (641, 29870), (659, 29993), (667, 30038),

Gene: Kenuha5_18 Start: 17523, Stop: 20015, Start Num: 53

Candidate Starts for Kenuha5_18:

(48, 17511), (Start: 53 @17523 has 233 MA's), (62, 17544), (Start: 72 @17565 has 1 MA's), (96, 17604), (129, 17673), (130, 17682), (131, 17685), (139, 17703), (149, 17736), (161, 17769), (167, 17802), (191, 17856), (201, 17892), (203, 17898), (204, 17901), (215, 17919), (217, 17931), (220, 17943), (227, 17967), (242, 18030), (259, 18114), (262, 18123), (271, 18147), (274, 18171), (283, 18195), (284, 18201), (292, 18222), (299, 18243), (306, 18273), (319, 18303), (325, 18324), (346, 18417), (349, 18432), (350, 18441), (355, 18462), (356, 18465), (382, 18549), (383, 18552), (385, 18561), (390, 18588), (392, 18597), (399, 18636), (402, 18657), (404, 18660), (411, 18696), (415, 18717), (437, 18795), (438, 18798), (456, 18852), (469, 18912), (486, 19005), (488, 19023), (489, 19026), (501, 19062), (511, 19116), (513, 19125), (532, 19203), (536, 19221), (545, 19257), (547, 19260), (550, 19278), (551, 19281), (553, 19296), (558, 19317), (565, 19353), (568, 19365), (583, 19428), (587, 19461), (600, 19548), (612, 19596), (615, 19620), (623, 19647), (628, 19656), (633, 19695), (641, 19734), (646, 19758), (649, 19779), (664, 19875), (672, 19896), (681, 19959), (684, 19986), (685, 19995),

Gene: Kersh_19 Start: 17568, Stop: 20060, Start Num: 53

Candidate Starts for Kersh_19:

(Start: 53 @17568 has 233 MA's), (62, 17589), (Start: 72 @17610 has 1 MA's), (96, 17649), (129, 17718), (130, 17727), (131, 17730), (139, 17748), (149, 17781), (161, 17814), (167, 17847), (191, 17901), (201, 17937), (204, 17946), (215, 17964), (220, 17988), (227, 18012), (250, 18120), (254, 18144), (259, 18159), (262, 18168), (271, 18192), (273, 18198), (274, 18216), (277, 18228), (281, 18234), (283, 18240), (284, 18246), (285, 18249), (289, 18258), (292, 18267), (297, 18282), (306, 18318), (322, 18357), (325, 18369), (328, 18378), (346, 18462), (364, 18543), (367, 18552), (375, 18576), (385, 18606), (392, 18642), (401, 18693), (402, 18702), (404, 18705), (411, 18741), (415, 18762), (437, 18840), (438, 18843), (456, 18897), (469, 18957), (484, 19044), (486, 19050), (489, 19071), (501, 19107), (511, 19161), (513, 19170), (532, 19248), (536, 19266), (545, 19302), (547, 19305), (550, 19323), (553, 19341), (565, 19398), (568, 19410), (583, 19473), (587, 19506), (600, 19593), (612, 19641), (615, 19665), (623, 19692), (628, 19701), (633, 19740), (641, 19779), (646, 19803), (649, 19824), (664, 19920), (672, 19941), (679, 20001), (681, 20004), (684, 20031),

Gene: KiSi_26 Start: 20041, Stop: 22500, Start Num: 82

Candidate Starts for KiSi_26:

(Start: 82 @20041 has 96 MA's), (103, 20089), (147, 20212), (164, 20269), (166, 20281), (200, 20374), (208, 20398), (223, 20449), (256, 20611), (284, 20722), (295, 20761), (301, 20785), (337, 20908), (350, 20980), (368, 21067), (386, 21133), (389, 21148), (409, 21250), (421, 21304), (436, 21364), (456, 21442), (458, 21454), (461, 21463), (470, 21505), (480, 21565), (499, 21652), (505, 21676),

(520, 21748), (536, 21805), (562, 21916), (565, 21940), (569, 21961), (581, 22012), (602, 22141), (629, 22246), (665, 22471),

Gene: Kimberlium_20 Start: 18519, Stop: 21056, Start Num: 53

Candidate Starts for Kimberlium_20:

(47, 18507), (Start: 53 @18519 has 233 MA's), (62, 18540), (Start: 72 @18561 has 1 MA's), (90, 18600), (129, 18669), (130, 18678), (131, 18681), (139, 18699), (149, 18732), (152, 18747), (167, 18795), (200, 18906), (201, 18909), (213, 18939), (216, 18951), (217, 18954), (233, 19032), (240, 19056), (253, 19122), (262, 19167), (271, 19197), (273, 19203), (274, 19221), (283, 19245), (285, 19254), (297, 19287), (299, 19293), (306, 19323), (322, 19362), (325, 19374), (328, 19383), (332, 19398), (333, 19401), (355, 19512), (356, 19515), (357, 19524), (358, 19530), (362, 19545), (364, 19548), (372, 19569), (382, 19599), (385, 19611), (391, 19644), (412, 19755), (413, 19758), (421, 19785), (423, 19791), (437, 19845), (438, 19848), (465, 19935), (467, 19950), (469, 19962), (470, 19965), (481, 20031), (486, 20055), (489, 20076), (491, 20085), (502, 20127), (506, 20145), (507, 20148), (515, 20184), (518, 20202), (523, 20214), (525, 20223), (533, 20250), (550, 20319), (553, 20337), (556, 20346), (558, 20358), (565, 20394), (570, 20424), (576, 20445), (583, 20469), (587, 20505), (595, 20559), (610, 20619), (617, 20661), (634, 20739), (646, 20796), (650, 20820), (658, 20874), (664, 20922), (675, 20964), (677, 20988), (678, 20991),

Gene: Kimchi_28 Start: 22277, Stop: 24673, Start Num: 99

Candidate Starts for Kimchi_28:

(Start: 99 @22277 has 127 MA's), (164, 22454), (170, 22475), (225, 22622), (254, 22763), (261, 22796), (271, 22829), (277, 22865), (306, 22958), (328, 23018), (333, 23036), (359, 23168), (374, 23213), (404, 23345), (412, 23390), (433, 23450), (464, 23564), (467, 23585), (475, 23624), (478, 23645), (480, 23660), (513, 23810), (515, 23816), (518, 23834), (534, 23888), (553, 23972), (574, 24065), (628, 24311), (664, 24527), (678, 24611), (684, 24644),

Gene: KingJulian_18 Start: 17437, Stop: 19974, Start Num: 53

Candidate Starts for KingJulian_18:

(47, 17425), (Start: 53 @17437 has 233 MA's), (62, 17458), (Start: 72 @17479 has 1 MA's), (90, 17518), (129, 17587), (130, 17596), (131, 17599), (139, 17617), (149, 17650), (152, 17665), (167, 17713), (200, 17824), (201, 17827), (213, 17857), (216, 17869), (217, 17872), (233, 17950), (240, 17974), (253, 18040), (262, 18085), (271, 18115), (273, 18121), (274, 18139), (283, 18163), (285, 18172), (297, 18205), (299, 18211), (306, 18241), (322, 18280), (325, 18292), (328, 18301), (332, 18316), (333, 18319), (355, 18430), (356, 18433), (357, 18442), (358, 18448), (362, 18463), (364, 18466), (372, 18487), (382, 18517), (385, 18529), (391, 18562), (412, 18673), (413, 18676), (421, 18703), (423, 18709), (437, 18763), (438, 18766), (465, 18853), (467, 18868), (469, 18880), (470, 18883), (481, 18949), (486, 18973), (489, 18994), (491, 19003), (506, 19063), (507, 19066), (515, 19102), (518, 19120), (523, 19132), (525, 19141), (533, 19168), (550, 19237), (553, 19255), (556, 19264), (558, 19276), (565, 19312), (570, 19342), (576, 19363), (583, 19387), (587, 19423), (595, 19477), (610, 19537), (617, 19579), (634, 19657), (646, 19714), (650, 19738), (658, 19792), (664, 19840), (675, 19882), (677, 19906), (678, 19909),

Gene: KingMidas_19 Start: 18701, Stop: 21238, Start Num: 53

Candidate Starts for KingMidas_19:

(47, 18689), (Start: 53 @18701 has 233 MA's), (62, 18722), (Start: 72 @18743 has 1 MA's), (90, 18782), (129, 18851), (130, 18860), (131, 18863), (139, 18881), (152, 18929), (167, 18977), (200, 19088), (201, 19091), (217, 19136), (233, 19214), (240, 19238), (253, 19304), (262, 19349), (271, 19379), (273, 19385), (274, 19403), (283, 19427), (285, 19436), (297, 19469), (299, 19475), (306, 19505), (322, 19544), (325, 19556), (328, 19565), (332, 19580), (333, 19583), (355, 19694), (356, 19697), (357, 19706), (358, 19712), (362, 19727), (364, 19730), (372, 19751), (382, 19781), (385, 19793), (391, 19826), (412, 19937), (413, 19940), (421, 19967), (423, 19973), (437, 20027), (438, 20030), (467, 20132), (469, 20144), (470, 20147), (481, 20213), (486, 20237), (489, 20258), (491,

20267), (506, 20327), (507, 20330), (515, 20366), (518, 20384), (525, 20405), (533, 20432), (550, 20501), (553, 20519), (556, 20528), (558, 20540), (565, 20576), (576, 20627), (581, 20645), (587, 20687), (595, 20741), (617, 20843), (646, 20978), (650, 21002), (658, 21056), (672, 21125), (677, 21170), (678, 21173),

Gene: KingPhillip3_57 Start: 36111, Stop: 38621, Start Num: 63

Candidate Starts for KingPhillip3_57:

(Start: 63 @36111 has 33 MA's), (81, 36144), (111, 36213), (112, 36216), (121, 36240), (131, 36264), (141, 36288), (149, 36321), (206, 36528), (209, 36540), (210, 36543), (244, 36690), (247, 36720), (253, 36744), (262, 36774), (264, 36777), (271, 36804), (274, 36828), (284, 36858), (302, 36915), (307, 36939), (322, 36975), (325, 36987), (332, 37011), (333, 37014), (340, 37056), (362, 37152), (364, 37155), (430, 37410), (467, 37554), (478, 37614), (488, 37686), (489, 37689), (512, 37785), (553, 37959), (558, 37980), (579, 38073), (582, 38085), (595, 38175), (613, 38250), (633, 38295), (670, 38496), (676, 38550), (681, 38565),

Gene: Kingsley_19 Start: 17253, Stop: 19730, Start Num: 53

Candidate Starts for Kingsley_19:

(48, 17241), (Start: 53 @17253 has 233 MA's), (62, 17274), (Start: 72 @17295 has 1 MA's), (96, 17334), (129, 17403), (130, 17412), (131, 17415), (139, 17433), (149, 17466), (152, 17481), (186, 17568), (191, 17583), (201, 17619), (203, 17625), (217, 17658), (220, 17670), (259, 17841), (262, 17850), (271, 17874), (284, 17928), (297, 17964), (299, 17970), (306, 18000), (319, 18030), (325, 18051), (328, 18060), (346, 18144), (358, 18207), (364, 18225), (367, 18234), (374, 18255), (375, 18258), (382, 18276), (385, 18288), (390, 18315), (392, 18324), (401, 18375), (402, 18384), (404, 18387), (409, 18414), (411, 18423), (415, 18444), (437, 18522), (438, 18525), (468, 18633), (469, 18639), (478, 18687), (485, 18729), (486, 18732), (489, 18753), (490, 18759), (491, 18762), (501, 18792), (532, 18933), (536, 18951), (543, 18984), (550, 19008), (551, 19011), (553, 19026), (558, 19047), (565, 19083), (566, 19089), (571, 19116), (579, 19143), (600, 19278), (612, 19326), (615, 19350), (619, 19356), (628, 19374), (646, 19473), (649, 19494), (652, 19512), (664, 19590), (672, 19611), (681, 19674), (682, 19692), (685, 19710),

Gene: Konstantine_34 Start: 26883, Stop: 29726, Start Num: 17

Candidate Starts for Konstantine_34:

(Start: 17 @26883 has 8 MA's), (30, 27015), (31, 27027), (35, 27036), (49, 27105), (76, 27171), (86, 27192), (108, 27240), (125, 27282), (134, 27306), (145, 27339), (154, 27375), (160, 27387), (185, 27480), (201, 27537), (212, 27576), (254, 27771), (260, 27801), (273, 27843), (316, 27984), (322, 28002), (340, 28083), (349, 28122), (353, 28143), (391, 28281), (398, 28320), (411, 28383), (438, 28485), (488, 28710), (571, 29073), (579, 29100), (629, 29343), (632, 29376), (638, 29400), (657, 29520), (673, 29598), (684, 29685), (686, 29700), (687, 29706),

Gene: Kostya_26 Start: 22283, Stop: 24679, Start Num: 99

Candidate Starts for Kostya_26:

(Start: 99 @22283 has 127 MA's), (164, 22460), (170, 22481), (225, 22628), (254, 22769), (261, 22802), (271, 22835), (277, 22871), (306, 22964), (328, 23024), (333, 23042), (349, 23123), (404, 23351), (412, 23396), (467, 23591), (468, 23597), (470, 23606), (478, 23651), (480, 23666), (515, 23822), (518, 23840), (521, 23849), (553, 23978), (554, 23981), (594, 24191), (597, 24203), (628, 24317), (664, 24533), (678, 24617), (682, 24641), (684, 24650),

Gene: Krakatau_19 Start: 18095, Stop: 20632, Start Num: 53

Candidate Starts for Krakatau_19:

(Start: 53 @18095 has 233 MA's), (62, 18116), (Start: 72 @18137 has 1 MA's), (90, 18176), (129, 18245), (130, 18254), (131, 18257), (139, 18275), (149, 18308), (152, 18323), (167, 18371), (200, 18482), (201, 18485), (213, 18515), (216, 18527), (217, 18530), (240, 18632), (253, 18698), (262, 18743), (271, 18773), (273, 18779), (274, 18797), (283, 18821), (285, 18830), (297, 18863), (299,

18869), (306, 18899), (322, 18938), (325, 18950), (328, 18959), (332, 18974), (334, 18980), (355, 19088), (356, 19091), (357, 19100), (358, 19106), (362, 19121), (364, 19124), (372, 19145), (382, 19175), (385, 19187), (391, 19220), (412, 19331), (413, 19334), (421, 19361), (423, 19367), (437, 19421), (438, 19424), (467, 19526), (469, 19538), (470, 19541), (481, 19607), (486, 19631), (489, 19652), (491, 19661), (506, 19721), (507, 19724), (515, 19760), (518, 19778), (523, 19790), (525, 19799), (533, 19826), (550, 19895), (553, 19913), (556, 19922), (558, 19934), (565, 19970), (570, 20000), (576, 20021), (583, 20045), (587, 20081), (595, 20135), (610, 20195), (617, 20237), (634, 20315), (646, 20372), (650, 20396), (658, 20450), (664, 20498), (677, 20564), (678, 20567),

Gene: Krili_57 Start: 35606, Stop: 38116, Start Num: 63

Candidate Starts for Krili_57:

(Start: 63 @35606 has 33 MA's), (81, 35639), (111, 35708), (112, 35711), (121, 35735), (131, 35759), (141, 35783), (149, 35816), (206, 36023), (209, 36035), (210, 36038), (244, 36185), (247, 36215), (253, 36239), (262, 36269), (264, 36272), (271, 36299), (274, 36323), (284, 36353), (302, 36410), (307, 36434), (322, 36470), (325, 36482), (332, 36506), (333, 36509), (340, 36551), (362, 36647), (364, 36650), (430, 36905), (467, 37049), (478, 37109), (488, 37181), (489, 37184), (512, 37280), (553, 37454), (558, 37475), (579, 37568), (582, 37580), (595, 37670), (613, 37745), (633, 37790), (670, 37991), (676, 38045), (681, 38060),

Gene: KristaRAM_19 Start: 18070, Stop: 20607, Start Num: 53

Candidate Starts for KristaRAM_19:

(47, 18058), (Start: 53 @18070 has 233 MA's), (62, 18091), (Start: 72 @18112 has 1 MA's), (90, 18151), (129, 18220), (130, 18229), (131, 18232), (139, 18250), (149, 18283), (152, 18298), (167, 18346), (200, 18457), (201, 18460), (213, 18490), (216, 18502), (217, 18505), (233, 18583), (240, 18607), (253, 18673), (262, 18718), (271, 18748), (273, 18754), (274, 18772), (283, 18796), (285, 18805), (297, 18838), (299, 18844), (306, 18874), (322, 18913), (325, 18925), (328, 18934), (332, 18949), (333, 18952), (355, 19063), (356, 19066), (357, 19075), (358, 19081), (362, 19096), (364, 19099), (372, 19120), (382, 19150), (385, 19162), (391, 19195), (412, 19306), (413, 19309), (421, 19336), (423, 19342), (437, 19396), (438, 19399), (465, 19486), (467, 19501), (469, 19513), (470, 19516), (481, 19582), (486, 19606), (489, 19627), (491, 19636), (506, 19696), (507, 19699), (515, 19735), (518, 19753), (523, 19765), (525, 19774), (533, 19801), (550, 19870), (553, 19888), (556, 19897), (558, 19909), (565, 19945), (570, 19975), (576, 19996), (583, 20020), (587, 20056), (595, 20110), (610, 20170), (617, 20212), (634, 20290), (646, 20347), (650, 20371), (658, 20425), (664, 20473), (675, 20515), (677, 20539), (678, 20542),

Gene: Kumao_30 Start: 23701, Stop: 26268, Start Num: 54

Candidate Starts for Kumao_30:

(Start: 54 @23701 has 6 MA's), (83, 23767), (139, 23899), (146, 23923), (156, 23956), (176, 24031), (184, 24049), (198, 24100), (216, 24166), (259, 24370), (285, 24469), (297, 24502), (311, 24553), (344, 24676), (345, 24679), (391, 24856), (404, 24922), (419, 24988), (424, 25006), (431, 25021), (434, 25045), (466, 25150), (467, 25162), (492, 25300), (513, 25399), (515, 25405), (520, 25435), (532, 25477), (573, 25660), (574, 25663), (579, 25684), (580, 25690), (595, 25789), (603, 25828), (624, 25915), (645, 26014), (653, 26065), (656, 26083), (662, 26137), (677, 26212),

Gene: LaterM_27 Start: 20812, Stop: 23244, Start Num: 82

Candidate Starts for LaterM_27:

(Start: 82 @20812 has 96 MA's), (107, 20869), (125, 20911), (210, 21172), (217, 21193), (260, 21400), (270, 21433), (275, 21463), (301, 21535), (306, 21559), (323, 21604), (355, 21757), (366, 21814), (370, 21823), (381, 21859), (385, 21874), (421, 22054), (426, 22069), (441, 22138), (445, 22150), (461, 22213), (470, 22255), (478, 22294), (479, 22300), (480, 22309), (484, 22330), (496, 22390), (508, 22438), (509, 22441), (513, 22456), (523, 22498), (525, 22507), (538, 22564), (555, 22621), (557, 22630), (562, 22651), (569, 22696), (580, 22744), (595, 22840), (643, 23068), (665, 23215),

Gene: Latretium_19 Start: 18077, Stop: 20614, Start Num: 53

Candidate Starts for Latretium_19:

(47, 18065), (Start: 53 @18077 has 233 MA's), (62, 18098), (Start: 72 @18119 has 1 MA's), (90, 18158), (129, 18227), (130, 18236), (131, 18239), (139, 18257), (152, 18305), (200, 18464), (201, 18467), (213, 18497), (217, 18512), (233, 18590), (239, 18611), (240, 18614), (253, 18680), (271, 18755), (273, 18761), (274, 18779), (283, 18803), (284, 18809), (285, 18812), (297, 18845), (299, 18851), (306, 18881), (316, 18902), (325, 18932), (328, 18941), (350, 19049), (355, 19070), (356, 19073), (357, 19082), (358, 19088), (362, 19103), (364, 19106), (372, 19127), (385, 19169), (391, 19202), (421, 19343), (423, 19349), (437, 19403), (438, 19406), (449, 19433), (467, 19508), (469, 19520), (470, 19523), (481, 19589), (486, 19613), (489, 19634), (491, 19643), (506, 19703), (507, 19706), (515, 19742), (518, 19760), (525, 19781), (533, 19808), (549, 19865), (550, 19877), (553, 19895), (556, 19904), (558, 19916), (565, 19952), (570, 19982), (587, 20063), (595, 20117), (610, 20177), (617, 20219), (646, 20354), (650, 20378), (658, 20432), (675, 20522), (677, 20546), (678, 20549),

Gene: LeMond_26 Start: 20112, Stop: 22571, Start Num: 82

Candidate Starts for LeMond_26:

(Start: 82 @20112 has 96 MA's), (103, 20160), (147, 20283), (164, 20340), (166, 20352), (200, 20445), (208, 20469), (223, 20520), (256, 20682), (284, 20793), (295, 20832), (301, 20856), (337, 20979), (350, 21051), (368, 21138), (389, 21219), (409, 21321), (421, 21375), (436, 21435), (456, 21513), (458, 21525), (461, 21534), (470, 21576), (478, 21621), (480, 21636), (499, 21723), (505, 21747), (520, 21819), (536, 21876), (562, 21987), (565, 22011), (569, 22032), (581, 22083), (602, 22212), (629, 22317), (665, 22542),

Gene: Lemuria_23 Start: 20578, Stop: 23055, Start Num: 33

Candidate Starts for Lemuria_23:

(Start: 33 @20578 has 9 MA's), (65, 20686), (87, 20722), (95, 20740), (213, 21052), (270, 21295), (294, 21340), (327, 21442), (331, 21457), (346, 21523), (349, 21538), (359, 21589), (371, 21625), (389, 21691), (395, 21718), (437, 21916), (454, 21991), (500, 22216), (514, 22276), (524, 22321), (562, 22459), (581, 22555), (603, 22693), (659, 22993),

Gene: Leozinho_19 Start: 17243, Stop: 19780, Start Num: 53

Candidate Starts for Leozinho_19:

(47, 17231), (Start: 53 @17243 has 233 MA's), (62, 17264), (Start: 72 @17285 has 1 MA's), (90, 17324), (129, 17393), (130, 17402), (131, 17405), (139, 17423), (149, 17456), (152, 17471), (167, 17519), (200, 17630), (201, 17633), (213, 17663), (216, 17675), (217, 17678), (233, 17756), (240, 17780), (253, 17846), (262, 17891), (271, 17921), (273, 17927), (274, 17945), (283, 17969), (285, 17978), (297, 18011), (299, 18017), (306, 18047), (322, 18086), (325, 18098), (328, 18107), (332, 18122), (333, 18125), (355, 18236), (356, 18239), (357, 18248), (358, 18254), (362, 18269), (364, 18272), (372, 18293), (382, 18323), (385, 18335), (391, 18368), (412, 18479), (413, 18482), (421, 18509), (423, 18515), (437, 18569), (438, 18572), (467, 18674), (469, 18686), (470, 18689), (481, 18755), (486, 18779), (489, 18800), (491, 18809), (506, 18869), (507, 18872), (515, 18908), (518, 18926), (523, 18938), (525, 18947), (533, 18974), (550, 19043), (553, 19061), (556, 19070), (558, 19082), (565, 19118), (570, 19148), (576, 19169), (583, 19193), (587, 19229), (595, 19283), (610, 19343), (617, 19385), (634, 19463), (646, 19520), (650, 19544), (658, 19598), (664, 19646), (675, 19688), (677, 19712), (678, 19715),

Gene: Leperchaun_18 Start: 17387, Stop: 19939, Start Num: 53

Candidate Starts for Leperchaun_18:

(Start: 53 @17387 has 233 MA's), (62, 17408), (69, 17429), (94, 17468), (129, 17537), (130, 17546), (131, 17549), (139, 17567), (149, 17600), (152, 17615), (167, 17663), (200, 17774), (201, 17777), (214, 17810), (216, 17819), (217, 17822), (233, 17900), (247, 17966), (254, 17999), (267, 18053), (271, 18065), (283, 18113), (285, 18122), (289, 18131), (300, 18164), (316, 18206), (321, 18221),

(329, 18251), (331, 18257), (332, 18260), (333, 18263), (338, 18290), (342, 18311), (349, 18344), (357, 18386), (358, 18392), (359, 18395), (362, 18407), (364, 18410), (373, 18437), (382, 18461), (385, 18473), (391, 18506), (396, 18527), (409, 18599), (413, 18620), (443, 18731), (453, 18755), (454, 18758), (460, 18782), (467, 18812), (472, 18836), (478, 18872), (479, 18878), (480, 18887), (498, 18977), (502, 19001), (504, 19016), (513, 19058), (515, 19064), (527, 19109), (551, 19205), (553, 19220), (556, 19229), (561, 19253), (574, 19316), (642, 19658), (650, 19703), (664, 19805),

Gene: LilMcDreamy_27 Start: 29183, Stop: 31675, Start Num: 38

Candidate Starts for LilMcDreamy_27:

(Start: 38 @29183 has 6 MA's), (61, 29261), (98, 29336), (272, 29906), (280, 29930), (320, 30029), (327, 30053), (329, 30062), (338, 30095), (341, 30113), (351, 30161), (384, 30275), (389, 30302), (397, 30341), (415, 30437), (421, 30461), (437, 30527), (461, 30623), (469, 30662), (495, 30806), (508, 30857), (516, 30896), (519, 30905), (532, 30950), (559, 31061), (581, 31172), (595, 31271), (631, 31430), (648, 31532), (659, 31613),

Gene: LilMoolah_18 Start: 17531, Stop: 20056, Start Num: 53

Candidate Starts for LilMoolah_18:

(Start: 53 @17531 has 233 MA's), (62, 17552), (69, 17573), (94, 17612), (129, 17681), (130, 17690), (131, 17693), (139, 17711), (152, 17759), (167, 17807), (200, 17918), (201, 17921), (214, 17954), (217, 17966), (233, 18044), (247, 18110), (254, 18143), (267, 18197), (271, 18209), (284, 18263), (285, 18266), (289, 18275), (300, 18308), (314, 18347), (316, 18350), (321, 18365), (322, 18368), (329, 18395), (331, 18401), (332, 18404), (333, 18407), (338, 18434), (341, 18452), (342, 18455), (357, 18530), (362, 18551), (364, 18554), (373, 18581), (382, 18605), (391, 18650), (392, 18653), (401, 18704), (413, 18767), (415, 18776), (422, 18800), (454, 18905), (455, 18908), (467, 18959), (468, 18965), (469, 18971), (470, 18974), (478, 19019), (480, 19034), (485, 19061), (489, 19085), (502, 19136), (506, 19154), (507, 19157), (508, 19169), (523, 19223), (553, 19346), (566, 19409), (581, 19472), (591, 19547), (637, 19748), (674, 19958), (680, 19997), (681, 20000),

Gene: Lilac_28 Start: 21781, Stop: 24177, Start Num: 99

Candidate Starts for Lilac_28:

(Start: 99 @21781 has 127 MA's), (164, 21958), (170, 21979), (225, 22126), (261, 22300), (271, 22333), (277, 22369), (306, 22462), (328, 22522), (333, 22540), (359, 22672), (374, 22717), (404, 22849), (412, 22894), (433, 22954), (464, 23068), (467, 23089), (475, 23128), (478, 23149), (480, 23164), (513, 23314), (515, 23320), (518, 23338), (534, 23392), (553, 23476), (574, 23569), (628, 23815), (664, 24031), (678, 24115), (684, 24148),

Gene: Lilizi_28 Start: 21989, Stop: 24385, Start Num: 99

Candidate Starts for Lilizi_28:

(Start: 99 @21989 has 127 MA's), (164, 22166), (170, 22187), (225, 22334), (261, 22508), (271, 22541), (277, 22577), (306, 22670), (328, 22730), (333, 22748), (359, 22880), (374, 22925), (404, 23057), (412, 23102), (433, 23162), (464, 23276), (467, 23297), (475, 23336), (478, 23357), (480, 23372), (513, 23522), (515, 23528), (518, 23546), (534, 23600), (553, 23684), (574, 23777), (628, 24023), (664, 24239), (678, 24323), (684, 24356),

Gene: Lilpickle_25 Start: 21491, Stop: 23887, Start Num: 99

Candidate Starts for Lilpickle_25:

(Start: 99 @21491 has 127 MA's), (164, 21668), (170, 21689), (225, 21836), (261, 22010), (271, 22043), (277, 22079), (306, 22172), (328, 22232), (333, 22250), (359, 22382), (374, 22427), (404, 22559), (412, 22604), (433, 22664), (464, 22778), (467, 22799), (475, 22838), (478, 22859), (480, 22874), (513, 23024), (515, 23030), (518, 23048), (534, 23102), (553, 23186), (574, 23279), (628, 23525), (664, 23741), (678, 23825), (684, 23858),

Gene: LindNT_27 Start: 20846, Stop: 23278, Start Num: 82

Candidate Starts for LindNT_27:

(Start: 82 @20846 has 96 MA's), (125, 20945), (210, 21206), (260, 21434), (270, 21467), (275, 21497), (301, 21569), (306, 21593), (323, 21638), (355, 21791), (363, 21836), (366, 21848), (370, 21857), (381, 21893), (385, 21908), (421, 22088), (426, 22103), (441, 22172), (445, 22184), (461, 22247), (470, 22289), (478, 22328), (479, 22334), (480, 22343), (484, 22364), (496, 22424), (525, 22541), (536, 22583), (555, 22655), (557, 22664), (562, 22685), (575, 22757), (580, 22778), (595, 22874), (643, 23102), (665, 23249),

Gene: LittleE_39 Start: 30972, Stop: 33527, Start Num: 53

Candidate Starts for LittleE_39:

(Start: 53 @30972 has 233 MA's), (139, 31167), (149, 31203), (152, 31218), (167, 31266), (200, 31377), (201, 31380), (213, 31410), (217, 31425), (233, 31503), (240, 31527), (253, 31593), (262, 31638), (271, 31668), (273, 31674), (274, 31692), (283, 31716), (285, 31725), (297, 31758), (299, 31764), (306, 31794), (322, 31833), (325, 31845), (328, 31854), (332, 31869), (333, 31872), (355, 31983), (356, 31986), (357, 31995), (358, 32001), (362, 32016), (364, 32019), (382, 32070), (385, 32082), (391, 32115), (404, 32181), (412, 32226), (413, 32229), (421, 32256), (423, 32262), (437, 32316), (438, 32319), (465, 32406), (467, 32421), (469, 32433), (470, 32436), (481, 32502), (489, 32547), (491, 32556), (506, 32616), (507, 32619), (515, 32655), (518, 32673), (523, 32685), (525, 32694), (533, 32721), (550, 32790), (553, 32808), (556, 32817), (558, 32829), (565, 32865), (570, 32895), (576, 32916), (583, 32940), (587, 32976), (595, 33030), (610, 33090), (617, 33132), (646, 33267), (650, 33291), (658, 33345), (664, 33393), (675, 33435), (677, 33459), (678, 33462),

Gene: LittleMinkey_35 Start: 28887, Stop: 31370, Start Num: 38

Candidate Starts for LittleMinkey_35:

(Start: 38 @28887 has 6 MA's), (42, 28896), (77, 29001), (79, 29004), (93, 29034), (106, 29058), (108, 29061), (239, 29478), (246, 29514), (261, 29580), (272, 29610), (296, 29676), (308, 29718), (338, 29811), (342, 29832), (353, 29886), (390, 30024), (395, 30045), (411, 30129), (436, 30234), (442, 30261), (456, 30315), (489, 30489), (500, 30531), (606, 31017), (659, 31308), (662, 31344), (667, 31353),

Gene: LittleShirley_19 Start: 17218, Stop: 19755, Start Num: 53

Candidate Starts for LittleShirley_19:

(Start: 53 @17218 has 233 MA's), (62, 17239), (Start: 72 @17260 has 1 MA's), (90, 17299), (129, 17368), (130, 17377), (131, 17380), (139, 17398), (152, 17446), (198, 17599), (201, 17608), (217, 17653), (239, 17752), (240, 17755), (253, 17821), (271, 17896), (273, 17902), (274, 17920), (283, 17944), (284, 17950), (285, 17953), (297, 17986), (299, 17992), (306, 18022), (316, 18043), (325, 18073), (328, 18082), (332, 18097), (333, 18100), (355, 18211), (356, 18214), (357, 18223), (358, 18229), (362, 18244), (364, 18247), (372, 18268), (382, 18298), (385, 18310), (391, 18343), (412, 18454), (413, 18457), (421, 18484), (423, 18490), (437, 18544), (438, 18547), (467, 18649), (469, 18661), (470, 18664), (481, 18730), (486, 18754), (489, 18775), (491, 18784), (506, 18844), (507, 18847), (515, 18883), (518, 18901), (523, 18913), (525, 18922), (533, 18949), (549, 19006), (550, 19018), (553, 19036), (556, 19045), (558, 19057), (565, 19093), (570, 19123), (574, 19132), (576, 19144), (587, 19204), (595, 19258), (610, 19318), (617, 19360), (646, 19495), (650, 19519), (658, 19573), (664, 19621), (675, 19663), (677, 19687), (678, 19690),

Gene: Lizziana_18 Start: 17406, Stop: 19931, Start Num: 53

Candidate Starts for Lizziana_18:

(Start: 53 @17406 has 233 MA's), (94, 17487), (129, 17556), (130, 17565), (131, 17568), (139, 17586), (152, 17634), (166, 17679), (200, 17793), (201, 17796), (205, 17808), (214, 17829), (216, 17838), (217, 17841), (228, 17889), (233, 17919), (247, 17985), (254, 18018), (262, 18054), (269, 18078), (284, 18138), (285, 18141), (292, 18159), (314, 18222), (316, 18225), (322, 18243), (328, 18264), (333, 18282), (338, 18309), (342, 18330), (349, 18363), (358, 18411), (359, 18414), (362, 18426), (364, 18429), (373, 18456), (382, 18480), (391, 18525), (415, 18651), (422, 18675), (455, 18783),

(467, 18834), (469, 18846), (470, 18849), (478, 18894), (480, 18909), (485, 18936), (489, 18960), (502, 19011), (506, 19029), (507, 19032), (508, 19044), (523, 19098), (534, 19140), (566, 19284), (579, 19338), (580, 19344), (581, 19347), (585, 19383), (586, 19386), (589, 19395), (591, 19422), (637, 19623), (664, 19794), (674, 19833), (680, 19872), (681, 19875),

Gene: Llama_18 Start: 17634, Stop: 20171, Start Num: 53

Candidate Starts for Llama_18:

(Start: 53 @17634 has 233 MA's), (62, 17655), (Start: 72 @17676 has 1 MA's), (90, 17715), (129, 17784), (130, 17793), (131, 17796), (139, 17814), (152, 17862), (200, 18021), (201, 18024), (216, 18066), (217, 18069), (233, 18147), (239, 18168), (240, 18171), (253, 18237), (254, 18246), (262, 18282), (271, 18312), (273, 18318), (283, 18360), (284, 18366), (285, 18369), (297, 18402), (299, 18408), (306, 18438), (316, 18459), (325, 18489), (328, 18498), (350, 18606), (353, 18618), (355, 18627), (356, 18630), (357, 18639), (358, 18645), (362, 18660), (364, 18663), (372, 18684), (385, 18726), (391, 18759), (421, 18900), (423, 18906), (437, 18960), (438, 18963), (449, 18990), (467, 19065), (469, 19077), (470, 19080), (481, 19146), (485, 19167), (486, 19170), (489, 19191), (502, 19242), (506, 19260), (507, 19263), (513, 19293), (518, 19317), (523, 19329), (550, 19434), (553, 19452), (556, 19461), (558, 19473), (565, 19509), (570, 19539), (576, 19560), (583, 19584), (587, 19620), (610, 19734), (617, 19776), (634, 19854), (646, 19911), (650, 19935), (658, 19989), (664, 20037), (675, 20079), (677, 20103), (678, 20106),

Gene: Llij_18 Start: 17383, Stop: 19920, Start Num: 53

Candidate Starts for Llij_18:

(Start: 53 @17383 has 233 MA's), (101, 17473), (129, 17533), (130, 17542), (131, 17545), (139, 17563), (152, 17611), (167, 17659), (198, 17764), (200, 17770), (201, 17773), (216, 17815), (217, 17818), (240, 17920), (253, 17986), (262, 18031), (271, 18061), (273, 18067), (274, 18085), (283, 18109), (285, 18118), (297, 18151), (299, 18157), (316, 18208), (322, 18226), (325, 18238), (328, 18247), (332, 18262), (334, 18268), (355, 18376), (357, 18388), (358, 18394), (362, 18409), (364, 18412), (372, 18433), (382, 18463), (385, 18475), (391, 18508), (404, 18574), (412, 18619), (413, 18622), (421, 18649), (423, 18655), (437, 18709), (438, 18712), (449, 18739), (467, 18814), (469, 18826), (470, 18829), (481, 18895), (485, 18916), (486, 18919), (491, 18949), (502, 18991), (506, 19009), (507, 19012), (513, 19042), (518, 19066), (523, 19078), (525, 19087), (550, 19183), (553, 19201), (556, 19210), (558, 19222), (570, 19288), (574, 19297), (576, 19309), (587, 19369), (617, 19525), (646, 19660), (650, 19684), (658, 19738), (672, 19807), (677, 19852), (678, 19855),

Gene: Llorens_27 Start: 20912, Stop: 23344, Start Num: 82

Candidate Starts for Llorens_27:

(Start: 82 @20912 has 96 MA's), (125, 21011), (210, 21272), (217, 21293), (260, 21500), (270, 21533), (275, 21563), (301, 21635), (306, 21659), (355, 21857), (363, 21902), (366, 21914), (370, 21923), (385, 21974), (421, 22154), (426, 22169), (441, 22238), (445, 22250), (461, 22313), (470, 22355), (478, 22394), (479, 22400), (480, 22409), (484, 22430), (496, 22490), (525, 22607), (536, 22649), (555, 22721), (557, 22730), (562, 22751), (575, 22823), (580, 22844), (595, 22940), (628, 23087), (643, 23168), (665, 23315),

Gene: Lorde_19 Start: 17219, Stop: 19756, Start Num: 53

Candidate Starts for Lorde_19:

(47, 17207), (Start: 53 @17219 has 233 MA's), (62, 17240), (Start: 72 @17261 has 1 MA's), (90, 17300), (129, 17369), (130, 17378), (131, 17381), (139, 17399), (149, 17432), (152, 17447), (167, 17495), (198, 17600), (201, 17609), (216, 17651), (217, 17654), (233, 17732), (240, 17756), (253, 17822), (262, 17867), (271, 17897), (273, 17903), (274, 17921), (283, 17945), (285, 17954), (297, 17987), (299, 17993), (306, 18023), (322, 18062), (325, 18074), (328, 18083), (332, 18098), (333, 18101), (355, 18212), (357, 18224), (358, 18230), (362, 18245), (364, 18248), (372, 18269), (382, 18299), (385, 18311), (391, 18344), (404, 18410), (412, 18455), (413, 18458), (421, 18485), (423, 18491), (437, 18545), (438, 18548), (449, 18575), (467, 18650), (469, 18662), (470, 18665), (481,

18731), (486, 18755), (491, 18785), (502, 18827), (506, 18845), (507, 18848), (515, 18884), (518, 18902), (525, 18923), (533, 18950), (550, 19019), (553, 19037), (556, 19046), (558, 19058), (565, 19094), (570, 19124), (574, 19133), (576, 19145), (587, 19205), (595, 19259), (610, 19319), (617, 19361), (634, 19439), (646, 19496), (650, 19520), (658, 19574), (664, 19622), (675, 19664), (677, 19688), (678, 19691),

Gene: Lucia_19 Start: 17421, Stop: 19973, Start Num: 53

Candidate Starts for Lucia_19:

(Start: 53 @17421 has 233 MA's), (62, 17442), (69, 17463), (94, 17502), (129, 17571), (130, 17580), (131, 17583), (139, 17601), (149, 17634), (152, 17649), (167, 17697), (200, 17808), (201, 17811), (214, 17844), (216, 17853), (217, 17856), (233, 17934), (247, 18000), (254, 18033), (267, 18087), (271, 18099), (283, 18147), (285, 18156), (289, 18165), (300, 18198), (316, 18240), (321, 18255), (329, 18285), (331, 18291), (332, 18294), (333, 18297), (338, 18324), (342, 18345), (349, 18378), (357, 18420), (358, 18426), (359, 18429), (362, 18441), (364, 18444), (373, 18471), (382, 18495), (385, 18507), (391, 18540), (396, 18561), (409, 18633), (413, 18654), (443, 18765), (453, 18789), (454, 18792), (460, 18816), (467, 18846), (472, 18870), (478, 18906), (479, 18912), (480, 18921), (498, 19011), (502, 19035), (504, 19050), (513, 19092), (515, 19098), (527, 19143), (551, 19239), (553, 19254), (556, 19263), (561, 19287), (574, 19350), (595, 19476), (642, 19692), (650, 19737), (664, 19839), (681, 19917),

Gene: Lucky2013_36 Start: 27869, Stop: 30376, Start Num: 53

Candidate Starts for Lucky2013_36:

(Start: 53 @27869 has 233 MA's), (139, 28064), (149, 28100), (152, 28115), (186, 28202), (191, 28217), (217, 28292), (220, 28304), (228, 28331), (250, 28436), (259, 28475), (262, 28484), (271, 28508), (273, 28514), (274, 28532), (281, 28550), (285, 28565), (289, 28574), (292, 28583), (297, 28598), (304, 28625), (306, 28634), (322, 28673), (325, 28685), (328, 28694), (346, 28778), (364, 28859), (374, 28889), (375, 28892), (385, 28922), (390, 28949), (392, 28958), (401, 29009), (402, 29018), (404, 29021), (411, 29057), (415, 29078), (429, 29114), (468, 29267), (478, 29321), (486, 29366), (488, 29384), (489, 29387), (501, 29426), (532, 29573), (534, 29582), (551, 29651), (553, 29666), (587, 29831), (600, 29918), (612, 29966), (628, 30017), (641, 30095), (679, 30317), (681, 30320), (684, 30347),

Gene: LunaBlu_19 Start: 17477, Stop: 20014, Start Num: 53

Candidate Starts for LunaBlu_19:

(Start: 53 @17477 has 233 MA's), (101, 17567), (129, 17627), (130, 17636), (131, 17639), (139, 17657), (149, 17690), (152, 17705), (167, 17753), (200, 17864), (201, 17867), (213, 17897), (217, 17912), (233, 17990), (253, 18080), (262, 18125), (271, 18155), (273, 18161), (274, 18179), (283, 18203), (285, 18212), (297, 18245), (299, 18251), (306, 18281), (322, 18320), (325, 18332), (328, 18341), (332, 18356), (333, 18359), (355, 18470), (357, 18482), (358, 18488), (362, 18503), (364, 18506), (372, 18527), (382, 18557), (385, 18569), (391, 18602), (404, 18668), (412, 18713), (413, 18716), (421, 18743), (423, 18749), (437, 18803), (438, 18806), (467, 18908), (469, 18920), (470, 18923), (481, 18989), (486, 19013), (491, 19043), (506, 19103), (507, 19106), (515, 19142), (518, 19160), (523, 19172), (525, 19181), (533, 19208), (550, 19277), (553, 19295), (556, 19304), (558, 19316), (565, 19352), (570, 19382), (576, 19403), (583, 19427), (587, 19463), (595, 19517), (610, 19577), (617, 19619), (634, 19697), (646, 19754), (650, 19778), (658, 19832), (664, 19880), (675, 19922), (677, 19946), (678, 19949),

Gene: LunaStella_20 Start: 17940, Stop: 20417, Start Num: 56

Candidate Starts for LunaStella_20:

(Start: 56 @17940 has 3 MA's), (62, 17952), (100, 18015), (112, 18042), (135, 18096), (139, 18105), (141, 18111), (149, 18138), (161, 18171), (186, 18243), (191, 18258), (201, 18294), (204, 18303), (215, 18321), (220, 18345), (227, 18369), (259, 18516), (262, 18525), (271, 18549), (274, 18573), (283, 18597), (284, 18603), (292, 18624), (299, 18645), (306, 18675), (319, 18705), (325, 18726),

(346, 18819), (349, 18834), (350, 18843), (352, 18852), (355, 18864), (356, 18867), (382, 18951), (383, 18954), (385, 18963), (390, 18990), (392, 18999), (399, 19038), (402, 19059), (404, 19062), (411, 19098), (415, 19119), (437, 19197), (438, 19200), (456, 19254), (469, 19314), (484, 19401), (486, 19407), (488, 19425), (489, 19428), (501, 19464), (511, 19518), (513, 19527), (532, 19605), (536, 19623), (545, 19659), (547, 19662), (550, 19680), (551, 19683), (553, 19698), (565, 19755), (568, 19767), (583, 19830), (587, 19863), (600, 19950), (612, 19998), (615, 20022), (623, 20049), (628, 20058), (633, 20097), (641, 20136), (646, 20160), (649, 20181), (664, 20277), (672, 20298), (681, 20361), (684, 20388), (685, 20397),

Gene: Lunahalos_27 Start: 20912, Stop: 23344, Start Num: 82

Candidate Starts for Lunahalos_27:

(Start: 82 @20912 has 96 MA's), (125, 21011), (210, 21272), (217, 21293), (260, 21500), (270, 21533), (275, 21563), (301, 21635), (306, 21659), (355, 21857), (363, 21902), (366, 21914), (370, 21923), (385, 21974), (421, 22154), (426, 22169), (441, 22238), (445, 22250), (461, 22313), (470, 22355), (478, 22394), (479, 22400), (480, 22409), (484, 22430), (496, 22490), (525, 22607), (536, 22649), (555, 22721), (557, 22730), (562, 22751), (575, 22823), (580, 22844), (595, 22940), (628, 23087), (643, 23168), (665, 23315),

Gene: MISSy_25 Start: 21796, Stop: 24192, Start Num: 99

Candidate Starts for MISSy_25:

(Start: 99 @21796 has 127 MA's), (164, 21973), (170, 21994), (225, 22141), (254, 22282), (261, 22315), (271, 22348), (277, 22384), (306, 22477), (328, 22537), (333, 22555), (359, 22687), (374, 22732), (404, 22864), (412, 22909), (433, 22969), (464, 23083), (467, 23104), (475, 23143), (478, 23164), (480, 23179), (513, 23329), (515, 23335), (518, 23353), (534, 23407), (553, 23491), (574, 23584), (628, 23830), (664, 24046), (678, 24130), (684, 24163),

Gene: MOOREtheMARYer_23 Start: 20802, Stop: 23264, Start Num: 33

Candidate Starts for MOOREtheMARYer_23:

(Start: 33 @20802 has 9 MA's), (131, 21030), (145, 21072), (155, 21105), (191, 21210), (239, 21393), (252, 21453), (297, 21576), (308, 21615), (326, 21663), (327, 21666), (349, 21762), (353, 21783), (365, 21837), (389, 21918), (391, 21927), (397, 21954), (421, 22074), (430, 22101), (442, 22161), (456, 22209), (459, 22224), (473, 22290), (480, 22332), (500, 22425), (583, 22770), (587, 22809), (601, 22896), (614, 22968), (645, 23097), (659, 23202), (667, 23247),

Gene: MPhalcon_25 Start: 21790, Stop: 24186, Start Num: 99

Candidate Starts for MPhalcon_25:

(Start: 99 @21790 has 127 MA's), (164, 21967), (170, 21988), (225, 22135), (254, 22276), (261, 22309), (271, 22342), (277, 22378), (306, 22471), (328, 22531), (333, 22549), (359, 22681), (374, 22726), (404, 22858), (412, 22903), (433, 22963), (464, 23077), (467, 23098), (475, 23137), (478, 23158), (480, 23173), (513, 23323), (515, 23329), (518, 23347), (534, 23401), (553, 23485), (574, 23578), (628, 23824), (664, 24040), (678, 24124), (684, 24157),

Gene: MacKat_27 Start: 20889, Stop: 23321, Start Num: 82

Candidate Starts for MacKat_27:

(Start: 82 @20889 has 96 MA's), (125, 20988), (210, 21249), (217, 21270), (260, 21477), (270, 21510), (275, 21540), (301, 21612), (306, 21636), (323, 21681), (355, 21834), (363, 21879), (366, 21891), (370, 21900), (385, 21951), (421, 22131), (426, 22146), (441, 22215), (445, 22227), (461, 22290), (470, 22332), (478, 22371), (479, 22377), (480, 22386), (484, 22407), (496, 22467), (525, 22584), (536, 22626), (555, 22698), (557, 22707), (562, 22728), (575, 22800), (580, 22821), (595, 22917), (643, 23145), (665, 23292),

Gene: MadKillah_59 Start: 35875, Stop: 38385, Start Num: 63

Candidate Starts for MadKillah_59:

(Start: 63 @35875 has 33 MA's), (81, 35908), (111, 35977), (112, 35980), (121, 36004), (131, 36028), (141, 36052), (149, 36085), (206, 36292), (209, 36304), (210, 36307), (244, 36454), (247, 36484), (253, 36508), (262, 36538), (264, 36541), (271, 36568), (274, 36592), (284, 36622), (302, 36679), (307, 36703), (322, 36739), (325, 36751), (332, 36775), (333, 36778), (340, 36820), (362, 36916), (364, 36919), (430, 37174), (467, 37318), (478, 37378), (488, 37450), (489, 37453), (512, 37549), (553, 37723), (558, 37744), (579, 37837), (582, 37849), (595, 37939), (613, 38014), (633, 38059), (670, 38260), (676, 38314), (681, 38329),

Gene: MadMen_19 Start: 17637, Stop: 20129, Start Num: 53

Candidate Starts for MadMen_19:

(Start: 53 @17637 has 233 MA's), (62, 17658), (Start: 72 @17679 has 1 MA's), (96, 17718), (129, 17787), (130, 17796), (131, 17799), (139, 17817), (149, 17850), (161, 17883), (167, 17916), (186, 17955), (191, 17970), (201, 18006), (204, 18015), (215, 18033), (220, 18057), (227, 18081), (259, 18228), (262, 18237), (271, 18261), (274, 18285), (283, 18309), (284, 18315), (292, 18336), (299, 18357), (306, 18387), (319, 18417), (325, 18438), (346, 18531), (349, 18546), (350, 18555), (355, 18576), (356, 18579), (382, 18663), (383, 18666), (385, 18675), (390, 18702), (392, 18711), (399, 18750), (402, 18771), (404, 18774), (411, 18810), (415, 18831), (437, 18909), (438, 18912), (456, 18966), (469, 19026), (486, 19119), (488, 19137), (489, 19140), (501, 19176), (511, 19230), (513, 19239), (532, 19317), (536, 19335), (545, 19371), (547, 19374), (550, 19392), (551, 19395), (553, 19410), (565, 19467), (568, 19479), (587, 19575), (600, 19662), (612, 19710), (615, 19734), (628, 19770), (633, 19809), (641, 19848), (646, 19872), (649, 19893), (664, 19989), (672, 20010), (681, 20073), (684, 20100), (685, 20109),

Gene: MadamMonkfish_26 Start: 21702, Stop: 24098, Start Num: 99

Candidate Starts for MadamMonkfish_26:

(Start: 99 @21702 has 127 MA's), (164, 21879), (170, 21900), (225, 22047), (261, 22221), (271, 22254), (277, 22290), (306, 22383), (328, 22443), (333, 22461), (359, 22593), (374, 22638), (404, 22770), (412, 22815), (433, 22875), (464, 22989), (467, 23010), (475, 23049), (478, 23070), (480, 23085), (513, 23235), (515, 23241), (518, 23259), (534, 23313), (553, 23397), (574, 23490), (628, 23736), (664, 23952), (678, 24036), (684, 24069),

Gene: Madiba_19 Start: 17273, Stop: 19762, Start Num: 53

Candidate Starts for Madiba_19:

(Start: 53 @17273 has 233 MA's), (62, 17294), (Start: 72 @17315 has 1 MA's), (96, 17354), (129, 17423), (130, 17432), (131, 17435), (139, 17453), (152, 17501), (191, 17603), (201, 17639), (203, 17645), (204, 17648), (215, 17666), (220, 17690), (227, 17714), (242, 17777), (259, 17861), (262, 17870), (271, 17894), (274, 17918), (283, 17942), (284, 17948), (292, 17969), (299, 17990), (306, 18020), (319, 18050), (325, 18071), (346, 18164), (349, 18179), (350, 18188), (355, 18209), (356, 18212), (382, 18296), (383, 18299), (385, 18308), (390, 18335), (392, 18344), (399, 18383), (402, 18404), (404, 18407), (411, 18443), (415, 18464), (437, 18542), (438, 18545), (456, 18599), (469, 18659), (486, 18752), (488, 18770), (489, 18773), (501, 18809), (511, 18863), (513, 18872), (532, 18950), (536, 18968), (545, 19004), (547, 19007), (550, 19025), (551, 19028), (553, 19043), (565, 19100), (568, 19112), (587, 19208), (600, 19295), (612, 19343), (615, 19367), (623, 19394), (628, 19403), (633, 19442), (641, 19481), (646, 19505), (649, 19526), (664, 19622), (672, 19643), (681, 19706), (684, 19733), (685, 19742),

Gene: Mahavrat_18 Start: 17394, Stop: 19931, Start Num: 53

Candidate Starts for Mahavrat_18:

(Start: 53 @17394 has 233 MA's), (62, 17415), (Start: 72 @17436 has 1 MA's), (90, 17475), (129, 17544), (130, 17553), (131, 17556), (139, 17574), (149, 17607), (152, 17622), (200, 17781), (201, 17784), (217, 17829), (233, 17907), (240, 17931), (253, 17997), (271, 18072), (273, 18078), (283, 18120), (284, 18126), (285, 18129), (297, 18162), (299, 18168), (306, 18198), (316, 18219), (325, 18249), (328, 18258), (350, 18366), (353, 18378), (355, 18387), (356, 18390), (357, 18399), (358,

18405), (362, 18420), (364, 18423), (372, 18444), (385, 18486), (391, 18519), (412, 18630), (413, 18633), (421, 18660), (423, 18666), (437, 18720), (438, 18723), (449, 18750), (450, 18759), (467, 18825), (469, 18837), (470, 18840), (481, 18906), (485, 18927), (486, 18930), (489, 18951), (502, 19002), (506, 19020), (507, 19023), (513, 19053), (518, 19077), (523, 19089), (525, 19098), (550, 19194), (553, 19212), (556, 19221), (558, 19233), (565, 19269), (570, 19299), (576, 19320), (583, 19344), (587, 19380), (610, 19494), (617, 19536), (646, 19671), (650, 19695), (658, 19749), (672, 19818), (677, 19863), (678, 19866), (680, 19872),

Gene: Manda_27 Start: 22769, Stop: 25165, Start Num: 99

Candidate Starts for Manda_27:

(Start: 99 @22769 has 127 MA's), (164, 22946), (170, 22967), (225, 23114), (254, 23255), (261, 23288), (271, 23321), (277, 23357), (306, 23450), (328, 23510), (333, 23528), (359, 23660), (374, 23705), (404, 23837), (412, 23882), (433, 23942), (464, 24056), (467, 24077), (475, 24116), (478, 24137), (480, 24152), (513, 24302), (515, 24308), (518, 24326), (534, 24380), (553, 24464), (574, 24557), (628, 24803), (664, 25019), (678, 25103), (684, 25136),

Gene: Mandlovu_18 Start: 17495, Stop: 20032, Start Num: 53

Candidate Starts for Mandlovu_18:

(Start: 53 @17495 has 233 MA's), (62, 17516), (Start: 72 @17537 has 1 MA's), (90, 17576), (129, 17645), (130, 17654), (131, 17657), (139, 17675), (152, 17723), (200, 17882), (201, 17885), (216, 17927), (217, 17930), (233, 18008), (239, 18029), (240, 18032), (253, 18098), (271, 18173), (273, 18179), (283, 18221), (284, 18227), (285, 18230), (297, 18263), (299, 18269), (306, 18299), (316, 18320), (325, 18350), (328, 18359), (350, 18467), (353, 18479), (355, 18488), (356, 18491), (357, 18500), (358, 18506), (362, 18521), (364, 18524), (372, 18545), (385, 18587), (391, 18620), (421, 18761), (423, 18767), (437, 18821), (438, 18824), (449, 18851), (467, 18926), (469, 18938), (470, 18941), (481, 19007), (486, 19031), (489, 19052), (491, 19061), (506, 19121), (507, 19124), (515, 19160), (518, 19178), (525, 19199), (533, 19226), (550, 19295), (553, 19313), (556, 19322), (558, 19334), (565, 19370), (570, 19400), (587, 19481), (610, 19595), (617, 19637), (646, 19772), (650, 19796), (658, 19850), (677, 19964), (678, 19967),

Gene: Mantra_18 Start: 17496, Stop: 20033, Start Num: 53

Candidate Starts for Mantra_18:

(Start: 53 @17496 has 233 MA's), (62, 17517), (Start: 72 @17538 has 1 MA's), (90, 17577), (129, 17646), (130, 17655), (131, 17658), (139, 17676), (152, 17724), (198, 17877), (201, 17886), (217, 17931), (239, 18030), (240, 18033), (253, 18099), (271, 18174), (273, 18180), (274, 18198), (283, 18222), (284, 18228), (285, 18231), (297, 18264), (299, 18270), (306, 18300), (316, 18321), (325, 18351), (328, 18360), (332, 18375), (333, 18378), (355, 18489), (356, 18492), (357, 18501), (358, 18507), (362, 18522), (364, 18525), (372, 18546), (382, 18576), (385, 18588), (391, 18621), (412, 18732), (413, 18735), (421, 18762), (423, 18768), (437, 18822), (438, 18825), (465, 18912), (467, 18927), (469, 18939), (470, 18942), (481, 19008), (486, 19032), (489, 19053), (491, 19062), (506, 19122), (507, 19125), (515, 19161), (518, 19179), (523, 19191), (525, 19200), (533, 19227), (549, 19284), (550, 19296), (553, 19314), (556, 19323), (558, 19335), (565, 19371), (570, 19401), (574, 19410), (576, 19422), (587, 19482), (595, 19536), (610, 19596), (617, 19638), (646, 19773), (650, 19797), (658, 19851), (664, 19899), (675, 19941), (677, 19965), (678, 19968),

Gene: Maravista_18 Start: 17343, Stop: 19880, Start Num: 53

Candidate Starts for Maravista_18:

(47, 17331), (Start: 53 @17343 has 233 MA's), (62, 17364), (Start: 72 @17385 has 1 MA's), (90, 17424), (129, 17493), (130, 17502), (131, 17505), (139, 17523), (149, 17556), (152, 17571), (167, 17619), (200, 17730), (201, 17733), (213, 17763), (216, 17775), (217, 17778), (233, 17856), (240, 17880), (253, 17946), (262, 17991), (271, 18021), (273, 18027), (274, 18045), (283, 18069), (285, 18078), (297, 18111), (299, 18117), (306, 18147), (322, 18186), (325, 18198), (328, 18207), (332, 18222), (333, 18225), (355, 18336), (356, 18339), (357, 18348), (358, 18354), (362, 18369), (364,

18372), (372, 18393), (382, 18423), (385, 18435), (391, 18468), (412, 18579), (413, 18582), (421, 18609), (423, 18615), (437, 18669), (438, 18672), (467, 18774), (469, 18786), (470, 18789), (481, 18855), (486, 18879), (489, 18900), (491, 18909), (506, 18969), (507, 18972), (515, 19008), (518, 19026), (523, 19038), (525, 19047), (533, 19074), (550, 19143), (553, 19161), (556, 19170), (558, 19182), (565, 19218), (570, 19248), (576, 19269), (583, 19293), (587, 19329), (595, 19383), (610, 19443), (617, 19485), (646, 19620), (650, 19644), (658, 19698), (664, 19746), (672, 19767), (675, 19788), (677, 19812), (678, 19815),

Gene: MarkPhew_27 Start: 19997, Stop: 22450, Start Num: 82

Candidate Starts for MarkPhew_27:

(Start: 82 @19997 has 96 MA's), (103, 20045), (147, 20168), (164, 20225), (166, 20237), (208, 20354), (223, 20405), (250, 20534), (256, 20567), (284, 20678), (287, 20687), (288, 20696), (295, 20717), (306, 20765), (337, 20867), (368, 21026), (389, 21107), (409, 21209), (458, 21413), (461, 21422), (470, 21464), (478, 21509), (480, 21524), (520, 21707), (536, 21764), (562, 21866), (565, 21890), (577, 21947), (581, 21962), (602, 22091), (629, 22196), (662, 22415),

Gene: Marker_19 Start: 17246, Stop: 19783, Start Num: 53

Candidate Starts for Marker_19:

(Start: 53 @17246 has 233 MA's), (62, 17267), (Start: 72 @17288 has 1 MA's), (90, 17327), (129, 17396), (130, 17405), (131, 17408), (139, 17426), (152, 17474), (198, 17627), (201, 17636), (217, 17681), (239, 17780), (240, 17783), (253, 17849), (271, 17924), (273, 17930), (274, 17948), (283, 17972), (285, 17981), (297, 18014), (299, 18020), (306, 18050), (316, 18071), (322, 18089), (325, 18101), (328, 18110), (332, 18125), (333, 18128), (355, 18239), (356, 18242), (357, 18251), (358, 18257), (362, 18272), (364, 18275), (372, 18296), (382, 18326), (385, 18338), (391, 18371), (412, 18482), (413, 18485), (421, 18512), (423, 18518), (437, 18572), (438, 18575), (454, 18623), (465, 18662), (467, 18677), (469, 18689), (470, 18692), (474, 18713), (481, 18758), (486, 18782), (491, 18812), (502, 18854), (506, 18872), (507, 18875), (515, 18911), (518, 18929), (523, 18941), (525, 18950), (534, 18983), (550, 19046), (553, 19064), (556, 19073), (558, 19085), (570, 19151), (576, 19172), (583, 19196), (587, 19232), (595, 19286), (610, 19346), (617, 19388), (634, 19466), (646, 19523), (650, 19547), (658, 19601), (664, 19649), (675, 19691), (677, 19715), (678, 19718),

Gene: Marshawn_28 Start: 20676, Stop: 23132, Start Num: 82

Candidate Starts for Marshawn_28:

(Start: 82 @20676 has 96 MA's), (93, 20703), (125, 20775), (147, 20847), (164, 20904), (166, 20916), (180, 20949), (202, 21015), (208, 21033), (217, 21057), (218, 21060), (223, 21084), (237, 21156), (256, 21246), (266, 21282), (287, 21366), (301, 21420), (306, 21441), (308, 21447), (323, 21486), (337, 21543), (368, 21702), (379, 21741), (389, 21783), (393, 21801), (409, 21885), (415, 21915), (421, 21939), (432, 21972), (434, 21993), (456, 22077), (461, 22098), (470, 22140), (479, 22191), (480, 22200), (486, 22227), (499, 22287), (515, 22353), (518, 22374), (520, 22383), (534, 22431), (544, 22470), (555, 22515), (562, 22545), (569, 22590), (581, 22641), (583, 22647), (602, 22770), (618, 22839), (630, 22881), (660, 23067), (662, 23097),

Gene: Marshmallow_26 Start: 22283, Stop: 24679, Start Num: 99

Candidate Starts for Marshmallow_26:

(Start: 99 @22283 has 127 MA's), (164, 22460), (170, 22481), (225, 22628), (254, 22769), (261, 22802), (271, 22835), (277, 22871), (306, 22964), (328, 23024), (333, 23042), (349, 23123), (404, 23351), (412, 23396), (467, 23591), (468, 23597), (470, 23606), (478, 23651), (480, 23666), (515, 23822), (518, 23840), (521, 23849), (553, 23978), (554, 23981), (594, 24191), (597, 24203), (628, 24317), (664, 24533), (678, 24617), (682, 24641), (684, 24650),

Gene: Martik_18 Start: 17406, Stop: 19958, Start Num: 53

Candidate Starts for Martik_18:

(Start: 53 @17406 has 233 MA's), (94, 17487), (129, 17556), (130, 17565), (131, 17568), (139, 17586), (152, 17634), (166, 17679), (200, 17793), (201, 17796), (205, 17808), (214, 17829), (216, 17838), (217, 17841), (228, 17889), (233, 17919), (247, 17985), (254, 18018), (262, 18054), (269, 18078), (284, 18138), (285, 18141), (292, 18159), (314, 18222), (316, 18225), (322, 18243), (328, 18264), (333, 18282), (338, 18309), (342, 18330), (349, 18363), (357, 18405), (358, 18411), (359, 18414), (364, 18429), (373, 18456), (374, 18459), (382, 18480), (385, 18492), (391, 18525), (409, 18618), (437, 18726), (443, 18750), (449, 18756), (453, 18774), (454, 18777), (460, 18801), (467, 18831), (472, 18855), (478, 18891), (479, 18897), (480, 18906), (485, 18933), (498, 18996), (502, 19020), (504, 19035), (513, 19077), (527, 19128), (551, 19224), (553, 19239), (556, 19248), (561, 19272), (574, 19335), (583, 19371), (642, 19677), (650, 19722), (664, 19824),

Gene: MaryV_43 Start: 28332, Stop: 30899, Start Num: 54

Candidate Starts for MaryV_43:

(Start: 54 @28332 has 6 MA's), (83, 28401), (135, 28524), (138, 28530), (139, 28533), (146, 28557), (151, 28578), (198, 28734), (199, 28740), (201, 28746), (210, 28776), (211, 28782), (217, 28803), (219, 28812), (232, 28872), (248, 28950), (273, 29049), (278, 29082), (284, 29097), (285, 29100), (299, 29139), (316, 29190), (322, 29208), (328, 29229), (329, 29235), (336, 29262), (340, 29289), (355, 29358), (361, 29382), (367, 29403), (374, 29424), (378, 29433), (385, 29454), (391, 29487), (392, 29490), (401, 29541), (404, 29553), (419, 29619), (424, 29637), (434, 29676), (467, 29793), (476, 29838), (485, 29895), (489, 29919), (491, 29928), (494, 29946), (506, 29991), (513, 30024), (520, 30060), (563, 30234), (565, 30252), (566, 30258), (580, 30315), (645, 30639), (647, 30657), (656, 30708), (666, 30771), (677, 30846),

Gene: Mattes_18 Start: 17397, Stop: 19922, Start Num: 53

Candidate Starts for Mattes_18:

(Start: 53 @17397 has 233 MA's), (62, 17418), (69, 17439), (94, 17478), (129, 17547), (130, 17556), (131, 17559), (139, 17577), (152, 17625), (167, 17673), (200, 17784), (201, 17787), (214, 17820), (217, 17832), (233, 17910), (247, 17976), (254, 18009), (267, 18063), (271, 18075), (284, 18129), (285, 18132), (289, 18141), (300, 18174), (314, 18213), (316, 18216), (321, 18231), (322, 18234), (329, 18261), (331, 18267), (332, 18270), (333, 18273), (338, 18300), (341, 18318), (342, 18321), (357, 18396), (362, 18417), (364, 18420), (373, 18447), (382, 18471), (391, 18516), (392, 18519), (401, 18570), (413, 18633), (415, 18642), (422, 18666), (454, 18771), (455, 18774), (467, 18825), (468, 18831), (469, 18837), (470, 18840), (478, 18885), (480, 18900), (485, 18927), (489, 18951), (502, 19002), (506, 19020), (507, 19023), (508, 19035), (523, 19089), (553, 19212), (566, 19275), (581, 19338), (591, 19413), (637, 19614), (674, 19824), (680, 19863), (681, 19866),

Gene: Maxxinista_27 Start: 21751, Stop: 24147, Start Num: 99

Candidate Starts for Maxxinista_27:

(Start: 99 @21751 has 127 MA's), (164, 21928), (170, 21949), (225, 22096), (261, 22270), (271, 22303), (277, 22339), (306, 22432), (328, 22492), (333, 22510), (359, 22642), (374, 22687), (404, 22819), (412, 22864), (433, 22924), (464, 23038), (467, 23059), (475, 23098), (478, 23119), (480, 23134), (513, 23284), (515, 23290), (518, 23308), (534, 23362), (553, 23446), (574, 23539), (628, 23785), (664, 24001), (678, 24085), (684, 24118),

Gene: MeaningOfLife_27 Start: 20848, Stop: 23280, Start Num: 82

Candidate Starts for MeaningOfLife_27:

(Start: 82 @20848 has 96 MA's), (125, 20947), (166, 21088), (210, 21208), (217, 21229), (260, 21436), (270, 21469), (275, 21499), (301, 21571), (306, 21595), (355, 21793), (363, 21838), (366, 21850), (370, 21859), (385, 21910), (421, 22090), (426, 22105), (441, 22174), (445, 22186), (461, 22249), (470, 22291), (478, 22330), (479, 22336), (480, 22345), (484, 22366), (496, 22426), (525, 22543), (536, 22585), (555, 22657), (557, 22666), (562, 22687), (575, 22759), (580, 22780), (595, 22876), (609, 22939), (628, 23023), (634, 23065), (643, 23104),

Gene: Medindi_18 Start: 17393, Stop: 19930, Start Num: 53

Candidate Starts for Medindi_18:

(47, 17381), (Start: 53 @17393 has 233 MA's), (62, 17414), (Start: 72 @17435 has 1 MA's), (90, 17474), (129, 17543), (130, 17552), (131, 17555), (139, 17573), (149, 17606), (152, 17621), (167, 17669), (200, 17780), (201, 17783), (213, 17813), (215, 17816), (217, 17828), (233, 17906), (240, 17930), (253, 17996), (262, 18041), (271, 18071), (273, 18077), (274, 18095), (283, 18119), (285, 18128), (297, 18161), (299, 18167), (306, 18197), (325, 18248), (328, 18257), (332, 18272), (333, 18275), (355, 18386), (356, 18389), (357, 18398), (358, 18404), (362, 18419), (364, 18422), (372, 18443), (382, 18473), (385, 18485), (391, 18518), (412, 18629), (413, 18632), (421, 18659), (423, 18665), (437, 18719), (438, 18722), (467, 18824), (469, 18836), (470, 18839), (481, 18905), (485, 18926), (486, 18929), (489, 18950), (491, 18959), (506, 19019), (507, 19022), (515, 19058), (518, 19076), (523, 19088), (525, 19097), (533, 19124), (550, 19193), (553, 19211), (556, 19220), (558, 19232), (565, 19268), (570, 19298), (576, 19319), (583, 19343), (587, 19379), (595, 19433), (610, 19493), (617, 19535), (634, 19613), (646, 19670), (650, 19694), (658, 19748), (664, 19796), (675, 19838), (677, 19862), (678, 19865),

Gene: Megatron06_31 Start: 26215, Stop: 29058, Start Num: 17

Candidate Starts for Megatron06_31:

(Start: 17 @26215 has 8 MA's), (30, 26347), (31, 26359), (35, 26368), (49, 26437), (52, 26443), (76, 26503), (86, 26524), (108, 26572), (125, 26614), (134, 26638), (145, 26671), (154, 26707), (160, 26719), (185, 26812), (201, 26869), (212, 26908), (242, 27034), (254, 27103), (260, 27133), (273, 27175), (285, 27226), (316, 27316), (322, 27334), (340, 27415), (349, 27454), (353, 27475), (391, 27613), (398, 27652), (411, 27715), (438, 27817), (488, 28042), (571, 28405), (579, 28432), (629, 28675), (632, 28708), (638, 28732), (657, 28852), (673, 28930), (684, 29017), (686, 29032), (687, 29038),

Gene: Megsy_27 Start: 20849, Stop: 23281, Start Num: 82

Candidate Starts for Megsy_27:

(Start: 82 @20849 has 96 MA's), (125, 20948), (210, 21209), (260, 21437), (270, 21470), (275, 21500), (301, 21572), (306, 21596), (355, 21794), (363, 21839), (366, 21851), (370, 21860), (385, 21911), (421, 22091), (426, 22106), (441, 22175), (445, 22187), (461, 22250), (470, 22292), (478, 22331), (479, 22337), (480, 22346), (484, 22367), (496, 22427), (525, 22544), (536, 22586), (555, 22658), (557, 22667), (562, 22688), (575, 22760), (580, 22781), (595, 22877), (643, 23105), (665, 23252),

Gene: Melissauren88_18 Start: 17470, Stop: 19965, Start Num: 72

Candidate Starts for Melissauren88_18:

(47, 17416), (Start: 53 @17428 has 233 MA's), (62, 17449), (Start: 72 @17470 has 1 MA's), (90, 17509), (129, 17578), (130, 17587), (131, 17590), (139, 17608), (149, 17641), (152, 17656), (167, 17704), (200, 17815), (201, 17818), (213, 17848), (216, 17860), (217, 17863), (233, 17941), (240, 17965), (253, 18031), (262, 18076), (271, 18106), (273, 18112), (274, 18130), (283, 18154), (285, 18163), (297, 18196), (299, 18202), (306, 18232), (322, 18271), (325, 18283), (328, 18292), (332, 18307), (333, 18310), (355, 18421), (356, 18424), (357, 18433), (358, 18439), (362, 18454), (364, 18457), (372, 18478), (382, 18508), (385, 18520), (391, 18553), (412, 18664), (413, 18667), (421, 18694), (423, 18700), (437, 18754), (438, 18757), (465, 18844), (467, 18859), (469, 18871), (470, 18874), (481, 18940), (486, 18964), (489, 18985), (491, 18994), (506, 19054), (507, 19057), (515, 19093), (518, 19111), (523, 19123), (525, 19132), (533, 19159), (550, 19228), (553, 19246), (556, 19255), (558, 19267), (565, 19303), (570, 19333), (576, 19354), (583, 19378), (587, 19414), (595, 19468), (610, 19528), (617, 19570), (634, 19648), (646, 19705), (650, 19729), (658, 19783), (664, 19831), (675, 19873), (677, 19897), (678, 19900),

Gene: Mercurio_24 Start: 21194, Stop: 23665, Start Num: 33

Candidate Starts for Mercurio_24:

(Start: 33 @21194 has 9 MA's), (50, 21260), (65, 21302), (128, 21410), (166, 21533), (191, 21596), (216, 21674), (270, 21905), (286, 21938), (294, 21950), (327, 22052), (338, 22094), (346, 22133), (349, 22148), (359, 22199), (371, 22235), (389, 22301), (395, 22328), (437, 22526), (454, 22601), (459, 22622), (480, 22730), (487, 22775), (500, 22826), (506, 22850), (514, 22886), (518, 22910), (524, 22931), (562, 23069), (581, 23165), (603, 23303),

Gene: MiaZeal_36 Start: 27554, Stop: 30061, Start Num: 53

Candidate Starts for MiaZeal_36:

(Start: 53 @27554 has 233 MA's), (139, 27749), (149, 27785), (152, 27800), (186, 27887), (191, 27902), (217, 27977), (220, 27989), (228, 28016), (250, 28121), (259, 28160), (262, 28169), (271, 28193), (273, 28199), (274, 28217), (285, 28250), (289, 28259), (292, 28268), (297, 28283), (304, 28310), (306, 28319), (322, 28358), (325, 28370), (328, 28379), (346, 28463), (364, 28544), (374, 28574), (375, 28577), (385, 28607), (390, 28634), (392, 28643), (401, 28694), (402, 28703), (404, 28706), (411, 28742), (415, 28763), (429, 28799), (468, 28952), (478, 29006), (486, 29051), (488, 29069), (489, 29072), (501, 29111), (532, 29258), (534, 29267), (551, 29336), (553, 29351), (587, 29516), (600, 29603), (612, 29651), (628, 29702), (641, 29780), (679, 30002), (681, 30005), (684, 30032),

Gene: MilleniumForce_19 Start: 18211, Stop: 20748, Start Num: 53

Candidate Starts for MilleniumForce_19:

(47, 18199), (Start: 53 @18211 has 233 MA's), (62, 18232), (Start: 72 @18253 has 1 MA's), (90, 18292), (129, 18361), (130, 18370), (131, 18373), (139, 18391), (149, 18424), (152, 18439), (167, 18487), (200, 18598), (201, 18601), (213, 18631), (216, 18643), (217, 18646), (233, 18724), (240, 18748), (253, 18814), (262, 18859), (271, 18889), (273, 18895), (274, 18913), (283, 18937), (285, 18946), (297, 18979), (299, 18985), (306, 19015), (322, 19054), (325, 19066), (328, 19075), (332, 19090), (333, 19093), (355, 19204), (356, 19207), (357, 19216), (358, 19222), (362, 19237), (364, 19240), (372, 19261), (382, 19291), (385, 19303), (391, 19336), (412, 19447), (413, 19450), (421, 19477), (423, 19483), (437, 19537), (438, 19540), (467, 19642), (469, 19654), (470, 19657), (481, 19723), (486, 19747), (489, 19768), (491, 19777), (506, 19837), (507, 19840), (515, 19876), (518, 19894), (523, 19906), (525, 19915), (533, 19942), (550, 20011), (553, 20029), (556, 20038), (558, 20050), (565, 20086), (570, 20116), (576, 20137), (583, 20161), (587, 20197), (595, 20251), (610, 20311), (617, 20353), (634, 20431), (646, 20488), (650, 20512), (658, 20566), (664, 20614), (675, 20656), (677, 20680), (678, 20683),

Gene: Mindy_26 Start: 22062, Stop: 24458, Start Num: 99

Candidate Starts for Mindy_26:

(Start: 99 @22062 has 127 MA's), (164, 22239), (170, 22260), (225, 22407), (254, 22548), (261, 22581), (271, 22614), (277, 22650), (306, 22743), (328, 22803), (333, 22821), (367, 22977), (374, 22998), (401, 23118), (404, 23130), (412, 23175), (467, 23370), (470, 23385), (478, 23430), (480, 23445), (515, 23601), (518, 23619), (521, 23628), (553, 23757), (554, 23760), (594, 23970), (597, 23982), (628, 24096), (664, 24312), (678, 24396), (682, 24420), (684, 24429),

Gene: Minerva_39 Start: 31221, Stop: 33764, Start Num: 53

Candidate Starts for Minerva_39:

(40, 31164), (Start: 53 @31221 has 233 MA's), (137, 31410), (152, 31467), (166, 31512), (200, 31626), (201, 31629), (208, 31650), (214, 31662), (217, 31674), (233, 31752), (247, 31818), (254, 31851), (262, 31887), (269, 31911), (284, 31971), (285, 31974), (292, 31992), (314, 32055), (316, 32058), (322, 32076), (328, 32097), (333, 32115), (338, 32142), (342, 32163), (349, 32196), (358, 32244), (359, 32247), (364, 32262), (373, 32289), (382, 32313), (391, 32358), (415, 32484), (437, 32562), (455, 32616), (467, 32667), (468, 32673), (469, 32679), (470, 32682), (478, 32727), (480, 32742), (485, 32769), (489, 32793), (502, 32844), (506, 32862), (507, 32865), (508, 32877), (523, 32931), (534, 32973), (566, 33117), (579, 33171), (580, 33177), (581, 33180), (585, 33216), (586, 33219), (589, 33228), (591, 33255), (637, 33456), (664, 33627), (674, 33666), (681, 33708),

Gene: MinionDave_19 Start: 18080, Stop: 20617, Start Num: 53

Candidate Starts for MinionDave_19:

(Start: 53 @18080 has 233 MA's), (101, 18170), (129, 18230), (130, 18239), (131, 18242), (139, 18260), (149, 18293), (152, 18308), (167, 18356), (200, 18467), (201, 18470), (213, 18500), (216, 18512), (217, 18515), (233, 18593), (240, 18617), (253, 18683), (262, 18728), (271, 18758), (273, 18764), (274, 18782), (283, 18806), (285, 18815), (297, 18848), (299, 18854), (306, 18884), (322, 18923), (325, 18935), (328, 18944), (332, 18959), (333, 18962), (355, 19073), (356, 19076), (357, 19085), (358, 19091), (362, 19106), (364, 19109), (372, 19130), (382, 19160), (385, 19172), (391, 19205), (412, 19316), (413, 19319), (421, 19346), (423, 19352), (437, 19406), (438, 19409), (465, 19496), (467, 19511), (469, 19523), (470, 19526), (481, 19592), (486, 19616), (489, 19637), (491, 19646), (506, 19706), (507, 19709), (515, 19745), (518, 19763), (523, 19775), (525, 19784), (533, 19811), (550, 19880), (553, 19898), (556, 19907), (558, 19919), (565, 19955), (570, 19985), (576, 20006), (583, 20030), (587, 20066), (595, 20120), (610, 20180), (617, 20222), (634, 20300), (646, 20357), (650, 20381), (658, 20435), (664, 20483), (675, 20525), (677, 20549), (678, 20552),

Gene: Miniwave_26 Start: 22481, Stop: 24877, Start Num: 99

Candidate Starts for Miniwave_26:

(Start: 99 @22481 has 127 MA's), (164, 22658), (170, 22679), (225, 22826), (254, 22967), (261, 23000), (271, 23033), (277, 23069), (306, 23162), (328, 23222), (333, 23240), (359, 23372), (374, 23417), (404, 23549), (412, 23594), (433, 23654), (464, 23768), (467, 23789), (475, 23828), (478, 23849), (480, 23864), (513, 24014), (515, 24020), (518, 24038), (534, 24092), (553, 24176), (574, 24269), (628, 24515), (664, 24731), (678, 24815), (684, 24848),

Gene: Minnie_19 Start: 17940, Stop: 20477, Start Num: 53

Candidate Starts for Minnie_19:

(47, 17928), (Start: 53 @17940 has 233 MA's), (62, 17961), (Start: 72 @17982 has 1 MA's), (90, 18021), (129, 18090), (130, 18099), (131, 18102), (139, 18120), (149, 18153), (152, 18168), (167, 18216), (200, 18327), (201, 18330), (213, 18360), (216, 18372), (217, 18375), (233, 18453), (240, 18477), (253, 18543), (262, 18588), (271, 18618), (273, 18624), (274, 18642), (283, 18666), (285, 18675), (297, 18708), (299, 18714), (306, 18744), (322, 18783), (325, 18795), (328, 18804), (332, 18819), (333, 18822), (355, 18933), (356, 18936), (357, 18945), (358, 18951), (362, 18966), (364, 18969), (372, 18990), (382, 19020), (385, 19032), (391, 19065), (412, 19176), (413, 19179), (421, 19206), (423, 19212), (437, 19266), (438, 19269), (467, 19371), (469, 19383), (470, 19386), (481, 19452), (486, 19476), (489, 19497), (491, 19506), (506, 19566), (507, 19569), (515, 19605), (518, 19623), (523, 19635), (525, 19644), (533, 19671), (550, 19740), (553, 19758), (556, 19767), (558, 19779), (565, 19815), (570, 19845), (576, 19866), (583, 19890), (587, 19926), (595, 19980), (610, 20040), (617, 20082), (634, 20160), (646, 20217), (650, 20241), (658, 20295), (664, 20343), (675, 20385), (677, 20409), (678, 20412),

Gene: Misfit_26 Start: 22371, Stop: 24767, Start Num: 99

Candidate Starts for Misfit_26:

(Start: 99 @22371 has 127 MA's), (164, 22548), (170, 22569), (225, 22716), (254, 22857), (261, 22890), (271, 22923), (277, 22959), (306, 23052), (328, 23112), (333, 23130), (359, 23262), (374, 23307), (404, 23439), (412, 23484), (433, 23544), (464, 23658), (467, 23679), (475, 23718), (478, 23739), (480, 23754), (513, 23904), (515, 23910), (518, 23928), (534, 23982), (553, 24066), (574, 24159), (628, 24405), (664, 24621), (678, 24705), (684, 24738),

Gene: Misha28_19 Start: 17273, Stop: 19798, Start Num: 53

Candidate Starts for Misha28_19:

(Start: 53 @17273 has 233 MA's), (62, 17294), (Start: 72 @17315 has 1 MA's), (90, 17354), (129, 17423), (130, 17432), (131, 17435), (139, 17453), (149, 17486), (152, 17501), (167, 17549), (200, 17660), (201, 17663), (217, 17708), (233, 17786), (240, 17810), (253, 17876), (262, 17921), (271,

17951), (273, 17957), (274, 17975), (283, 17999), (285, 18008), (297, 18041), (299, 18047), (306, 18077), (322, 18116), (325, 18128), (328, 18137), (332, 18152), (333, 18155), (364, 18302), (382, 18353), (403, 18464), (413, 18515), (420, 18539), (449, 18632), (460, 18677), (464, 18686), (467, 18707), (469, 18719), (470, 18722), (478, 18767), (486, 18812), (488, 18830), (489, 18833), (502, 18884), (513, 18935), (515, 18941), (518, 18959), (523, 18971), (525, 18980), (534, 19013), (553, 19094), (568, 19163), (574, 19190), (580, 19217), (589, 19268), (595, 19316), (649, 19559), (664, 19664), (672, 19685), (680, 19739), (683, 19763),

Gene: MisterCuddles_18 Start: 17371, Stop: 19908, Start Num: 53

Candidate Starts for MisterCuddles_18:

(Start: 53 @17371 has 233 MA's), (62, 17392), (Start: 72 @17413 has 1 MA's), (90, 17452), (129, 17521), (130, 17530), (131, 17533), (139, 17551), (149, 17584), (152, 17599), (198, 17752), (201, 17761), (217, 17806), (239, 17905), (240, 17908), (253, 17974), (271, 18049), (273, 18055), (283, 18097), (284, 18103), (285, 18106), (297, 18139), (299, 18145), (306, 18175), (316, 18196), (325, 18226), (328, 18235), (332, 18250), (333, 18253), (355, 18364), (356, 18367), (357, 18376), (358, 18382), (362, 18397), (364, 18400), (372, 18421), (382, 18451), (385, 18463), (391, 18496), (412, 18607), (413, 18610), (421, 18637), (423, 18643), (437, 18697), (438, 18700), (465, 18787), (467, 18802), (469, 18814), (470, 18817), (481, 18883), (486, 18907), (489, 18928), (491, 18937), (502, 18979), (506, 18997), (507, 19000), (513, 19030), (518, 19054), (523, 19066), (525, 19075), (550, 19171), (553, 19189), (556, 19198), (558, 19210), (565, 19246), (570, 19276), (574, 19285), (576, 19297), (587, 19357), (595, 19411), (610, 19471), (617, 19513), (646, 19648), (650, 19672), (658, 19726), (664, 19774), (675, 19816), (677, 19840), (678, 19843),

Gene: Modragons_18 Start: 17634, Stop: 20171, Start Num: 53

Candidate Starts for Modragons_18:

(Start: 53 @17634 has 233 MA's), (62, 17655), (Start: 72 @17676 has 1 MA's), (90, 17715), (129, 17784), (130, 17793), (131, 17796), (139, 17814), (152, 17862), (200, 18021), (201, 18024), (216, 18066), (217, 18069), (233, 18147), (239, 18168), (240, 18171), (253, 18237), (254, 18246), (262, 18282), (271, 18312), (273, 18318), (283, 18360), (284, 18366), (285, 18369), (297, 18402), (299, 18408), (306, 18438), (316, 18459), (325, 18489), (328, 18498), (350, 18606), (353, 18618), (355, 18627), (356, 18630), (357, 18639), (358, 18645), (362, 18660), (364, 18663), (372, 18684), (385, 18726), (391, 18759), (421, 18900), (423, 18906), (437, 18960), (438, 18963), (449, 18990), (467, 19065), (469, 19077), (470, 19080), (481, 19146), (485, 19167), (486, 19170), (489, 19191), (502, 19242), (506, 19260), (507, 19263), (513, 19293), (518, 19317), (523, 19329), (550, 19434), (553, 19452), (556, 19461), (558, 19473), (565, 19509), (570, 19539), (576, 19560), (583, 19584), (587, 19620), (610, 19734), (617, 19776), (634, 19854), (646, 19911), (650, 19935), (658, 19989), (664, 20037), (675, 20079), (677, 20103), (678, 20106),

Gene: Moldemort_27 Start: 22026, Stop: 24422, Start Num: 99

Candidate Starts for Moldemort_27:

(Start: 99 @22026 has 127 MA's), (164, 22203), (170, 22224), (225, 22371), (261, 22545), (271, 22578), (277, 22614), (306, 22707), (328, 22767), (333, 22785), (359, 22917), (374, 22962), (404, 23094), (412, 23139), (433, 23199), (464, 23313), (467, 23334), (475, 23373), (478, 23394), (480, 23409), (513, 23559), (515, 23565), (518, 23583), (534, 23637), (553, 23721), (574, 23814), (628, 24060), (664, 24276), (678, 24360), (684, 24393),

Gene: MollyToe_26 Start: 22455, Stop: 24851, Start Num: 99

Candidate Starts for MollyToe_26:

(Start: 99 @22455 has 127 MA's), (164, 22632), (170, 22653), (225, 22800), (254, 22941), (261, 22974), (271, 23007), (277, 23043), (306, 23136), (328, 23196), (333, 23214), (359, 23346), (374, 23391), (404, 23523), (412, 23568), (464, 23742), (467, 23763), (475, 23802), (478, 23823), (480, 23838), (515, 23994), (518, 24012), (534, 24066), (553, 24150), (574, 24243), (628, 24489), (664, 24705), (678, 24789), (684, 24822),

Gene: MooMoo_18 Start: 17135, Stop: 19570, Start Num: 53

Candidate Starts for MooMoo_18:

(Start: 53 @17135 has 233 MA's), (58, 17147), (65, 17168), (88, 17213), (98, 17231), (102, 17243), (132, 17318), (164, 17414), (178, 17441), (182, 17450), (187, 17468), (188, 17471), (192, 17480), (220, 17555), (222, 17564), (226, 17573), (251, 17651), (271, 17717), (273, 17723), (281, 17759), (282, 17762), (283, 17765), (284, 17771), (289, 17783), (292, 17792), (297, 17807), (311, 17858), (321, 17879), (322, 17882), (328, 17903), (335, 17927), (343, 17972), (355, 18032), (356, 18035), (361, 18056), (367, 18077), (378, 18110), (382, 18119), (391, 18164), (392, 18167), (393, 18173), (399, 18206), (401, 18218), (402, 18227), (404, 18230), (433, 18335), (438, 18368), (469, 18482), (479, 18536), (484, 18569), (485, 18572), (486, 18575), (488, 18593), (501, 18632), (513, 18695), (532, 18773), (536, 18791), (550, 18848), (551, 18851), (554, 18869), (566, 18929), (569, 18944), (583, 18998), (595, 19085), (615, 19190), (629, 19217), (641, 19289), (646, 19313), (664, 19430), (672, 19451), (679, 19511), (681, 19514), (684, 19541), (685, 19550),

Gene: Moonbeam_19 Start: 17889, Stop: 20426, Start Num: 53

Candidate Starts for Moonbeam_19:

(47, 17877), (Start: 53 @17889 has 233 MA's), (62, 17910), (Start: 72 @17931 has 1 MA's), (90, 17970), (129, 18039), (130, 18048), (131, 18051), (139, 18069), (149, 18102), (152, 18117), (167, 18165), (200, 18276), (201, 18279), (213, 18309), (216, 18321), (217, 18324), (233, 18402), (240, 18426), (253, 18492), (262, 18537), (271, 18567), (273, 18573), (274, 18591), (283, 18615), (285, 18624), (297, 18657), (299, 18663), (306, 18693), (322, 18732), (325, 18744), (328, 18753), (332, 18768), (333, 18771), (355, 18882), (356, 18885), (357, 18894), (358, 18900), (362, 18915), (364, 18918), (372, 18939), (382, 18969), (385, 18981), (391, 19014), (412, 19125), (413, 19128), (421, 19155), (423, 19161), (437, 19215), (438, 19218), (465, 19305), (467, 19320), (469, 19332), (470, 19335), (481, 19401), (486, 19425), (489, 19446), (491, 19455), (502, 19497), (506, 19515), (507, 19518), (515, 19554), (518, 19572), (523, 19584), (525, 19593), (533, 19620), (550, 19689), (553, 19707), (556, 19716), (558, 19728), (565, 19764), (570, 19794), (576, 19815), (583, 19839), (587, 19875), (595, 19929), (610, 19989), (617, 20031), (634, 20109), (646, 20166), (650, 20190), (658, 20244), (664, 20292), (675, 20334), (677, 20358), (678, 20361),

Gene: Mori_58 Start: 36137, Stop: 38647, Start Num: 63

Candidate Starts for Mori_58:

(Start: 63 @36137 has 33 MA's), (81, 36170), (111, 36239), (112, 36242), (121, 36266), (131, 36290), (141, 36314), (149, 36347), (206, 36554), (209, 36566), (210, 36569), (244, 36716), (247, 36746), (253, 36770), (262, 36800), (264, 36803), (271, 36830), (274, 36854), (284, 36884), (302, 36941), (307, 36965), (322, 37001), (325, 37013), (332, 37037), (333, 37040), (340, 37082), (362, 37178), (364, 37181), (430, 37436), (467, 37580), (478, 37640), (488, 37712), (489, 37715), (512, 37811), (553, 37985), (558, 38006), (579, 38099), (582, 38111), (595, 38201), (613, 38276), (633, 38321), (670, 38522), (676, 38576), (681, 38591),

Gene: Mosby_25 Start: 21791, Stop: 24187, Start Num: 99

Candidate Starts for Mosby_25:

(Start: 99 @21791 has 127 MA's), (164, 21968), (170, 21989), (225, 22136), (254, 22277), (261, 22310), (271, 22343), (277, 22379), (306, 22472), (328, 22532), (333, 22550), (359, 22682), (374, 22727), (404, 22859), (412, 22904), (464, 23078), (467, 23099), (475, 23138), (478, 23159), (480, 23174), (515, 23330), (518, 23348), (534, 23402), (553, 23486), (574, 23579), (628, 23825), (664, 24041), (678, 24125), (684, 24158),

Gene: Mova_19 Start: 17248, Stop: 19785, Start Num: 53

Candidate Starts for Mova_19:

(Start: 53 @17248 has 233 MA's), (62, 17269), (Start: 72 @17290 has 1 MA's), (90, 17329), (129, 17398), (130, 17407), (131, 17410), (139, 17428), (149, 17461), (152, 17476), (200, 17635), (201,

17638), (217, 17683), (233, 17761), (240, 17785), (253, 17851), (271, 17926), (273, 17932), (274, 17950), (283, 17974), (285, 17983), (297, 18016), (299, 18022), (306, 18052), (316, 18073), (322, 18091), (328, 18112), (332, 18127), (333, 18130), (350, 18220), (355, 18241), (356, 18244), (357, 18253), (358, 18259), (362, 18274), (364, 18277), (372, 18298), (385, 18340), (391, 18373), (404, 18439), (412, 18484), (413, 18487), (421, 18514), (423, 18520), (437, 18574), (438, 18577), (449, 18604), (465, 18664), (467, 18679), (469, 18691), (470, 18694), (481, 18760), (486, 18784), (491, 18814), (502, 18856), (506, 18874), (507, 18877), (515, 18913), (518, 18931), (523, 18943), (525, 18952), (533, 18979), (550, 19048), (553, 19066), (556, 19075), (558, 19087), (565, 19123), (570, 19153), (576, 19174), (583, 19198), (587, 19234), (595, 19288), (617, 19390), (646, 19525), (650, 19549), (658, 19603), (664, 19651), (675, 19693), (677, 19717), (678, 19720),

Gene: Mozy_19 Start: 17298, Stop: 19835, Start Num: 53

Candidate Starts for Mozy_19:

(Start: 53 @17298 has 233 MA's), (62, 17319), (Start: 72 @17340 has 1 MA's), (90, 17379), (129, 17448), (130, 17457), (131, 17460), (139, 17478), (149, 17511), (152, 17526), (200, 17685), (201, 17688), (213, 17718), (217, 17733), (233, 17811), (239, 17832), (240, 17835), (253, 17901), (271, 17976), (273, 17982), (283, 18024), (284, 18030), (285, 18033), (297, 18066), (299, 18072), (306, 18102), (316, 18123), (325, 18153), (328, 18162), (355, 18291), (356, 18294), (357, 18303), (358, 18309), (362, 18324), (364, 18327), (372, 18348), (382, 18378), (385, 18390), (391, 18423), (392, 18426), (404, 18489), (421, 18564), (423, 18570), (437, 18624), (438, 18627), (449, 18654), (467, 18729), (469, 18741), (470, 18744), (481, 18810), (486, 18834), (491, 18864), (506, 18924), (507, 18927), (515, 18963), (518, 18981), (525, 19002), (550, 19098), (553, 19116), (556, 19125), (558, 19137), (565, 19173), (576, 19224), (587, 19284), (595, 19338), (617, 19440), (634, 19518), (646, 19575), (650, 19599), (658, 19653), (664, 19701), (675, 19743), (677, 19767), (678, 19770),

Gene: MulchExplorer_21 Start: 18519, Stop: 21056, Start Num: 53

Candidate Starts for MulchExplorer_21:

(47, 18507), (Start: 53 @18519 has 233 MA's), (62, 18540), (Start: 72 @18561 has 1 MA's), (90, 18600), (129, 18669), (130, 18678), (131, 18681), (139, 18699), (149, 18732), (152, 18747), (167, 18795), (200, 18906), (201, 18909), (213, 18939), (216, 18951), (217, 18954), (233, 19032), (240, 19056), (253, 19122), (262, 19167), (271, 19197), (273, 19203), (274, 19221), (283, 19245), (285, 19254), (297, 19287), (299, 19293), (306, 19323), (322, 19362), (325, 19374), (328, 19383), (332, 19398), (333, 19401), (355, 19512), (356, 19515), (357, 19524), (358, 19530), (362, 19545), (364, 19548), (372, 19569), (382, 19599), (385, 19611), (391, 19644), (412, 19755), (413, 19758), (421, 19785), (423, 19791), (437, 19845), (438, 19848), (465, 19935), (467, 19950), (469, 19962), (470, 19965), (481, 20031), (486, 20055), (489, 20076), (491, 20085), (502, 20127), (506, 20145), (507, 20148), (515, 20184), (518, 20202), (523, 20214), (525, 20223), (533, 20250), (550, 20319), (553, 20337), (556, 20346), (558, 20358), (565, 20394), (570, 20424), (576, 20445), (583, 20469), (587, 20505), (595, 20559), (610, 20619), (617, 20661), (634, 20739), (646, 20796), (650, 20820), (658, 20874), (664, 20922), (675, 20964), (677, 20988), (678, 20991),

Gene: Murai_59 Start: 36318, Stop: 38828, Start Num: 63

Candidate Starts for Murai_59:

(Start: 63 @36318 has 33 MA's), (81, 36351), (111, 36420), (112, 36423), (121, 36447), (131, 36471), (141, 36495), (149, 36528), (206, 36735), (209, 36747), (210, 36750), (244, 36897), (247, 36927), (253, 36951), (262, 36981), (264, 36984), (271, 37011), (274, 37035), (284, 37065), (302, 37122), (322, 37182), (325, 37194), (332, 37218), (333, 37221), (340, 37263), (362, 37359), (364, 37362), (430, 37617), (467, 37761), (478, 37821), (488, 37893), (489, 37896), (512, 37992), (553, 38166), (558, 38187), (579, 38280), (582, 38292), (595, 38382), (613, 38457), (633, 38502), (670, 38703), (676, 38757), (681, 38772),

Gene: Murica_25 Start: 22268, Stop: 24664, Start Num: 99

Candidate Starts for Murica_25:

(Start: 99 @22268 has 127 MA's), (164, 22445), (170, 22466), (225, 22613), (254, 22754), (261, 22787), (271, 22820), (277, 22856), (306, 22949), (328, 23009), (333, 23027), (359, 23159), (374, 23204), (404, 23336), (412, 23381), (433, 23441), (464, 23555), (467, 23576), (475, 23615), (478, 23636), (480, 23651), (513, 23801), (515, 23807), (518, 23825), (534, 23879), (553, 23963), (574, 24056), (628, 24302), (664, 24518), (678, 24602), (684, 24635),

Gene: Murphy_27 Start: 22263, Stop: 24659, Start Num: 99

Candidate Starts for Murphy_27:

(Start: 99 @22263 has 127 MA's), (164, 22440), (170, 22461), (225, 22608), (254, 22749), (261, 22782), (271, 22815), (277, 22851), (306, 22944), (328, 23004), (333, 23022), (359, 23154), (374, 23199), (404, 23331), (412, 23376), (433, 23436), (464, 23550), (467, 23571), (475, 23610), (478, 23631), (480, 23646), (513, 23796), (515, 23802), (518, 23820), (534, 23874), (553, 23958), (574, 24051), (628, 24297), (664, 24513), (678, 24597), (684, 24630),

Gene: Murucutumbu_27 Start: 20831, Stop: 23263, Start Num: 82

Candidate Starts for Murucutumbu_27:

(Start: 82 @20831 has 96 MA's), (125, 20930), (210, 21191), (217, 21212), (270, 21452), (275, 21482), (276, 21485), (301, 21554), (306, 21578), (323, 21623), (355, 21776), (366, 21833), (370, 21842), (381, 21878), (385, 21893), (421, 22073), (426, 22088), (441, 22157), (461, 22232), (470, 22274), (478, 22313), (479, 22319), (480, 22328), (496, 22409), (525, 22526), (536, 22568), (555, 22640), (557, 22649), (562, 22670), (580, 22763), (595, 22859), (643, 23087), (665, 23234),

Gene: Mutaforma13_18 Start: 17444, Stop: 19981, Start Num: 53

Candidate Starts for Mutaforma13_18:

(47, 17432), (Start: 53 @17444 has 233 MA's), (62, 17465), (Start: 72 @17486 has 1 MA's), (89, 17522), (90, 17525), (129, 17594), (130, 17603), (131, 17606), (139, 17624), (149, 17657), (152, 17672), (167, 17720), (198, 17825), (200, 17831), (201, 17834), (213, 17864), (216, 17876), (217, 17879), (240, 17981), (253, 18047), (262, 18092), (271, 18122), (273, 18128), (274, 18146), (283, 18170), (285, 18179), (297, 18212), (299, 18218), (316, 18269), (322, 18287), (325, 18299), (328, 18308), (332, 18323), (334, 18329), (355, 18437), (357, 18449), (358, 18455), (362, 18470), (364, 18473), (372, 18494), (382, 18524), (385, 18536), (391, 18569), (404, 18635), (412, 18680), (413, 18683), (421, 18710), (423, 18716), (437, 18770), (438, 18773), (449, 18800), (467, 18875), (469, 18887), (470, 18890), (481, 18956), (486, 18980), (491, 19010), (502, 19052), (506, 19070), (507, 19073), (515, 19109), (518, 19127), (525, 19148), (533, 19175), (550, 19244), (553, 19262), (556, 19271), (558, 19283), (565, 19319), (576, 19370), (581, 19388), (587, 19430), (595, 19484), (617, 19586), (646, 19721), (650, 19745), (658, 19799), (664, 19847), (675, 19889), (677, 19913), (678, 19916),

Gene: Mwanjiwa_18 Start: 17382, Stop: 19919, Start Num: 53

Candidate Starts for Mwanjiwa_18:

(Start: 53 @17382 has 233 MA's), (62, 17403), (Start: 72 @17424 has 1 MA's), (90, 17463), (129, 17532), (130, 17541), (131, 17544), (139, 17562), (149, 17595), (152, 17610), (200, 17769), (201, 17772), (217, 17817), (233, 17895), (240, 17919), (253, 17985), (262, 18030), (271, 18060), (273, 18066), (274, 18084), (283, 18108), (285, 18117), (297, 18150), (299, 18156), (316, 18207), (322, 18225), (325, 18237), (328, 18246), (332, 18261), (355, 18375), (357, 18387), (358, 18393), (362, 18408), (364, 18411), (372, 18432), (382, 18462), (385, 18474), (391, 18507), (404, 18573), (412, 18618), (413, 18621), (421, 18648), (437, 18708), (438, 18711), (467, 18813), (469, 18825), (470, 18828), (481, 18894), (485, 18915), (486, 18918), (489, 18939), (491, 18948), (506, 19008), (507, 19011), (515, 19047), (518, 19065), (523, 19077), (525, 19086), (533, 19113), (550, 19182), (553, 19200), (556, 19209), (558, 19221), (565, 19257), (570, 19287), (576, 19308), (583, 19332), (587, 19368), (595, 19422), (617, 19524), (634, 19602), (646, 19659), (650, 19683), (658, 19737), (664, 19785), (675, 19827), (677, 19851), (678, 19854),

Gene: Mynx_27 Start: 20895, Stop: 23327, Start Num: 82

Candidate Starts for Mynx_27:

(Start: 82 @20895 has 96 MA's), (125, 20994), (210, 21255), (217, 21276), (260, 21483), (270, 21516), (275, 21546), (301, 21618), (306, 21642), (323, 21687), (355, 21840), (363, 21885), (366, 21897), (370, 21906), (385, 21957), (421, 22137), (426, 22152), (441, 22221), (445, 22233), (461, 22296), (470, 22338), (478, 22377), (479, 22383), (480, 22392), (484, 22413), (496, 22473), (525, 22590), (536, 22632), (555, 22704), (557, 22713), (562, 22734), (575, 22806), (580, 22827), (595, 22923), (609, 22986), (643, 23151), (665, 23298),

Gene: Myrale_26 Start: 22154, Stop: 24550, Start Num: 99

Candidate Starts for Myrale_26:

(Start: 99 @22154 has 127 MA's), (164, 22331), (170, 22352), (225, 22499), (254, 22640), (261, 22673), (271, 22706), (277, 22742), (306, 22835), (328, 22895), (333, 22913), (349, 22994), (404, 23222), (412, 23267), (467, 23462), (468, 23468), (470, 23477), (478, 23522), (480, 23537), (515, 23693), (518, 23711), (521, 23720), (536, 23774), (553, 23849), (554, 23852), (594, 24062), (597, 24074), (628, 24188), (664, 24404), (678, 24488), (682, 24512), (684, 24521),

Gene: Nala_26 Start: 22310, Stop: 24706, Start Num: 99

Candidate Starts for Nala_26:

(Start: 99 @22310 has 127 MA's), (164, 22487), (170, 22508), (225, 22655), (254, 22796), (261, 22829), (271, 22862), (277, 22898), (306, 22991), (328, 23051), (333, 23069), (359, 23201), (374, 23246), (404, 23378), (412, 23423), (433, 23483), (464, 23597), (467, 23618), (475, 23657), (478, 23678), (480, 23693), (513, 23843), (515, 23849), (518, 23867), (534, 23921), (553, 24005), (574, 24098), (628, 24344), (664, 24560), (678, 24644), (684, 24677),

Gene: Nebkiss_22 Start: 19932, Stop: 22502, Start Num: 43

Candidate Starts for Nebkiss_22:

(Start: 43 @19932 has 2 MA's), (58, 19989), (71, 20022), (115, 20100), (116, 20103), (140, 20157), (144, 20169), (161, 20217), (172, 20262), (195, 20334), (201, 20355), (208, 20376), (216, 20397), (217, 20400), (227, 20445), (247, 20544), (259, 20589), (273, 20634), (285, 20685), (292, 20703), (328, 20808), (329, 20814), (332, 20823), (333, 20826), (338, 20853), (342, 20874), (349, 20907), (350, 20916), (355, 20937), (357, 20949), (362, 20970), (382, 21024), (385, 21036), (391, 21069), (405, 21144), (411, 21171), (443, 21294), (454, 21321), (460, 21345), (467, 21375), (472, 21399), (479, 21441), (480, 21450), (504, 21579), (509, 21606), (523, 21657), (551, 21768), (553, 21783), (611, 22074), (646, 22242), (650, 22266), (675, 22410), (678, 22437), (680, 22443), (681, 22446),

Gene: NelitzaMV_26 Start: 22353, Stop: 24749, Start Num: 99

Candidate Starts for NelitzaMV_26:

(Start: 99 @22353 has 127 MA's), (164, 22530), (170, 22551), (225, 22698), (254, 22839), (261, 22872), (271, 22905), (277, 22941), (306, 23034), (328, 23094), (333, 23112), (367, 23268), (374, 23289), (401, 23409), (404, 23421), (412, 23466), (467, 23661), (470, 23676), (478, 23721), (480, 23736), (515, 23892), (518, 23910), (521, 23919), (553, 24048), (554, 24051), (594, 24261), (597, 24273), (628, 24387), (664, 24603), (678, 24687), (682, 24711), (684, 24720),

Gene: NewHope4_19 Start: 17446, Stop: 19983, Start Num: 53

Candidate Starts for NewHope4_19:

(Start: 53 @17446 has 233 MA's), (62, 17467), (Start: 72 @17488 has 1 MA's), (89, 17524), (90, 17527), (129, 17596), (130, 17605), (131, 17608), (139, 17626), (149, 17659), (152, 17674), (167, 17722), (198, 17827), (200, 17833), (201, 17836), (216, 17878), (217, 17881), (240, 17983), (253, 18049), (262, 18094), (271, 18124), (273, 18130), (274, 18148), (283, 18172), (285, 18181), (297, 18214), (299, 18220), (316, 18271), (322, 18289), (325, 18301), (328, 18310), (332, 18325), (334, 18331), (355, 18439), (357, 18451), (358, 18457), (362, 18472), (364, 18475), (372, 18496), (382, 18526), (385, 18538), (391, 18571), (404, 18637), (412, 18682), (413, 18685), (421, 18712), (423,

18718), (437, 18772), (438, 18775), (465, 18862), (467, 18877), (469, 18889), (470, 18892), (481, 18958), (489, 19003), (491, 19012), (506, 19072), (507, 19075), (515, 19111), (518, 19129), (523, 19141), (525, 19150), (533, 19177), (550, 19246), (553, 19264), (556, 19273), (558, 19285), (565, 19321), (570, 19351), (576, 19372), (583, 19396), (587, 19432), (595, 19486), (610, 19546), (617, 19588), (634, 19666), (646, 19723), (650, 19747), (658, 19801), (664, 19849), (675, 19891), (677, 19915), (678, 19918),

Gene: Nibb_26 Start: 20138, Stop: 22591, Start Num: 82

Candidate Starts for Nibb_26:

(Start: 82 @20138 has 96 MA's), (147, 20309), (164, 20366), (166, 20378), (208, 20495), (217, 20519), (223, 20546), (250, 20675), (256, 20708), (284, 20819), (287, 20828), (288, 20837), (295, 20858), (306, 20906), (337, 21008), (368, 21167), (389, 21248), (409, 21350), (456, 21542), (461, 21563), (470, 21605), (478, 21650), (480, 21665), (520, 21848), (536, 21905), (546, 21938), (562, 22007), (565, 22031), (577, 22088), (581, 22103), (592, 22181), (626, 22328), (629, 22337),

Gene: Nibley_31 Start: 26436, Stop: 28931, Start Num: 53

Candidate Starts for Nibley_31:

(Start: 53 @26436 has 233 MA's), (139, 26631), (149, 26667), (152, 26682), (186, 26769), (191, 26784), (201, 26820), (203, 26826), (217, 26859), (220, 26871), (259, 27042), (262, 27051), (271, 27075), (284, 27129), (297, 27165), (299, 27171), (306, 27201), (319, 27231), (325, 27252), (328, 27261), (332, 27276), (346, 27345), (364, 27426), (367, 27435), (374, 27456), (375, 27459), (385, 27489), (392, 27525), (401, 27576), (402, 27585), (404, 27588), (409, 27615), (411, 27624), (415, 27645), (437, 27723), (438, 27726), (460, 27798), (468, 27834), (469, 27840), (477, 27882), (478, 27888), (485, 27930), (486, 27933), (489, 27954), (490, 27960), (491, 27963), (501, 27993), (532, 28134), (534, 28143), (536, 28152), (543, 28185), (550, 28209), (551, 28212), (553, 28227), (558, 28248), (565, 28284), (566, 28290), (568, 28296), (571, 28317), (579, 28344), (600, 28479), (615, 28551), (619, 28557), (628, 28575), (646, 28674), (664, 28791), (679, 28872), (681, 28875), (684, 28902),

Gene: NiebruSaylor_57 Start: 35525, Stop: 38035, Start Num: 63

Candidate Starts for NiebruSaylor_57:

(Start: 63 @35525 has 33 MA's), (81, 35558), (111, 35627), (112, 35630), (121, 35654), (131, 35678), (141, 35702), (149, 35735), (206, 35942), (209, 35954), (210, 35957), (244, 36104), (247, 36134), (253, 36158), (262, 36188), (264, 36191), (271, 36218), (274, 36242), (284, 36272), (302, 36329), (307, 36353), (322, 36389), (325, 36401), (332, 36425), (333, 36428), (340, 36470), (362, 36566), (364, 36569), (430, 36824), (467, 36968), (478, 37028), (488, 37100), (489, 37103), (512, 37199), (553, 37373), (558, 37394), (579, 37487), (582, 37499), (595, 37589), (613, 37664), (633, 37709), (670, 37910), (676, 37964), (681, 37979),

Gene: Nimbo_18 Start: 17400, Stop: 19937, Start Num: 53

Candidate Starts for Nimbo_18:

(Start: 53 @17400 has 233 MA's), (62, 17421), (Start: 72 @17442 has 1 MA's), (90, 17481), (129, 17550), (130, 17559), (131, 17562), (139, 17580), (152, 17628), (167, 17676), (200, 17787), (201, 17790), (217, 17835), (233, 17913), (240, 17937), (253, 18003), (271, 18078), (273, 18084), (274, 18102), (283, 18126), (285, 18135), (297, 18168), (299, 18174), (306, 18204), (316, 18225), (325, 18255), (328, 18264), (350, 18372), (353, 18384), (355, 18393), (356, 18396), (358, 18411), (362, 18426), (364, 18429), (372, 18450), (385, 18492), (391, 18525), (412, 18636), (413, 18639), (421, 18666), (423, 18672), (437, 18726), (438, 18729), (449, 18756), (467, 18831), (469, 18843), (470, 18846), (481, 18912), (485, 18933), (486, 18936), (489, 18957), (491, 18966), (502, 19008), (506, 19026), (507, 19029), (513, 19059), (518, 19083), (523, 19095), (525, 19104), (550, 19200), (553, 19218), (556, 19227), (558, 19239), (565, 19275), (570, 19305), (574, 19314), (576, 19326), (587, 19386), (595, 19440), (610, 19500), (617, 19542), (646, 19677), (650, 19701), (658, 19755), (664, 19803), (675, 19845), (677, 19869), (678, 19872),

Gene: Nimrod_26 Start: 22529, Stop: 24925, Start Num: 99

Candidate Starts for Nimrod_26:

(Start: 99 @22529 has 127 MA's), (164, 22706), (170, 22727), (225, 22874), (254, 23015), (261, 23048), (271, 23081), (277, 23117), (306, 23210), (328, 23270), (333, 23288), (359, 23420), (374, 23465), (404, 23597), (412, 23642), (433, 23702), (464, 23816), (467, 23837), (475, 23876), (478, 23897), (480, 23912), (513, 24062), (515, 24068), (518, 24086), (534, 24140), (553, 24224), (574, 24317), (628, 24563), (664, 24779), (678, 24863), (684, 24896),

Gene: Nitzel_19 Start: 18136, Stop: 20673, Start Num: 53

Candidate Starts for Nitzel_19:

(Start: 53 @18136 has 233 MA's), (62, 18157), (Start: 72 @18178 has 1 MA's), (90, 18217), (129, 18286), (130, 18295), (131, 18298), (139, 18316), (149, 18349), (152, 18364), (167, 18412), (198, 18517), (200, 18523), (201, 18526), (216, 18568), (217, 18571), (240, 18673), (253, 18739), (262, 18784), (271, 18814), (273, 18820), (274, 18838), (283, 18862), (285, 18871), (297, 18904), (299, 18910), (316, 18961), (322, 18979), (325, 18991), (328, 19000), (332, 19015), (334, 19021), (355, 19129), (357, 19141), (358, 19147), (362, 19162), (364, 19165), (372, 19186), (382, 19216), (385, 19228), (391, 19261), (404, 19327), (412, 19372), (413, 19375), (421, 19402), (423, 19408), (437, 19462), (438, 19465), (449, 19492), (467, 19567), (469, 19579), (470, 19582), (481, 19648), (486, 19672), (491, 19702), (502, 19744), (506, 19762), (507, 19765), (515, 19801), (518, 19819), (523, 19831), (525, 19840), (533, 19867), (550, 19936), (553, 19954), (556, 19963), (558, 19975), (565, 20011), (576, 20062), (581, 20080), (587, 20122), (595, 20176), (610, 20236), (617, 20278), (646, 20413), (650, 20437), (658, 20491), (664, 20539), (675, 20581), (677, 20605), (678, 20608),

Gene: Nivrat_18 Start: 17405, Stop: 19930, Start Num: 53

Candidate Starts for Nivrat_18:

(Start: 53 @17405 has 233 MA's), (94, 17486), (129, 17555), (130, 17564), (131, 17567), (139, 17585), (152, 17633), (166, 17678), (200, 17792), (201, 17795), (205, 17807), (214, 17828), (216, 17837), (217, 17840), (228, 17888), (233, 17918), (247, 17984), (254, 18017), (262, 18053), (269, 18077), (284, 18137), (285, 18140), (292, 18158), (314, 18221), (316, 18224), (322, 18242), (328, 18263), (333, 18281), (338, 18308), (342, 18329), (349, 18362), (358, 18410), (359, 18413), (362, 18425), (364, 18428), (373, 18455), (382, 18479), (391, 18524), (415, 18650), (422, 18674), (455, 18782), (467, 18833), (469, 18845), (470, 18848), (478, 18893), (480, 18908), (485, 18935), (489, 18959), (502, 19010), (506, 19028), (507, 19031), (508, 19043), (523, 19097), (534, 19139), (566, 19283), (579, 19337), (580, 19343), (581, 19346), (585, 19382), (586, 19385), (589, 19394), (591, 19421), (637, 19622), (664, 19793), (674, 19832), (680, 19871), (681, 19874),

Gene: NoShow_21 Start: 18882, Stop: 21146, Start Num: 113

Candidate Starts for NoShow_21:

(Start: 113 @18882 has 1 MA's), (155, 19005), (158, 19014), (182, 19098), (188, 19122), (192, 19131), (217, 19209), (238, 19311), (256, 19398), (294, 19488), (309, 19545), (317, 19563), (320, 19569), (324, 19584), (329, 19599), (332, 19608), (389, 19800), (411, 19908), (454, 20088), (459, 20109), (462, 20118), (473, 20175), (476, 20187), (480, 20217), (491, 20271), (500, 20304), (509, 20346), (514, 20364), (541, 20469), (550, 20499), (579, 20640), (582, 20652), (635, 20943), (665, 21126),

Gene: NoSleep_27 Start: 22023, Stop: 24419, Start Num: 99

Candidate Starts for NoSleep_27:

(Start: 99 @22023 has 127 MA's), (164, 22200), (170, 22221), (225, 22368), (261, 22542), (271, 22575), (277, 22611), (306, 22704), (328, 22764), (333, 22782), (359, 22914), (374, 22959), (404, 23091), (412, 23136), (433, 23196), (464, 23310), (467, 23331), (475, 23370), (478, 23391), (480, 23406), (513, 23556), (515, 23562), (518, 23580), (534, 23634), (553, 23718), (574, 23811), (628, 24057), (664, 24273), (678, 24357), (684, 24390),

Gene: NonchalantPear_26 Start: 21979, Stop: 24375, Start Num: 99

Candidate Starts for NonchalantPear_26:

(Start: 99 @21979 has 127 MA's), (164, 22156), (170, 22177), (225, 22324), (254, 22465), (261, 22498), (271, 22531), (277, 22567), (306, 22660), (328, 22720), (333, 22738), (359, 22870), (374, 22915), (404, 23047), (412, 23092), (433, 23152), (464, 23266), (467, 23287), (475, 23326), (478, 23347), (480, 23362), (513, 23512), (515, 23518), (518, 23536), (534, 23590), (553, 23674), (574, 23767), (628, 24013), (664, 24229), (678, 24313), (684, 24346),

Gene: NormanBulbieJr_18 Start: 17393, Stop: 19945, Start Num: 53

Candidate Starts for NormanBulbieJr_18:

(Start: 53 @17393 has 233 MA's), (94, 17474), (129, 17543), (130, 17552), (131, 17555), (139, 17573), (152, 17621), (166, 17666), (200, 17780), (201, 17783), (205, 17795), (214, 17816), (216, 17825), (217, 17828), (228, 17876), (233, 17906), (247, 17972), (254, 18005), (262, 18041), (269, 18065), (284, 18125), (285, 18128), (292, 18146), (314, 18209), (316, 18212), (322, 18230), (328, 18251), (333, 18269), (338, 18296), (342, 18317), (349, 18350), (357, 18392), (358, 18398), (359, 18401), (364, 18416), (373, 18443), (374, 18446), (382, 18467), (385, 18479), (391, 18512), (409, 18605), (437, 18713), (443, 18737), (449, 18743), (453, 18761), (454, 18764), (460, 18788), (467, 18818), (472, 18842), (478, 18878), (479, 18884), (480, 18893), (485, 18920), (498, 18983), (502, 19007), (504, 19022), (513, 19064), (527, 19115), (551, 19211), (553, 19226), (556, 19235), (561, 19259), (574, 19322), (583, 19358), (642, 19664), (650, 19709), (664, 19811),

Gene: NovoPizza_24 Start: 21830, Stop: 24478, Start Num: 19

Candidate Starts for NovoPizza_24:

(19, 21830), (29, 21926), (110, 22154), (122, 22187), (133, 22217), (135, 22226), (137, 22229), (158, 22304), (173, 22373), (181, 22388), (187, 22412), (203, 22463), (217, 22502), (232, 22571), (234, 22583), (243, 22616), (272, 22736), (320, 22850), (323, 22862), (338, 22916), (348, 22967), (355, 23000), (389, 23126), (401, 23186), (409, 23228), (418, 23267), (437, 23348), (440, 23363), (446, 23378), (459, 23435), (470, 23483), (474, 23504), (480, 23543), (491, 23603), (497, 23627), (500, 23636), (503, 23654), (506, 23660), (508, 23675), (509, 23678), (516, 23714), (548, 23810), (556, 23852), (573, 23942), (574, 23945), (581, 23975), (599, 24098), (605, 24119), (636, 24272), (668, 24470),

Gene: Oaker_29 Start: 25939, Stop: 28782, Start Num: 17

Candidate Starts for Oaker_29:

(Start: 17 @25939 has 8 MA's), (30, 26071), (31, 26083), (35, 26092), (49, 26161), (52, 26167), (76, 26227), (86, 26248), (108, 26296), (125, 26338), (134, 26362), (145, 26395), (154, 26431), (160, 26443), (185, 26536), (201, 26593), (212, 26632), (254, 26827), (260, 26857), (273, 26899), (285, 26950), (316, 27040), (322, 27058), (340, 27139), (349, 27178), (353, 27199), (391, 27337), (398, 27376), (411, 27439), (438, 27541), (488, 27766), (571, 28129), (579, 28156), (629, 28399), (632, 28432), (638, 28456), (657, 28576), (673, 28654), (684, 28741), (686, 28756), (687, 28762),

Gene: Ochi17_18 Start: 17634, Stop: 20171, Start Num: 53

Candidate Starts for Ochi17_18:

(Start: 53 @17634 has 233 MA's), (62, 17655), (Start: 72 @17676 has 1 MA's), (90, 17715), (129, 17784), (130, 17793), (131, 17796), (139, 17814), (152, 17862), (200, 18021), (201, 18024), (216, 18066), (217, 18069), (233, 18147), (239, 18168), (240, 18171), (253, 18237), (254, 18246), (262, 18282), (271, 18312), (273, 18318), (283, 18360), (284, 18366), (285, 18369), (297, 18402), (299, 18408), (306, 18438), (316, 18459), (325, 18489), (328, 18498), (350, 18606), (353, 18618), (355, 18627), (356, 18630), (357, 18639), (358, 18645), (362, 18660), (364, 18663), (372, 18684), (385, 18726), (391, 18759), (421, 18900), (423, 18906), (437, 18960), (438, 18963), (449, 18990), (467, 19065), (469, 19077), (470, 19080), (481, 19146), (485, 19167), (486, 19170), (489, 19191), (502, 19242), (506, 19260), (507, 19263), (513, 19293), (518, 19317), (523, 19329), (550, 19434), (553, 19452), (556, 19461), (558, 19473), (565, 19509), (570, 19539), (576, 19560), (583, 19584), (587,

19620), (610, 19734), (617, 19776), (634, 19854), (646, 19911), (650, 19935), (658, 19989), (664, 20037), (675, 20079), (677, 20103), (678, 20106),

Gene: OfUltron_18 Start: 17634, Stop: 20171, Start Num: 53

Candidate Starts for OfUltron_18:

(Start: 53 @17634 has 233 MA's), (62, 17655), (Start: 72 @17676 has 1 MA's), (90, 17715), (129, 17784), (130, 17793), (131, 17796), (139, 17814), (152, 17862), (200, 18021), (201, 18024), (216, 18066), (217, 18069), (233, 18147), (239, 18168), (240, 18171), (253, 18237), (254, 18246), (262, 18282), (271, 18312), (273, 18318), (283, 18360), (284, 18366), (285, 18369), (297, 18402), (299, 18408), (306, 18438), (316, 18459), (325, 18489), (328, 18498), (350, 18606), (353, 18618), (355, 18627), (356, 18630), (357, 18639), (358, 18645), (362, 18660), (364, 18663), (372, 18684), (385, 18726), (391, 18759), (421, 18900), (423, 18906), (437, 18960), (438, 18963), (449, 18990), (467, 19065), (469, 19077), (470, 19080), (481, 19146), (485, 19167), (486, 19170), (489, 19191), (502, 19242), (506, 19260), (507, 19263), (513, 19293), (518, 19317), (523, 19329), (550, 19434), (553, 19452), (556, 19461), (558, 19473), (565, 19509), (570, 19539), (576, 19560), (583, 19584), (587, 19620), (610, 19734), (617, 19776), (634, 19854), (646, 19911), (650, 19935), (658, 19989), (664, 20037), (675, 20079), (677, 20103), (678, 20106),

Gene: Ogopogo_21 Start: 17660, Stop: 20149, Start Num: 53

Candidate Starts for Ogopogo_21:

(Start: 53 @17660 has 233 MA's), (62, 17681), (Start: 72 @17702 has 1 MA's), (96, 17741), (129, 17810), (130, 17819), (131, 17822), (139, 17840), (152, 17888), (167, 17936), (191, 17990), (201, 18026), (203, 18032), (204, 18035), (215, 18053), (220, 18077), (227, 18101), (242, 18164), (259, 18248), (262, 18257), (271, 18281), (274, 18305), (283, 18329), (284, 18335), (292, 18356), (299, 18377), (306, 18407), (319, 18437), (325, 18458), (346, 18551), (349, 18566), (350, 18575), (355, 18596), (356, 18599), (382, 18683), (383, 18686), (385, 18695), (390, 18722), (392, 18731), (399, 18770), (402, 18791), (404, 18794), (411, 18830), (415, 18851), (437, 18929), (438, 18932), (456, 18986), (469, 19046), (486, 19139), (488, 19157), (489, 19160), (501, 19196), (511, 19250), (513, 19259), (532, 19337), (536, 19355), (545, 19391), (547, 19394), (550, 19412), (551, 19415), (553, 19430), (558, 19451), (565, 19487), (568, 19499), (583, 19562), (587, 19595), (600, 19682), (612, 19730), (615, 19754), (623, 19781), (628, 19790), (633, 19829), (641, 19868), (646, 19892), (649, 19913), (664, 20009), (672, 20030), (681, 20093), (684, 20120), (685, 20129),

Gene: Oksu_19 Start: 17479, Stop: 20016, Start Num: 53

Candidate Starts for Oksu_19:

(Start: 53 @17479 has 233 MA's), (62, 17500), (Start: 72 @17521 has 1 MA's), (90, 17560), (129, 17629), (130, 17638), (131, 17641), (139, 17659), (152, 17707), (198, 17860), (201, 17869), (217, 17914), (239, 18013), (240, 18016), (253, 18082), (271, 18157), (273, 18163), (274, 18181), (283, 18205), (284, 18211), (285, 18214), (297, 18247), (299, 18253), (306, 18283), (316, 18304), (325, 18334), (328, 18343), (332, 18358), (333, 18361), (355, 18472), (356, 18475), (357, 18484), (358, 18490), (362, 18505), (364, 18508), (372, 18529), (385, 18571), (391, 18604), (421, 18745), (423, 18751), (437, 18805), (438, 18808), (449, 18835), (467, 18910), (469, 18922), (470, 18925), (481, 18991), (485, 19012), (486, 19015), (489, 19036), (502, 19087), (506, 19105), (507, 19108), (513, 19138), (518, 19162), (523, 19174), (550, 19279), (553, 19297), (556, 19306), (558, 19318), (565, 19354), (570, 19384), (576, 19405), (583, 19429), (587, 19465), (610, 19579), (617, 19621), (634, 19699), (646, 19756), (650, 19780), (658, 19834), (664, 19882), (675, 19924), (677, 19948), (678, 19951),

Gene: OldBen_18 Start: 17370, Stop: 19907, Start Num: 53

Candidate Starts for OldBen_18:

(47, 17358), (Start: 53 @17370 has 233 MA's), (62, 17391), (Start: 72 @17412 has 1 MA's), (90, 17451), (129, 17520), (130, 17529), (131, 17532), (139, 17550), (152, 17598), (167, 17646), (200, 17757), (201, 17760), (217, 17805), (233, 17883), (240, 17907), (253, 17973), (262, 18018), (271,

18048), (273, 18054), (274, 18072), (283, 18096), (285, 18105), (297, 18138), (299, 18144), (306, 18174), (322, 18213), (325, 18225), (328, 18234), (332, 18249), (333, 18252), (355, 18363), (356, 18366), (357, 18375), (358, 18381), (362, 18396), (364, 18399), (372, 18420), (382, 18450), (385, 18462), (391, 18495), (412, 18606), (413, 18609), (421, 18636), (423, 18642), (437, 18696), (438, 18699), (467, 18801), (469, 18813), (470, 18816), (481, 18882), (486, 18906), (489, 18927), (491, 18936), (506, 18996), (507, 18999), (515, 19035), (518, 19053), (525, 19074), (533, 19101), (550, 19170), (553, 19188), (556, 19197), (558, 19209), (565, 19245), (576, 19296), (581, 19314), (587, 19356), (595, 19410), (617, 19512), (646, 19647), (650, 19671), (658, 19725), (672, 19794), (677, 19839), (678, 19842),

Gene: OlympiaSaint_18 Start: 17593, Stop: 20145, Start Num: 53

Candidate Starts for OlympiaSaint_18:

(Start: 53 @17593 has 233 MA's), (94, 17674), (129, 17743), (130, 17752), (131, 17755), (139, 17773), (152, 17821), (166, 17866), (200, 17980), (201, 17983), (205, 17995), (214, 18016), (216, 18025), (217, 18028), (228, 18076), (233, 18106), (247, 18172), (254, 18205), (262, 18241), (269, 18265), (284, 18325), (285, 18328), (292, 18346), (314, 18409), (316, 18412), (322, 18430), (328, 18451), (333, 18469), (338, 18496), (342, 18517), (349, 18550), (357, 18592), (358, 18598), (359, 18601), (364, 18616), (373, 18643), (374, 18646), (382, 18667), (385, 18679), (391, 18712), (409, 18805), (437, 18913), (443, 18937), (449, 18943), (453, 18961), (454, 18964), (460, 18988), (467, 19018), (472, 19042), (478, 19078), (479, 19084), (480, 19093), (485, 19120), (498, 19183), (502, 19207), (504, 19222), (513, 19264), (527, 19315), (551, 19411), (553, 19426), (556, 19435), (561, 19459), (574, 19522), (583, 19558), (642, 19864), (650, 19909), (664, 20011),

Gene: Omega_38 Start: 31431, Stop: 33986, Start Num: 53

Candidate Starts for Omega_38:

(Start: 53 @31431 has 233 MA's), (139, 31626), (149, 31662), (152, 31677), (167, 31725), (200, 31836), (201, 31839), (213, 31869), (217, 31884), (233, 31962), (240, 31986), (253, 32052), (262, 32097), (271, 32127), (273, 32133), (274, 32151), (283, 32175), (285, 32184), (297, 32217), (299, 32223), (306, 32253), (322, 32292), (325, 32304), (328, 32313), (332, 32328), (333, 32331), (355, 32442), (356, 32445), (357, 32454), (358, 32460), (362, 32475), (364, 32478), (372, 32499), (382, 32529), (385, 32541), (391, 32574), (404, 32640), (412, 32685), (413, 32688), (421, 32715), (423, 32721), (437, 32775), (438, 32778), (465, 32865), (467, 32880), (469, 32892), (470, 32895), (481, 32961), (489, 33006), (491, 33015), (506, 33075), (507, 33078), (515, 33114), (518, 33132), (523, 33144), (525, 33153), (533, 33180), (550, 33249), (553, 33267), (556, 33276), (558, 33288), (565, 33324), (570, 33354), (576, 33375), (583, 33399), (587, 33435), (595, 33489), (610, 33549), (617, 33591), (646, 33726), (650, 33750), (658, 33804), (664, 33852), (675, 33894), (677, 33918), (678, 33921),

Gene: Optimus_37 Start: 30775, Stop: 33330, Start Num: 53

Candidate Starts for Optimus_37:

(40, 30718), (Start: 53 @30775 has 233 MA's), (139, 30970), (149, 31006), (152, 31021), (167, 31069), (198, 31174), (201, 31183), (217, 31228), (239, 31327), (240, 31330), (253, 31396), (271, 31471), (273, 31477), (274, 31495), (283, 31519), (285, 31528), (297, 31561), (299, 31567), (306, 31597), (322, 31636), (325, 31648), (328, 31657), (355, 31786), (356, 31789), (357, 31798), (358, 31804), (362, 31819), (364, 31822), (372, 31843), (382, 31873), (385, 31885), (391, 31918), (412, 32029), (413, 32032), (421, 32059), (423, 32065), (437, 32119), (438, 32122), (467, 32224), (469, 32236), (470, 32239), (481, 32305), (486, 32329), (489, 32350), (502, 32401), (506, 32419), (507, 32422), (513, 32452), (518, 32476), (523, 32488), (525, 32497), (550, 32593), (553, 32611), (556, 32620), (558, 32632), (570, 32698), (574, 32707), (576, 32719), (587, 32779), (617, 32935), (646, 33070), (650, 33094), (658, 33148), (672, 33217), (677, 33262), (678, 33265),

Gene: OrionPax_27 Start: 22029, Stop: 24425, Start Num: 99

Candidate Starts for OrionPax_27:

(Start: 99 @22029 has 127 MA's), (164, 22206), (170, 22227), (225, 22374), (261, 22548), (271, 22581), (277, 22617), (306, 22710), (328, 22770), (333, 22788), (359, 22920), (374, 22965), (404, 23097), (412, 23142), (433, 23202), (464, 23316), (467, 23337), (475, 23376), (478, 23397), (480, 23412), (513, 23562), (515, 23568), (518, 23586), (534, 23640), (553, 23724), (574, 23817), (628, 24063), (664, 24279), (678, 24363), (684, 24396),

Gene: Oscar_26 Start: 20113, Stop: 22572, Start Num: 82

Candidate Starts for Oscar_26:

(Start: 82 @20113 has 96 MA's), (103, 20161), (147, 20284), (164, 20341), (166, 20353), (200, 20446), (208, 20470), (223, 20521), (256, 20683), (284, 20794), (295, 20833), (301, 20857), (337, 20980), (350, 21052), (368, 21139), (386, 21205), (389, 21220), (409, 21322), (421, 21376), (436, 21436), (456, 21514), (458, 21526), (461, 21535), (470, 21577), (478, 21622), (480, 21637), (499, 21724), (505, 21748), (520, 21820), (536, 21877), (562, 21988), (565, 22012), (569, 22033), (581, 22084), (602, 22213), (629, 22318), (665, 22543),

Gene: Ovechkin_18 Start: 17427, Stop: 19964, Start Num: 53

Candidate Starts for Ovechkin_18:

(Start: 53 @17427 has 233 MA's), (62, 17448), (Start: 72 @17469 has 1 MA's), (89, 17505), (90, 17508), (129, 17577), (130, 17586), (131, 17589), (139, 17607), (149, 17640), (152, 17655), (167, 17703), (200, 17814), (201, 17817), (213, 17847), (216, 17859), (217, 17862), (233, 17940), (240, 17964), (253, 18030), (262, 18075), (271, 18105), (273, 18111), (274, 18129), (283, 18153), (285, 18162), (297, 18195), (299, 18201), (306, 18231), (322, 18270), (325, 18282), (328, 18291), (332, 18306), (333, 18309), (355, 18420), (356, 18423), (357, 18432), (358, 18438), (362, 18453), (364, 18456), (372, 18477), (382, 18507), (385, 18519), (391, 18552), (412, 18663), (413, 18666), (421, 18693), (423, 18699), (437, 18753), (438, 18756), (467, 18858), (469, 18870), (470, 18873), (481, 18939), (486, 18963), (489, 18984), (491, 18993), (506, 19053), (507, 19056), (515, 19092), (518, 19110), (523, 19122), (525, 19131), (533, 19158), (550, 19227), (553, 19245), (556, 19254), (558, 19266), (565, 19302), (570, 19332), (576, 19353), (583, 19377), (587, 19413), (595, 19467), (610, 19527), (617, 19569), (634, 19647), (646, 19704), (650, 19728), (658, 19782), (664, 19830), (675, 19872), (677, 19896), (678, 19899),

Gene: OwlsT2W_20 Start: 17765, Stop: 20317, Start Num: 53

Candidate Starts for OwlsT2W_20:

(Start: 53 @17765 has 233 MA's), (101, 17855), (129, 17915), (130, 17924), (131, 17927), (139, 17945), (152, 17993), (166, 18038), (200, 18152), (201, 18155), (205, 18167), (214, 18188), (216, 18197), (217, 18200), (233, 18278), (247, 18344), (254, 18377), (262, 18413), (269, 18437), (284, 18497), (285, 18500), (292, 18518), (314, 18581), (316, 18584), (322, 18602), (328, 18623), (333, 18641), (338, 18668), (342, 18689), (349, 18722), (357, 18764), (358, 18770), (359, 18773), (364, 18788), (373, 18815), (374, 18818), (382, 18839), (385, 18851), (391, 18884), (409, 18977), (437, 19085), (443, 19109), (449, 19115), (453, 19133), (454, 19136), (460, 19160), (467, 19190), (472, 19214), (478, 19250), (479, 19256), (480, 19265), (485, 19292), (498, 19355), (502, 19379), (504, 19394), (513, 19436), (527, 19487), (551, 19583), (553, 19598), (556, 19607), (561, 19631), (574, 19694), (583, 19730), (642, 20036), (650, 20081), (664, 20183),

Gene: PHappiness_18 Start: 17378, Stop: 19915, Start Num: 53

Candidate Starts for PHappiness_18:

(47, 17366), (Start: 53 @17378 has 233 MA's), (62, 17399), (Start: 72 @17420 has 1 MA's), (90, 17459), (129, 17528), (130, 17537), (131, 17540), (139, 17558), (152, 17606), (167, 17654), (200, 17765), (201, 17768), (217, 17813), (233, 17891), (240, 17915), (253, 17981), (262, 18026), (271, 18056), (273, 18062), (274, 18080), (283, 18104), (285, 18113), (297, 18146), (299, 18152), (306, 18182), (322, 18221), (325, 18233), (328, 18242), (332, 18257), (333, 18260), (355, 18371), (356, 18374), (357, 18383), (358, 18389), (362, 18404), (364, 18407), (372, 18428), (382, 18458), (385, 18470), (391, 18503), (412, 18614), (413, 18617), (421, 18644), (423, 18650), (437, 18704), (438,

18707), (467, 18809), (469, 18821), (470, 18824), (481, 18890), (486, 18914), (489, 18935), (491, 18944), (506, 19004), (507, 19007), (515, 19043), (518, 19061), (525, 19082), (533, 19109), (550, 19178), (553, 19196), (556, 19205), (558, 19217), (565, 19253), (576, 19304), (581, 19322), (587, 19364), (595, 19418), (617, 19520), (646, 19655), (650, 19679), (658, 19733), (672, 19802), (677, 19847), (678, 19850),

Gene: PMC_18 Start: 17383, Stop: 19920, Start Num: 53

Candidate Starts for PMC_18:

(Start: 53 @17383 has 233 MA's), (101, 17473), (129, 17533), (130, 17542), (131, 17545), (139, 17563), (152, 17611), (167, 17659), (198, 17764), (200, 17770), (201, 17773), (216, 17815), (217, 17818), (240, 17920), (253, 17986), (262, 18031), (271, 18061), (273, 18067), (274, 18085), (283, 18109), (285, 18118), (297, 18151), (299, 18157), (316, 18208), (322, 18226), (325, 18238), (328, 18247), (332, 18262), (334, 18268), (355, 18376), (357, 18388), (358, 18394), (362, 18409), (364, 18412), (372, 18433), (382, 18463), (385, 18475), (391, 18508), (404, 18574), (412, 18619), (413, 18622), (421, 18649), (423, 18655), (437, 18709), (438, 18712), (449, 18739), (467, 18814), (469, 18826), (470, 18829), (481, 18895), (485, 18916), (486, 18919), (491, 18949), (502, 18991), (506, 19009), (507, 19012), (513, 19042), (518, 19066), (523, 19078), (525, 19087), (550, 19183), (553, 19201), (556, 19210), (558, 19222), (570, 19288), (574, 19297), (576, 19309), (587, 19369), (617, 19525), (646, 19660), (650, 19684), (658, 19738), (672, 19807), (677, 19852), (678, 19855),

Gene: Pacc40_18 Start: 17568, Stop: 20105, Start Num: 53

Candidate Starts for Pacc40_18:

(47, 17556), (Start: 53 @17568 has 233 MA's), (62, 17589), (Start: 72 @17610 has 1 MA's), (90, 17649), (129, 17718), (130, 17727), (131, 17730), (139, 17748), (152, 17796), (167, 17844), (200, 17955), (201, 17958), (217, 18003), (233, 18081), (240, 18105), (253, 18171), (262, 18216), (271, 18246), (273, 18252), (274, 18270), (283, 18294), (285, 18303), (297, 18336), (299, 18342), (306, 18372), (322, 18411), (325, 18423), (328, 18432), (332, 18447), (333, 18450), (355, 18561), (356, 18564), (357, 18573), (358, 18579), (362, 18594), (364, 18597), (372, 18618), (382, 18648), (385, 18660), (391, 18693), (412, 18804), (413, 18807), (421, 18834), (423, 18840), (437, 18894), (438, 18897), (467, 18999), (469, 19011), (470, 19014), (481, 19080), (486, 19104), (489, 19125), (491, 19134), (506, 19194), (507, 19197), (515, 19233), (518, 19251), (525, 19272), (533, 19299), (550, 19368), (553, 19386), (556, 19395), (558, 19407), (565, 19443), (576, 19494), (581, 19512), (587, 19554), (595, 19608), (617, 19710), (646, 19845), (650, 19869), (658, 19923), (672, 19992), (677, 20037), (678, 20040),

Gene: Pace1224_22 Start: 20643, Stop: 23102, Start Num: 33

Candidate Starts for Pace1224_22:

(Start: 33 @20643 has 9 MA's), (46, 20703), (65, 20751), (155, 20946), (239, 21234), (261, 21336), (270, 21360), (327, 21504), (331, 21519), (349, 21600), (365, 21675), (385, 21732), (389, 21756), (397, 21792), (437, 21978), (442, 21999), (456, 22047), (459, 22062), (473, 22128), (480, 22170), (500, 22263), (503, 22281), (518, 22347), (537, 22428), (559, 22494), (587, 22647), (602, 22737), (614, 22806), (625, 22842), (645, 22935), (659, 23040), (662, 23076),

Gene: PaddyBaddy_27 Start: 22039, Stop: 24435, Start Num: 99

Candidate Starts for PaddyBaddy_27:

(Start: 99 @22039 has 127 MA's), (164, 22216), (170, 22237), (225, 22384), (261, 22558), (271, 22591), (277, 22627), (306, 22720), (328, 22780), (333, 22798), (359, 22930), (374, 22975), (404, 23107), (412, 23152), (433, 23212), (464, 23326), (467, 23347), (475, 23386), (478, 23407), (480, 23422), (513, 23572), (515, 23578), (518, 23596), (534, 23650), (553, 23734), (574, 23827), (628, 24073), (664, 24289), (678, 24373), (684, 24406),

Gene: Padfoot_27 Start: 20912, Stop: 23344, Start Num: 82

Candidate Starts for Padfoot_27:

(Start: 82 @20912 has 96 MA's), (125, 21011), (210, 21272), (217, 21293), (260, 21500), (270, 21533), (275, 21563), (301, 21635), (306, 21659), (355, 21857), (363, 21902), (366, 21914), (370, 21923), (385, 21974), (421, 22154), (426, 22169), (441, 22238), (445, 22250), (461, 22313), (470, 22355), (478, 22394), (479, 22400), (480, 22409), (484, 22430), (496, 22490), (525, 22607), (536, 22649), (555, 22721), (557, 22730), (562, 22751), (575, 22823), (580, 22844), (595, 22940), (628, 23087), (643, 23168), (665, 23315),

Gene: Padpat_27 Start: 20872, Stop: 23304, Start Num: 82

Candidate Starts for Padpat_27:

(Start: 82 @20872 has 96 MA's), (125, 20971), (210, 21232), (217, 21253), (260, 21460), (270, 21493), (275, 21523), (301, 21595), (306, 21619), (323, 21664), (355, 21817), (363, 21862), (366, 21874), (370, 21883), (385, 21934), (421, 22114), (426, 22129), (441, 22198), (445, 22210), (461, 22273), (470, 22315), (478, 22354), (479, 22360), (480, 22369), (484, 22390), (496, 22450), (525, 22567), (536, 22609), (555, 22681), (557, 22690), (562, 22711), (575, 22783), (580, 22804), (595, 22900), (609, 22963), (643, 23128), (665, 23275),

Gene: PaintedDog_20 Start: 18529, Stop: 21066, Start Num: 60

Candidate Starts for PaintedDog_20:

(15, 18220), (Start: 60 @18529 has 2 MA's), (68, 18553), (104, 18634), (116, 18664), (119, 18673), (131, 18700), (135, 18709), (194, 18919), (206, 18964), (209, 18976), (210, 18979), (239, 19114), (247, 19159), (253, 19183), (258, 19201), (269, 19237), (271, 19243), (283, 19291), (299, 19342), (301, 19351), (322, 19414), (332, 19450), (333, 19453), (334, 19456), (364, 19594), (390, 19681), (391, 19687), (412, 19798), (467, 19993), (478, 20053), (488, 20125), (489, 20128), (491, 20137), (553, 20398), (574, 20491), (580, 20518), (582, 20524), (608, 20671), (613, 20692), (676, 20992),

Gene: Palpatine_26 Start: 22301, Stop: 24697, Start Num: 99

Candidate Starts for Palpatine_26:

(Start: 99 @22301 has 127 MA's), (164, 22478), (170, 22499), (225, 22646), (254, 22787), (261, 22820), (271, 22853), (277, 22889), (306, 22982), (328, 23042), (333, 23060), (359, 23192), (374, 23237), (404, 23369), (412, 23414), (433, 23474), (464, 23588), (467, 23609), (475, 23648), (478, 23669), (480, 23684), (513, 23834), (515, 23840), (518, 23858), (534, 23912), (553, 23996), (574, 24089), (628, 24335), (664, 24551), (678, 24635), (684, 24668),

Gene: Paperbeatsrock_28 Start: 23264, Stop: 25660, Start Num: 99

Candidate Starts for Paperbeatsrock_28:

(Start: 99 @23264 has 127 MA's), (164, 23441), (170, 23462), (225, 23609), (254, 23750), (261, 23783), (271, 23816), (277, 23852), (306, 23945), (328, 24005), (333, 24023), (359, 24155), (374, 24200), (404, 24332), (412, 24377), (433, 24437), (464, 24551), (467, 24572), (475, 24611), (478, 24632), (480, 24647), (513, 24797), (515, 24803), (518, 24821), (534, 24875), (553, 24959), (574, 25052), (628, 25298), (664, 25514), (678, 25598), (684, 25631),

Gene: Pat3_25 Start: 21010, Stop: 23406, Start Num: 99

Candidate Starts for Pat3_25:

(Start: 99 @21010 has 127 MA's), (164, 21187), (170, 21208), (225, 21355), (254, 21496), (261, 21529), (271, 21562), (277, 21598), (306, 21691), (328, 21751), (333, 21769), (359, 21901), (374, 21946), (404, 22078), (412, 22123), (464, 22297), (467, 22318), (475, 22357), (478, 22378), (480, 22393), (515, 22549), (518, 22567), (534, 22621), (553, 22705), (620, 23029), (664, 23260), (678, 23344), (684, 23377),

Gene: PatoPoderoso_18 Start: 17437, Stop: 19974, Start Num: 53

Candidate Starts for PatoPoderoso_18:

(47, 17425), (Start: 53 @17437 has 233 MA's), (62, 17458), (Start: 72 @17479 has 1 MA's), (90, 17518), (129, 17587), (130, 17596), (131, 17599), (139, 17617), (149, 17650), (152, 17665), (167,

17713), (200, 17824), (201, 17827), (213, 17857), (216, 17869), (217, 17872), (233, 17950), (240, 17974), (253, 18040), (262, 18085), (271, 18115), (273, 18121), (274, 18139), (283, 18163), (285, 18172), (297, 18205), (299, 18211), (306, 18241), (322, 18280), (325, 18292), (328, 18301), (332, 18316), (333, 18319), (355, 18430), (356, 18433), (357, 18442), (358, 18448), (362, 18463), (364, 18466), (372, 18487), (382, 18517), (385, 18529), (391, 18562), (412, 18673), (413, 18676), (421, 18703), (423, 18709), (437, 18763), (438, 18766), (465, 18853), (467, 18868), (469, 18880), (470, 18883), (481, 18949), (486, 18973), (489, 18994), (491, 19003), (506, 19063), (507, 19066), (515, 19102), (518, 19120), (523, 19132), (525, 19141), (533, 19168), (550, 19237), (553, 19255), (556, 19264), (558, 19276), (565, 19312), (570, 19342), (576, 19363), (583, 19387), (587, 19423), (595, 19477), (610, 19537), (617, 19579), (634, 19657), (646, 19714), (650, 19738), (658, 19792), (664, 19840), (675, 19882), (677, 19906), (678, 19909),

Gene: Peel_27 Start: 20912, Stop: 23344, Start Num: 82

Candidate Starts for Peel_27:

(Start: 82 @20912 has 96 MA's), (125, 21011), (210, 21272), (217, 21293), (260, 21500), (270, 21533), (275, 21563), (301, 21635), (306, 21659), (355, 21857), (363, 21902), (366, 21914), (370, 21923), (385, 21974), (421, 22154), (426, 22169), (441, 22238), (445, 22250), (461, 22313), (470, 22355), (478, 22394), (479, 22400), (480, 22409), (484, 22430), (496, 22490), (525, 22607), (536, 22649), (555, 22721), (557, 22730), (562, 22751), (575, 22823), (580, 22844), (595, 22940), (628, 23087), (643, 23168), (665, 23315),

Gene: Peridot_20 Start: 17209, Stop: 19746, Start Num: 53

Candidate Starts for Peridot_20:

(47, 17197), (Start: 53 @17209 has 233 MA's), (62, 17230), (Start: 72 @17251 has 1 MA's), (90, 17290), (130, 17368), (131, 17371), (139, 17389), (149, 17422), (152, 17437), (167, 17485), (200, 17596), (201, 17599), (217, 17644), (233, 17722), (253, 17812), (271, 17887), (273, 17893), (274, 17911), (283, 17935), (284, 17941), (285, 17944), (297, 17977), (299, 17983), (306, 18013), (316, 18034), (325, 18064), (328, 18073), (332, 18088), (333, 18091), (355, 18202), (356, 18205), (357, 18214), (358, 18220), (362, 18235), (364, 18238), (372, 18259), (382, 18289), (385, 18301), (391, 18334), (412, 18445), (413, 18448), (421, 18475), (423, 18481), (437, 18535), (438, 18538), (467, 18640), (469, 18652), (470, 18655), (481, 18721), (486, 18745), (489, 18766), (491, 18775), (506, 18835), (507, 18838), (515, 18874), (518, 18892), (523, 18904), (525, 18913), (533, 18940), (549, 18997), (550, 19009), (553, 19027), (556, 19036), (558, 19048), (565, 19084), (570, 19114), (574, 19123), (576, 19135), (587, 19195), (595, 19249), (610, 19309), (617, 19351), (646, 19486), (650, 19510), (658, 19564), (664, 19612), (675, 19654), (677, 19678), (678, 19681),

Gene: Petra64142_28 Start: 22744, Stop: 25140, Start Num: 99

Candidate Starts for Petra64142_28:

(Start: 99 @22744 has 127 MA's), (164, 22921), (170, 22942), (225, 23089), (254, 23230), (261, 23263), (271, 23296), (277, 23332), (306, 23425), (328, 23485), (333, 23503), (359, 23635), (374, 23680), (404, 23812), (412, 23857), (433, 23917), (464, 24031), (467, 24052), (475, 24091), (478, 24112), (480, 24127), (513, 24277), (515, 24283), (518, 24301), (534, 24355), (553, 24439), (574, 24532), (628, 24778), (664, 24994), (678, 25078), (684, 25111),

Gene: Phaja_26 Start: 22460, Stop: 24856, Start Num: 99

Candidate Starts for Phaja_26:

(Start: 99 @22460 has 127 MA's), (164, 22637), (170, 22658), (225, 22805), (254, 22946), (261, 22979), (271, 23012), (277, 23048), (306, 23141), (328, 23201), (333, 23219), (367, 23375), (374, 23396), (401, 23516), (404, 23528), (412, 23573), (467, 23768), (468, 23774), (470, 23783), (478, 23828), (480, 23843), (515, 23999), (518, 24017), (521, 24026), (536, 24080), (553, 24155), (554, 24158), (594, 24368), (597, 24380), (628, 24494), (664, 24710), (678, 24794), (682, 24818), (684, 24827),

Gene: Phalconet_18 Start: 17448, Stop: 19979, Start Num: 53

Candidate Starts for Phalconet_18:

(47, 17436), (Start: 53 @17448 has 233 MA's), (62, 17469), (Start: 72 @17490 has 1 MA's), (90, 17529), (129, 17598), (130, 17607), (131, 17610), (149, 17661), (152, 17676), (167, 17718), (200, 17829), (201, 17832), (213, 17862), (217, 17877), (233, 17955), (253, 18045), (262, 18090), (271, 18120), (273, 18126), (274, 18144), (283, 18168), (285, 18177), (297, 18210), (299, 18216), (306, 18246), (322, 18285), (325, 18297), (328, 18306), (332, 18321), (333, 18324), (355, 18435), (356, 18438), (357, 18447), (358, 18453), (362, 18468), (364, 18471), (372, 18492), (382, 18522), (385, 18534), (391, 18567), (404, 18633), (412, 18678), (413, 18681), (421, 18708), (423, 18714), (437, 18768), (438, 18771), (465, 18858), (467, 18873), (469, 18885), (470, 18888), (481, 18954), (489, 18999), (491, 19008), (506, 19068), (507, 19071), (515, 19107), (518, 19125), (523, 19137), (525, 19146), (533, 19173), (550, 19242), (553, 19260), (556, 19269), (558, 19281), (565, 19317), (570, 19347), (576, 19368), (583, 19392), (587, 19428), (595, 19482), (610, 19542), (617, 19584), (634, 19662), (646, 19719), (650, 19743), (658, 19797), (664, 19845), (675, 19887), (677, 19911), (678, 19914),

Gene: Phanphagia_18 Start: 17450, Stop: 19927, Start Num: 53

Candidate Starts for Phanphagia_18:

(48, 17438), (Start: 53 @17450 has 233 MA's), (62, 17471), (Start: 72 @17492 has 1 MA's), (96, 17531), (129, 17600), (130, 17609), (131, 17612), (139, 17630), (149, 17663), (152, 17678), (186, 17765), (191, 17780), (201, 17816), (203, 17822), (217, 17855), (220, 17867), (259, 18038), (262, 18047), (271, 18071), (284, 18125), (297, 18161), (299, 18167), (306, 18197), (319, 18227), (325, 18248), (328, 18257), (346, 18341), (358, 18404), (364, 18422), (367, 18431), (374, 18452), (375, 18455), (382, 18473), (385, 18485), (390, 18512), (392, 18521), (401, 18572), (402, 18581), (404, 18584), (409, 18611), (411, 18620), (415, 18641), (437, 18719), (438, 18722), (468, 18830), (469, 18836), (478, 18884), (485, 18926), (486, 18929), (489, 18950), (490, 18956), (491, 18959), (501, 18989), (532, 19130), (536, 19148), (543, 19181), (550, 19205), (551, 19208), (553, 19223), (558, 19244), (565, 19280), (566, 19286), (571, 19313), (579, 19340), (600, 19475), (612, 19523), (615, 19547), (619, 19553), (628, 19571), (646, 19670), (649, 19691), (652, 19709), (664, 19787), (672, 19808), (681, 19871), (682, 19889), (685, 19907),

Gene: Pharsalus_27 Start: 23064, Stop: 25460, Start Num: 99

Candidate Starts for Pharsalus_27:

(Start: 99 @23064 has 127 MA's), (164, 23241), (170, 23262), (225, 23409), (254, 23550), (261, 23583), (271, 23616), (277, 23652), (306, 23745), (328, 23805), (333, 23823), (359, 23955), (374, 24000), (404, 24132), (412, 24177), (433, 24237), (464, 24351), (467, 24372), (475, 24411), (478, 24432), (480, 24447), (513, 24597), (515, 24603), (518, 24621), (534, 24675), (553, 24759), (574, 24852), (628, 25098), (664, 25314), (678, 25398), (684, 25431),

Gene: Phasih_19 Start: 17939, Stop: 20476, Start Num: 53

Candidate Starts for Phasih_19:

(Start: 53 @17939 has 233 MA's), (62, 17960), (Start: 72 @17981 has 1 MA's), (90, 18020), (129, 18089), (130, 18098), (131, 18101), (139, 18119), (149, 18152), (152, 18167), (198, 18320), (201, 18329), (217, 18374), (239, 18473), (240, 18476), (253, 18542), (271, 18617), (273, 18623), (283, 18665), (284, 18671), (285, 18674), (297, 18707), (299, 18713), (306, 18743), (316, 18764), (325, 18794), (328, 18803), (332, 18818), (333, 18821), (355, 18932), (356, 18935), (357, 18944), (358, 18950), (362, 18965), (364, 18968), (372, 18989), (382, 19019), (385, 19031), (391, 19064), (412, 19175), (413, 19178), (421, 19205), (423, 19211), (437, 19265), (438, 19268), (465, 19355), (467, 19370), (469, 19382), (470, 19385), (481, 19451), (486, 19475), (489, 19496), (491, 19505), (502, 19547), (506, 19565), (507, 19568), (513, 19598), (518, 19622), (523, 19634), (525, 19643), (550, 19739), (553, 19757), (556, 19766), (558, 19778), (565, 19814), (570, 19844), (574, 19853), (576, 19865), (587, 19925), (595, 19979), (610, 20039), (617, 20081), (646, 20216), (650, 20240), (658, 20294), (664, 20342), (675, 20384), (677, 20408), (678, 20411),

Gene: PhatBacter_26 Start: 22312, Stop: 24708, Start Num: 99

Candidate Starts for PhatBacter_26:

(Start: 99 @22312 has 127 MA's), (164, 22489), (170, 22510), (225, 22657), (254, 22798), (261, 22831), (271, 22864), (277, 22900), (306, 22993), (328, 23053), (333, 23071), (359, 23203), (374, 23248), (404, 23380), (412, 23425), (433, 23485), (464, 23599), (467, 23620), (475, 23659), (478, 23680), (480, 23695), (513, 23845), (515, 23851), (518, 23869), (534, 23923), (553, 24007), (574, 24100), (628, 24346), (664, 24562), (678, 24646), (684, 24679),

Gene: Phatniss_19 Start: 17901, Stop: 20438, Start Num: 53

Candidate Starts for Phatniss_19:

(47, 17889), (Start: 53 @17901 has 233 MA's), (62, 17922), (Start: 72 @17943 has 1 MA's), (90, 17982), (129, 18051), (130, 18060), (131, 18063), (139, 18081), (149, 18114), (152, 18129), (167, 18177), (198, 18282), (201, 18291), (216, 18333), (217, 18336), (233, 18414), (240, 18438), (253, 18504), (262, 18549), (271, 18579), (273, 18585), (274, 18603), (283, 18627), (285, 18636), (297, 18669), (299, 18675), (306, 18705), (322, 18744), (325, 18756), (328, 18765), (332, 18780), (333, 18783), (355, 18894), (357, 18906), (358, 18912), (362, 18927), (364, 18930), (372, 18951), (382, 18981), (385, 18993), (391, 19026), (404, 19092), (412, 19137), (413, 19140), (421, 19167), (423, 19173), (437, 19227), (438, 19230), (449, 19257), (467, 19332), (469, 19344), (470, 19347), (481, 19413), (486, 19437), (491, 19467), (502, 19509), (506, 19527), (507, 19530), (515, 19566), (518, 19584), (525, 19605), (533, 19632), (550, 19701), (553, 19719), (556, 19728), (558, 19740), (565, 19776), (570, 19806), (574, 19815), (576, 19827), (587, 19887), (595, 19941), (610, 20001), (617, 20043), (634, 20121), (646, 20178), (650, 20202), (658, 20256), (664, 20304), (675, 20346), (677, 20370), (678, 20373),

Gene: Phaux_25 Start: 22310, Stop: 24706, Start Num: 99

Candidate Starts for Phaux_25:

(Start: 99 @22310 has 127 MA's), (164, 22487), (170, 22508), (225, 22655), (254, 22796), (261, 22829), (271, 22862), (277, 22898), (306, 22991), (328, 23051), (333, 23069), (359, 23201), (374, 23246), (404, 23378), (412, 23423), (433, 23483), (464, 23597), (467, 23618), (475, 23657), (478, 23678), (480, 23693), (513, 23843), (515, 23849), (518, 23867), (534, 23921), (553, 24005), (574, 24098), (628, 24344), (664, 24560), (678, 24644), (684, 24677),

Gene: PhesterPhotato_18 Start: 17419, Stop: 19956, Start Num: 53

Candidate Starts for PhesterPhotato_18:

(47, 17407), (Start: 53 @17419 has 233 MA's), (62, 17440), (Start: 72 @17461 has 1 MA's), (90, 17500), (129, 17569), (130, 17578), (131, 17581), (139, 17599), (149, 17632), (152, 17647), (167, 17695), (200, 17806), (201, 17809), (213, 17839), (217, 17854), (233, 17932), (240, 17956), (253, 18022), (262, 18067), (271, 18097), (273, 18103), (274, 18121), (283, 18145), (285, 18154), (297, 18187), (299, 18193), (306, 18223), (322, 18262), (325, 18274), (328, 18283), (332, 18298), (333, 18301), (355, 18412), (356, 18415), (357, 18424), (358, 18430), (362, 18445), (364, 18448), (372, 18469), (382, 18499), (385, 18511), (391, 18544), (412, 18655), (413, 18658), (421, 18685), (423, 18691), (437, 18745), (438, 18748), (467, 18850), (469, 18862), (470, 18865), (481, 18931), (486, 18955), (489, 18976), (491, 18985), (506, 19045), (507, 19048), (515, 19084), (518, 19102), (523, 19114), (525, 19123), (533, 19150), (550, 19219), (553, 19237), (556, 19246), (558, 19258), (565, 19294), (570, 19324), (576, 19345), (583, 19369), (587, 19405), (595, 19459), (610, 19519), (617, 19561), (634, 19639), (646, 19696), (650, 19720), (652, 19735), (658, 19774), (664, 19822), (675, 19864), (677, 19888), (678, 19891),

Gene: Philus_18 Start: 17405, Stop: 19942, Start Num: 53

Candidate Starts for Philus_18:

(Start: 53 @17405 has 233 MA's), (62, 17426), (Start: 72 @17447 has 1 MA's), (90, 17486), (129, 17555), (130, 17564), (131, 17567), (139, 17585), (152, 17633), (198, 17786), (201, 17795), (217,

17840), (233, 17918), (240, 17942), (253, 18008), (262, 18053), (271, 18083), (273, 18089), (274, 18107), (283, 18131), (285, 18140), (297, 18173), (299, 18179), (306, 18209), (322, 18248), (328, 18269), (332, 18284), (333, 18287), (356, 18401), (357, 18410), (358, 18416), (364, 18434), (372, 18455), (382, 18485), (385, 18497), (391, 18530), (412, 18641), (413, 18644), (421, 18671), (423, 18677), (437, 18731), (438, 18734), (465, 18821), (467, 18836), (470, 18851), (486, 18941), (489, 18962), (491, 18971), (506, 19031), (507, 19034), (515, 19070), (518, 19088), (523, 19100), (525, 19109), (533, 19136), (550, 19205), (553, 19223), (556, 19232), (558, 19244), (565, 19280), (570, 19310), (576, 19331), (583, 19355), (587, 19391), (595, 19445), (617, 19547), (634, 19625), (646, 19682), (650, 19706), (658, 19760), (664, 19808), (675, 19850), (680, 19883), (681, 19886),

Gene: PhlipPhlop_18 Start: 17352, Stop: 19889, Start Num: 53

Candidate Starts for PhlipPhlop_18:

(Start: 53 @17352 has 233 MA's), (62, 17373), (Start: 72 @17394 has 1 MA's), (90, 17433), (129, 17502), (130, 17511), (131, 17514), (139, 17532), (152, 17580), (198, 17733), (201, 17742), (217, 17787), (239, 17886), (240, 17889), (253, 17955), (271, 18030), (273, 18036), (274, 18054), (283, 18078), (284, 18084), (285, 18087), (297, 18120), (299, 18126), (306, 18156), (316, 18177), (325, 18207), (328, 18216), (332, 18231), (333, 18234), (355, 18345), (356, 18348), (357, 18357), (358, 18363), (362, 18378), (364, 18381), (372, 18402), (382, 18432), (385, 18444), (391, 18477), (412, 18588), (413, 18591), (421, 18618), (423, 18624), (437, 18678), (438, 18681), (467, 18783), (469, 18795), (470, 18798), (481, 18864), (486, 18888), (489, 18909), (491, 18918), (506, 18978), (507, 18981), (515, 19017), (518, 19035), (523, 19047), (525, 19056), (533, 19083), (549, 19140), (550, 19152), (553, 19170), (556, 19179), (558, 19191), (565, 19227), (570, 19257), (574, 19266), (576, 19278), (587, 19338), (595, 19392), (610, 19452), (617, 19494), (646, 19629), (650, 19653), (658, 19707), (664, 19755), (675, 19797), (677, 19821), (678, 19824),

Gene: Phreeze_29 Start: 25682, Stop: 28525, Start Num: 17

Candidate Starts for Phreeze_29:

(Start: 17 @25682 has 8 MA's), (30, 25814), (31, 25826), (35, 25835), (49, 25904), (76, 25970), (86, 25991), (108, 26039), (125, 26081), (134, 26105), (145, 26138), (154, 26174), (160, 26186), (185, 26279), (201, 26336), (212, 26375), (254, 26570), (260, 26600), (273, 26642), (316, 26783), (322, 26801), (340, 26882), (349, 26921), (353, 26942), (391, 27080), (398, 27119), (411, 27182), (438, 27284), (488, 27509), (571, 27872), (579, 27899), (629, 28142), (632, 28175), (638, 28199), (657, 28319), (673, 28397), (684, 28484), (686, 28499), (687, 28505),

Gene: Phrux_26 Start: 22025, Stop: 24421, Start Num: 99

Candidate Starts for Phrux_26:

(Start: 99 @22025 has 127 MA's), (164, 22202), (170, 22223), (225, 22370), (261, 22544), (271, 22577), (277, 22613), (306, 22706), (328, 22766), (333, 22784), (359, 22916), (374, 22961), (404, 23093), (412, 23138), (433, 23198), (464, 23312), (467, 23333), (475, 23372), (478, 23393), (480, 23408), (513, 23558), (515, 23564), (518, 23582), (534, 23636), (553, 23720), (574, 23813), (628, 24059), (664, 24275), (678, 24359), (684, 24392),

Gene: Piatt_27 Start: 20912, Stop: 23344, Start Num: 82

Candidate Starts for Piatt_27:

(Start: 82 @20912 has 96 MA's), (125, 21011), (210, 21272), (217, 21293), (260, 21500), (270, 21533), (275, 21563), (301, 21635), (306, 21659), (355, 21857), (363, 21902), (366, 21914), (370, 21923), (385, 21974), (421, 22154), (426, 22169), (441, 22238), (445, 22250), (461, 22313), (470, 22355), (478, 22394), (479, 22400), (480, 22409), (484, 22430), (496, 22490), (525, 22607), (536, 22649), (555, 22721), (557, 22730), (562, 22751), (575, 22823), (580, 22844), (595, 22940), (628, 23087), (643, 23168), (665, 23315),

Gene: Pinnie_23 Start: 21181, Stop: 23643, Start Num: 33

Candidate Starts for Pinnie_23:

(Start: 33 @21181 has 9 MA's), (64, 21286), (65, 21289), (131, 21409), (145, 21451), (155, 21484), (191, 21589), (239, 21772), (252, 21832), (297, 21955), (308, 21994), (326, 22042), (327, 22045), (349, 22141), (353, 22162), (359, 22192), (365, 22216), (389, 22297), (391, 22306), (397, 22333), (421, 22453), (442, 22540), (456, 22588), (473, 22669), (480, 22711), (500, 22804), (518, 22888), (583, 23149), (587, 23188), (601, 23275), (614, 23347), (642, 23464), (645, 23476), (659, 23581), (667, 23626),

Gene: Piper2020_19 Start: 17270, Stop: 19795, Start Num: 53

Candidate Starts for Piper2020_19:

(Start: 53 @17270 has 233 MA's), (62, 17291), (Start: 72 @17312 has 1 MA's), (90, 17351), (129, 17420), (130, 17429), (131, 17432), (139, 17450), (149, 17483), (152, 17498), (167, 17546), (200, 17657), (201, 17660), (217, 17705), (233, 17783), (240, 17807), (253, 17873), (254, 17882), (271, 17948), (273, 17954), (274, 17972), (283, 17996), (284, 18002), (285, 18005), (297, 18038), (299, 18044), (306, 18074), (316, 18095), (328, 18134), (332, 18149), (334, 18155), (364, 18299), (382, 18350), (403, 18461), (413, 18512), (420, 18536), (449, 18629), (460, 18674), (464, 18683), (467, 18704), (469, 18716), (470, 18719), (478, 18764), (486, 18809), (488, 18827), (489, 18830), (502, 18881), (513, 18932), (515, 18938), (518, 18956), (523, 18968), (525, 18977), (534, 19010), (553, 19091), (568, 19160), (574, 19187), (580, 19214), (589, 19265), (595, 19313), (649, 19556), (664, 19661), (672, 19682), (680, 19736), (683, 19760),

Gene: Pisa1_26 Start: 20946, Stop: 23378, Start Num: 82

Candidate Starts for Pisa1_26:

(Start: 82 @20946 has 96 MA's), (104, 20997), (109, 21006), (210, 21306), (217, 21327), (269, 21564), (270, 21567), (275, 21597), (276, 21600), (301, 21669), (306, 21693), (308, 21699), (323, 21738), (335, 21777), (355, 21891), (363, 21936), (366, 21948), (370, 21957), (385, 22008), (421, 22188), (426, 22203), (441, 22272), (461, 22347), (470, 22389), (478, 22428), (479, 22434), (480, 22443), (484, 22464), (496, 22524), (508, 22572), (525, 22641), (536, 22683), (557, 22764), (568, 22821), (575, 22857), (580, 22878), (595, 22974), (609, 23037), (616, 23085), (643, 23202), (655, 23277),

Gene: Pisa4_26 Start: 20946, Stop: 23378, Start Num: 82

Candidate Starts for Pisa4_26:

(Start: 82 @20946 has 96 MA's), (104, 20997), (109, 21006), (210, 21306), (217, 21327), (269, 21564), (270, 21567), (275, 21597), (276, 21600), (301, 21669), (306, 21693), (308, 21699), (323, 21738), (335, 21777), (355, 21891), (363, 21936), (366, 21948), (370, 21957), (385, 22008), (421, 22188), (426, 22203), (441, 22272), (461, 22347), (470, 22389), (478, 22428), (479, 22434), (480, 22443), (484, 22464), (496, 22524), (508, 22572), (525, 22641), (536, 22683), (557, 22764), (568, 22821), (575, 22857), (580, 22878), (595, 22974), (609, 23037), (616, 23085), (643, 23202), (655, 23277),

Gene: Plumbus_19 Start: 17226, Stop: 19763, Start Num: 53

Candidate Starts for Plumbus_19:

(47, 17214), (Start: 53 @17226 has 233 MA's), (62, 17247), (Start: 72 @17268 has 1 MA's), (90, 17307), (129, 17376), (130, 17385), (131, 17388), (139, 17406), (149, 17439), (152, 17454), (167, 17502), (200, 17613), (201, 17616), (213, 17646), (216, 17658), (217, 17661), (233, 17739), (240, 17763), (253, 17829), (262, 17874), (271, 17904), (273, 17910), (274, 17928), (283, 17952), (285, 17961), (297, 17994), (299, 18000), (306, 18030), (322, 18069), (325, 18081), (328, 18090), (332, 18105), (333, 18108), (355, 18219), (356, 18222), (357, 18231), (358, 18237), (362, 18252), (364, 18255), (372, 18276), (382, 18306), (385, 18318), (391, 18351), (404, 18417), (412, 18462), (413, 18465), (421, 18492), (423, 18498), (437, 18552), (438, 18555), (465, 18642), (467, 18657), (469, 18669), (470, 18672), (481, 18738), (486, 18762), (489, 18783), (491, 18792), (506, 18852), (507, 18855), (515, 18891), (518, 18909), (523, 18921), (525, 18930), (533, 18957), (550, 19026), (553, 19044), (556, 19053), (558, 19065), (565, 19101), (570, 19131), (576, 19152), (583, 19176), (587, 19212), (595, 19266), (610, 19326), (617, 19368), (634, 19446), (646, 19503), (650, 19527), (658, 19581), (664, 19629), (675, 19671), (677, 19695), (678, 19698),

Gene: Poenanya_18 Start: 17534, Stop: 20071, Start Num: 53

Candidate Starts for Poenanya_18:

(Start: 53 @17534 has 233 MA's), (62, 17555), (Start: 72 @17576 has 1 MA's), (90, 17615), (129, 17684), (130, 17693), (131, 17696), (139, 17714), (152, 17762), (200, 17921), (201, 17924), (217, 17969), (233, 18047), (240, 18071), (253, 18137), (271, 18212), (273, 18218), (274, 18236), (283, 18260), (284, 18266), (285, 18269), (297, 18302), (299, 18308), (306, 18338), (316, 18359), (325, 18389), (328, 18398), (350, 18506), (353, 18518), (355, 18527), (356, 18530), (358, 18545), (362, 18560), (364, 18563), (372, 18584), (385, 18626), (391, 18659), (412, 18770), (413, 18773), (421, 18800), (423, 18806), (437, 18860), (438, 18863), (449, 18890), (467, 18965), (469, 18977), (470, 18980), (481, 19046), (485, 19067), (486, 19070), (489, 19091), (491, 19100), (506, 19160), (507, 19163), (515, 19199), (518, 19217), (523, 19229), (525, 19238), (533, 19265), (549, 19322), (550, 19334), (553, 19352), (556, 19361), (558, 19373), (565, 19409), (570, 19439), (574, 19448), (576, 19460), (587, 19520), (595, 19574), (610, 19634), (617, 19676), (646, 19811), (650, 19835), (658, 19889), (664, 19937), (675, 19979), (677, 20003), (678, 20006),

Gene: Pokerus_26 Start: 20829, Stop: 23261, Start Num: 82

Candidate Starts for Pokerus_26:

(Start: 82 @20829 has 96 MA's), (125, 20928), (210, 21189), (217, 21210), (260, 21417), (270, 21450), (275, 21480), (301, 21552), (306, 21576), (355, 21774), (363, 21819), (366, 21831), (370, 21840), (385, 21891), (421, 22071), (426, 22086), (441, 22155), (445, 22167), (461, 22230), (470, 22272), (478, 22311), (479, 22317), (480, 22326), (484, 22347), (496, 22407), (525, 22524), (536, 22566), (555, 22638), (557, 22647), (562, 22668), (575, 22740), (580, 22761), (595, 22857), (628, 23004), (643, 23085), (665, 23232),

Gene: Policronamos_26 Start: 22312, Stop: 24708, Start Num: 99

Candidate Starts for Policronamos_26:

(Start: 99 @22312 has 127 MA's), (164, 22489), (170, 22510), (225, 22657), (254, 22798), (261, 22831), (271, 22864), (277, 22900), (306, 22993), (328, 23053), (333, 23071), (349, 23152), (404, 23380), (412, 23425), (467, 23620), (468, 23626), (470, 23635), (478, 23680), (480, 23695), (515, 23851), (518, 23869), (521, 23878), (536, 23932), (553, 24007), (594, 24220), (597, 24232), (628, 24346), (664, 24562), (678, 24646), (682, 24670), (684, 24679),

Gene: Polka14_19 Start: 17940, Stop: 20477, Start Num: 53

Candidate Starts for Polka14_19:

(47, 17928), (Start: 53 @17940 has 233 MA's), (62, 17961), (Start: 72 @17982 has 1 MA's), (90, 18021), (129, 18090), (130, 18099), (131, 18102), (139, 18120), (152, 18168), (167, 18216), (200, 18327), (201, 18330), (217, 18375), (233, 18453), (240, 18477), (253, 18543), (262, 18588), (271, 18618), (273, 18624), (274, 18642), (283, 18666), (285, 18675), (297, 18708), (299, 18714), (306, 18744), (322, 18783), (325, 18795), (328, 18804), (332, 18819), (333, 18822), (355, 18933), (356, 18936), (357, 18945), (358, 18951), (362, 18966), (364, 18969), (372, 18990), (382, 19020), (385, 19032), (391, 19065), (412, 19176), (413, 19179), (421, 19206), (423, 19212), (437, 19266), (438, 19269), (467, 19371), (469, 19383), (470, 19386), (481, 19452), (486, 19476), (489, 19497), (491, 19506), (506, 19566), (507, 19569), (515, 19605), (518, 19623), (525, 19644), (533, 19671), (550, 19740), (553, 19758), (556, 19767), (558, 19779), (565, 19815), (576, 19866), (581, 19884), (587, 19926), (595, 19980), (617, 20082), (646, 20217), (650, 20241), (658, 20295), (672, 20364), (677, 20409), (678, 20412),

Gene: Pollywog_21 Start: 18605, Stop: 21094, Start Num: 53

Candidate Starts for Pollywog_21:

(Start: 53 @18605 has 233 MA's), (62, 18626), (Start: 72 @18647 has 1 MA's), (96, 18686), (129, 18755), (130, 18764), (131, 18767), (139, 18785), (152, 18833), (167, 18881), (191, 18935), (201, 18971), (203, 18977), (204, 18980), (215, 18998), (220, 19022), (227, 19046), (242, 19109), (259,

19193), (262, 19202), (271, 19226), (274, 19250), (283, 19274), (284, 19280), (292, 19301), (299, 19322), (306, 19352), (319, 19382), (325, 19403), (346, 19496), (349, 19511), (350, 19520), (355, 19541), (356, 19544), (382, 19628), (383, 19631), (385, 19640), (390, 19667), (392, 19676), (399, 19715), (402, 19736), (404, 19739), (411, 19775), (415, 19796), (437, 19874), (438, 19877), (456, 19931), (469, 19991), (486, 20084), (488, 20102), (489, 20105), (501, 20141), (511, 20195), (513, 20204), (532, 20282), (536, 20300), (545, 20336), (547, 20339), (550, 20357), (551, 20360), (553, 20375), (558, 20396), (565, 20432), (568, 20444), (583, 20507), (587, 20540), (600, 20627), (612, 20675), (615, 20699), (623, 20726), (628, 20735), (633, 20774), (641, 20813), (646, 20837), (649, 20858), (664, 20954), (672, 20975), (681, 21038), (684, 21065), (685, 21074),

Gene: Polo2Bam_20 Start: 17446, Stop: 19983, Start Num: 53

Candidate Starts for Polo2Bam_20:

(Start: 53 @17446 has 233 MA's), (62, 17467), (Start: 72 @17488 has 1 MA's), (89, 17524), (90, 17527), (129, 17596), (130, 17605), (131, 17608), (139, 17626), (149, 17659), (152, 17674), (167, 17722), (198, 17827), (200, 17833), (201, 17836), (216, 17878), (217, 17881), (240, 17983), (253, 18049), (262, 18094), (271, 18124), (273, 18130), (274, 18148), (283, 18172), (285, 18181), (297, 18214), (299, 18220), (316, 18271), (322, 18289), (325, 18301), (328, 18310), (332, 18325), (334, 18331), (355, 18439), (357, 18451), (358, 18457), (362, 18472), (364, 18475), (372, 18496), (382, 18526), (385, 18538), (391, 18571), (404, 18637), (412, 18682), (413, 18685), (421, 18712), (423, 18718), (437, 18772), (438, 18775), (465, 18862), (467, 18877), (469, 18889), (470, 18892), (481, 18958), (489, 19003), (491, 19012), (506, 19072), (507, 19075), (515, 19111), (518, 19129), (523, 19141), (525, 19150), (533, 19177), (550, 19246), (553, 19264), (556, 19273), (558, 19285), (565, 19321), (570, 19351), (576, 19372), (583, 19396), (587, 19432), (595, 19486), (610, 19546), (617, 19588), (634, 19666), (646, 19723), (650, 19747), (658, 19801), (664, 19849), (675, 19891), (677, 19915), (678, 19918),

Gene: PopTart_18 Start: 17445, Stop: 19982, Start Num: 53

Candidate Starts for PopTart_18:

(47, 17433), (Start: 53 @17445 has 233 MA's), (62, 17466), (Start: 72 @17487 has 1 MA's), (90, 17526), (129, 17595), (130, 17604), (131, 17607), (139, 17625), (149, 17658), (152, 17673), (200, 17832), (201, 17835), (217, 17880), (233, 17958), (240, 17982), (253, 18048), (271, 18123), (273, 18129), (274, 18147), (283, 18171), (284, 18177), (285, 18180), (297, 18213), (299, 18219), (306, 18249), (316, 18270), (325, 18300), (328, 18309), (345, 18390), (357, 18450), (358, 18456), (362, 18471), (364, 18474), (372, 18495), (385, 18537), (391, 18570), (392, 18573), (421, 18711), (423, 18717), (437, 18771), (438, 18774), (449, 18801), (467, 18876), (469, 18888), (470, 18891), (481, 18957), (486, 18981), (489, 19002), (491, 19011), (506, 19071), (507, 19074), (515, 19110), (518, 19128), (525, 19149), (550, 19245), (553, 19263), (556, 19272), (558, 19284), (565, 19320), (570, 19350), (587, 19431), (595, 19485), (617, 19587), (646, 19722), (650, 19746), (658, 19800), (664, 19848), (675, 19890), (677, 19914), (678, 19917),

Gene: Porcelain_35 Start: 27554, Stop: 30061, Start Num: 53

Candidate Starts for Porcelain_35:

(Start: 53 @27554 has 233 MA's), (139, 27749), (149, 27785), (152, 27800), (186, 27887), (191, 27902), (217, 27977), (220, 27989), (228, 28016), (250, 28121), (259, 28160), (262, 28169), (271, 28193), (273, 28199), (274, 28217), (281, 28235), (285, 28250), (289, 28259), (292, 28268), (297, 28283), (304, 28310), (306, 28319), (322, 28358), (325, 28370), (328, 28379), (346, 28463), (364, 28544), (374, 28574), (375, 28577), (385, 28607), (390, 28634), (392, 28643), (401, 28694), (402, 28703), (404, 28706), (411, 28742), (415, 28763), (429, 28799), (468, 28952), (478, 29006), (486, 29051), (488, 29069), (489, 29072), (501, 29111), (532, 29258), (534, 29267), (551, 29336), (553, 29351), (587, 29516), (600, 29603), (612, 29651), (628, 29702), (641, 29780), (679, 30002), (681, 30005), (684, 30032),

Gene: Porky_26 Start: 22121, Stop: 24517, Start Num: 99

Candidate Starts for Porky_26:

(Start: 99 @22121 has 127 MA's), (164, 22298), (170, 22319), (225, 22466), (254, 22607), (261, 22640), (271, 22673), (277, 22709), (306, 22802), (328, 22862), (333, 22880), (359, 23012), (374, 23057), (404, 23189), (412, 23234), (433, 23294), (464, 23408), (467, 23429), (475, 23468), (478, 23489), (480, 23504), (513, 23654), (515, 23660), (518, 23678), (534, 23732), (553, 23816), (574, 23909), (628, 24155), (664, 24371), (678, 24455), (684, 24488),

Gene: Priscilla_18 Start: 17407, Stop: 19959, Start Num: 53

Candidate Starts for Priscilla_18:

(Start: 53 @17407 has 233 MA's), (94, 17488), (129, 17557), (130, 17566), (131, 17569), (139, 17587), (152, 17635), (166, 17680), (200, 17794), (201, 17797), (205, 17809), (214, 17830), (216, 17839), (217, 17842), (228, 17890), (233, 17920), (247, 17986), (254, 18019), (262, 18055), (269, 18079), (284, 18139), (285, 18142), (292, 18160), (314, 18223), (316, 18226), (322, 18244), (328, 18265), (333, 18283), (338, 18310), (342, 18331), (349, 18364), (357, 18406), (358, 18412), (359, 18415), (364, 18430), (373, 18457), (374, 18460), (382, 18481), (385, 18493), (391, 18526), (409, 18619), (437, 18727), (443, 18751), (449, 18757), (453, 18775), (454, 18778), (460, 18802), (467, 18832), (472, 18856), (478, 18892), (479, 18898), (480, 18907), (485, 18934), (498, 18997), (502, 19021), (504, 19036), (513, 19078), (527, 19129), (551, 19225), (553, 19240), (556, 19249), (561, 19273), (574, 19336), (583, 19372), (642, 19678), (650, 19723), (664, 19825),

Gene: Prithvi_27 Start: 20846, Stop: 23278, Start Num: 82

Candidate Starts for Prithvi_27:

(Start: 82 @20846 has 96 MA's), (125, 20945), (210, 21206), (260, 21434), (270, 21467), (275, 21497), (301, 21569), (306, 21593), (323, 21638), (355, 21791), (363, 21836), (366, 21848), (370, 21857), (381, 21893), (385, 21908), (421, 22088), (426, 22103), (441, 22172), (445, 22184), (461, 22247), (470, 22289), (478, 22328), (479, 22334), (480, 22343), (484, 22364), (496, 22424), (525, 22541), (536, 22583), (555, 22655), (557, 22664), (562, 22685), (575, 22757), (580, 22778), (595, 22874), (643, 23102), (665, 23249),

Gene: Ptowny_26 Start: 21666, Stop: 24062, Start Num: 99

Candidate Starts for Ptowny_26:

(Start: 99 @21666 has 127 MA's), (164, 21843), (170, 21864), (225, 22011), (261, 22185), (271, 22218), (277, 22254), (306, 22347), (328, 22407), (333, 22425), (351, 22518), (359, 22557), (374, 22602), (404, 22734), (412, 22779), (433, 22839), (464, 22953), (467, 22974), (475, 23013), (478, 23034), (480, 23049), (513, 23199), (515, 23205), (518, 23223), (534, 23277), (553, 23361), (574, 23454), (628, 23700), (664, 23916), (678, 24000), (684, 24033),

Gene: Puissant_28 Start: 26145, Stop: 28988, Start Num: 17

Candidate Starts for Puissant_28:

(Start: 17 @26145 has 8 MA's), (25, 26247), (30, 26277), (31, 26289), (35, 26298), (52, 26373), (75, 26427), (76, 26433), (86, 26454), (97, 26475), (108, 26502), (175, 26715), (179, 26727), (204, 26808), (207, 26817), (228, 26904), (229, 26910), (242, 26964), (269, 27093), (273, 27105), (306, 27225), (316, 27246), (349, 27384), (385, 27510), (438, 27747), (460, 27819), (469, 27861), (472, 27873), (488, 27972), (509, 28068), (565, 28308), (587, 28416), (629, 28608), (632, 28641), (638, 28665), (641, 28683), (657, 28785), (673, 28863), (680, 28920), (684, 28950), (686, 28965),

Gene: Pumpkin_28 Start: 22364, Stop: 24760, Start Num: 99

Candidate Starts for Pumpkin_28:

(Start: 99 @22364 has 127 MA's), (164, 22541), (170, 22562), (225, 22709), (261, 22883), (271, 22916), (277, 22952), (306, 23045), (328, 23105), (333, 23123), (359, 23255), (374, 23300), (404, 23432), (412, 23477), (433, 23537), (464, 23651), (467, 23672), (475, 23711), (478, 23732), (480, 23747), (513, 23897), (515, 23903), (518, 23921), (534, 23975), (553, 24059), (574, 24152), (628, 24398), (664, 24614), (678, 24698), (684, 24731),

Gene: Pygmy_20 Start: 18761, Stop: 21265, Start Num: 63

Candidate Starts for Pygmy_20:

(Start: 63 @18761 has 33 MA's), (66, 18770), (131, 18914), (239, 19319), (244, 19334), (247, 19364), (248, 19370), (253, 19388), (283, 19496), (299, 19547), (333, 19658), (334, 19661), (340, 19700), (349, 19733), (364, 19799), (385, 19859), (390, 19886), (391, 19892), (467, 20198), (478, 20258), (484, 20306), (485, 20309), (488, 20330), (489, 20333), (553, 20594), (581, 20717), (582, 20720), (595, 20810), (608, 20867), (613, 20888), (637, 20948), (673, 21149), (676, 21191),

Gene: Quallification_27 Start: 22490, Stop: 24886, Start Num: 99

Candidate Starts for Quallification_27:

(Start: 99 @22490 has 127 MA's), (164, 22667), (170, 22688), (225, 22835), (254, 22976), (261, 23009), (271, 23042), (277, 23078), (306, 23171), (328, 23231), (333, 23249), (359, 23381), (374, 23426), (404, 23558), (412, 23603), (433, 23663), (464, 23777), (467, 23798), (475, 23837), (478, 23858), (480, 23873), (513, 24023), (515, 24029), (518, 24047), (534, 24101), (553, 24185), (574, 24278), (628, 24524), (664, 24740), (678, 24824), (684, 24857),

Gene: QuickMath_19 Start: 18743, Stop: 21280, Start Num: 53

Candidate Starts for QuickMath_19:

(47, 18731), (Start: 53 @18743 has 233 MA's), (62, 18764), (Start: 72 @18785 has 1 MA's), (90, 18824), (129, 18893), (130, 18902), (131, 18905), (139, 18923), (149, 18956), (152, 18971), (167, 19019), (200, 19130), (201, 19133), (213, 19163), (216, 19175), (217, 19178), (233, 19256), (240, 19280), (253, 19346), (262, 19391), (271, 19421), (273, 19427), (274, 19445), (283, 19469), (285, 19478), (297, 19511), (299, 19517), (306, 19547), (322, 19586), (325, 19598), (328, 19607), (332, 19622), (333, 19625), (355, 19736), (356, 19739), (357, 19748), (358, 19754), (362, 19769), (364, 19772), (372, 19793), (382, 19823), (385, 19835), (391, 19868), (412, 19979), (413, 19982), (421, 20009), (423, 20015), (437, 20069), (438, 20072), (465, 20159), (467, 20174), (469, 20186), (470, 20189), (481, 20255), (486, 20279), (489, 20300), (491, 20309), (502, 20351), (506, 20369), (507, 20372), (515, 20408), (518, 20426), (523, 20438), (525, 20447), (533, 20474), (550, 20543), (553, 20561), (556, 20570), (558, 20582), (565, 20618), (570, 20648), (576, 20669), (583, 20693), (587, 20729), (595, 20783), (610, 20843), (617, 20885), (634, 20963), (646, 21020), (650, 21044), (658, 21098), (664, 21146), (675, 21188), (677, 21212), (678, 21215),

Gene: Quico_19 Start: 17227, Stop: 19764, Start Num: 53

Candidate Starts for Quico_19:

(Start: 53 @17227 has 233 MA's), (62, 17248), (Start: 72 @17269 has 1 MA's), (90, 17308), (129, 17377), (130, 17386), (131, 17389), (139, 17407), (149, 17440), (152, 17455), (167, 17503), (200, 17614), (201, 17617), (213, 17647), (217, 17662), (233, 17740), (240, 17764), (253, 17830), (262, 17875), (271, 17905), (273, 17911), (274, 17929), (283, 17953), (285, 17962), (297, 17995), (299, 18001), (306, 18031), (322, 18070), (328, 18091), (332, 18106), (333, 18109), (356, 18223), (357, 18232), (358, 18238), (364, 18256), (372, 18277), (382, 18307), (385, 18319), (391, 18352), (412, 18463), (413, 18466), (421, 18493), (423, 18499), (437, 18553), (438, 18556), (465, 18643), (467, 18658), (470, 18673), (486, 18763), (489, 18784), (491, 18793), (506, 18853), (507, 18856), (513, 18886), (518, 18910), (525, 18931), (550, 19027), (553, 19045), (556, 19054), (558, 19066), (565, 19102), (570, 19132), (576, 19153), (583, 19177), (587, 19213), (595, 19267), (610, 19327), (617, 19369), (634, 19447), (646, 19504), (650, 19528), (658, 19582), (664, 19630), (675, 19672), (677, 19696), (678, 19699),

Gene: QuincyRose_26 Start: 20892, Stop: 23324, Start Num: 82

Candidate Starts for QuincyRose_26:

(Start: 82 @20892 has 96 MA's), (125, 20991), (210, 21252), (217, 21273), (260, 21480), (270, 21513), (275, 21543), (301, 21615), (306, 21639), (323, 21684), (355, 21837), (363, 21882), (366, 21894), (370, 21903), (385, 21954), (421, 22134), (426, 22149), (441, 22218), (445, 22230), (461, 22293),

(470, 22335), (478, 22374), (479, 22380), (480, 22389), (484, 22410), (496, 22470), (525, 22587), (536, 22629), (555, 22701), (557, 22710), (562, 22731), (575, 22803), (580, 22824), (595, 22920), (609, 22983), (628, 23067), (634, 23109), (643, 23148),

Gene: Radiance_18 Start: 17380, Stop: 19917, Start Num: 53

Candidate Starts for Radiance_18:

(47, 17368), (Start: 53 @17380 has 233 MA's), (62, 17401), (Start: 72 @17422 has 1 MA's), (90, 17461), (129, 17530), (130, 17539), (131, 17542), (139, 17560), (149, 17593), (152, 17608), (167, 17656), (198, 17761), (200, 17767), (201, 17770), (216, 17812), (217, 17815), (240, 17917), (253, 17983), (262, 18028), (271, 18058), (273, 18064), (274, 18082), (283, 18106), (285, 18115), (297, 18148), (299, 18154), (306, 18184), (325, 18235), (328, 18244), (350, 18352), (353, 18364), (355, 18373), (356, 18376), (358, 18391), (362, 18406), (364, 18409), (372, 18430), (382, 18460), (385, 18472), (391, 18505), (412, 18616), (413, 18619), (421, 18646), (423, 18652), (437, 18706), (438, 18709), (449, 18736), (467, 18811), (469, 18823), (470, 18826), (481, 18892), (485, 18913), (486, 18916), (489, 18937), (491, 18946), (506, 19006), (507, 19009), (513, 19039), (518, 19063), (523, 19075), (525, 19084), (550, 19180), (553, 19198), (556, 19207), (558, 19219), (570, 19285), (574, 19294), (576, 19306), (583, 19330), (587, 19366), (617, 19522), (646, 19657), (650, 19681), (658, 19735), (672, 19804), (677, 19849), (678, 19852),

Gene: Rakim_27 Start: 22397, Stop: 24793, Start Num: 99

Candidate Starts for Rakim_27:

(Start: 99 @22397 has 127 MA's), (164, 22574), (170, 22595), (225, 22742), (254, 22883), (261, 22916), (271, 22949), (277, 22985), (306, 23078), (328, 23138), (333, 23156), (349, 23237), (404, 23465), (412, 23510), (467, 23705), (468, 23711), (470, 23720), (478, 23765), (480, 23780), (515, 23936), (518, 23954), (521, 23963), (536, 24017), (553, 24092), (554, 24095), (594, 24305), (597, 24317), (628, 24431), (664, 24647), (678, 24731), (682, 24755), (684, 24764),

Gene: Ramen_27 Start: 20878, Stop: 23310, Start Num: 82

Candidate Starts for Ramen_27:

(Start: 82 @20878 has 96 MA's), (125, 20977), (210, 21238), (217, 21259), (260, 21466), (270, 21499), (275, 21529), (301, 21601), (306, 21625), (355, 21823), (363, 21868), (366, 21880), (370, 21889), (385, 21940), (421, 22120), (426, 22135), (441, 22204), (445, 22216), (461, 22279), (470, 22321), (478, 22360), (479, 22366), (480, 22375), (484, 22396), (496, 22456), (525, 22573), (536, 22615), (555, 22687), (557, 22696), (562, 22717), (575, 22789), (580, 22810), (595, 22906), (628, 23053), (643, 23134), (665, 23281),

Gene: Ramsey_19 Start: 17429, Stop: 19966, Start Num: 53

Candidate Starts for Ramsey_19:

(Start: 53 @17429 has 233 MA's), (62, 17450), (Start: 72 @17471 has 1 MA's), (90, 17510), (129, 17579), (130, 17588), (131, 17591), (139, 17609), (152, 17657), (200, 17816), (201, 17819), (217, 17864), (233, 17942), (240, 17966), (253, 18032), (271, 18107), (273, 18113), (274, 18131), (283, 18155), (284, 18161), (285, 18164), (297, 18197), (299, 18203), (306, 18233), (316, 18254), (325, 18284), (328, 18293), (350, 18401), (353, 18413), (355, 18422), (356, 18425), (358, 18440), (362, 18455), (364, 18458), (372, 18479), (385, 18521), (391, 18554), (412, 18665), (413, 18668), (421, 18695), (423, 18701), (437, 18755), (438, 18758), (449, 18785), (467, 18860), (469, 18872), (470, 18875), (481, 18941), (485, 18962), (486, 18965), (489, 18986), (491, 18995), (502, 19037), (506, 19055), (507, 19058), (513, 19088), (518, 19112), (523, 19124), (525, 19133), (550, 19229), (553, 19247), (556, 19256), (558, 19268), (565, 19304), (570, 19334), (574, 19343), (576, 19355), (587, 19415), (595, 19469), (610, 19529), (617, 19571), (646, 19706), (650, 19730), (658, 19784), (664, 19832), (675, 19874), (677, 19898), (678, 19901),

Gene: Rapunzel97_27 Start: 20879, Stop: 23311, Start Num: 82

Candidate Starts for Rapunzel97_27:

(Start: 82 @20879 has 96 MA's), (125, 20978), (210, 21239), (217, 21260), (260, 21467), (270, 21500), (275, 21530), (301, 21602), (306, 21626), (323, 21671), (355, 21824), (363, 21869), (366, 21881), (370, 21890), (385, 21941), (421, 22121), (426, 22136), (441, 22205), (445, 22217), (470, 22322), (478, 22361), (479, 22367), (480, 22376), (496, 22457), (508, 22505), (527, 22580), (536, 22616), (557, 22697), (562, 22718), (580, 22811), (595, 22907), (628, 23054), (634, 23096), (643, 23135), (655, 23210),

Gene: RedBird_18 Start: 17357, Stop: 19894, Start Num: 53

Candidate Starts for RedBird_18:

(Start: 53 @17357 has 233 MA's), (62, 17378), (Start: 72 @17399 has 1 MA's), (90, 17438), (129, 17507), (130, 17516), (131, 17519), (139, 17537), (152, 17585), (198, 17738), (201, 17747), (217, 17792), (239, 17891), (240, 17894), (253, 17960), (271, 18035), (273, 18041), (274, 18059), (283, 18083), (284, 18089), (285, 18092), (297, 18125), (299, 18131), (306, 18161), (316, 18182), (325, 18212), (328, 18221), (332, 18236), (333, 18239), (355, 18350), (356, 18353), (357, 18362), (358, 18368), (362, 18383), (364, 18386), (372, 18407), (382, 18437), (385, 18449), (391, 18482), (412, 18593), (413, 18596), (421, 18623), (423, 18629), (437, 18683), (438, 18686), (465, 18773), (467, 18788), (469, 18800), (470, 18803), (481, 18869), (486, 18893), (489, 18914), (491, 18923), (506, 18983), (507, 18986), (515, 19022), (518, 19040), (523, 19052), (525, 19061), (533, 19088), (549, 19145), (550, 19157), (553, 19175), (556, 19184), (558, 19196), (565, 19232), (570, 19262), (574, 19271), (576, 19283), (587, 19343), (595, 19397), (610, 19457), (617, 19499), (646, 19634), (650, 19658), (658, 19712), (664, 19760), (675, 19802), (677, 19826), (678, 19829),

Gene: Renaud18_20 Start: 17833, Stop: 20313, Start Num: 56

Candidate Starts for Renaud18_20:

(Start: 56 @17833 has 3 MA's), (59, 17839), (62, 17845), (Start: 99 @17908 has 127 MA's), (100, 17911), (112, 17938), (135, 17992), (139, 18001), (149, 18034), (161, 18067), (167, 18100), (186, 18139), (191, 18154), (201, 18190), (203, 18196), (204, 18199), (215, 18217), (217, 18229), (220, 18241), (227, 18265), (228, 18268), (259, 18412), (262, 18421), (271, 18445), (274, 18469), (283, 18493), (284, 18499), (292, 18520), (299, 18541), (306, 18571), (319, 18601), (325, 18622), (346, 18715), (349, 18730), (350, 18739), (355, 18760), (356, 18763), (367, 18805), (382, 18847), (383, 18850), (385, 18859), (390, 18886), (399, 18934), (402, 18955), (404, 18958), (411, 18994), (415, 19015), (437, 19093), (438, 19096), (456, 19150), (469, 19210), (486, 19303), (489, 19324), (501, 19360), (511, 19414), (513, 19423), (532, 19501), (536, 19519), (545, 19555), (547, 19558), (550, 19576), (551, 19579), (553, 19594), (558, 19615), (565, 19651), (568, 19663), (583, 19726), (587, 19759), (600, 19846), (612, 19894), (615, 19918), (623, 19945), (628, 19954), (633, 19993), (641, 20032), (646, 20056), (649, 20077), (664, 20173), (672, 20194), (681, 20257), (684, 20284), (685, 20293),

Gene: Rialto_20 Start: 17909, Stop: 20446, Start Num: 53

Candidate Starts for Rialto_20:

(Start: 53 @17909 has 233 MA's), (62, 17930), (Start: 72 @17951 has 1 MA's), (90, 17990), (129, 18059), (130, 18068), (131, 18071), (139, 18089), (152, 18137), (198, 18290), (201, 18299), (217, 18344), (239, 18443), (240, 18446), (253, 18512), (271, 18587), (273, 18593), (274, 18611), (283, 18635), (284, 18641), (285, 18644), (297, 18677), (299, 18683), (306, 18713), (316, 18734), (325, 18764), (328, 18773), (332, 18788), (333, 18791), (355, 18902), (356, 18905), (357, 18914), (358, 18920), (362, 18935), (364, 18938), (372, 18959), (382, 18989), (385, 19001), (391, 19034), (412, 19145), (413, 19148), (421, 19175), (423, 19181), (437, 19235), (438, 19238), (467, 19340), (469, 19352), (470, 19355), (481, 19421), (486, 19445), (489, 19466), (491, 19475), (506, 19535), (507, 19538), (515, 19574), (518, 19592), (523, 19604), (525, 19613), (533, 19640), (549, 19697), (550, 19709), (553, 19727), (556, 19736), (558, 19748), (565, 19784), (570, 19814), (574, 19823), (576, 19835), (587, 19895), (595, 19949), (610, 20009), (617, 20051), (646, 20186), (650, 20210), (658, 20264), (664, 20312), (675, 20354), (677, 20378), (678, 20381),

Gene: Rimmer_25 Start: 21850, Stop: 24246, Start Num: 99

Candidate Starts for Rimmer_25:

(Start: 99 @21850 has 127 MA's), (164, 22027), (170, 22048), (225, 22195), (254, 22336), (261, 22369), (271, 22402), (277, 22438), (306, 22531), (328, 22591), (333, 22609), (359, 22741), (374, 22786), (404, 22918), (412, 22963), (464, 23137), (467, 23158), (475, 23197), (478, 23218), (480, 23233), (515, 23389), (518, 23407), (534, 23461), (553, 23545), (574, 23638), (628, 23884), (664, 24100), (678, 24184), (684, 24217),

Gene: Rinke_33 Start: 31333, Stop: 33816, Start Num: 38

Candidate Starts for Rinke_33:

(Start: 38 @31333 has 6 MA's), (42, 31342), (65, 31429), (69, 31435), (77, 31447), (85, 31462), (106, 31504), (108, 31507), (137, 31570), (183, 31708), (197, 31747), (202, 31765), (217, 31807), (218, 31810), (239, 31909), (255, 31984), (261, 32011), (262, 32014), (268, 32035), (272, 32047), (327, 32209), (329, 32218), (331, 32224), (340, 32266), (341, 32269), (357, 32347), (366, 32380), (377, 32413), (384, 32431), (396, 32488), (408, 32557), (415, 32593), (456, 32758), (459, 32773), (473, 32839), (479, 32872), (480, 32881), (500, 32968), (514, 33028), (518, 33052), (531, 33097), (532, 33100), (536, 33118), (556, 33199), (595, 33421), (597, 33430), (659, 33754),

Gene: Rita_18 Start: 17410, Stop: 19947, Start Num: 53

Candidate Starts for Rita_18:

(Start: 53 @17410 has 233 MA's), (101, 17500), (129, 17560), (130, 17569), (131, 17572), (139, 17590), (152, 17638), (166, 17683), (200, 17797), (201, 17800), (213, 17830), (216, 17842), (217, 17845), (233, 17923), (240, 17947), (253, 18013), (262, 18058), (271, 18088), (273, 18094), (274, 18112), (283, 18136), (285, 18145), (297, 18178), (299, 18184), (306, 18214), (322, 18253), (325, 18265), (328, 18274), (332, 18289), (333, 18292), (355, 18403), (356, 18406), (357, 18415), (358, 18421), (362, 18436), (364, 18439), (372, 18460), (382, 18490), (385, 18502), (391, 18535), (412, 18646), (413, 18649), (421, 18676), (423, 18682), (437, 18736), (438, 18739), (467, 18841), (469, 18853), (470, 18856), (481, 18922), (486, 18946), (489, 18967), (491, 18976), (506, 19036), (507, 19039), (515, 19075), (518, 19093), (523, 19105), (525, 19114), (533, 19141), (550, 19210), (553, 19228), (556, 19237), (558, 19249), (565, 19285), (570, 19315), (576, 19336), (583, 19360), (587, 19396), (595, 19450), (610, 19510), (617, 19552), (634, 19630), (646, 19687), (650, 19711), (658, 19765), (664, 19813), (675, 19855), (677, 19879), (678, 19882),

Gene: RitaG_18 Start: 17539, Stop: 20091, Start Num: 53

Candidate Starts for RitaG_18:

(Start: 53 @17539 has 233 MA's), (62, 17560), (69, 17581), (94, 17620), (129, 17689), (130, 17698), (131, 17701), (139, 17719), (149, 17752), (152, 17767), (167, 17815), (200, 17926), (201, 17929), (214, 17962), (216, 17971), (217, 17974), (233, 18052), (247, 18118), (254, 18151), (267, 18205), (271, 18217), (283, 18265), (285, 18274), (289, 18283), (300, 18316), (316, 18358), (321, 18373), (329, 18403), (331, 18409), (332, 18412), (333, 18415), (338, 18442), (342, 18463), (349, 18496), (357, 18538), (358, 18544), (359, 18547), (362, 18559), (364, 18562), (373, 18589), (382, 18613), (385, 18625), (391, 18658), (396, 18679), (409, 18751), (413, 18772), (443, 18883), (453, 18907), (454, 18910), (460, 18934), (467, 18964), (472, 18988), (478, 19024), (479, 19030), (480, 19039), (498, 19129), (502, 19153), (504, 19168), (513, 19210), (515, 19216), (527, 19261), (551, 19357), (553, 19372), (556, 19381), (561, 19405), (574, 19468), (595, 19594), (642, 19810), (650, 19855), (664, 19957), (681, 20035),

Gene: RiverMonster_26 Start: 22039, Stop: 24435, Start Num: 99

Candidate Starts for RiverMonster_26:

(Start: 99 @22039 has 127 MA's), (164, 22216), (170, 22237), (225, 22384), (261, 22558), (271, 22591), (277, 22627), (306, 22720), (328, 22780), (333, 22798), (359, 22930), (374, 22975), (404, 23107), (412, 23152), (433, 23212), (464, 23326), (467, 23347), (475, 23386), (478, 23407), (480, 23422), (513, 23572), (515, 23578), (518, 23596), (534, 23650), (553, 23734), (574, 23827), (628,

24073), (664, 24289), (678, 24373), (684, 24406),

Gene: Rockne_18 Start: 17383, Stop: 19920, Start Num: 53

Candidate Starts for Rockne_18:

(Start: 53 @17383 has 233 MA's), (101, 17473), (129, 17533), (130, 17542), (131, 17545), (139, 17563), (152, 17611), (167, 17659), (198, 17764), (200, 17770), (201, 17773), (216, 17815), (217, 17818), (240, 17920), (253, 17986), (262, 18031), (271, 18061), (273, 18067), (274, 18085), (283, 18109), (285, 18118), (297, 18151), (299, 18157), (316, 18208), (322, 18226), (325, 18238), (328, 18247), (332, 18262), (334, 18268), (355, 18376), (357, 18388), (358, 18394), (362, 18409), (364, 18412), (372, 18433), (382, 18463), (385, 18475), (391, 18508), (404, 18574), (412, 18619), (413, 18622), (421, 18649), (423, 18655), (437, 18709), (438, 18712), (449, 18739), (467, 18814), (469, 18826), (470, 18829), (481, 18895), (485, 18916), (486, 18919), (491, 18949), (502, 18991), (506, 19009), (507, 19012), (513, 19042), (518, 19066), (523, 19078), (525, 19087), (550, 19183), (553, 19201), (556, 19210), (558, 19222), (570, 19288), (574, 19297), (576, 19309), (587, 19369), (617, 19525), (646, 19660), (650, 19684), (658, 19738), (672, 19807), (677, 19852), (678, 19855),

Gene: RockyHorror_19 Start: 17258, Stop: 19795, Start Num: 53

Candidate Starts for RockyHorror_19:

(Start: 53 @17258 has 233 MA's), (62, 17279), (Start: 72 @17300 has 1 MA's), (90, 17339), (129, 17408), (130, 17417), (131, 17420), (139, 17438), (152, 17486), (198, 17639), (201, 17648), (217, 17693), (239, 17792), (240, 17795), (253, 17861), (271, 17936), (273, 17942), (274, 17960), (283, 17984), (284, 17990), (285, 17993), (297, 18026), (299, 18032), (306, 18062), (316, 18083), (325, 18113), (328, 18122), (332, 18137), (333, 18140), (355, 18251), (356, 18254), (357, 18263), (358, 18269), (362, 18284), (364, 18287), (372, 18308), (382, 18338), (385, 18350), (391, 18383), (412, 18494), (413, 18497), (421, 18524), (423, 18530), (437, 18584), (438, 18587), (465, 18674), (467, 18689), (469, 18701), (470, 18704), (481, 18770), (486, 18794), (489, 18815), (491, 18824), (506, 18884), (507, 18887), (515, 18923), (518, 18941), (523, 18953), (525, 18962), (533, 18989), (549, 19046), (550, 19058), (553, 19076), (556, 19085), (558, 19097), (565, 19133), (570, 19163), (574, 19172), (576, 19184), (587, 19244), (595, 19298), (610, 19358), (617, 19400), (646, 19535), (650, 19559), (658, 19613), (664, 19661), (675, 19703), (677, 19727), (678, 19730),

Gene: Rosmarinus_27 Start: 20900, Stop: 23332, Start Num: 82

Candidate Starts for Rosmarinus_27:

(Start: 82 @20900 has 96 MA's), (125, 20999), (210, 21260), (217, 21281), (260, 21488), (270, 21521), (275, 21551), (301, 21623), (306, 21647), (355, 21845), (363, 21890), (366, 21902), (370, 21911), (385, 21962), (421, 22142), (426, 22157), (441, 22226), (445, 22238), (461, 22301), (470, 22343), (478, 22382), (479, 22388), (480, 22397), (484, 22418), (496, 22478), (525, 22595), (536, 22637), (555, 22709), (557, 22718), (562, 22739), (575, 22811), (580, 22832), (595, 22928), (628, 23075), (643, 23156), (665, 23303),

Gene: Royals2015_18 Start: 17417, Stop: 19948, Start Num: 53

Candidate Starts for Royals2015_18:

(Start: 53 @17417 has 233 MA's), (62, 17438), (101, 17507), (129, 17567), (130, 17576), (131, 17579), (139, 17597), (149, 17630), (152, 17645), (166, 17690), (200, 17804), (201, 17807), (205, 17819), (215, 17840), (216, 17849), (217, 17852), (233, 17930), (247, 17996), (254, 18029), (262, 18065), (269, 18089), (284, 18149), (285, 18152), (292, 18170), (312, 18233), (315, 18236), (322, 18254), (328, 18275), (333, 18293), (338, 18320), (342, 18341), (349, 18374), (358, 18422), (359, 18425), (362, 18437), (364, 18440), (372, 18461), (382, 18491), (385, 18503), (391, 18536), (404, 18602), (412, 18647), (413, 18650), (421, 18677), (423, 18683), (437, 18737), (438, 18740), (449, 18767), (467, 18842), (469, 18854), (470, 18857), (481, 18923), (486, 18947), (491, 18977), (502, 19019), (506, 19037), (507, 19040), (515, 19076), (518, 19094), (525, 19115), (533, 19142), (550, 19211), (553, 19229), (556, 19238), (558, 19250), (565, 19286), (576, 19337), (581, 19355), (587, 19397), (595, 19451), (617, 19553), (634, 19631), (646, 19688), (650, 19712), (658, 19766), (664, 19814),

(677, 19880), (678, 19883),

Gene: Ruby_18 Start: 17371, Stop: 19908, Start Num: 53

Candidate Starts for Ruby_18:

(Start: 53 @17371 has 233 MA's), (62, 17392), (Start: 72 @17413 has 1 MA's), (90, 17452), (129, 17521), (130, 17530), (131, 17533), (139, 17551), (149, 17584), (152, 17599), (198, 17752), (201, 17761), (217, 17806), (239, 17905), (240, 17908), (253, 17974), (271, 18049), (273, 18055), (283, 18097), (284, 18103), (285, 18106), (297, 18139), (299, 18145), (306, 18175), (316, 18196), (325, 18226), (328, 18235), (332, 18250), (333, 18253), (355, 18364), (356, 18367), (357, 18376), (358, 18382), (362, 18397), (364, 18400), (372, 18421), (382, 18451), (385, 18463), (391, 18496), (412, 18607), (413, 18610), (421, 18637), (423, 18643), (437, 18697), (438, 18700), (465, 18787), (467, 18802), (469, 18814), (470, 18817), (481, 18883), (486, 18907), (489, 18928), (491, 18937), (502, 18979), (506, 18997), (507, 19000), (513, 19030), (518, 19054), (523, 19066), (525, 19075), (550, 19171), (553, 19189), (556, 19198), (558, 19210), (565, 19246), (570, 19276), (574, 19285), (576, 19297), (587, 19357), (595, 19411), (610, 19471), (617, 19513), (646, 19648), (650, 19672), (658, 19726), (664, 19774), (675, 19816), (677, 19840), (678, 19843),

Gene: Ryadel_62 Start: 36906, Stop: 39416, Start Num: 63

Candidate Starts for Ryadel_62:

(Start: 63 @36906 has 33 MA's), (81, 36939), (111, 37008), (112, 37011), (121, 37035), (131, 37059), (141, 37083), (149, 37116), (206, 37323), (209, 37335), (210, 37338), (244, 37485), (247, 37515), (253, 37539), (262, 37569), (264, 37572), (271, 37599), (274, 37623), (284, 37653), (302, 37710), (322, 37770), (325, 37782), (332, 37806), (333, 37809), (340, 37851), (362, 37947), (364, 37950), (430, 38205), (467, 38349), (478, 38409), (488, 38481), (489, 38484), (512, 38580), (553, 38754), (556, 38763), (558, 38775), (579, 38868), (582, 38880), (595, 38970), (613, 39045), (633, 39090), (670, 39291), (676, 39345), (681, 39360),

Gene: SG4_18 Start: 17548, Stop: 20085, Start Num: 53

Candidate Starts for SG4_18:

(Start: 53 @17548 has 233 MA's), (62, 17569), (Start: 72 @17590 has 1 MA's), (89, 17626), (90, 17629), (129, 17698), (130, 17707), (131, 17710), (139, 17728), (149, 17761), (152, 17776), (167, 17824), (200, 17935), (201, 17938), (213, 17968), (216, 17980), (217, 17983), (233, 18061), (240, 18085), (253, 18151), (262, 18196), (271, 18226), (273, 18232), (274, 18250), (283, 18274), (285, 18283), (297, 18316), (299, 18322), (316, 18373), (322, 18391), (325, 18403), (328, 18412), (332, 18427), (333, 18430), (355, 18541), (356, 18544), (357, 18553), (358, 18559), (362, 18574), (364, 18577), (372, 18598), (382, 18628), (385, 18640), (391, 18673), (404, 18739), (412, 18784), (413, 18787), (421, 18814), (423, 18820), (437, 18874), (438, 18877), (467, 18979), (469, 18991), (470, 18994), (481, 19060), (486, 19084), (489, 19105), (491, 19114), (506, 19174), (507, 19177), (515, 19213), (518, 19231), (523, 19243), (525, 19252), (533, 19279), (550, 19348), (553, 19366), (556, 19375), (558, 19387), (565, 19423), (570, 19453), (576, 19474), (583, 19498), (587, 19534), (595, 19588), (610, 19648), (617, 19690), (646, 19825), (650, 19849), (658, 19903), (664, 19951), (677, 20017), (678, 20020),

Gene: Saal_18 Start: 17383, Stop: 19920, Start Num: 53

Candidate Starts for Saal_18:

(Start: 53 @17383 has 233 MA's), (62, 17404), (Start: 72 @17425 has 1 MA's), (90, 17464), (129, 17533), (130, 17542), (131, 17545), (139, 17563), (152, 17611), (198, 17764), (201, 17773), (217, 17818), (233, 17896), (240, 17920), (253, 17986), (262, 18031), (271, 18061), (273, 18067), (274, 18085), (283, 18109), (285, 18118), (297, 18151), (299, 18157), (306, 18187), (322, 18226), (328, 18247), (332, 18262), (333, 18265), (356, 18379), (357, 18388), (358, 18394), (364, 18412), (372, 18433), (382, 18463), (385, 18475), (391, 18508), (412, 18619), (413, 18622), (421, 18649), (423, 18655), (437, 18709), (438, 18712), (465, 18799), (467, 18814), (470, 18829), (486, 18919), (489, 18940), (491, 18949), (506, 19009), (507, 19012), (515, 19048), (518, 19066), (523, 19078), (525,

19087), (533, 19114), (550, 19183), (553, 19201), (556, 19210), (558, 19222), (565, 19258), (570, 19288), (576, 19309), (583, 19333), (587, 19369), (595, 19423), (617, 19525), (634, 19603), (646, 19660), (650, 19684), (658, 19738), (664, 19786), (675, 19828), (680, 19861), (681, 19864),

Gene: Sabbb_19 Start: 17625, Stop: 20168, Start Num: 53

Candidate Starts for Sabbb_19:

(Start: 53 @17625 has 233 MA's), (62, 17646), (69, 17667), (94, 17706), (129, 17775), (130, 17784), (131, 17787), (139, 17805), (152, 17853), (167, 17901), (200, 18012), (201, 18015), (214, 18048), (217, 18060), (233, 18138), (247, 18204), (254, 18237), (267, 18291), (271, 18303), (284, 18357), (285, 18360), (289, 18369), (300, 18402), (314, 18441), (316, 18444), (321, 18459), (322, 18462), (329, 18489), (331, 18495), (332, 18498), (333, 18501), (338, 18528), (341, 18546), (342, 18549), (357, 18624), (362, 18645), (364, 18648), (373, 18675), (382, 18699), (391, 18744), (392, 18747), (401, 18798), (413, 18861), (415, 18870), (422, 18894), (454, 18999), (455, 19002), (467, 19053), (468, 19059), (469, 19065), (470, 19068), (478, 19113), (480, 19128), (485, 19155), (489, 19179), (502, 19230), (506, 19248), (507, 19251), (508, 19263), (523, 19317), (553, 19440), (566, 19503), (581, 19566), (591, 19641), (637, 19842), (674, 20070), (680, 20109), (681, 20112),

Gene: Saints25_27 Start: 21945, Stop: 24341, Start Num: 99

Candidate Starts for Saints25_27:

(Start: 99 @21945 has 127 MA's), (164, 22122), (170, 22143), (225, 22290), (254, 22431), (261, 22464), (271, 22497), (277, 22533), (306, 22626), (328, 22686), (333, 22704), (359, 22836), (374, 22881), (404, 23013), (412, 23058), (433, 23118), (464, 23232), (467, 23253), (475, 23292), (478, 23313), (480, 23328), (513, 23478), (515, 23484), (518, 23502), (534, 23556), (553, 23640), (574, 23733), (628, 23979), (664, 24195), (678, 24279), (684, 24312),

Gene: SamuelLPlaqson_27 Start: 20840, Stop: 23272, Start Num: 82

Candidate Starts for SamuelLPlaqson_27:

(73, 20822), (Start: 82 @20840 has 96 MA's), (103, 20888), (125, 20939), (210, 21200), (217, 21221), (269, 21458), (270, 21461), (275, 21491), (276, 21494), (301, 21563), (306, 21587), (308, 21593), (310, 21599), (323, 21632), (355, 21785), (366, 21842), (370, 21851), (385, 21902), (421, 22082), (426, 22097), (441, 22166), (445, 22178), (454, 22214), (461, 22241), (470, 22283), (478, 22322), (479, 22328), (480, 22337), (484, 22358), (496, 22418), (506, 22451), (509, 22469), (525, 22535), (536, 22577), (555, 22649), (557, 22658), (562, 22679), (575, 22751), (595, 22868), (628, 23015), (643, 23096), (655, 23171), (665, 23243),

Gene: Sandalphon_19 Start: 17954, Stop: 20491, Start Num: 53

Candidate Starts for Sandalphon_19:

(47, 17942), (Start: 53 @17954 has 233 MA's), (62, 17975), (Start: 72 @17996 has 1 MA's), (90, 18035), (129, 18104), (130, 18113), (131, 18116), (149, 18167), (152, 18182), (167, 18230), (200, 18341), (201, 18344), (213, 18374), (216, 18386), (217, 18389), (233, 18467), (240, 18491), (253, 18557), (262, 18602), (271, 18632), (273, 18638), (274, 18656), (283, 18680), (285, 18689), (297, 18722), (299, 18728), (306, 18758), (322, 18797), (325, 18809), (328, 18818), (332, 18833), (333, 18836), (355, 18947), (356, 18950), (357, 18959), (358, 18965), (362, 18980), (364, 18983), (372, 19004), (382, 19034), (385, 19046), (391, 19079), (412, 19190), (413, 19193), (421, 19220), (423, 19226), (437, 19280), (438, 19283), (467, 19385), (469, 19397), (470, 19400), (481, 19466), (486, 19490), (489, 19511), (491, 19520), (506, 19580), (507, 19583), (515, 19619), (518, 19637), (523, 19649), (525, 19658), (533, 19685), (550, 19754), (553, 19772), (556, 19781), (558, 19793), (565, 19829), (570, 19859), (576, 19880), (583, 19904), (587, 19940), (595, 19994), (610, 20054), (617, 20096), (634, 20174), (646, 20231), (650, 20255), (658, 20309), (664, 20357), (675, 20399), (677, 20423), (678, 20426),

Gene: Sassafra_18 Start: 17532, Stop: 20069, Start Num: 53

Candidate Starts for Sassafra_18:

(Start: 53 @17532 has 233 MA's), (62, 17553), (Start: 72 @17574 has 1 MA's), (90, 17613), (129, 17682), (130, 17691), (131, 17694), (139, 17712), (152, 17760), (167, 17808), (200, 17919), (201, 17922), (217, 17967), (233, 18045), (240, 18069), (253, 18135), (271, 18210), (273, 18216), (274, 18234), (283, 18258), (285, 18267), (297, 18300), (299, 18306), (306, 18336), (316, 18357), (325, 18387), (328, 18396), (350, 18504), (353, 18516), (355, 18525), (356, 18528), (358, 18543), (362, 18558), (364, 18561), (372, 18582), (385, 18624), (391, 18657), (412, 18768), (413, 18771), (421, 18798), (423, 18804), (437, 18858), (438, 18861), (449, 18888), (467, 18963), (469, 18975), (470, 18978), (481, 19044), (485, 19065), (486, 19068), (489, 19089), (491, 19098), (502, 19140), (506, 19158), (507, 19161), (513, 19191), (518, 19215), (523, 19227), (525, 19236), (550, 19332), (553, 19350), (556, 19359), (558, 19371), (565, 19407), (570, 19437), (574, 19446), (576, 19458), (587, 19518), (595, 19572), (610, 19632), (617, 19674), (646, 19809), (650, 19833), (658, 19887), (664, 19935), (675, 19977), (677, 20001), (678, 20004),

Gene: Sassay_25 Start: 21788, Stop: 24184, Start Num: 99

Candidate Starts for Sassay_25:

(Start: 99 @21788 has 127 MA's), (164, 21965), (170, 21986), (225, 22133), (254, 22274), (261, 22307), (271, 22340), (277, 22376), (306, 22469), (328, 22529), (333, 22547), (359, 22679), (374, 22724), (404, 22856), (412, 22901), (433, 22961), (464, 23075), (467, 23096), (475, 23135), (478, 23156), (480, 23171), (513, 23321), (515, 23327), (518, 23345), (534, 23399), (553, 23483), (574, 23576), (628, 23822), (664, 24038), (678, 24122), (684, 24155),

Gene: SassyB_18 Start: 17445, Stop: 19982, Start Num: 53

Candidate Starts for SassyB_18:

(47, 17433), (Start: 53 @17445 has 233 MA's), (62, 17466), (Start: 72 @17487 has 1 MA's), (90, 17526), (129, 17595), (130, 17604), (131, 17607), (139, 17625), (149, 17658), (152, 17673), (200, 17832), (201, 17835), (217, 17880), (233, 17958), (240, 17982), (253, 18048), (271, 18123), (273, 18129), (274, 18147), (283, 18171), (284, 18177), (285, 18180), (297, 18213), (299, 18219), (306, 18249), (316, 18270), (325, 18300), (328, 18309), (345, 18390), (357, 18450), (358, 18456), (362, 18471), (364, 18474), (372, 18495), (385, 18537), (391, 18570), (392, 18573), (421, 18711), (423, 18717), (437, 18771), (438, 18774), (449, 18801), (467, 18876), (469, 18888), (470, 18891), (481, 18957), (486, 18981), (489, 19002), (491, 19011), (506, 19071), (507, 19074), (515, 19110), (518, 19128), (525, 19149), (550, 19245), (553, 19263), (556, 19272), (558, 19284), (565, 19320), (570, 19350), (587, 19431), (595, 19485), (617, 19587), (646, 19722), (650, 19746), (658, 19800), (664, 19848), (675, 19890), (677, 19914), (678, 19917),

Gene: Scarlett_26 Start: 20115, Stop: 22574, Start Num: 82

Candidate Starts for Scarlett_26:

(Start: 82 @20115 has 96 MA's), (103, 20163), (147, 20286), (164, 20343), (166, 20355), (200, 20448), (208, 20472), (223, 20523), (256, 20685), (284, 20796), (295, 20835), (301, 20859), (337, 20982), (350, 21054), (368, 21141), (389, 21222), (409, 21324), (421, 21378), (436, 21438), (456, 21516), (458, 21528), (461, 21537), (470, 21579), (478, 21624), (480, 21639), (499, 21726), (505, 21750), (514, 21789), (520, 21822), (536, 21879), (562, 21990), (565, 22014), (569, 22035), (581, 22086), (602, 22215), (629, 22320), (665, 22545),

Gene: SchoolBus_58 Start: 36090, Stop: 38600, Start Num: 63

Candidate Starts for SchoolBus_58:

(Start: 63 @36090 has 33 MA's), (81, 36123), (111, 36192), (112, 36195), (121, 36219), (131, 36243), (141, 36267), (149, 36300), (206, 36507), (209, 36519), (210, 36522), (244, 36669), (247, 36699), (253, 36723), (262, 36753), (264, 36756), (271, 36783), (274, 36807), (284, 36837), (302, 36894), (307, 36918), (322, 36954), (325, 36966), (332, 36990), (333, 36993), (340, 37035), (362, 37131), (364, 37134), (430, 37389), (467, 37533), (478, 37593), (488, 37665), (489, 37668), (512, 37764), (553, 37938), (558, 37959), (579, 38052), (582, 38064), (595, 38154), (613, 38229), (633, 38274), (670, 38475), (676, 38529), (681, 38544),

Gene: Schuy_59 Start: 35881, Stop: 38391, Start Num: 63

Candidate Starts for Schuy_59:

(Start: 63 @35881 has 33 MA's), (81, 35914), (111, 35983), (112, 35986), (121, 36010), (131, 36034), (141, 36058), (149, 36091), (206, 36298), (209, 36310), (210, 36313), (244, 36460), (247, 36490), (253, 36514), (262, 36544), (264, 36547), (271, 36574), (274, 36598), (284, 36628), (302, 36685), (307, 36709), (322, 36745), (325, 36757), (332, 36781), (333, 36784), (340, 36826), (362, 36922), (364, 36925), (430, 37180), (467, 37324), (478, 37384), (488, 37456), (489, 37459), (512, 37555), (553, 37729), (558, 37750), (579, 37843), (582, 37855), (595, 37945), (613, 38020), (633, 38065), (670, 38266), (676, 38320), (681, 38335),

Gene: Scottish_19 Start: 18701, Stop: 21238, Start Num: 53

Candidate Starts for Scottish_19:

(47, 18689), (Start: 53 @18701 has 233 MA's), (62, 18722), (Start: 72 @18743 has 1 MA's), (90, 18782), (129, 18851), (130, 18860), (131, 18863), (139, 18881), (152, 18929), (167, 18977), (200, 19088), (201, 19091), (217, 19136), (233, 19214), (240, 19238), (253, 19304), (262, 19349), (271, 19379), (273, 19385), (274, 19403), (283, 19427), (285, 19436), (297, 19469), (299, 19475), (306, 19505), (322, 19544), (325, 19556), (328, 19565), (332, 19580), (333, 19583), (355, 19694), (356, 19697), (357, 19706), (358, 19712), (362, 19727), (364, 19730), (372, 19751), (382, 19781), (385, 19793), (391, 19826), (412, 19937), (413, 19940), (421, 19967), (423, 19973), (437, 20027), (438, 20030), (467, 20132), (469, 20144), (470, 20147), (481, 20213), (486, 20237), (489, 20258), (491, 20267), (506, 20327), (507, 20330), (515, 20366), (518, 20384), (525, 20405), (533, 20432), (550, 20501), (553, 20519), (556, 20528), (558, 20540), (565, 20576), (576, 20627), (581, 20645), (587, 20687), (595, 20741), (617, 20843), (646, 20978), (650, 21002), (658, 21056), (672, 21125), (677, 21170), (678, 21173),

Gene: Seabastian_18 Start: 17634, Stop: 20171, Start Num: 53

Candidate Starts for Seabastian_18:

(Start: 53 @17634 has 233 MA's), (62, 17655), (Start: 72 @17676 has 1 MA's), (90, 17715), (129, 17784), (130, 17793), (131, 17796), (139, 17814), (152, 17862), (200, 18021), (201, 18024), (216, 18066), (217, 18069), (233, 18147), (239, 18168), (240, 18171), (253, 18237), (254, 18246), (262, 18282), (271, 18312), (273, 18318), (283, 18360), (284, 18366), (285, 18369), (297, 18402), (299, 18408), (306, 18438), (316, 18459), (325, 18489), (328, 18498), (350, 18606), (353, 18618), (355, 18627), (356, 18630), (357, 18639), (358, 18645), (362, 18660), (364, 18663), (372, 18684), (385, 18726), (391, 18759), (421, 18900), (423, 18906), (437, 18960), (438, 18963), (449, 18990), (467, 19065), (469, 19077), (470, 19080), (481, 19146), (485, 19167), (486, 19170), (489, 19191), (502, 19242), (506, 19260), (507, 19263), (513, 19293), (518, 19317), (523, 19329), (550, 19434), (553, 19452), (556, 19461), (558, 19473), (565, 19509), (570, 19539), (576, 19560), (583, 19584), (587, 19620), (610, 19734), (617, 19776), (634, 19854), (646, 19911), (650, 19935), (658, 19989), (664, 20037), (675, 20079), (677, 20103), (678, 20106),

Gene: Seagreen_19 Start: 17241, Stop: 19778, Start Num: 53

Candidate Starts for Seagreen_19:

(47, 17229), (Start: 53 @17241 has 233 MA's), (62, 17262), (Start: 72 @17283 has 1 MA's), (90, 17322), (129, 17391), (130, 17400), (131, 17403), (139, 17421), (149, 17454), (152, 17469), (167, 17517), (198, 17622), (200, 17628), (201, 17631), (216, 17673), (217, 17676), (233, 17754), (240, 17778), (253, 17844), (262, 17889), (271, 17919), (273, 17925), (274, 17943), (283, 17967), (285, 17976), (297, 18009), (299, 18015), (306, 18045), (322, 18084), (325, 18096), (328, 18105), (332, 18120), (333, 18123), (355, 18234), (356, 18237), (357, 18246), (358, 18252), (362, 18267), (364, 18270), (372, 18291), (382, 18321), (385, 18333), (391, 18366), (412, 18477), (413, 18480), (421, 18507), (423, 18513), (437, 18567), (438, 18570), (467, 18672), (469, 18684), (470, 18687), (481, 18753), (486, 18777), (489, 18798), (491, 18807), (506, 18867), (507, 18870), (515, 18906), (518, 18924), (523, 18936), (525, 18945), (533, 18972), (550, 19041), (553, 19059), (556, 19068), (558,

19080), (565, 19116), (570, 19146), (576, 19167), (583, 19191), (587, 19227), (595, 19281), (610, 19341), (617, 19383), (634, 19461), (646, 19518), (650, 19542), (658, 19596), (664, 19644), (675, 19686), (677, 19710), (678, 19713),

Gene: Shaboozey_30 Start: 25923, Stop: 28418, Start Num: 53

Candidate Starts for Shaboozey_30:

(Start: 53 @25923 has 233 MA's), (139, 26118), (149, 26154), (152, 26169), (186, 26256), (191, 26271), (201, 26307), (203, 26313), (217, 26346), (220, 26358), (259, 26529), (262, 26538), (271, 26562), (284, 26616), (297, 26652), (299, 26658), (306, 26688), (319, 26718), (325, 26739), (328, 26748), (332, 26763), (346, 26832), (364, 26913), (367, 26922), (374, 26943), (375, 26946), (385, 26976), (392, 27012), (401, 27063), (402, 27072), (404, 27075), (409, 27102), (411, 27111), (415, 27132), (437, 27210), (438, 27213), (460, 27285), (468, 27321), (469, 27327), (477, 27369), (478, 27375), (485, 27417), (486, 27420), (489, 27441), (490, 27447), (491, 27450), (501, 27480), (532, 27621), (534, 27630), (536, 27639), (543, 27672), (550, 27696), (551, 27699), (553, 27714), (558, 27735), (565, 27771), (566, 27777), (568, 27783), (571, 27804), (579, 27831), (600, 27966), (615, 28038), (619, 28044), (628, 28062), (646, 28161), (664, 28278), (679, 28359), (681, 28362), (684, 28389),

Gene: ShamWow_26 Start: 22284, Stop: 24680, Start Num: 99

Candidate Starts for ShamWow_26:

(Start: 99 @22284 has 127 MA's), (164, 22461), (170, 22482), (225, 22629), (254, 22770), (261, 22803), (271, 22836), (277, 22872), (306, 22965), (328, 23025), (333, 23043), (367, 23199), (374, 23220), (401, 23340), (404, 23352), (412, 23397), (467, 23592), (470, 23607), (478, 23652), (480, 23667), (515, 23823), (518, 23841), (521, 23850), (553, 23979), (554, 23982), (594, 24192), (597, 24204), (628, 24318), (664, 24534), (678, 24618), (682, 24642), (684, 24651),

Gene: Shauna1_18 Start: 17450, Stop: 19927, Start Num: 53

Candidate Starts for Shauna1_18:

(48, 17438), (Start: 53 @17450 has 233 MA's), (62, 17471), (Start: 72 @17492 has 1 MA's), (96, 17531), (129, 17600), (130, 17609), (131, 17612), (139, 17630), (149, 17663), (152, 17678), (186, 17765), (191, 17780), (201, 17816), (203, 17822), (217, 17855), (220, 17867), (259, 18038), (262, 18047), (271, 18071), (284, 18125), (297, 18161), (299, 18167), (306, 18197), (319, 18227), (325, 18248), (328, 18257), (346, 18341), (358, 18404), (364, 18422), (367, 18431), (374, 18452), (375, 18455), (382, 18473), (385, 18485), (390, 18512), (392, 18521), (401, 18572), (402, 18581), (404, 18584), (409, 18611), (411, 18620), (415, 18641), (437, 18719), (438, 18722), (468, 18830), (469, 18836), (478, 18884), (485, 18926), (486, 18929), (489, 18950), (490, 18956), (491, 18959), (501, 18989), (532, 19130), (536, 19148), (543, 19181), (550, 19205), (551, 19208), (553, 19223), (558, 19244), (565, 19280), (566, 19286), (571, 19313), (579, 19340), (600, 19475), (612, 19523), (615, 19547), (628, 19571), (646, 19670), (649, 19691), (652, 19709), (664, 19787), (672, 19808), (681, 19871), (682, 19889), (685, 19907),

Gene: ShereKhan_28 Start: 23267, Stop: 25663, Start Num: 99

Candidate Starts for ShereKhan_28:

(Start: 99 @23267 has 127 MA's), (164, 23444), (170, 23465), (225, 23612), (254, 23753), (261, 23786), (271, 23819), (277, 23855), (306, 23948), (328, 24008), (333, 24026), (359, 24158), (374, 24203), (404, 24335), (412, 24380), (433, 24440), (464, 24554), (467, 24575), (475, 24614), (478, 24635), (480, 24650), (513, 24800), (515, 24806), (518, 24824), (534, 24878), (553, 24962), (574, 25055), (628, 25301), (664, 25517), (678, 25601), (684, 25634),

Gene: ShiLan_18 Start: 17405, Stop: 19957, Start Num: 53

Candidate Starts for ShiLan_18:

(Start: 53 @17405 has 233 MA's), (94, 17486), (129, 17555), (130, 17564), (131, 17567), (139, 17585), (152, 17633), (166, 17678), (200, 17792), (201, 17795), (205, 17807), (214, 17828), (216, 17837),

(217, 17840), (228, 17888), (233, 17918), (247, 17984), (254, 18017), (262, 18053), (269, 18077),
(284, 18137), (285, 18140), (292, 18158), (314, 18221), (316, 18224), (322, 18242), (328, 18263),
(333, 18281), (338, 18308), (342, 18329), (349, 18362), (357, 18404), (358, 18410), (359, 18413),
(364, 18428), (373, 18455), (374, 18458), (382, 18479), (385, 18491), (391, 18524), (409, 18617),
(437, 18725), (443, 18749), (449, 18755), (453, 18773), (454, 18776), (460, 18800), (467, 18830),
(472, 18854), (478, 18890), (479, 18896), (480, 18905), (485, 18932), (498, 18995), (502, 19019),
(504, 19034), (513, 19076), (527, 19127), (551, 19223), (553, 19238), (556, 19247), (561, 19271),
(574, 19334), (583, 19370), (642, 19676), (650, 19721), (664, 19823),

Gene: ShiaSurprise_27 Start: 20912, Stop: 23344, Start Num: 82

Candidate Starts for ShiaSurprise_27:

(Start: 82 @20912 has 96 MA's), (125, 21011), (210, 21272), (217, 21293), (260, 21500), (270, 21533),
(275, 21563), (301, 21635), (306, 21659), (355, 21857), (363, 21902), (366, 21914), (370, 21923),
(385, 21974), (421, 22154), (426, 22169), (441, 22238), (445, 22250), (461, 22313), (470, 22355),
(478, 22394), (479, 22400), (480, 22409), (484, 22430), (496, 22490), (525, 22607), (536, 22649),
(555, 22721), (557, 22730), (562, 22751), (575, 22823), (580, 22844), (595, 22940), (628, 23087),
(643, 23168), (665, 23315),

Gene: Shida_58 Start: 35788, Stop: 38298, Start Num: 63

Candidate Starts for Shida_58:

(Start: 63 @35788 has 33 MA's), (81, 35821), (111, 35890), (112, 35893), (121, 35917), (131, 35941),
(141, 35965), (149, 35998), (206, 36205), (209, 36217), (210, 36220), (244, 36367), (247, 36397),
(253, 36421), (262, 36451), (264, 36454), (271, 36481), (274, 36505), (284, 36535), (302, 36592),
(322, 36652), (325, 36664), (332, 36688), (333, 36691), (340, 36733), (362, 36829), (364, 36832),
(430, 37087), (467, 37231), (478, 37291), (488, 37363), (489, 37366), (512, 37462), (553, 37636),
(558, 37657), (579, 37750), (582, 37762), (595, 37852), (613, 37927), (633, 37972), (670, 38173),
(676, 38227), (681, 38242),

Gene: Shipwreck_20 Start: 18739, Stop: 21243, Start Num: 63

Candidate Starts for Shipwreck_20:

(Start: 63 @18739 has 33 MA's), (131, 18892), (239, 19297), (244, 19312), (247, 19342), (248, 19348),
(253, 19366), (283, 19474), (299, 19525), (333, 19636), (334, 19639), (340, 19678), (349, 19711),
(364, 19777), (385, 19837), (390, 19864), (391, 19870), (467, 20176), (478, 20236), (484, 20284),
(485, 20287), (488, 20308), (489, 20311), (553, 20572), (581, 20695), (582, 20698), (595, 20788),
(608, 20845), (613, 20866), (637, 20926), (673, 21127), (676, 21169),

Gene: ShowerHandel_18 Start: 17406, Stop: 19958, Start Num: 53

Candidate Starts for ShowerHandel_18:

(Start: 53 @17406 has 233 MA's), (94, 17487), (129, 17556), (130, 17565), (131, 17568), (139, 17586),
(152, 17634), (166, 17679), (200, 17793), (201, 17796), (205, 17808), (214, 17829), (216, 17838),
(217, 17841), (228, 17889), (233, 17919), (247, 17985), (254, 18018), (262, 18054), (269, 18078),
(284, 18138), (285, 18141), (292, 18159), (314, 18222), (316, 18225), (322, 18243), (328, 18264),
(333, 18282), (338, 18309), (342, 18330), (349, 18363), (357, 18405), (358, 18411), (359, 18414),
(364, 18429), (373, 18456), (374, 18459), (382, 18480), (385, 18492), (391, 18525), (409, 18618),
(437, 18726), (443, 18750), (449, 18756), (453, 18774), (454, 18777), (460, 18801), (467, 18831),
(472, 18855), (478, 18891), (479, 18897), (480, 18906), (485, 18933), (498, 18996), (502, 19020),
(504, 19035), (513, 19077), (527, 19128), (551, 19224), (553, 19239), (556, 19248), (561, 19272),
(574, 19335), (583, 19371), (642, 19677), (650, 19722), (664, 19824),

Gene: ShroomBoi_18 Start: 17435, Stop: 19912, Start Num: 53

Candidate Starts for ShroomBoi_18:

(Start: 53 @17435 has 233 MA's), (62, 17456), (Start: 72 @17477 has 1 MA's), (96, 17516), (129,
17585), (130, 17594), (131, 17597), (139, 17615), (152, 17663), (186, 17750), (191, 17765), (201,

17801), (203, 17807), (217, 17840), (220, 17852), (259, 18023), (262, 18032), (271, 18056), (284, 18110), (297, 18146), (299, 18152), (306, 18182), (319, 18212), (325, 18233), (328, 18242), (332, 18257), (346, 18326), (364, 18407), (367, 18416), (375, 18440), (385, 18470), (392, 18506), (401, 18557), (402, 18566), (404, 18569), (409, 18596), (411, 18605), (415, 18626), (437, 18704), (468, 18815), (469, 18821), (478, 18869), (485, 18911), (486, 18914), (489, 18935), (490, 18941), (491, 18944), (501, 18974), (532, 19115), (536, 19133), (543, 19166), (550, 19190), (551, 19193), (553, 19208), (558, 19229), (565, 19265), (566, 19271), (568, 19277), (571, 19298), (579, 19325), (600, 19460), (612, 19508), (615, 19532), (619, 19538), (628, 19556), (646, 19655), (664, 19772), (679, 19853), (681, 19856), (684, 19883),

Gene: SiSi_18 Start: 17389, Stop: 19926, Start Num: 53

Candidate Starts for SiSi_18:

(47, 17377), (Start: 53 @17389 has 233 MA's), (62, 17410), (Start: 72 @17431 has 1 MA's), (90, 17470), (129, 17539), (130, 17548), (131, 17551), (139, 17569), (149, 17602), (152, 17617), (167, 17665), (200, 17776), (201, 17779), (213, 17809), (216, 17821), (217, 17824), (233, 17902), (240, 17926), (253, 17992), (262, 18037), (271, 18067), (273, 18073), (274, 18091), (283, 18115), (285, 18124), (297, 18157), (299, 18163), (306, 18193), (322, 18232), (325, 18244), (328, 18253), (332, 18268), (333, 18271), (355, 18382), (357, 18394), (358, 18400), (362, 18415), (364, 18418), (372, 18439), (382, 18469), (385, 18481), (391, 18514), (404, 18580), (412, 18625), (413, 18628), (421, 18655), (423, 18661), (437, 18715), (438, 18718), (449, 18745), (467, 18820), (469, 18832), (470, 18835), (481, 18901), (486, 18925), (491, 18955), (502, 18997), (506, 19015), (507, 19018), (515, 19054), (518, 19072), (525, 19093), (533, 19120), (550, 19189), (553, 19207), (556, 19216), (558, 19228), (565, 19264), (576, 19315), (581, 19333), (587, 19375), (595, 19429), (610, 19489), (617, 19531), (634, 19609), (646, 19666), (650, 19690), (658, 19744), (664, 19792), (677, 19858), (678, 19861),

Gene: SilverChicken_24 Start: 17093, Stop: 19555, Start Num: 84

Candidate Starts for SilverChicken_24:

(80, 17084), (84, 17093), (119, 17153), (136, 17189), (150, 17234), (153, 17246), (168, 17288), (180, 17315), (185, 17333), (188, 17345), (198, 17378), (199, 17381), (217, 17438), (219, 17447), (227, 17483), (239, 17537), (247, 17582), (253, 17606), (254, 17615), (259, 17642), (285, 17738), (292, 17756), (297, 17771), (299, 17777), (303, 17795), (314, 17819), (329, 17867), (332, 17876), (333, 17879), (342, 17927), (345, 17942), (352, 17978), (353, 17981), (358, 18008), (359, 18011), (362, 18023), (372, 18047), (375, 18059), (382, 18077), (385, 18089), (391, 18122), (396, 18143), (409, 18215), (413, 18236), (443, 18347), (449, 18353), (453, 18371), (454, 18374), (460, 18398), (467, 18428), (472, 18452), (478, 18488), (479, 18494), (480, 18503), (485, 18530), (498, 18593), (502, 18617), (504, 18632), (513, 18674), (515, 18680), (527, 18725), (551, 18821), (553, 18836), (556, 18845), (561, 18869), (574, 18932), (583, 18968), (595, 19058), (642, 19274), (649, 19316), (650, 19319), (664, 19421),

Gene: Simpliphy_27 Start: 22029, Stop: 24425, Start Num: 99

Candidate Starts for Simpliphy_27:

(Start: 99 @22029 has 127 MA's), (164, 22206), (170, 22227), (225, 22374), (261, 22548), (271, 22581), (277, 22617), (306, 22710), (328, 22770), (333, 22788), (359, 22920), (374, 22965), (404, 23097), (412, 23142), (433, 23202), (464, 23316), (467, 23337), (475, 23376), (478, 23397), (480, 23412), (513, 23562), (515, 23568), (518, 23586), (534, 23640), (553, 23724), (574, 23817), (628, 24063), (664, 24279), (678, 24363), (684, 24396),

Gene: SimranZ1_19 Start: 17257, Stop: 19794, Start Num: 53

Candidate Starts for SimranZ1_19:

(Start: 53 @17257 has 233 MA's), (62, 17278), (Start: 72 @17299 has 1 MA's), (90, 17338), (129, 17407), (130, 17416), (131, 17419), (139, 17437), (152, 17485), (200, 17644), (201, 17647), (213, 17677), (216, 17689), (217, 17692), (233, 17770), (240, 17794), (253, 17860), (271, 17935), (273,

17941), (274, 17959), (283, 17983), (285, 17992), (297, 18025), (299, 18031), (306, 18061), (316, 18082), (322, 18100), (325, 18112), (328, 18121), (336, 18154), (355, 18250), (356, 18253), (357, 18262), (358, 18268), (362, 18283), (364, 18286), (372, 18307), (385, 18349), (391, 18382), (404, 18448), (412, 18493), (413, 18496), (421, 18523), (423, 18529), (437, 18583), (438, 18586), (449, 18613), (454, 18634), (467, 18688), (469, 18700), (470, 18703), (481, 18769), (486, 18793), (489, 18814), (491, 18823), (502, 18865), (506, 18883), (507, 18886), (515, 18922), (518, 18940), (523, 18952), (525, 18961), (533, 18988), (549, 19045), (550, 19057), (553, 19075), (556, 19084), (558, 19096), (565, 19132), (570, 19162), (576, 19183), (583, 19207), (587, 19243), (617, 19399), (646, 19534), (650, 19558), (658, 19612), (664, 19660), (677, 19726), (678, 19729),

Gene: SirDuracell_25 Start: 20950, Stop: 23346, Start Num: 99

Candidate Starts for SirDuracell_25:

(Start: 99 @20950 has 127 MA's), (164, 21127), (170, 21148), (225, 21295), (254, 21436), (261, 21469), (271, 21502), (277, 21538), (306, 21631), (328, 21691), (333, 21709), (349, 21790), (404, 22018), (412, 22063), (467, 22258), (468, 22264), (470, 22273), (478, 22318), (480, 22333), (515, 22489), (518, 22507), (521, 22516), (553, 22645), (554, 22648), (594, 22858), (597, 22870), (628, 22984), (664, 23200), (678, 23284), (682, 23308), (684, 23317),

Gene: SirPhilip_26 Start: 19755, Stop: 22217, Start Num: 82

Candidate Starts for SirPhilip_26:

(Start: 82 @19755 has 96 MA's), (93, 19782), (103, 19803), (147, 19926), (153, 19944), (165, 19986), (166, 19995), (200, 20088), (208, 20112), (306, 20523), (368, 20784), (379, 20823), (388, 20862), (389, 20865), (421, 21024), (426, 21039), (444, 21117), (447, 21123), (461, 21183), (470, 21225), (478, 21270), (479, 21276), (480, 21285), (483, 21306), (506, 21402), (510, 21423), (520, 21471), (531, 21507), (539, 21546), (555, 21597), (562, 21627), (575, 21699), (592, 21801), (595, 21816), (616, 21924), (626, 21954), (659, 22146), (667, 22191),

Gene: Slim_19 Start: 17189, Stop: 19726, Start Num: 53

Candidate Starts for Slim_19:

(Start: 53 @17189 has 233 MA's), (62, 17210), (Start: 72 @17231 has 1 MA's), (90, 17270), (129, 17339), (130, 17348), (131, 17351), (139, 17369), (152, 17417), (198, 17570), (201, 17579), (217, 17624), (239, 17723), (240, 17726), (253, 17792), (271, 17867), (273, 17873), (274, 17891), (283, 17915), (284, 17921), (285, 17924), (297, 17957), (299, 17963), (306, 17993), (316, 18014), (325, 18044), (328, 18053), (332, 18068), (333, 18071), (355, 18182), (356, 18185), (357, 18194), (358, 18200), (362, 18215), (364, 18218), (372, 18239), (382, 18269), (385, 18281), (391, 18314), (412, 18425), (413, 18428), (421, 18455), (423, 18461), (437, 18515), (438, 18518), (467, 18620), (469, 18632), (470, 18635), (481, 18701), (486, 18725), (489, 18746), (491, 18755), (506, 18815), (507, 18818), (515, 18854), (518, 18872), (523, 18884), (525, 18893), (533, 18920), (549, 18977), (550, 18989), (553, 19007), (556, 19016), (558, 19028), (565, 19064), (570, 19094), (574, 19103), (576, 19115), (587, 19175), (595, 19229), (610, 19289), (617, 19331), (646, 19466), (650, 19490), (658, 19544), (664, 19592), (675, 19634), (677, 19658), (678, 19661),

Gene: Slimphazie_27 Start: 20879, Stop: 23311, Start Num: 82

Candidate Starts for Slimphazie_27:

(Start: 82 @20879 has 96 MA's), (125, 20978), (210, 21239), (217, 21260), (260, 21467), (270, 21500), (275, 21530), (301, 21602), (306, 21626), (323, 21671), (355, 21824), (363, 21869), (366, 21881), (370, 21890), (385, 21941), (421, 22121), (426, 22136), (441, 22205), (445, 22217), (470, 22322), (478, 22361), (479, 22367), (480, 22376), (496, 22457), (508, 22505), (527, 22580), (536, 22616), (557, 22697), (562, 22718), (580, 22811), (595, 22907), (628, 23054), (634, 23096), (643, 23135), (655, 23210),

Gene: Smooch_61 Start: 37810, Stop: 40320, Start Num: 63

Candidate Starts for Smooch_61:

(Start: 63 @37810 has 33 MA's), (81, 37843), (111, 37912), (112, 37915), (121, 37939), (131, 37963), (141, 37987), (149, 38020), (206, 38227), (209, 38239), (210, 38242), (244, 38389), (247, 38419), (253, 38443), (262, 38473), (264, 38476), (271, 38503), (274, 38527), (284, 38557), (302, 38614), (322, 38674), (325, 38686), (332, 38710), (333, 38713), (340, 38755), (362, 38851), (364, 38854), (412, 39058), (430, 39109), (467, 39253), (478, 39313), (488, 39385), (489, 39388), (512, 39484), (553, 39658), (558, 39679), (579, 39772), (582, 39784), (595, 39874), (613, 39949), (633, 39994), (670, 40195), (676, 40249), (681, 40264),

Gene: SophKB_26 Start: 22283, Stop: 24679, Start Num: 99

Candidate Starts for SophKB_26:

(Start: 99 @22283 has 127 MA's), (164, 22460), (170, 22481), (225, 22628), (254, 22769), (261, 22802), (271, 22835), (277, 22871), (306, 22964), (328, 23024), (333, 23042), (359, 23174), (374, 23219), (404, 23351), (412, 23396), (433, 23456), (464, 23570), (467, 23591), (475, 23630), (478, 23651), (480, 23666), (513, 23816), (515, 23822), (518, 23840), (534, 23894), (553, 23978), (574, 24071), (628, 24317), (664, 24533), (678, 24617), (684, 24650),

Gene: Sotrice96_26 Start: 22239, Stop: 24635, Start Num: 99

Candidate Starts for Sotrice96_26:

(Start: 99 @22239 has 127 MA's), (164, 22416), (170, 22437), (225, 22584), (254, 22725), (261, 22758), (271, 22791), (277, 22827), (306, 22920), (328, 22980), (333, 22998), (349, 23079), (404, 23307), (412, 23352), (467, 23547), (468, 23553), (470, 23562), (478, 23607), (480, 23622), (515, 23778), (518, 23796), (521, 23805), (553, 23934), (554, 23937), (594, 24147), (597, 24159), (628, 24273), (664, 24489), (678, 24573), (682, 24597), (684, 24606),

Gene: Soul22_24 Start: 17091, Stop: 19640, Start Num: 39

Candidate Starts for Soul22_24:

(36, 17082), (Start: 39 @17091 has 7 MA's), (Start: 53 @17151 has 233 MA's), (67, 17187), (118, 17286), (167, 17427), (186, 17466), (191, 17481), (201, 17517), (203, 17523), (204, 17526), (215, 17544), (220, 17568), (227, 17592), (228, 17595), (259, 17739), (262, 17748), (271, 17772), (274, 17796), (283, 17820), (284, 17826), (292, 17847), (299, 17868), (306, 17898), (319, 17928), (325, 17949), (346, 18042), (349, 18057), (350, 18066), (355, 18087), (356, 18090), (367, 18132), (382, 18174), (383, 18177), (385, 18186), (390, 18213), (392, 18222), (399, 18261), (402, 18282), (404, 18285), (411, 18321), (415, 18342), (437, 18420), (438, 18423), (456, 18477), (469, 18537), (484, 18624), (486, 18630), (488, 18648), (489, 18651), (501, 18687), (511, 18741), (513, 18750), (532, 18828), (536, 18846), (545, 18882), (547, 18885), (550, 18903), (551, 18906), (553, 18921), (565, 18978), (568, 18990), (583, 19053), (587, 19086), (600, 19173), (612, 19221), (615, 19245), (623, 19272), (628, 19281), (633, 19320), (641, 19359), (646, 19383), (649, 19404), (664, 19500), (672, 19521), (681, 19584), (684, 19611), (685, 19620),

Gene: Sparkdehlily_18 Start: 17429, Stop: 19966, Start Num: 53

Candidate Starts for Sparkdehlily_18:

(Start: 53 @17429 has 233 MA's), (62, 17450), (Start: 72 @17471 has 1 MA's), (90, 17510), (129, 17579), (130, 17588), (131, 17591), (139, 17609), (152, 17657), (198, 17810), (201, 17819), (217, 17864), (233, 17942), (240, 17966), (253, 18032), (262, 18077), (271, 18107), (273, 18113), (274, 18131), (283, 18155), (285, 18164), (297, 18197), (299, 18203), (306, 18233), (322, 18272), (328, 18293), (332, 18308), (333, 18311), (356, 18425), (357, 18434), (358, 18440), (364, 18458), (372, 18479), (382, 18509), (385, 18521), (391, 18554), (412, 18665), (413, 18668), (421, 18695), (423, 18701), (437, 18755), (438, 18758), (465, 18845), (467, 18860), (470, 18875), (486, 18965), (489, 18986), (491, 18995), (506, 19055), (507, 19058), (515, 19094), (518, 19112), (523, 19124), (525, 19133), (533, 19160), (550, 19229), (553, 19247), (556, 19256), (558, 19268), (565, 19304), (570, 19334), (576, 19355), (583, 19379), (587, 19415), (595, 19469), (617, 19571), (634, 19649), (646, 19706), (650, 19730), (658, 19784), (664, 19832), (675, 19874), (680, 19907), (681, 19910),

Gene: Spartacus_19 Start: 17481, Stop: 20018, Start Num: 53

Candidate Starts for Spartacus_19:

(Start: 53 @17481 has 233 MA's), (101, 17571), (129, 17631), (130, 17640), (131, 17643), (139, 17661), (149, 17694), (152, 17709), (167, 17757), (200, 17868), (201, 17871), (213, 17901), (217, 17916), (233, 17994), (253, 18084), (262, 18129), (271, 18159), (273, 18165), (274, 18183), (283, 18207), (285, 18216), (297, 18249), (299, 18255), (306, 18285), (322, 18324), (325, 18336), (328, 18345), (332, 18360), (333, 18363), (355, 18474), (356, 18477), (357, 18486), (358, 18492), (362, 18507), (364, 18510), (372, 18531), (382, 18561), (385, 18573), (391, 18606), (412, 18717), (413, 18720), (421, 18747), (423, 18753), (437, 18807), (438, 18810), (465, 18897), (467, 18912), (469, 18924), (470, 18927), (481, 18993), (489, 19038), (491, 19047), (506, 19107), (507, 19110), (515, 19146), (518, 19164), (523, 19176), (525, 19185), (533, 19212), (550, 19281), (553, 19299), (556, 19308), (558, 19320), (565, 19356), (570, 19386), (576, 19407), (583, 19431), (587, 19467), (595, 19521), (610, 19581), (617, 19623), (634, 19701), (646, 19758), (650, 19782), (658, 19836), (664, 19884), (675, 19926), (677, 19950), (678, 19953),

Gene: Spikelee_19 Start: 17223, Stop: 19760, Start Num: 53

Candidate Starts for Spikelee_19:

(Start: 53 @17223 has 233 MA's), (62, 17244), (Start: 72 @17265 has 1 MA's), (90, 17304), (129, 17373), (130, 17382), (131, 17385), (139, 17403), (152, 17451), (198, 17604), (201, 17613), (217, 17658), (239, 17757), (240, 17760), (253, 17826), (271, 17901), (273, 17907), (274, 17925), (283, 17949), (284, 17955), (285, 17958), (297, 17991), (299, 17997), (306, 18027), (316, 18048), (325, 18078), (328, 18087), (332, 18102), (333, 18105), (355, 18216), (356, 18219), (357, 18228), (358, 18234), (362, 18249), (364, 18252), (372, 18273), (382, 18303), (385, 18315), (391, 18348), (412, 18459), (413, 18462), (421, 18489), (423, 18495), (437, 18549), (438, 18552), (465, 18639), (467, 18654), (469, 18666), (470, 18669), (481, 18735), (486, 18759), (489, 18780), (491, 18789), (506, 18849), (507, 18852), (515, 18888), (518, 18906), (523, 18918), (525, 18927), (533, 18954), (549, 19011), (550, 19023), (553, 19041), (556, 19050), (558, 19062), (565, 19098), (570, 19128), (574, 19137), (576, 19149), (587, 19209), (595, 19263), (610, 19323), (617, 19365), (646, 19500), (650, 19524), (658, 19578), (664, 19626), (675, 19668), (677, 19692), (678, 19695),

Gene: Spock_27 Start: 20912, Stop: 23344, Start Num: 82

Candidate Starts for Spock_27:

(Start: 82 @20912 has 96 MA's), (125, 21011), (210, 21272), (217, 21293), (260, 21500), (270, 21533), (275, 21563), (301, 21635), (306, 21659), (355, 21857), (363, 21902), (366, 21914), (370, 21923), (385, 21974), (421, 22154), (426, 22169), (441, 22238), (445, 22250), (461, 22313), (470, 22355), (478, 22394), (479, 22400), (480, 22409), (484, 22430), (496, 22490), (525, 22607), (536, 22649), (555, 22721), (557, 22730), (562, 22751), (575, 22823), (580, 22844), (595, 22940), (628, 23087), (643, 23168), (665, 23315),

Gene: Spoonbill_18 Start: 17404, Stop: 19956, Start Num: 53

Candidate Starts for Spoonbill_18:

(Start: 53 @17404 has 233 MA's), (94, 17485), (129, 17554), (130, 17563), (131, 17566), (139, 17584), (152, 17632), (166, 17677), (200, 17791), (201, 17794), (205, 17806), (214, 17827), (216, 17836), (217, 17839), (228, 17887), (233, 17917), (247, 17983), (254, 18016), (262, 18052), (269, 18076), (284, 18136), (285, 18139), (292, 18157), (314, 18220), (316, 18223), (322, 18241), (328, 18262), (333, 18280), (338, 18307), (342, 18328), (349, 18361), (357, 18403), (358, 18409), (359, 18412), (364, 18427), (373, 18454), (374, 18457), (382, 18478), (385, 18490), (391, 18523), (409, 18616), (437, 18724), (443, 18748), (449, 18754), (453, 18772), (454, 18775), (460, 18799), (467, 18829), (472, 18853), (478, 18889), (479, 18895), (480, 18904), (485, 18931), (498, 18994), (502, 19018), (504, 19033), (513, 19075), (527, 19126), (551, 19222), (553, 19237), (556, 19246), (561, 19270), (574, 19333), (583, 19369), (642, 19675), (650, 19720), (664, 19822),

Gene: Squint_35 Start: 27671, Stop: 30178, Start Num: 53

Candidate Starts for Squint_35:

(Start: 53 @27671 has 233 MA's), (139, 27866), (149, 27902), (152, 27917), (186, 28004), (191, 28019), (217, 28094), (220, 28106), (228, 28133), (250, 28238), (259, 28277), (262, 28286), (271, 28310), (273, 28316), (274, 28334), (281, 28352), (285, 28367), (289, 28376), (292, 28385), (297, 28400), (304, 28427), (306, 28436), (322, 28475), (325, 28487), (328, 28496), (346, 28580), (364, 28661), (374, 28691), (375, 28694), (385, 28724), (390, 28751), (392, 28760), (401, 28811), (402, 28820), (404, 28823), (411, 28859), (415, 28880), (429, 28916), (468, 29069), (478, 29123), (486, 29168), (488, 29186), (489, 29189), (501, 29228), (532, 29375), (534, 29384), (551, 29453), (553, 29468), (587, 29633), (600, 29720), (612, 29768), (628, 29819), (641, 29897), (679, 30119), (681, 30122), (684, 30149),

Gene: StAnnes_18 Start: 17447, Stop: 19984, Start Num: 53

Candidate Starts for StAnnes_18:

(47, 17435), (Start: 53 @17447 has 233 MA's), (62, 17468), (Start: 72 @17489 has 1 MA's), (90, 17528), (130, 17606), (131, 17609), (139, 17627), (149, 17660), (152, 17675), (167, 17723), (200, 17834), (201, 17837), (213, 17867), (216, 17879), (217, 17882), (233, 17960), (240, 17984), (253, 18050), (262, 18095), (271, 18125), (273, 18131), (274, 18149), (283, 18173), (285, 18182), (297, 18215), (299, 18221), (306, 18251), (325, 18302), (328, 18311), (332, 18326), (333, 18329), (355, 18440), (356, 18443), (357, 18452), (358, 18458), (362, 18473), (364, 18476), (372, 18497), (382, 18527), (385, 18539), (391, 18572), (412, 18683), (413, 18686), (421, 18713), (423, 18719), (437, 18773), (438, 18776), (465, 18863), (467, 18878), (469, 18890), (470, 18893), (481, 18959), (486, 18983), (489, 19004), (491, 19013), (506, 19073), (507, 19076), (515, 19112), (518, 19130), (523, 19142), (525, 19151), (533, 19178), (550, 19247), (553, 19265), (556, 19274), (558, 19286), (565, 19322), (570, 19352), (576, 19373), (583, 19397), (587, 19433), (595, 19487), (610, 19547), (617, 19589), (634, 19667), (646, 19724), (650, 19748), (658, 19802), (664, 19850), (675, 19892), (677, 19916), (678, 19919),

Gene: StAugustine_34 Start: 31877, Stop: 33781, Start Num: 235

Candidate Starts for StAugustine_34:

(Start: 235 @31877 has 2 MA's), (257, 31988), (263, 32006), (294, 32075), (340, 32246), (355, 32321), (385, 32423), (394, 32468), (406, 32528), (410, 32552), (418, 32582), (485, 32846), (494, 32900), (511, 32963), (522, 33011), (531, 33047), (532, 33050), (535, 33062), (540, 33086), (580, 33263), (582, 33269), (588, 33314), (589, 33317), (596, 33368), (622, 33500), (651, 33644), (661, 33725), (669, 33770),

Gene: Stank_29 Start: 22790, Stop: 25186, Start Num: 99

Candidate Starts for Stank_29:

(Start: 99 @22790 has 127 MA's), (164, 22967), (170, 22988), (225, 23135), (254, 23276), (261, 23309), (271, 23342), (277, 23378), (306, 23471), (328, 23531), (333, 23549), (359, 23681), (374, 23726), (404, 23858), (412, 23903), (433, 23963), (464, 24077), (467, 24098), (475, 24137), (478, 24158), (480, 24173), (513, 24323), (515, 24329), (518, 24347), (534, 24401), (553, 24485), (574, 24578), (628, 24824), (664, 25040), (678, 25124), (684, 25157),

Gene: Stap_19 Start: 17430, Stop: 19967, Start Num: 53

Candidate Starts for Stap_19:

(Start: 53 @17430 has 233 MA's), (62, 17451), (Start: 72 @17472 has 1 MA's), (90, 17511), (129, 17580), (130, 17589), (131, 17592), (139, 17610), (149, 17643), (152, 17658), (167, 17706), (198, 17811), (200, 17817), (201, 17820), (216, 17862), (217, 17865), (240, 17967), (253, 18033), (262, 18078), (271, 18108), (273, 18114), (274, 18132), (283, 18156), (285, 18165), (297, 18198), (299, 18204), (306, 18234), (322, 18273), (325, 18285), (328, 18294), (332, 18309), (333, 18312), (355, 18423), (356, 18426), (357, 18435), (358, 18441), (362, 18456), (364, 18459), (372, 18480), (382, 18510), (385, 18522), (391, 18555), (412, 18666), (413, 18669), (421, 18696), (423, 18702), (437, 18756), (438, 18759), (467, 18861), (469, 18873), (470, 18876), (481, 18942), (486, 18966), (489,

18987), (491, 18996), (506, 19056), (507, 19059), (515, 19095), (518, 19113), (523, 19125), (525, 19134), (533, 19161), (550, 19230), (553, 19248), (556, 19257), (558, 19269), (565, 19305), (576, 19356), (581, 19374), (587, 19416), (595, 19470), (610, 19530), (617, 19572), (634, 19650), (646, 19707), (650, 19731), (658, 19785), (664, 19833), (677, 19899), (678, 19902),

Gene: Starcevich_19 Start: 17191, Stop: 19728, Start Num: 53

Candidate Starts for Starcevich_19:

(Start: 53 @17191 has 233 MA's), (62, 17212), (Start: 72 @17233 has 1 MA's), (90, 17272), (129, 17341), (130, 17350), (131, 17353), (139, 17371), (152, 17419), (198, 17572), (201, 17581), (217, 17626), (239, 17725), (240, 17728), (253, 17794), (271, 17869), (273, 17875), (274, 17893), (283, 17917), (284, 17923), (285, 17926), (297, 17959), (299, 17965), (306, 17995), (316, 18016), (325, 18046), (328, 18055), (332, 18070), (333, 18073), (355, 18184), (356, 18187), (357, 18196), (358, 18202), (362, 18217), (364, 18220), (372, 18241), (382, 18271), (385, 18283), (391, 18316), (412, 18427), (413, 18430), (421, 18457), (423, 18463), (437, 18517), (438, 18520), (467, 18622), (469, 18634), (470, 18637), (481, 18703), (486, 18727), (489, 18748), (491, 18757), (506, 18817), (507, 18820), (515, 18856), (518, 18874), (523, 18886), (525, 18895), (533, 18922), (549, 18979), (550, 18991), (553, 19009), (556, 19018), (558, 19030), (565, 19066), (570, 19096), (574, 19105), (576, 19117), (587, 19177), (595, 19231), (610, 19291), (617, 19333), (646, 19468), (650, 19492), (658, 19546), (664, 19594), (675, 19636), (677, 19660), (678, 19663),

Gene: Stargaze_22 Start: 20828, Stop: 23284, Start Num: 33

Candidate Starts for Stargaze_22:

(Start: 33 @20828 has 9 MA's), (87, 20972), (131, 21056), (142, 21086), (159, 21131), (213, 21290), (239, 21407), (308, 21629), (327, 21680), (331, 21695), (353, 21797), (371, 21863), (393, 21947), (415, 22061), (437, 22151), (440, 22166), (442, 22172), (446, 22181), (454, 22220), (461, 22247), (465, 22259), (478, 22334), (495, 22430), (500, 22442), (508, 22481), (544, 22616), (553, 22649), (556, 22658), (562, 22685), (581, 22784), (591, 22862), (603, 22922), (635, 23078), (659, 23222), (665, 23264),

Gene: Stark_27 Start: 22042, Stop: 24438, Start Num: 99

Candidate Starts for Stark_27:

(Start: 99 @22042 has 127 MA's), (164, 22219), (170, 22240), (225, 22387), (261, 22561), (271, 22594), (277, 22630), (306, 22723), (328, 22783), (333, 22801), (359, 22933), (374, 22978), (404, 23110), (412, 23155), (433, 23215), (464, 23329), (467, 23350), (475, 23389), (478, 23410), (480, 23425), (513, 23575), (515, 23581), (518, 23599), (534, 23653), (553, 23737), (574, 23830), (628, 24076), (664, 24292), (678, 24376), (684, 24409),

Gene: StellaBean_26 Start: 22283, Stop: 24679, Start Num: 99

Candidate Starts for StellaBean_26:

(Start: 99 @22283 has 127 MA's), (164, 22460), (170, 22481), (225, 22628), (254, 22769), (261, 22802), (271, 22835), (277, 22871), (306, 22964), (328, 23024), (333, 23042), (359, 23174), (374, 23219), (404, 23351), (412, 23396), (433, 23456), (464, 23570), (467, 23591), (475, 23630), (478, 23651), (480, 23666), (513, 23816), (515, 23822), (518, 23840), (534, 23894), (553, 23978), (574, 24071), (628, 24317), (664, 24533), (678, 24617), (684, 24650),

Gene: Stinson_28 Start: 21121, Stop: 23553, Start Num: 82

Candidate Starts for Stinson_28:

(Start: 82 @21121 has 96 MA's), (85, 21130), (125, 21220), (210, 21481), (217, 21502), (260, 21709), (270, 21742), (275, 21772), (301, 21844), (306, 21868), (323, 21913), (355, 22066), (366, 22123), (370, 22132), (381, 22168), (385, 22183), (421, 22363), (426, 22378), (441, 22447), (445, 22459), (461, 22522), (470, 22564), (478, 22603), (479, 22609), (480, 22618), (484, 22639), (496, 22699), (508, 22747), (523, 22807), (525, 22816), (538, 22873), (555, 22930), (557, 22939), (562, 22960), (569, 23005), (580, 23053), (595, 23149), (643, 23377), (665, 23524),

Gene: StolenFromERC_28 Start: 22274, Stop: 24670, Start Num: 99

Candidate Starts for StolenFromERC_28:

(Start: 99 @22274 has 127 MA's), (164, 22451), (170, 22472), (225, 22619), (261, 22793), (271, 22826), (277, 22862), (306, 22955), (328, 23015), (333, 23033), (359, 23165), (374, 23210), (404, 23342), (412, 23387), (433, 23447), (464, 23561), (467, 23582), (475, 23621), (478, 23642), (480, 23657), (513, 23807), (515, 23813), (518, 23831), (534, 23885), (553, 23969), (574, 24062), (628, 24308), (664, 24524), (678, 24608), (684, 24641),

Gene: StormChicken_26 Start: 22458, Stop: 24854, Start Num: 99

Candidate Starts for StormChicken_26:

(Start: 99 @22458 has 127 MA's), (164, 22635), (170, 22656), (225, 22803), (254, 22944), (261, 22977), (271, 23010), (277, 23046), (306, 23139), (328, 23199), (333, 23217), (359, 23349), (374, 23394), (404, 23526), (412, 23571), (433, 23631), (464, 23745), (467, 23766), (475, 23805), (478, 23826), (480, 23841), (513, 23991), (515, 23997), (518, 24015), (534, 24069), (553, 24153), (574, 24246), (628, 24492), (664, 24708), (678, 24792), (684, 24825),

Gene: Strokeseat_18 Start: 17495, Stop: 20032, Start Num: 53

Candidate Starts for Strokeseat_18:

(Start: 53 @17495 has 233 MA's), (62, 17516), (Start: 72 @17537 has 1 MA's), (90, 17576), (129, 17645), (130, 17654), (131, 17657), (139, 17675), (152, 17723), (200, 17882), (201, 17885), (216, 17927), (217, 17930), (233, 18008), (239, 18029), (240, 18032), (253, 18098), (271, 18173), (273, 18179), (283, 18221), (284, 18227), (285, 18230), (297, 18263), (299, 18269), (306, 18299), (316, 18320), (325, 18350), (328, 18359), (350, 18467), (353, 18479), (355, 18488), (356, 18491), (357, 18500), (358, 18506), (362, 18521), (364, 18524), (372, 18545), (385, 18587), (391, 18620), (421, 18761), (423, 18767), (437, 18821), (438, 18824), (449, 18851), (467, 18926), (469, 18938), (470, 18941), (481, 19007), (486, 19031), (489, 19052), (491, 19061), (506, 19121), (507, 19124), (515, 19160), (518, 19178), (525, 19199), (533, 19226), (550, 19295), (553, 19313), (556, 19322), (558, 19334), (565, 19370), (570, 19400), (587, 19481), (610, 19595), (617, 19637), (646, 19772), (650, 19796), (658, 19850), (677, 19964), (678, 19967),

Gene: Sulley_27 Start: 20845, Stop: 23277, Start Num: 82

Candidate Starts for Sulley_27:

(Start: 82 @20845 has 96 MA's), (125, 20944), (210, 21205), (217, 21226), (260, 21433), (270, 21466), (275, 21496), (301, 21568), (306, 21592), (355, 21790), (363, 21835), (366, 21847), (370, 21856), (385, 21907), (421, 22087), (426, 22102), (441, 22171), (445, 22183), (461, 22246), (470, 22288), (478, 22327), (479, 22333), (480, 22342), (484, 22363), (496, 22423), (506, 22456), (508, 22471), (509, 22474), (522, 22528), (525, 22540), (555, 22654), (557, 22663), (562, 22684), (575, 22756), (580, 22777), (595, 22873), (643, 23101), (665, 23248),

Gene: SuperGrey_19 Start: 18074, Stop: 20611, Start Num: 53

Candidate Starts for SuperGrey_19:

(Start: 53 @18074 has 233 MA's), (62, 18095), (Start: 72 @18116 has 1 MA's), (90, 18155), (129, 18224), (130, 18233), (131, 18236), (139, 18254), (152, 18302), (200, 18461), (201, 18464), (217, 18509), (239, 18608), (240, 18611), (253, 18677), (271, 18752), (273, 18758), (274, 18776), (283, 18800), (284, 18806), (285, 18809), (297, 18842), (299, 18848), (306, 18878), (316, 18899), (325, 18929), (328, 18938), (332, 18953), (333, 18956), (355, 19067), (356, 19070), (357, 19079), (358, 19085), (362, 19100), (364, 19103), (372, 19124), (382, 19154), (385, 19166), (391, 19199), (412, 19310), (413, 19313), (421, 19340), (423, 19346), (437, 19400), (438, 19403), (465, 19490), (467, 19505), (469, 19517), (470, 19520), (481, 19586), (486, 19610), (489, 19631), (491, 19640), (506, 19700), (507, 19703), (515, 19739), (518, 19757), (523, 19769), (525, 19778), (533, 19805), (549, 19862), (550, 19874), (553, 19892), (556, 19901), (558, 19913), (565, 19949), (570, 19979), (574, 19988), (576, 20000), (587, 20060), (595, 20114), (610, 20174), (617, 20216), (634, 20294), (646,

20351), (650, 20375), (658, 20429), (664, 20477), (675, 20519), (677, 20543), (678, 20546),

Gene: Superphikiman_36 Start: 27736, Stop: 30243, Start Num: 53

Candidate Starts for Superphikiman_36:

(Start: 53 @27736 has 233 MA's), (139, 27931), (149, 27967), (152, 27982), (186, 28069), (191, 28084), (217, 28159), (220, 28171), (228, 28198), (250, 28303), (259, 28342), (262, 28351), (271, 28375), (273, 28381), (274, 28399), (281, 28417), (285, 28432), (289, 28441), (292, 28450), (297, 28465), (304, 28492), (306, 28501), (322, 28540), (325, 28552), (328, 28561), (346, 28645), (364, 28726), (374, 28756), (375, 28759), (385, 28789), (390, 28816), (392, 28825), (401, 28876), (402, 28885), (404, 28888), (411, 28924), (415, 28945), (429, 28981), (468, 29134), (478, 29188), (486, 29233), (488, 29251), (489, 29254), (501, 29293), (532, 29440), (534, 29449), (551, 29518), (553, 29533), (587, 29698), (600, 29785), (612, 29833), (628, 29884), (641, 29962), (679, 30184), (681, 30187), (684, 30214),

Gene: SwagPiggett_18 Start: 17406, Stop: 19943, Start Num: 53

Candidate Starts for SwagPiggett_18:

(Start: 53 @17406 has 233 MA's), (62, 17427), (Start: 72 @17448 has 1 MA's), (90, 17487), (129, 17556), (130, 17565), (131, 17568), (139, 17586), (152, 17634), (198, 17787), (201, 17796), (217, 17841), (233, 17919), (240, 17943), (253, 18009), (262, 18054), (271, 18084), (273, 18090), (274, 18108), (283, 18132), (285, 18141), (297, 18174), (299, 18180), (306, 18210), (322, 18249), (328, 18270), (332, 18285), (333, 18288), (356, 18402), (357, 18411), (358, 18417), (364, 18435), (372, 18456), (382, 18486), (385, 18498), (391, 18531), (412, 18642), (413, 18645), (421, 18672), (423, 18678), (437, 18732), (438, 18735), (465, 18822), (467, 18837), (470, 18852), (486, 18942), (489, 18963), (491, 18972), (506, 19032), (507, 19035), (515, 19071), (518, 19089), (523, 19101), (525, 19110), (533, 19137), (550, 19206), (553, 19224), (556, 19233), (558, 19245), (565, 19281), (570, 19311), (576, 19332), (583, 19356), (587, 19392), (595, 19446), (617, 19548), (634, 19626), (646, 19683), (650, 19707), (658, 19761), (664, 19809), (675, 19851), (680, 19884), (681, 19887),

Gene: TBrady12_28 Start: 22274, Stop: 24670, Start Num: 99

Candidate Starts for TBrady12_28:

(Start: 99 @22274 has 127 MA's), (164, 22451), (170, 22472), (225, 22619), (254, 22760), (261, 22793), (271, 22826), (277, 22862), (306, 22955), (328, 23015), (333, 23033), (359, 23165), (374, 23210), (404, 23342), (412, 23387), (433, 23447), (464, 23561), (467, 23582), (475, 23621), (478, 23642), (480, 23657), (513, 23807), (515, 23813), (518, 23831), (534, 23885), (553, 23969), (574, 24062), (628, 24308), (664, 24524), (678, 24608), (684, 24641),

Gene: TDanisky_18 Start: 17429, Stop: 19966, Start Num: 53

Candidate Starts for TDanisky_18:

(Start: 53 @17429 has 233 MA's), (62, 17450), (Start: 72 @17471 has 1 MA's), (90, 17510), (129, 17579), (130, 17588), (131, 17591), (139, 17609), (152, 17657), (198, 17810), (201, 17819), (217, 17864), (233, 17942), (240, 17966), (253, 18032), (262, 18077), (271, 18107), (273, 18113), (274, 18131), (283, 18155), (285, 18164), (297, 18197), (299, 18203), (306, 18233), (322, 18272), (328, 18293), (332, 18308), (333, 18311), (356, 18425), (357, 18434), (358, 18440), (364, 18458), (372, 18479), (382, 18509), (385, 18521), (391, 18554), (412, 18665), (413, 18668), (421, 18695), (423, 18701), (437, 18755), (438, 18758), (465, 18845), (467, 18860), (470, 18875), (486, 18965), (489, 18986), (491, 18995), (506, 19055), (507, 19058), (515, 19094), (518, 19112), (523, 19124), (525, 19133), (533, 19160), (550, 19229), (553, 19247), (556, 19256), (558, 19268), (565, 19304), (570, 19334), (576, 19355), (583, 19379), (587, 19415), (595, 19469), (617, 19571), (634, 19649), (646, 19706), (650, 19730), (658, 19784), (664, 19832), (675, 19874), (680, 19907), (681, 19910),

Gene: Tachez_27 Start: 20841, Stop: 23273, Start Num: 82

Candidate Starts for Tachez_27:

(Start: 82 @20841 has 96 MA's), (125, 20940), (210, 21201), (217, 21222), (260, 21429), (270, 21462), (275, 21492), (301, 21564), (306, 21588), (323, 21633), (355, 21786), (363, 21831), (366, 21843), (370, 21852), (385, 21903), (421, 22083), (426, 22098), (441, 22167), (445, 22179), (470, 22284), (478, 22323), (479, 22329), (480, 22338), (496, 22419), (508, 22467), (527, 22542), (536, 22578), (555, 22650), (557, 22659), (562, 22680), (580, 22773), (595, 22869), (628, 23016), (634, 23058), (643, 23097), (655, 23172),

Gene: TaiwanKao_28 Start: 20852, Stop: 23284, Start Num: 82

Candidate Starts for TaiwanKao_28:

(Start: 82 @20852 has 96 MA's), (125, 20951), (210, 21212), (260, 21440), (270, 21473), (275, 21503), (306, 21599), (323, 21644), (355, 21797), (363, 21842), (366, 21854), (370, 21863), (385, 21914), (421, 22094), (426, 22109), (441, 22178), (445, 22190), (461, 22253), (470, 22295), (478, 22334), (479, 22340), (480, 22349), (484, 22370), (496, 22430), (525, 22547), (536, 22589), (555, 22661), (557, 22670), (562, 22691), (575, 22763), (580, 22784), (595, 22880), (643, 23108), (665, 23255),

Gene: Taj_18 Start: 17430, Stop: 19967, Start Num: 53

Candidate Starts for Taj_18:

(47, 17418), (Start: 53 @17430 has 233 MA's), (62, 17451), (Start: 72 @17472 has 1 MA's), (90, 17511), (129, 17580), (130, 17589), (131, 17592), (139, 17610), (149, 17643), (152, 17658), (167, 17706), (198, 17811), (200, 17817), (201, 17820), (216, 17862), (217, 17865), (233, 17943), (253, 18033), (262, 18078), (271, 18108), (273, 18114), (274, 18132), (283, 18156), (285, 18165), (297, 18198), (299, 18204), (306, 18234), (322, 18273), (325, 18285), (328, 18294), (332, 18309), (333, 18312), (355, 18423), (356, 18426), (357, 18435), (358, 18441), (362, 18456), (364, 18459), (372, 18480), (382, 18510), (385, 18522), (391, 18555), (412, 18666), (413, 18669), (421, 18696), (423, 18702), (437, 18756), (438, 18759), (465, 18846), (467, 18861), (469, 18873), (470, 18876), (481, 18942), (486, 18966), (489, 18987), (491, 18996), (506, 19056), (507, 19059), (515, 19095), (518, 19113), (523, 19125), (525, 19134), (533, 19161), (550, 19230), (553, 19248), (556, 19257), (558, 19269), (565, 19305), (570, 19335), (576, 19356), (583, 19380), (587, 19416), (595, 19470), (610, 19530), (617, 19572), (646, 19707), (650, 19731), (658, 19785), (664, 19833), (675, 19875), (677, 19899), (678, 19902),

Gene: Tarkin_28 Start: 23273, Stop: 25669, Start Num: 99

Candidate Starts for Tarkin_28:

(Start: 99 @23273 has 127 MA's), (164, 23450), (170, 23471), (225, 23618), (254, 23759), (261, 23792), (271, 23825), (277, 23861), (306, 23954), (328, 24014), (333, 24032), (359, 24164), (374, 24209), (404, 24341), (412, 24386), (433, 24446), (464, 24560), (467, 24581), (475, 24620), (478, 24641), (480, 24656), (513, 24806), (515, 24812), (518, 24830), (534, 24884), (553, 24968), (574, 25061), (628, 25307), (664, 25523), (678, 25607), (684, 25640),

Gene: Tchotchke_19 Start: 17331, Stop: 19868, Start Num: 53

Candidate Starts for Tchotchke_19:

(Start: 53 @17331 has 233 MA's), (62, 17352), (Start: 72 @17373 has 1 MA's), (90, 17412), (129, 17481), (130, 17490), (131, 17493), (139, 17511), (152, 17559), (198, 17712), (201, 17721), (217, 17766), (239, 17865), (240, 17868), (253, 17934), (271, 18009), (273, 18015), (274, 18033), (283, 18057), (284, 18063), (285, 18066), (297, 18099), (299, 18105), (306, 18135), (316, 18156), (325, 18186), (328, 18195), (332, 18210), (333, 18213), (355, 18324), (356, 18327), (357, 18336), (358, 18342), (362, 18357), (364, 18360), (372, 18381), (382, 18411), (385, 18423), (391, 18456), (412, 18567), (413, 18570), (421, 18597), (423, 18603), (437, 18657), (438, 18660), (467, 18762), (469, 18774), (470, 18777), (481, 18843), (486, 18867), (489, 18888), (491, 18897), (506, 18957), (507, 18960), (515, 18996), (518, 19014), (523, 19026), (525, 19035), (533, 19062), (549, 19119), (550, 19131), (553, 19149), (556, 19158), (558, 19170), (565, 19206), (570, 19236), (574, 19245), (576, 19257), (587, 19317), (595, 19371), (610, 19431), (617, 19473), (646, 19608), (650, 19632), (658, 19686), (664, 19734), (675, 19776), (677, 19800), (678, 19803),

Gene: TeamEdward_26 Start: 22455, Stop: 24851, Start Num: 99

Candidate Starts for TeamEdward_26:

(Start: 99 @22455 has 127 MA's), (164, 22632), (170, 22653), (225, 22800), (254, 22941), (261, 22974), (271, 23007), (277, 23043), (306, 23136), (328, 23196), (333, 23214), (359, 23346), (374, 23391), (404, 23523), (412, 23568), (433, 23628), (464, 23742), (467, 23763), (475, 23802), (478, 23823), (480, 23838), (513, 23988), (515, 23994), (518, 24012), (534, 24066), (553, 24150), (574, 24243), (628, 24489), (664, 24705), (678, 24789), (684, 24822),

Gene: TeardropMSU_25 Start: 22191, Stop: 24587, Start Num: 99

Candidate Starts for TeardropMSU_25:

(Start: 99 @22191 has 127 MA's), (164, 22368), (170, 22389), (225, 22536), (254, 22677), (261, 22710), (271, 22743), (277, 22779), (306, 22872), (328, 22932), (333, 22950), (349, 23031), (404, 23259), (412, 23304), (467, 23499), (468, 23505), (470, 23514), (478, 23559), (480, 23574), (515, 23730), (518, 23748), (521, 23757), (536, 23811), (553, 23886), (554, 23889), (594, 24099), (597, 24111), (628, 24225), (664, 24441), (678, 24525), (682, 24549), (684, 24558),

Gene: Teaspoon_27 Start: 22237, Stop: 24633, Start Num: 99

Candidate Starts for Teaspoon_27:

(Start: 99 @22237 has 127 MA's), (164, 22414), (170, 22435), (225, 22582), (254, 22723), (261, 22756), (271, 22789), (277, 22825), (306, 22918), (328, 22978), (333, 22996), (359, 23128), (374, 23173), (404, 23305), (412, 23350), (433, 23410), (464, 23524), (467, 23545), (475, 23584), (478, 23605), (480, 23620), (513, 23770), (515, 23776), (518, 23794), (534, 23848), (553, 23932), (574, 24025), (628, 24271), (664, 24487), (678, 24571), (684, 24604),

Gene: TelAviv_55 Start: 36063, Stop: 38573, Start Num: 63

Candidate Starts for TelAviv_55:

(Start: 63 @36063 has 33 MA's), (81, 36096), (111, 36165), (112, 36168), (121, 36192), (131, 36216), (141, 36240), (149, 36273), (206, 36480), (209, 36492), (210, 36495), (244, 36642), (247, 36672), (253, 36696), (262, 36726), (264, 36729), (271, 36756), (274, 36780), (284, 36810), (302, 36867), (307, 36891), (322, 36927), (325, 36939), (332, 36963), (333, 36966), (340, 37008), (362, 37104), (364, 37107), (430, 37362), (467, 37506), (478, 37566), (488, 37638), (489, 37641), (512, 37737), (553, 37911), (558, 37932), (579, 38025), (582, 38037), (595, 38127), (613, 38202), (633, 38247), (670, 38448), (676, 38502), (681, 38517),

Gene: Terminus_26 Start: 22371, Stop: 24767, Start Num: 99

Candidate Starts for Terminus_26:

(Start: 99 @22371 has 127 MA's), (164, 22548), (170, 22569), (225, 22716), (254, 22857), (261, 22890), (271, 22923), (277, 22959), (306, 23052), (328, 23112), (333, 23130), (359, 23262), (374, 23307), (404, 23439), (412, 23484), (433, 23544), (464, 23658), (467, 23679), (475, 23718), (478, 23739), (480, 23754), (513, 23904), (515, 23910), (518, 23928), (534, 23982), (553, 24066), (574, 24159), (628, 24405), (664, 24621), (678, 24705), (684, 24738),

Gene: ThetaBob_20 Start: 17751, Stop: 20231, Start Num: 56

Candidate Starts for ThetaBob_20:

(Start: 56 @17751 has 3 MA's), (59, 17757), (62, 17763), (Start: 99 @17826 has 127 MA's), (100, 17829), (112, 17856), (135, 17910), (139, 17919), (149, 17952), (161, 17985), (167, 18018), (186, 18057), (191, 18072), (201, 18108), (203, 18114), (204, 18117), (215, 18135), (217, 18147), (220, 18159), (227, 18183), (228, 18186), (259, 18330), (262, 18339), (271, 18363), (274, 18387), (283, 18411), (284, 18417), (292, 18438), (293, 18441), (299, 18459), (306, 18489), (319, 18519), (325, 18540), (346, 18633), (349, 18648), (350, 18657), (355, 18678), (356, 18681), (367, 18723), (382, 18765), (383, 18768), (385, 18777), (390, 18804), (392, 18813), (399, 18852), (402, 18873), (404, 18876), (411, 18912), (415, 18933), (437, 19011), (438, 19014), (456, 19068), (469, 19128), (486,

19221), (489, 19242), (501, 19278), (511, 19332), (513, 19341), (532, 19419), (536, 19437), (545, 19473), (547, 19476), (550, 19494), (551, 19497), (553, 19512), (558, 19533), (565, 19569), (568, 19581), (583, 19644), (587, 19677), (600, 19764), (612, 19812), (615, 19836), (623, 19863), (628, 19872), (633, 19911), (641, 19950), (646, 19974), (649, 19995), (664, 20091), (672, 20112), (681, 20175), (684, 20202), (685, 20211),

Gene: Thimble_26 Start: 21237, Stop: 23633, Start Num: 99

Candidate Starts for Thimble_26:

(Start: 99 @21237 has 127 MA's), (164, 21414), (170, 21435), (225, 21582), (254, 21723), (261, 21756), (271, 21789), (277, 21825), (306, 21918), (328, 21978), (333, 21996), (359, 22128), (374, 22173), (404, 22305), (412, 22350), (433, 22410), (464, 22524), (467, 22545), (475, 22584), (478, 22605), (480, 22620), (513, 22770), (515, 22776), (518, 22794), (534, 22848), (553, 22932), (574, 23025), (628, 23271), (664, 23487), (678, 23571), (684, 23604),

Gene: Thresher_27 Start: 23038, Stop: 25434, Start Num: 99

Candidate Starts for Thresher_27:

(Start: 99 @23038 has 127 MA's), (164, 23215), (170, 23236), (225, 23383), (261, 23557), (271, 23590), (277, 23626), (306, 23719), (328, 23779), (333, 23797), (359, 23929), (374, 23974), (404, 24106), (412, 24151), (464, 24325), (467, 24346), (475, 24385), (478, 24406), (480, 24421), (513, 24571), (515, 24577), (518, 24595), (534, 24649), (553, 24733), (574, 24826), (628, 25072), (664, 25288), (678, 25372), (684, 25405),

Gene: Thumb_29 Start: 25682, Stop: 28525, Start Num: 17

Candidate Starts for Thumb_29:

(Start: 17 @25682 has 8 MA's), (30, 25814), (31, 25826), (35, 25835), (49, 25904), (76, 25970), (86, 25991), (108, 26039), (125, 26081), (134, 26105), (145, 26138), (154, 26174), (160, 26186), (185, 26279), (201, 26336), (212, 26375), (254, 26570), (260, 26600), (273, 26642), (316, 26783), (322, 26801), (340, 26882), (349, 26921), (353, 26942), (391, 27080), (398, 27119), (438, 27284), (460, 27356), (469, 27398), (472, 27410), (488, 27509), (571, 27872), (629, 28142), (632, 28175), (638, 28199), (657, 28319), (673, 28397), (684, 28484), (686, 28499), (687, 28505),

Gene: TiniBug_27 Start: 20837, Stop: 23269, Start Num: 82

Candidate Starts for TiniBug_27:

(73, 20819), (Start: 82 @20837 has 96 MA's), (103, 20885), (125, 20936), (210, 21197), (217, 21218), (269, 21455), (270, 21458), (275, 21488), (276, 21491), (301, 21560), (306, 21584), (308, 21590), (310, 21596), (323, 21629), (355, 21782), (366, 21839), (370, 21848), (385, 21899), (421, 22079), (426, 22094), (441, 22163), (445, 22175), (454, 22211), (461, 22238), (470, 22280), (478, 22319), (479, 22325), (480, 22334), (484, 22355), (496, 22415), (506, 22448), (509, 22466), (525, 22532), (536, 22574), (555, 22646), (557, 22655), (562, 22676), (575, 22748), (628, 23012), (643, 23093), (655, 23168), (665, 23240),

Gene: Tiri_27 Start: 20884, Stop: 23316, Start Num: 82

Candidate Starts for Tiri_27:

(Start: 82 @20884 has 96 MA's), (125, 20983), (210, 21244), (217, 21265), (260, 21472), (270, 21505), (275, 21535), (301, 21607), (306, 21631), (355, 21829), (363, 21874), (366, 21886), (370, 21895), (385, 21946), (421, 22126), (426, 22141), (441, 22210), (445, 22222), (461, 22285), (470, 22327), (478, 22366), (479, 22372), (480, 22381), (484, 22402), (496, 22462), (525, 22579), (536, 22621), (555, 22693), (557, 22702), (562, 22723), (575, 22795), (580, 22816), (595, 22912), (609, 22975), (634, 23101), (643, 23140), (665, 23287),

Gene: Tomaszewski_25 Start: 21884, Stop: 24280, Start Num: 99

Candidate Starts for Tomaszewski_25:

(Start: 99 @21884 has 127 MA's), (164, 22061), (170, 22082), (225, 22229), (254, 22370), (261, 22403), (271, 22436), (277, 22472), (306, 22565), (328, 22625), (333, 22643), (359, 22775), (374, 22820), (404, 22952), (412, 22997), (464, 23171), (467, 23192), (475, 23231), (478, 23252), (480, 23267), (515, 23423), (518, 23441), (534, 23495), (553, 23579), (574, 23672), (628, 23918), (664, 24134), (678, 24218), (684, 24251),

Gene: TootsiePop_19 Start: 17273, Stop: 19798, Start Num: 53

Candidate Starts for TootsiePop_19:

(Start: 53 @17273 has 233 MA's), (62, 17294), (Start: 72 @17315 has 1 MA's), (90, 17354), (129, 17423), (130, 17432), (131, 17435), (139, 17453), (149, 17486), (152, 17501), (167, 17549), (200, 17660), (201, 17663), (217, 17708), (233, 17786), (240, 17810), (253, 17876), (262, 17921), (271, 17951), (273, 17957), (274, 17975), (283, 17999), (285, 18008), (297, 18041), (299, 18047), (306, 18077), (322, 18116), (325, 18128), (328, 18137), (332, 18152), (333, 18155), (364, 18302), (382, 18353), (403, 18464), (413, 18515), (420, 18539), (449, 18632), (460, 18677), (464, 18686), (467, 18707), (469, 18719), (470, 18722), (478, 18767), (486, 18812), (488, 18830), (489, 18833), (502, 18884), (513, 18935), (515, 18941), (518, 18959), (523, 18971), (525, 18980), (534, 19013), (553, 19094), (568, 19163), (574, 19190), (580, 19217), (589, 19268), (595, 19316), (649, 19559), (664, 19664), (672, 19685), (680, 19739), (683, 19763),

Gene: Tootsieroll_19 Start: 17239, Stop: 19776, Start Num: 53

Candidate Starts for Tootsieroll_19:

(47, 17227), (Start: 53 @17239 has 233 MA's), (62, 17260), (Start: 72 @17281 has 1 MA's), (90, 17320), (129, 17389), (130, 17398), (131, 17401), (139, 17419), (149, 17452), (152, 17467), (167, 17515), (198, 17620), (200, 17626), (201, 17629), (216, 17671), (217, 17674), (240, 17776), (253, 17842), (262, 17887), (271, 17917), (273, 17923), (274, 17941), (283, 17965), (285, 17974), (297, 18007), (299, 18013), (306, 18043), (325, 18094), (328, 18103), (350, 18211), (353, 18223), (355, 18232), (356, 18235), (358, 18250), (362, 18265), (364, 18268), (372, 18289), (382, 18319), (385, 18331), (391, 18364), (412, 18475), (413, 18478), (421, 18505), (423, 18511), (437, 18565), (438, 18568), (449, 18595), (467, 18670), (469, 18682), (470, 18685), (481, 18751), (485, 18772), (486, 18775), (489, 18796), (491, 18805), (506, 18865), (507, 18868), (513, 18898), (518, 18922), (523, 18934), (525, 18943), (550, 19039), (553, 19057), (556, 19066), (558, 19078), (570, 19144), (574, 19153), (576, 19165), (583, 19189), (587, 19225), (617, 19381), (646, 19516), (650, 19540), (658, 19594), (672, 19663), (677, 19708), (678, 19711),

Gene: Topiatin_20 Start: 18098, Stop: 20635, Start Num: 53

Candidate Starts for Topiatin_20:

(47, 18086), (Start: 53 @18098 has 233 MA's), (62, 18119), (Start: 72 @18140 has 1 MA's), (90, 18179), (129, 18248), (130, 18257), (131, 18260), (139, 18278), (149, 18311), (152, 18326), (167, 18374), (200, 18485), (201, 18488), (213, 18518), (217, 18533), (233, 18611), (240, 18635), (253, 18701), (262, 18746), (271, 18776), (273, 18782), (274, 18800), (283, 18824), (285, 18833), (297, 18866), (299, 18872), (306, 18902), (322, 18941), (325, 18953), (328, 18962), (332, 18977), (333, 18980), (355, 19091), (356, 19094), (357, 19103), (358, 19109), (362, 19124), (364, 19127), (372, 19148), (382, 19178), (385, 19190), (391, 19223), (412, 19334), (413, 19337), (421, 19364), (423, 19370), (437, 19424), (438, 19427), (465, 19514), (467, 19529), (469, 19541), (470, 19544), (481, 19610), (486, 19634), (489, 19655), (491, 19664), (502, 19706), (506, 19724), (507, 19727), (515, 19763), (518, 19781), (523, 19793), (525, 19802), (533, 19829), (550, 19898), (553, 19916), (556, 19925), (558, 19937), (565, 19973), (570, 20003), (576, 20024), (583, 20048), (587, 20084), (595, 20138), (610, 20198), (617, 20240), (634, 20318), (646, 20375), (650, 20399), (658, 20453), (664, 20501), (675, 20543), (677, 20567), (678, 20570),

Gene: Topper_27 Start: 20912, Stop: 23344, Start Num: 82

Candidate Starts for Topper_27:

(Start: 82 @20912 has 96 MA's), (125, 21011), (210, 21272), (217, 21293), (260, 21500), (270, 21533), (275, 21563), (301, 21635), (306, 21659), (355, 21857), (363, 21902), (366, 21914), (370, 21923), (385, 21974), (421, 22154), (426, 22169), (441, 22238), (445, 22250), (461, 22313), (470, 22355), (478, 22394), (479, 22400), (480, 22409), (484, 22430), (496, 22490), (525, 22607), (536, 22649), (555, 22721), (557, 22730), (562, 22751), (575, 22823), (580, 22844), (595, 22940), (628, 23087), (643, 23168), (665, 23315),

Gene: Toron_20 Start: 17872, Stop: 20292, Start Num: 117

Candidate Starts for Toron_20:

(117, 17872), (120, 17878), (126, 17884), (148, 17947), (157, 17971), (159, 17974), (174, 18037), (208, 18145), (211, 18154), (217, 18175), (219, 18184), (239, 18274), (247, 18319), (259, 18379), (285, 18475), (303, 18532), (314, 18556), (329, 18604), (332, 18613), (333, 18616), (342, 18664), (350, 18706), (356, 18730), (357, 18739), (358, 18745), (364, 18763), (372, 18784), (375, 18796), (382, 18814), (385, 18826), (391, 18859), (402, 18922), (404, 18925), (407, 18940), (409, 18952), (437, 19060), (443, 19084), (454, 19111), (456, 19117), (467, 19165), (472, 19189), (478, 19225), (479, 19231), (480, 19240), (502, 19354), (504, 19369), (523, 19447), (551, 19558), (553, 19573), (556, 19582), (574, 19669), (583, 19705), (587, 19741), (595, 19795), (646, 20032), (650, 20056), (672, 20179), (677, 20224), (683, 20257),

Gene: Totinger_19 Start: 17189, Stop: 19726, Start Num: 53

Candidate Starts for Totinger_19:

(Start: 53 @17189 has 233 MA's), (62, 17210), (Start: 72 @17231 has 1 MA's), (90, 17270), (129, 17339), (130, 17348), (131, 17351), (139, 17369), (152, 17417), (198, 17570), (201, 17579), (217, 17624), (239, 17723), (240, 17726), (253, 17792), (271, 17867), (273, 17873), (274, 17891), (283, 17915), (284, 17921), (285, 17924), (297, 17957), (299, 17963), (306, 17993), (316, 18014), (325, 18044), (328, 18053), (332, 18068), (333, 18071), (355, 18182), (356, 18185), (357, 18194), (358, 18200), (362, 18215), (364, 18218), (372, 18239), (382, 18269), (385, 18281), (391, 18314), (412, 18425), (413, 18428), (421, 18455), (423, 18461), (437, 18515), (438, 18518), (467, 18620), (469, 18632), (470, 18635), (481, 18701), (486, 18725), (489, 18746), (491, 18755), (506, 18815), (507, 18818), (515, 18854), (518, 18872), (523, 18884), (525, 18893), (533, 18920), (549, 18977), (550, 18989), (553, 19007), (556, 19016), (558, 19028), (565, 19064), (570, 19094), (574, 19103), (576, 19115), (587, 19175), (595, 19229), (610, 19289), (617, 19331), (646, 19466), (650, 19490), (658, 19544), (664, 19592), (675, 19634), (677, 19658), (678, 19661),

Gene: Toto_26 Start: 22284, Stop: 24680, Start Num: 99

Candidate Starts for Toto_26:

(Start: 99 @22284 has 127 MA's), (164, 22461), (170, 22482), (225, 22629), (254, 22770), (261, 22803), (271, 22836), (277, 22872), (306, 22965), (328, 23025), (333, 23043), (367, 23199), (374, 23220), (401, 23340), (404, 23352), (412, 23397), (467, 23592), (470, 23607), (478, 23652), (480, 23667), (515, 23823), (518, 23841), (521, 23850), (553, 23979), (554, 23982), (594, 24192), (597, 24204), (628, 24318), (664, 24534), (678, 24618), (682, 24642), (684, 24651),

Gene: Traaww1_24 Start: 21929, Stop: 24325, Start Num: 99

Candidate Starts for Traaww1_24:

(Start: 99 @21929 has 127 MA's), (164, 22106), (170, 22127), (225, 22274), (254, 22415), (261, 22448), (271, 22481), (277, 22517), (306, 22610), (328, 22670), (333, 22688), (349, 22769), (404, 22997), (412, 23042), (467, 23237), (468, 23243), (470, 23252), (478, 23297), (480, 23312), (515, 23468), (518, 23486), (521, 23495), (536, 23549), (553, 23624), (554, 23627), (594, 23837), (597, 23849), (628, 23963), (664, 24179), (678, 24263), (682, 24287), (684, 24296),

Gene: TreyKay_27 Start: 20846, Stop: 23278, Start Num: 82

Candidate Starts for TreyKay_27:

(Start: 82 @20846 has 96 MA's), (125, 20945), (210, 21206), (260, 21434), (270, 21467), (275, 21497), (301, 21569), (306, 21593), (323, 21638), (355, 21791), (363, 21836), (366, 21848), (370, 21857), (381, 21893), (385, 21908), (421, 22088), (426, 22103), (441, 22172), (445, 22184), (461, 22247), (470, 22289), (478, 22328), (479, 22334), (480, 22343), (484, 22364), (496, 22424), (525, 22541), (536, 22583), (555, 22655), (557, 22664), (562, 22685), (575, 22757), (580, 22778), (595, 22874), (643, 23102), (665, 23249),

Gene: TruffulaTree_27 Start: 20875, Stop: 23307, Start Num: 82

Candidate Starts for TruffulaTree_27:

(Start: 82 @20875 has 96 MA's), (125, 20974), (210, 21235), (217, 21256), (260, 21463), (270, 21496), (275, 21526), (301, 21598), (306, 21622), (323, 21667), (355, 21820), (363, 21865), (366, 21877), (370, 21886), (385, 21937), (421, 22117), (426, 22132), (441, 22201), (445, 22213), (461, 22276), (470, 22318), (478, 22357), (479, 22363), (480, 22372), (484, 22393), (496, 22453), (525, 22570), (536, 22612), (555, 22684), (557, 22693), (562, 22714), (575, 22786), (580, 22807), (595, 22903), (609, 22966), (643, 23131), (665, 23278),

Gene: Tuco_27 Start: 22799, Stop: 25195, Start Num: 99

Candidate Starts for Tuco_27:

(Start: 99 @22799 has 127 MA's), (164, 22976), (170, 22997), (225, 23144), (254, 23285), (261, 23318), (271, 23351), (277, 23387), (306, 23480), (328, 23540), (333, 23558), (349, 23639), (404, 23867), (412, 23912), (467, 24107), (468, 24113), (470, 24122), (478, 24167), (480, 24182), (515, 24338), (518, 24356), (521, 24365), (536, 24419), (553, 24494), (554, 24497), (594, 24707), (597, 24719), (628, 24833), (664, 25049), (678, 25133), (682, 25157), (684, 25166),

Gene: Tweety_18 Start: 17451, Stop: 19988, Start Num: 53

Candidate Starts for Tweety_18:

(47, 17439), (Start: 53 @17451 has 233 MA's), (62, 17472), (Start: 72 @17493 has 1 MA's), (90, 17532), (129, 17601), (130, 17610), (131, 17613), (139, 17631), (149, 17664), (152, 17679), (167, 17727), (200, 17838), (201, 17841), (213, 17871), (217, 17886), (233, 17964), (240, 17988), (253, 18054), (262, 18099), (271, 18129), (273, 18135), (274, 18153), (283, 18177), (285, 18186), (297, 18219), (299, 18225), (306, 18255), (322, 18294), (325, 18306), (328, 18315), (332, 18330), (333, 18333), (355, 18444), (356, 18447), (357, 18456), (358, 18462), (362, 18477), (364, 18480), (372, 18501), (382, 18531), (385, 18543), (391, 18576), (404, 18642), (412, 18687), (413, 18690), (421, 18717), (423, 18723), (437, 18777), (438, 18780), (465, 18867), (467, 18882), (469, 18894), (470, 18897), (481, 18963), (486, 18987), (489, 19008), (491, 19017), (502, 19059), (506, 19077), (507, 19080), (515, 19116), (518, 19134), (523, 19146), (525, 19155), (533, 19182), (550, 19251), (553, 19269), (556, 19278), (558, 19290), (565, 19326), (570, 19356), (576, 19377), (583, 19401), (587, 19437), (595, 19491), (610, 19551), (617, 19593), (646, 19728), (650, 19752), (658, 19806), (664, 19854), (675, 19896), (677, 19920), (678, 19923),

Gene: Twitch_27 Start: 20912, Stop: 23344, Start Num: 82

Candidate Starts for Twitch_27:

(Start: 82 @20912 has 96 MA's), (125, 21011), (210, 21272), (217, 21293), (260, 21500), (270, 21533), (275, 21563), (301, 21635), (306, 21659), (355, 21857), (363, 21902), (366, 21914), (370, 21923), (385, 21974), (421, 22154), (426, 22169), (441, 22238), (445, 22250), (461, 22313), (470, 22355), (478, 22394), (479, 22400), (480, 22409), (484, 22430), (496, 22490), (525, 22607), (536, 22649), (555, 22721), (557, 22730), (562, 22751), (575, 22823), (580, 22844), (595, 22940), (628, 23087), (643, 23168), (665, 23315),

Gene: Ukulele_26 Start: 22042, Stop: 24438, Start Num: 99

Candidate Starts for Ukulele_26:

(Start: 99 @22042 has 127 MA's), (164, 22219), (170, 22240), (225, 22387), (261, 22561), (271, 22594), (277, 22630), (306, 22723), (328, 22783), (333, 22801), (359, 22933), (374, 22978), (404,

23110), (412, 23155), (433, 23215), (464, 23329), (467, 23350), (475, 23389), (478, 23410), (480, 23425), (513, 23575), (515, 23581), (518, 23599), (534, 23653), (553, 23737), (574, 23830), (628, 24076), (664, 24292), (678, 24376), (684, 24409),

Gene: UncleRicky_19 Start: 17219, Stop: 19756, Start Num: 53

Candidate Starts for UncleRicky_19:

(47, 17207), (Start: 53 @17219 has 233 MA's), (62, 17240), (Start: 72 @17261 has 1 MA's), (90, 17300), (129, 17369), (130, 17378), (131, 17381), (139, 17399), (149, 17432), (152, 17447), (167, 17495), (198, 17600), (201, 17609), (216, 17651), (217, 17654), (233, 17732), (240, 17756), (253, 17822), (262, 17867), (271, 17897), (273, 17903), (274, 17921), (283, 17945), (285, 17954), (297, 17987), (299, 17993), (306, 18023), (322, 18062), (325, 18074), (328, 18083), (332, 18098), (333, 18101), (355, 18212), (357, 18224), (358, 18230), (362, 18245), (364, 18248), (372, 18269), (382, 18299), (385, 18311), (391, 18344), (404, 18410), (412, 18455), (413, 18458), (421, 18485), (423, 18491), (437, 18545), (438, 18548), (449, 18575), (467, 18650), (469, 18662), (470, 18665), (481, 18731), (486, 18755), (491, 18785), (502, 18827), (506, 18845), (507, 18848), (515, 18884), (518, 18902), (525, 18923), (533, 18950), (550, 19019), (553, 19037), (556, 19046), (558, 19058), (565, 19094), (570, 19124), (574, 19133), (576, 19145), (587, 19205), (595, 19259), (610, 19319), (617, 19361), (634, 19439), (646, 19496), (650, 19520), (658, 19574), (664, 19622), (675, 19664), (677, 19688), (678, 19691),

Gene: Urkel_27 Start: 20840, Stop: 23272, Start Num: 82

Candidate Starts for Urkel_27:

(73, 20822), (Start: 82 @20840 has 96 MA's), (103, 20888), (125, 20939), (210, 21200), (217, 21221), (269, 21458), (270, 21461), (275, 21491), (276, 21494), (301, 21563), (306, 21587), (308, 21593), (310, 21599), (323, 21632), (355, 21785), (366, 21842), (370, 21851), (385, 21902), (421, 22082), (426, 22097), (441, 22166), (445, 22178), (454, 22214), (461, 22241), (470, 22283), (478, 22322), (479, 22328), (480, 22337), (484, 22358), (496, 22418), (506, 22451), (509, 22469), (525, 22535), (536, 22577), (555, 22649), (557, 22658), (562, 22679), (575, 22751), (595, 22868), (628, 23015), (643, 23096), (655, 23171), (665, 23243),

Gene: VRedHorse_18 Start: 17564, Stop: 20101, Start Num: 53

Candidate Starts for VRedHorse_18:

(47, 17552), (Start: 53 @17564 has 233 MA's), (62, 17585), (Start: 72 @17606 has 1 MA's), (89, 17642), (90, 17645), (129, 17714), (130, 17723), (131, 17726), (139, 17744), (149, 17777), (152, 17792), (167, 17840), (198, 17945), (200, 17951), (201, 17954), (216, 17996), (217, 17999), (240, 18101), (253, 18167), (262, 18212), (271, 18242), (273, 18248), (274, 18266), (283, 18290), (285, 18299), (297, 18332), (299, 18338), (316, 18389), (322, 18407), (325, 18419), (328, 18428), (332, 18443), (334, 18449), (355, 18557), (357, 18569), (358, 18575), (362, 18590), (364, 18593), (372, 18614), (382, 18644), (385, 18656), (391, 18689), (404, 18755), (412, 18800), (413, 18803), (421, 18830), (423, 18836), (437, 18890), (438, 18893), (467, 18995), (469, 19007), (470, 19010), (481, 19076), (486, 19100), (489, 19121), (491, 19130), (506, 19190), (507, 19193), (515, 19229), (518, 19247), (525, 19268), (533, 19295), (550, 19364), (553, 19382), (556, 19391), (558, 19403), (565, 19439), (576, 19490), (581, 19508), (587, 19550), (595, 19604), (617, 19706), (634, 19784), (646, 19841), (650, 19865), (658, 19919), (664, 19967), (677, 20033), (678, 20036),

Gene: Vagabond_58 Start: 35926, Stop: 38436, Start Num: 63

Candidate Starts for Vagabond_58:

(Start: 63 @35926 has 33 MA's), (81, 35959), (111, 36028), (112, 36031), (121, 36055), (131, 36079), (141, 36103), (149, 36136), (206, 36343), (209, 36355), (210, 36358), (244, 36505), (247, 36535), (253, 36559), (262, 36589), (264, 36592), (271, 36619), (274, 36643), (284, 36673), (302, 36730), (307, 36754), (322, 36790), (325, 36802), (332, 36826), (333, 36829), (340, 36871), (362, 36967), (364, 36970), (430, 37225), (467, 37369), (478, 37429), (488, 37501), (489, 37504), (512, 37600), (553, 37774), (558, 37795), (579, 37888), (582, 37900), (595, 37990), (613, 38065), (633, 38110),

(670, 38311), (676, 38365), (681, 38380),

Gene: Veliki_27 Start: 20915, Stop: 23347, Start Num: 82

Candidate Starts for Veliki_27:

(Start: 82 @20915 has 96 MA's), (125, 21014), (210, 21275), (217, 21296), (260, 21503), (270, 21536), (275, 21566), (301, 21638), (306, 21662), (323, 21707), (355, 21860), (363, 21905), (366, 21917), (370, 21926), (385, 21977), (421, 22157), (426, 22172), (441, 22241), (445, 22253), (470, 22358), (478, 22397), (479, 22403), (480, 22412), (496, 22493), (508, 22541), (527, 22616), (536, 22652), (557, 22733), (562, 22754), (580, 22847), (595, 22943), (628, 23090), (634, 23132), (643, 23171), (655, 23246),

Gene: Veteran_18 Start: 17402, Stop: 19939, Start Num: 53

Candidate Starts for Veteran_18:

(Start: 53 @17402 has 233 MA's), (62, 17423), (Start: 72 @17444 has 1 MA's), (90, 17483), (129, 17552), (130, 17561), (131, 17564), (139, 17582), (149, 17615), (152, 17630), (198, 17783), (201, 17792), (217, 17837), (239, 17936), (240, 17939), (253, 18005), (271, 18080), (273, 18086), (283, 18128), (284, 18134), (285, 18137), (297, 18170), (299, 18176), (306, 18206), (316, 18227), (325, 18257), (328, 18266), (332, 18281), (333, 18284), (355, 18395), (356, 18398), (357, 18407), (358, 18413), (362, 18428), (364, 18431), (372, 18452), (382, 18482), (385, 18494), (391, 18527), (412, 18638), (413, 18641), (421, 18668), (423, 18674), (437, 18728), (438, 18731), (465, 18818), (467, 18833), (469, 18845), (470, 18848), (481, 18914), (486, 18938), (489, 18959), (491, 18968), (502, 19010), (506, 19028), (507, 19031), (513, 19061), (518, 19085), (523, 19097), (525, 19106), (550, 19202), (553, 19220), (556, 19229), (558, 19241), (565, 19277), (570, 19307), (574, 19316), (576, 19328), (587, 19388), (595, 19442), (610, 19502), (617, 19544), (646, 19679), (650, 19703), (658, 19757), (664, 19805), (675, 19847), (677, 19871), (678, 19874),

Gene: Violac_19 Start: 17946, Stop: 20471, Start Num: 53

Candidate Starts for Violac_19:

(Start: 53 @17946 has 233 MA's), (62, 17967), (69, 17988), (94, 18027), (129, 18096), (130, 18105), (131, 18108), (139, 18126), (152, 18174), (167, 18222), (200, 18333), (201, 18336), (214, 18369), (217, 18381), (233, 18459), (247, 18525), (254, 18558), (267, 18612), (271, 18624), (283, 18672), (284, 18678), (285, 18681), (289, 18690), (300, 18723), (314, 18762), (316, 18765), (321, 18780), (322, 18783), (329, 18810), (331, 18816), (332, 18819), (333, 18822), (338, 18849), (341, 18867), (342, 18870), (357, 18945), (362, 18966), (364, 18969), (373, 18996), (382, 19020), (391, 19065), (392, 19068), (401, 19119), (413, 19182), (415, 19191), (422, 19215), (454, 19320), (455, 19323), (467, 19374), (468, 19380), (469, 19386), (470, 19389), (478, 19434), (480, 19449), (485, 19476), (489, 19500), (491, 19509), (506, 19569), (507, 19572), (508, 19584), (518, 19626), (523, 19638), (553, 19761), (566, 19824), (581, 19887), (591, 19962), (637, 20163), (664, 20334), (674, 20373), (680, 20412), (681, 20415),

Gene: Vivum_18 Start: 17344, Stop: 19881, Start Num: 53

Candidate Starts for Vivum_18:

(Start: 53 @17344 has 233 MA's), (62, 17365), (Start: 72 @17386 has 1 MA's), (90, 17425), (129, 17494), (130, 17503), (131, 17506), (139, 17524), (152, 17572), (198, 17725), (201, 17734), (217, 17779), (239, 17878), (240, 17881), (253, 17947), (271, 18022), (273, 18028), (274, 18046), (283, 18070), (284, 18076), (285, 18079), (297, 18112), (299, 18118), (306, 18148), (316, 18169), (325, 18199), (328, 18208), (332, 18223), (333, 18226), (355, 18337), (356, 18340), (357, 18349), (358, 18355), (362, 18370), (364, 18373), (372, 18394), (382, 18424), (385, 18436), (391, 18469), (412, 18580), (413, 18583), (421, 18610), (423, 18616), (437, 18670), (438, 18673), (467, 18775), (469, 18787), (470, 18790), (481, 18856), (486, 18880), (489, 18901), (491, 18910), (506, 18970), (507, 18973), (515, 19009), (518, 19027), (523, 19039), (525, 19048), (533, 19075), (549, 19132), (550, 19144), (553, 19162), (556, 19171), (558, 19183), (565, 19219), (570, 19249), (574, 19258), (576, 19270), (587, 19330), (595, 19384), (610, 19444), (617, 19486), (646, 19621), (650, 19645), (658,

19699), (664, 19747), (675, 19789), (677, 19813), (678, 19816),

Gene: Vorrps_58 Start: 36138, Stop: 38648, Start Num: 63

Candidate Starts for Vorrps_58:

(Start: 63 @36138 has 33 MA's), (81, 36171), (111, 36240), (112, 36243), (121, 36267), (131, 36291), (141, 36315), (149, 36348), (206, 36555), (209, 36567), (210, 36570), (244, 36717), (247, 36747), (253, 36771), (262, 36801), (264, 36804), (271, 36831), (274, 36855), (284, 36885), (302, 36942), (307, 36966), (322, 37002), (325, 37014), (332, 37038), (333, 37041), (340, 37083), (362, 37179), (364, 37182), (430, 37437), (467, 37581), (478, 37641), (488, 37713), (489, 37716), (512, 37812), (553, 37986), (558, 38007), (579, 38100), (582, 38112), (595, 38202), (613, 38277), (633, 38322), (670, 38523), (676, 38577), (681, 38592),

Gene: Wachhund_18 Start: 17422, Stop: 19959, Start Num: 53

Candidate Starts for Wachhund_18:

(Start: 53 @17422 has 233 MA's), (62, 17443), (Start: 72 @17464 has 1 MA's), (90, 17503), (129, 17572), (130, 17581), (131, 17584), (139, 17602), (152, 17650), (200, 17809), (201, 17812), (217, 17857), (233, 17935), (239, 17956), (240, 17959), (253, 18025), (271, 18100), (273, 18106), (283, 18148), (284, 18154), (285, 18157), (297, 18190), (299, 18196), (306, 18226), (316, 18247), (325, 18277), (328, 18286), (350, 18394), (355, 18415), (356, 18418), (357, 18427), (358, 18433), (362, 18448), (364, 18451), (372, 18472), (382, 18502), (385, 18514), (391, 18547), (412, 18658), (413, 18661), (421, 18688), (423, 18694), (437, 18748), (438, 18751), (465, 18838), (467, 18853), (469, 18865), (470, 18868), (481, 18934), (489, 18979), (491, 18988), (506, 19048), (507, 19051), (515, 19087), (518, 19105), (523, 19117), (525, 19126), (533, 19153), (550, 19222), (553, 19240), (556, 19249), (558, 19261), (565, 19297), (570, 19327), (576, 19348), (583, 19372), (587, 19408), (595, 19462), (610, 19522), (617, 19564), (646, 19699), (650, 19723), (658, 19777), (664, 19825), (675, 19867), (677, 19891), (678, 19894),

Gene: Wanda_39 Start: 29807, Stop: 32362, Start Num: 53

Candidate Starts for Wanda_39:

(Start: 53 @29807 has 233 MA's), (139, 30002), (149, 30038), (152, 30053), (167, 30101), (200, 30212), (201, 30215), (213, 30245), (217, 30260), (233, 30338), (240, 30362), (253, 30428), (262, 30473), (271, 30503), (273, 30509), (274, 30527), (283, 30551), (285, 30560), (297, 30593), (299, 30599), (306, 30629), (322, 30668), (325, 30680), (328, 30689), (332, 30704), (333, 30707), (355, 30818), (356, 30821), (357, 30830), (358, 30836), (362, 30851), (364, 30854), (372, 30875), (382, 30905), (385, 30917), (391, 30950), (404, 31016), (412, 31061), (413, 31064), (421, 31091), (423, 31097), (437, 31151), (438, 31154), (465, 31241), (467, 31256), (469, 31268), (470, 31271), (481, 31337), (489, 31382), (491, 31391), (506, 31451), (507, 31454), (515, 31490), (518, 31508), (523, 31520), (525, 31529), (533, 31556), (550, 31625), (553, 31643), (556, 31652), (558, 31664), (565, 31700), (570, 31730), (576, 31751), (583, 31775), (587, 31811), (595, 31865), (610, 31925), (617, 31967), (646, 32102), (650, 32126), (658, 32180), (664, 32228), (675, 32270), (677, 32294), (678, 32297),

Gene: Wee_19 Start: 17971, Stop: 20508, Start Num: 53

Candidate Starts for Wee_19:

(47, 17959), (Start: 53 @17971 has 233 MA's), (62, 17992), (Start: 72 @18013 has 1 MA's), (90, 18052), (129, 18121), (130, 18130), (131, 18133), (139, 18151), (149, 18184), (152, 18199), (167, 18247), (198, 18352), (200, 18358), (201, 18361), (216, 18403), (217, 18406), (233, 18484), (253, 18574), (262, 18619), (271, 18649), (273, 18655), (274, 18673), (283, 18697), (285, 18706), (297, 18739), (299, 18745), (306, 18775), (322, 18814), (325, 18826), (328, 18835), (332, 18850), (333, 18853), (355, 18964), (356, 18967), (357, 18976), (358, 18982), (362, 18997), (364, 19000), (372, 19021), (382, 19051), (385, 19063), (391, 19096), (404, 19162), (412, 19207), (413, 19210), (421, 19237), (423, 19243), (437, 19297), (438, 19300), (465, 19387), (467, 19402), (469, 19414), (470, 19417), (481, 19483), (489, 19528), (491, 19537), (506, 19597), (507, 19600), (515, 19636), (518,

19654), (523, 19666), (525, 19675), (533, 19702), (550, 19771), (553, 19789), (556, 19798), (558, 19810), (565, 19846), (570, 19876), (576, 19897), (583, 19921), (587, 19957), (595, 20011), (610, 20071), (617, 20113), (646, 20248), (650, 20272), (658, 20326), (664, 20374), (675, 20416), (677, 20440), (678, 20443),

Gene: Weirido19_22 Start: 19521, Stop: 21416, Start Num: 225

Candidate Starts for Weirido19_22:

(224, 19515), (225, 19521), (249, 19635), (252, 19647), (294, 19758), (300, 19779), (308, 19800), (320, 19818), (354, 19962), (356, 19971), (360, 19986), (385, 20070), (406, 20175), (418, 20232), (421, 20247), (424, 20256), (425, 20259), (427, 20265), (451, 20337), (457, 20361), (463, 20376), (486, 20490), (489, 20511), (514, 20616), (526, 20667), (528, 20679), (535, 20703), (564, 20808), (567, 20829), (584, 20898), (590, 20964), (595, 20988), (644, 21234), (654, 21297), (661, 21357), (663, 21387), (667, 21393), (669, 21405),

Gene: Whatsapiecost_18 Start: 17447, Stop: 19984, Start Num: 53

Candidate Starts for Whatsapiecost_18:

(47, 17435), (Start: 53 @17447 has 233 MA's), (62, 17468), (Start: 72 @17489 has 1 MA's), (90, 17528), (129, 17597), (130, 17606), (131, 17609), (139, 17627), (149, 17660), (152, 17675), (167, 17723), (200, 17834), (201, 17837), (213, 17867), (216, 17879), (217, 17882), (233, 17960), (240, 17984), (253, 18050), (262, 18095), (271, 18125), (273, 18131), (274, 18149), (283, 18173), (285, 18182), (297, 18215), (299, 18221), (306, 18251), (322, 18290), (325, 18302), (328, 18311), (332, 18326), (333, 18329), (355, 18440), (356, 18443), (357, 18452), (358, 18458), (362, 18473), (364, 18476), (372, 18497), (382, 18527), (385, 18539), (391, 18572), (412, 18683), (413, 18686), (421, 18713), (423, 18719), (437, 18773), (438, 18776), (467, 18878), (469, 18890), (470, 18893), (481, 18959), (486, 18983), (489, 19004), (491, 19013), (506, 19073), (507, 19076), (515, 19112), (518, 19130), (523, 19142), (525, 19151), (533, 19178), (550, 19247), (553, 19265), (556, 19274), (558, 19286), (565, 19322), (570, 19352), (576, 19373), (583, 19397), (587, 19433), (595, 19487), (610, 19547), (617, 19589), (634, 19667), (646, 19724), (650, 19748), (658, 19802), (664, 19850), (675, 19892), (677, 19916), (678, 19919),

Gene: Whouxphf_18 Start: 17504, Stop: 20041, Start Num: 53

Candidate Starts for Whouxphf_18:

(Start: 53 @17504 has 233 MA's), (62, 17525), (Start: 72 @17546 has 1 MA's), (90, 17585), (129, 17654), (130, 17663), (131, 17666), (139, 17684), (152, 17732), (200, 17891), (201, 17894), (217, 17939), (239, 18038), (240, 18041), (271, 18182), (273, 18188), (283, 18230), (284, 18236), (285, 18239), (297, 18272), (299, 18278), (306, 18308), (316, 18329), (325, 18359), (328, 18368), (350, 18476), (353, 18488), (355, 18497), (356, 18500), (357, 18509), (358, 18515), (362, 18530), (364, 18533), (372, 18554), (385, 18596), (391, 18629), (421, 18770), (423, 18776), (437, 18830), (438, 18833), (449, 18860), (467, 18935), (469, 18947), (470, 18950), (481, 19016), (486, 19040), (489, 19061), (491, 19070), (502, 19112), (506, 19130), (507, 19133), (513, 19163), (518, 19187), (525, 19208), (550, 19304), (553, 19322), (556, 19331), (558, 19343), (565, 19379), (570, 19409), (574, 19418), (576, 19430), (587, 19490), (617, 19646), (634, 19724), (646, 19781), (650, 19805), (658, 19859), (664, 19907), (672, 19928), (677, 19973), (678, 19976),

Gene: Wiggin_29 Start: 22788, Stop: 25184, Start Num: 99

Candidate Starts for Wiggin_29:

(Start: 99 @22788 has 127 MA's), (164, 22965), (170, 22986), (225, 23133), (261, 23307), (271, 23340), (277, 23376), (306, 23469), (328, 23529), (333, 23547), (359, 23679), (374, 23724), (404, 23856), (412, 23901), (433, 23961), (464, 24075), (467, 24096), (475, 24135), (478, 24156), (480, 24171), (513, 24321), (515, 24327), (518, 24345), (534, 24399), (553, 24483), (574, 24576), (628, 24822), (664, 25038), (678, 25122), (684, 25155),

Gene: Wildcat_43 Start: 28342, Stop: 30909, Start Num: 54

Candidate Starts for Wildcat_43:

(Start: 54 @28342 has 6 MA's), (83, 28411), (135, 28534), (138, 28540), (139, 28543), (146, 28567), (151, 28588), (198, 28744), (199, 28750), (201, 28756), (210, 28786), (211, 28792), (217, 28813), (219, 28822), (232, 28882), (248, 28960), (273, 29059), (278, 29092), (284, 29107), (285, 29110), (299, 29149), (316, 29200), (322, 29218), (328, 29239), (329, 29245), (336, 29272), (340, 29299), (355, 29368), (361, 29392), (367, 29413), (374, 29434), (378, 29443), (385, 29464), (391, 29497), (392, 29500), (401, 29551), (404, 29563), (419, 29629), (424, 29647), (434, 29686), (467, 29803), (476, 29848), (485, 29905), (489, 29929), (491, 29938), (494, 29956), (506, 30001), (513, 30034), (520, 30070), (563, 30244), (565, 30262), (566, 30268), (580, 30325), (645, 30649), (647, 30667), (656, 30718), (666, 30781), (677, 30856),

Gene: Wildflower_58 Start: 35650, Stop: 38160, Start Num: 63

Candidate Starts for Wildflower_58:

(Start: 63 @35650 has 33 MA's), (81, 35683), (111, 35752), (112, 35755), (121, 35779), (131, 35803), (141, 35827), (149, 35860), (206, 36067), (209, 36079), (210, 36082), (244, 36229), (247, 36259), (253, 36283), (262, 36313), (264, 36316), (271, 36343), (274, 36367), (284, 36397), (302, 36454), (322, 36514), (325, 36526), (332, 36550), (333, 36553), (340, 36595), (362, 36691), (364, 36694), (430, 36949), (467, 37093), (478, 37153), (488, 37225), (489, 37228), (512, 37324), (553, 37498), (558, 37519), (579, 37612), (582, 37624), (595, 37714), (613, 37789), (633, 37834), (670, 38035), (676, 38089), (681, 38104),

Gene: WillSterrel_19 Start: 18757, Stop: 21294, Start Num: 53

Candidate Starts for WillSterrel_19:

(Start: 53 @18757 has 233 MA's), (62, 18778), (Start: 72 @18799 has 1 MA's), (90, 18838), (129, 18907), (130, 18916), (131, 18919), (139, 18937), (152, 18985), (198, 19138), (201, 19147), (217, 19192), (239, 19291), (240, 19294), (253, 19360), (271, 19435), (273, 19441), (274, 19459), (283, 19483), (284, 19489), (285, 19492), (297, 19525), (299, 19531), (306, 19561), (316, 19582), (325, 19612), (328, 19621), (332, 19636), (333, 19639), (355, 19750), (356, 19753), (357, 19762), (358, 19768), (362, 19783), (364, 19786), (372, 19807), (382, 19837), (385, 19849), (391, 19882), (412, 19993), (413, 19996), (421, 20023), (423, 20029), (437, 20083), (438, 20086), (465, 20173), (467, 20188), (469, 20200), (470, 20203), (481, 20269), (486, 20293), (489, 20314), (491, 20323), (506, 20383), (507, 20386), (515, 20422), (518, 20440), (523, 20452), (525, 20461), (533, 20488), (549, 20545), (550, 20557), (553, 20575), (556, 20584), (558, 20596), (565, 20632), (570, 20662), (574, 20671), (576, 20683), (587, 20743), (595, 20797), (610, 20857), (617, 20899), (646, 21034), (650, 21058), (658, 21112), (664, 21160), (675, 21202), (677, 21226), (678, 21229),

Gene: Willez_25 Start: 21788, Stop: 24184, Start Num: 99

Candidate Starts for Willez_25:

(Start: 99 @21788 has 127 MA's), (164, 21965), (170, 21986), (225, 22133), (254, 22274), (261, 22307), (271, 22340), (277, 22376), (306, 22469), (328, 22529), (333, 22547), (359, 22679), (374, 22724), (404, 22856), (412, 22901), (433, 22961), (464, 23075), (467, 23096), (475, 23135), (478, 23156), (480, 23171), (513, 23321), (515, 23327), (518, 23345), (534, 23399), (553, 23483), (574, 23576), (628, 23822), (664, 24038), (678, 24122), (684, 24155),

Gene: Winget_59 Start: 36356, Stop: 38866, Start Num: 63

Candidate Starts for Winget_59:

(Start: 63 @36356 has 33 MA's), (81, 36389), (111, 36458), (112, 36461), (121, 36485), (131, 36509), (141, 36533), (149, 36566), (206, 36773), (209, 36785), (210, 36788), (244, 36935), (247, 36965), (253, 36989), (262, 37019), (264, 37022), (271, 37049), (274, 37073), (284, 37103), (302, 37160), (307, 37184), (322, 37220), (325, 37232), (332, 37256), (333, 37259), (340, 37301), (362, 37397), (364, 37400), (430, 37655), (467, 37799), (478, 37859), (488, 37931), (489, 37934), (512, 38030), (553, 38204), (558, 38225), (579, 38318), (582, 38330), (595, 38420), (613, 38495), (633, 38540), (670, 38741), (676, 38795), (681, 38810),

Gene: Wogge42_57 Start: 35797, Stop: 38307, Start Num: 63

Candidate Starts for Wogge42_57:

(Start: 63 @35797 has 33 MA's), (81, 35830), (111, 35899), (112, 35902), (121, 35926), (131, 35950), (141, 35974), (149, 36007), (206, 36214), (209, 36226), (210, 36229), (244, 36376), (247, 36406), (253, 36430), (262, 36460), (264, 36463), (271, 36490), (274, 36514), (284, 36544), (302, 36601), (307, 36625), (322, 36661), (325, 36673), (332, 36697), (333, 36700), (340, 36742), (362, 36838), (364, 36841), (430, 37096), (467, 37240), (478, 37300), (488, 37372), (489, 37375), (512, 37471), (553, 37645), (558, 37666), (579, 37759), (582, 37771), (595, 37861), (613, 37936), (633, 37981), (670, 38182), (676, 38236), (681, 38251),

Gene: XFactor_18 Start: 17403, Stop: 19940, Start Num: 53

Candidate Starts for XFactor_18:

(47, 17391), (Start: 53 @17403 has 233 MA's), (62, 17424), (Start: 72 @17445 has 1 MA's), (90, 17484), (129, 17553), (130, 17562), (131, 17565), (139, 17583), (149, 17616), (152, 17631), (167, 17679), (200, 17790), (201, 17793), (213, 17823), (217, 17838), (233, 17916), (240, 17940), (253, 18006), (262, 18051), (271, 18081), (273, 18087), (274, 18105), (283, 18129), (285, 18138), (297, 18171), (299, 18177), (306, 18207), (322, 18246), (325, 18258), (328, 18267), (332, 18282), (333, 18285), (355, 18396), (356, 18399), (357, 18408), (358, 18414), (362, 18429), (364, 18432), (372, 18453), (382, 18483), (385, 18495), (391, 18528), (412, 18639), (413, 18642), (421, 18669), (423, 18675), (437, 18729), (438, 18732), (467, 18834), (469, 18846), (470, 18849), (481, 18915), (486, 18939), (489, 18960), (491, 18969), (506, 19029), (507, 19032), (515, 19068), (518, 19086), (523, 19098), (525, 19107), (533, 19134), (550, 19203), (553, 19221), (556, 19230), (558, 19242), (565, 19278), (570, 19308), (576, 19329), (583, 19353), (587, 19389), (595, 19443), (610, 19503), (617, 19545), (634, 19623), (646, 19680), (650, 19704), (658, 19758), (664, 19806), (675, 19848), (677, 19872), (678, 19875),

Gene: Xandras_28 Start: 22274, Stop: 24670, Start Num: 99

Candidate Starts for Xandras_28:

(Start: 99 @22274 has 127 MA's), (164, 22451), (170, 22472), (225, 22619), (261, 22793), (271, 22826), (277, 22862), (306, 22955), (328, 23015), (333, 23033), (359, 23165), (374, 23210), (404, 23342), (412, 23387), (433, 23447), (464, 23561), (467, 23582), (475, 23621), (478, 23642), (480, 23657), (513, 23807), (515, 23813), (518, 23831), (534, 23885), (553, 23969), (574, 24062), (628, 24308), (664, 24524), (678, 24608), (684, 24641),

Gene: YangYin_22 Start: 20852, Stop: 23308, Start Num: 33

Candidate Starts for YangYin_22:

(Start: 33 @20852 has 9 MA's), (87, 20996), (131, 21080), (142, 21110), (159, 21155), (213, 21314), (239, 21431), (308, 21653), (327, 21704), (353, 21821), (371, 21887), (393, 21971), (415, 22085), (437, 22175), (440, 22190), (442, 22196), (446, 22205), (454, 22244), (461, 22271), (465, 22283), (476, 22343), (478, 22358), (495, 22454), (500, 22466), (508, 22505), (544, 22640), (556, 22682), (562, 22709), (581, 22808), (603, 22946), (635, 23102), (659, 23246), (665, 23288),

Gene: YassJohnny_27 Start: 22799, Stop: 25195, Start Num: 99

Candidate Starts for YassJohnny_27:

(Start: 99 @22799 has 127 MA's), (164, 22976), (170, 22997), (225, 23144), (254, 23285), (261, 23318), (271, 23351), (277, 23387), (306, 23480), (328, 23540), (333, 23558), (359, 23690), (374, 23735), (404, 23867), (412, 23912), (464, 24086), (467, 24107), (475, 24146), (478, 24167), (480, 24182), (515, 24338), (518, 24356), (534, 24410), (553, 24494), (574, 24587), (628, 24833), (664, 25049), (678, 25133), (684, 25166),

Gene: Yorick_18 Start: 17404, Stop: 19956, Start Num: 53

Candidate Starts for Yorick_18:

(Start: 53 @17404 has 233 MA's), (94, 17485), (129, 17554), (130, 17563), (131, 17566), (139, 17584), (152, 17632), (166, 17677), (200, 17791), (201, 17794), (205, 17806), (214, 17827), (216, 17836), (217, 17839), (228, 17887), (233, 17917), (247, 17983), (254, 18016), (262, 18052), (269, 18076), (284, 18136), (285, 18139), (292, 18157), (314, 18220), (316, 18223), (322, 18241), (328, 18262), (333, 18280), (338, 18307), (342, 18328), (349, 18361), (357, 18403), (358, 18409), (359, 18412), (364, 18427), (373, 18454), (374, 18457), (382, 18478), (385, 18490), (391, 18523), (409, 18616), (437, 18724), (443, 18748), (449, 18754), (453, 18772), (454, 18775), (460, 18799), (467, 18829), (472, 18853), (478, 18889), (479, 18895), (480, 18904), (485, 18931), (498, 18994), (502, 19018), (504, 19033), (513, 19075), (527, 19126), (551, 19222), (553, 19237), (556, 19246), (561, 19270), (574, 19333), (583, 19369), (642, 19675), (650, 19720), (664, 19822),

Gene: Yoshi_24 Start: 17092, Stop: 19641, Start Num: 39

Candidate Starts for Yoshi_24:

(36, 17083), (Start: 39 @17092 has 7 MA's), (Start: 53 @17152 has 233 MA's), (65, 17185), (67, 17188), (107, 17257), (118, 17287), (186, 17467), (191, 17482), (201, 17518), (203, 17524), (215, 17545), (220, 17569), (227, 17593), (259, 17740), (262, 17749), (271, 17773), (274, 17797), (283, 17821), (284, 17827), (292, 17848), (299, 17869), (306, 17899), (319, 17929), (325, 17950), (346, 18043), (349, 18058), (350, 18067), (355, 18088), (356, 18091), (382, 18175), (383, 18178), (385, 18187), (392, 18223), (399, 18262), (402, 18283), (404, 18286), (411, 18322), (415, 18343), (437, 18421), (438, 18424), (456, 18478), (469, 18538), (484, 18625), (486, 18631), (488, 18649), (489, 18652), (501, 18688), (511, 18742), (513, 18751), (532, 18829), (536, 18847), (545, 18883), (547, 18886), (550, 18904), (551, 18907), (553, 18922), (565, 18979), (568, 18991), (583, 19054), (587, 19087), (600, 19174), (612, 19222), (615, 19246), (623, 19273), (628, 19282), (633, 19321), (641, 19360), (646, 19384), (649, 19405), (664, 19501), (672, 19522), (681, 19585), (684, 19612), (685, 19621),

Gene: Youngblood_26 Start: 22452, Stop: 24848, Start Num: 99

Candidate Starts for Youngblood_26:

(Start: 99 @22452 has 127 MA's), (164, 22629), (170, 22650), (225, 22797), (254, 22938), (261, 22971), (271, 23004), (277, 23040), (306, 23133), (328, 23193), (333, 23211), (359, 23343), (374, 23388), (404, 23520), (412, 23565), (433, 23625), (464, 23739), (467, 23760), (475, 23799), (478, 23820), (480, 23835), (515, 23991), (518, 24009), (534, 24063), (553, 24147), (574, 24240), (628, 24486), (664, 24702), (678, 24786), (684, 24819),

Gene: YoureAdopted_26 Start: 20848, Stop: 23280, Start Num: 82

Candidate Starts for YoureAdopted_26:

(Start: 82 @20848 has 96 MA's), (125, 20947), (210, 21208), (217, 21229), (260, 21436), (270, 21469), (275, 21499), (301, 21571), (306, 21595), (323, 21640), (355, 21793), (363, 21838), (366, 21850), (370, 21859), (385, 21910), (421, 22090), (426, 22105), (441, 22174), (445, 22186), (470, 22291), (478, 22330), (479, 22336), (480, 22345), (496, 22426), (508, 22474), (527, 22549), (536, 22585), (555, 22657), (557, 22666), (562, 22687), (580, 22780), (595, 22876), (628, 23023), (634, 23065), (643, 23104), (655, 23179),

Gene: YoyoKar_56 Start: 35640, Stop: 38150, Start Num: 63

Candidate Starts for YoyoKar_56:

(Start: 63 @35640 has 33 MA's), (81, 35673), (111, 35742), (112, 35745), (121, 35769), (131, 35793), (141, 35817), (149, 35850), (206, 36057), (209, 36069), (210, 36072), (244, 36219), (247, 36249), (253, 36273), (262, 36303), (264, 36306), (271, 36333), (274, 36357), (284, 36387), (302, 36444), (307, 36468), (322, 36504), (325, 36516), (332, 36540), (333, 36543), (340, 36585), (362, 36681), (364, 36684), (430, 36939), (467, 37083), (478, 37143), (488, 37215), (489, 37218), (512, 37314), (553, 37488), (558, 37509), (579, 37602), (582, 37614), (595, 37704), (613, 37779), (633, 37824), (670, 38025), (676, 38079), (681, 38094),

Gene: YungJamal_63 Start: 37548, Stop: 40058, Start Num: 63

Candidate Starts for YungJamal_63:

(Start: 63 @37548 has 33 MA's), (81, 37581), (111, 37650), (112, 37653), (121, 37677), (131, 37701), (141, 37725), (149, 37758), (206, 37965), (209, 37977), (210, 37980), (244, 38127), (247, 38157), (253, 38181), (262, 38211), (264, 38214), (271, 38241), (274, 38265), (284, 38295), (302, 38352), (322, 38412), (325, 38424), (332, 38448), (333, 38451), (340, 38493), (362, 38589), (364, 38592), (430, 38847), (467, 38991), (478, 39051), (488, 39123), (489, 39126), (512, 39222), (553, 39396), (558, 39417), (579, 39510), (582, 39522), (595, 39612), (613, 39687), (633, 39732), (670, 39933), (676, 39987), (681, 40002),

Gene: Yunkel11_27 Start: 20098, Stop: 22530, Start Num: 82

Candidate Starts for Yunkel11_27:

(Start: 82 @20098 has 96 MA's), (103, 20146), (104, 20149), (109, 20158), (210, 20458), (217, 20479), (270, 20719), (301, 20821), (306, 20845), (308, 20851), (323, 20890), (355, 21043), (366, 21100), (370, 21109), (385, 21160), (423, 21346), (426, 21355), (428, 21361), (437, 21406), (441, 21424), (461, 21499), (470, 21541), (478, 21580), (479, 21586), (480, 21595), (484, 21616), (493, 21664), (506, 21709), (508, 21724), (525, 21793), (536, 21835), (557, 21916), (575, 22009), (580, 22030), (595, 22126), (643, 22354), (652, 22408), (655, 22429), (665, 22501), (671, 22519),

Gene: Zabiza_27 Start: 20879, Stop: 23311, Start Num: 82

Candidate Starts for Zabiza_27:

(Start: 82 @20879 has 96 MA's), (125, 20978), (210, 21239), (217, 21260), (260, 21467), (270, 21500), (275, 21530), (301, 21602), (306, 21626), (323, 21671), (355, 21824), (363, 21869), (366, 21881), (370, 21890), (385, 21941), (421, 22121), (426, 22136), (441, 22205), (445, 22217), (470, 22322), (478, 22361), (479, 22367), (480, 22376), (496, 22457), (508, 22505), (527, 22580), (536, 22616), (557, 22697), (562, 22718), (580, 22811), (595, 22907), (628, 23054), (634, 23096), (643, 23135), (655, 23210),

Gene: Zakhe101_58 Start: 36194, Stop: 38704, Start Num: 63

Candidate Starts for Zakhe101_58:

(Start: 63 @36194 has 33 MA's), (81, 36227), (111, 36296), (112, 36299), (121, 36323), (131, 36347), (141, 36371), (149, 36404), (206, 36611), (209, 36623), (210, 36626), (244, 36773), (247, 36803), (253, 36827), (262, 36857), (264, 36860), (271, 36887), (274, 36911), (284, 36941), (302, 36998), (322, 37058), (325, 37070), (332, 37094), (333, 37097), (340, 37139), (362, 37235), (364, 37238), (430, 37493), (467, 37637), (478, 37697), (488, 37769), (489, 37772), (512, 37868), (553, 38042), (558, 38063), (579, 38156), (582, 38168), (595, 38258), (613, 38333), (633, 38378), (670, 38579), (676, 38633), (681, 38648),

Gene: Zapner_25 Start: 17617, Stop: 20169, Start Num: 39

Candidate Starts for Zapner_25:

(36, 17608), (Start: 39 @17617 has 7 MA's), (Start: 53 @17677 has 233 MA's), (67, 17713), (118, 17812), (167, 17953), (186, 17992), (191, 18007), (201, 18043), (203, 18049), (204, 18052), (215, 18070), (220, 18094), (227, 18118), (228, 18121), (259, 18265), (262, 18274), (271, 18298), (274, 18322), (283, 18346), (284, 18352), (292, 18373), (293, 18376), (299, 18394), (306, 18427), (319, 18457), (325, 18478), (346, 18571), (349, 18586), (350, 18595), (355, 18616), (356, 18619), (367, 18661), (382, 18703), (383, 18706), (385, 18715), (390, 18742), (392, 18751), (399, 18790), (402, 18811), (404, 18814), (411, 18850), (415, 18871), (437, 18949), (438, 18952), (456, 19006), (469, 19066), (484, 19153), (486, 19159), (489, 19180), (501, 19216), (511, 19270), (513, 19279), (532, 19357), (536, 19375), (545, 19411), (547, 19414), (550, 19432), (553, 19450), (565, 19507), (568, 19519), (583, 19582), (587, 19615), (600, 19702), (612, 19750), (615, 19774), (628, 19810), (633, 19849), (641, 19888), (646, 19912), (649, 19933), (664, 20029), (672, 20050), (679, 20110), (681, 20113), (684, 20140),

Gene: Zavala_27 Start: 20854, Stop: 23286, Start Num: 82

Candidate Starts for Zavala_27:

(Start: 82 @20854 has 96 MA's), (125, 20953), (210, 21214), (217, 21235), (260, 21442), (270, 21475), (275, 21505), (301, 21577), (306, 21601), (323, 21646), (355, 21799), (363, 21844), (366, 21856), (370, 21865), (385, 21916), (421, 22096), (426, 22111), (441, 22180), (445, 22192), (461, 22255), (470, 22297), (478, 22336), (479, 22342), (480, 22351), (484, 22372), (496, 22432), (525, 22549), (536, 22591), (555, 22663), (557, 22672), (562, 22693), (575, 22765), (580, 22786), (595, 22882), (609, 22945), (643, 23110), (665, 23257),

Gene: Zebo_58 Start: 36099, Stop: 38609, Start Num: 63

Candidate Starts for Zebo_58:

(Start: 63 @36099 has 33 MA's), (81, 36132), (111, 36201), (112, 36204), (121, 36228), (131, 36252), (141, 36276), (149, 36309), (206, 36516), (209, 36528), (210, 36531), (244, 36678), (247, 36708), (253, 36732), (262, 36762), (264, 36765), (271, 36792), (274, 36816), (284, 36846), (302, 36903), (307, 36927), (322, 36963), (325, 36975), (332, 36999), (333, 37002), (340, 37044), (362, 37140), (364, 37143), (430, 37398), (467, 37542), (478, 37602), (488, 37674), (489, 37677), (512, 37773), (553, 37947), (558, 37968), (579, 38061), (582, 38073), (595, 38163), (613, 38238), (633, 38283), (670, 38484), (676, 38538), (681, 38553),

Gene: Zerg_18 Start: 17367, Stop: 19904, Start Num: 53

Candidate Starts for Zerg_18:

(Start: 53 @17367 has 233 MA's), (101, 17457), (129, 17517), (130, 17526), (131, 17529), (139, 17547), (152, 17595), (198, 17748), (201, 17757), (217, 17802), (239, 17901), (240, 17904), (253, 17970), (271, 18045), (273, 18051), (274, 18069), (283, 18093), (284, 18099), (285, 18102), (297, 18135), (299, 18141), (306, 18171), (316, 18192), (325, 18222), (328, 18231), (332, 18246), (333, 18249), (355, 18360), (356, 18363), (357, 18372), (358, 18378), (362, 18393), (364, 18396), (372, 18417), (382, 18447), (385, 18459), (391, 18492), (412, 18603), (413, 18606), (421, 18633), (423, 18639), (437, 18693), (438, 18696), (465, 18783), (467, 18798), (469, 18810), (470, 18813), (481, 18879), (486, 18903), (489, 18924), (491, 18933), (506, 18993), (507, 18996), (515, 19032), (518, 19050), (523, 19062), (525, 19071), (533, 19098), (549, 19155), (550, 19167), (553, 19185), (556, 19194), (558, 19206), (565, 19242), (570, 19272), (574, 19281), (576, 19293), (587, 19353), (595, 19407), (610, 19467), (617, 19509), (646, 19644), (650, 19668), (658, 19722), (664, 19770), (675, 19812), (677, 19836), (678, 19839),

Gene: Zizzle_18 Start: 17375, Stop: 19900, Start Num: 53

Candidate Starts for Zizzle_18:

(Start: 53 @17375 has 233 MA's), (94, 17456), (129, 17525), (130, 17534), (131, 17537), (139, 17555), (152, 17603), (166, 17648), (200, 17762), (201, 17765), (214, 17798), (217, 17810), (233, 17888), (247, 17954), (254, 17987), (267, 18041), (271, 18053), (284, 18107), (285, 18110), (289, 18119), (300, 18152), (314, 18191), (316, 18194), (321, 18209), (322, 18212), (329, 18239), (331, 18245), (332, 18248), (333, 18251), (338, 18278), (341, 18296), (342, 18299), (357, 18374), (362, 18395), (364, 18398), (373, 18425), (382, 18449), (391, 18494), (392, 18497), (401, 18548), (413, 18611), (415, 18620), (422, 18644), (454, 18749), (455, 18752), (467, 18803), (468, 18809), (469, 18815), (470, 18818), (478, 18863), (480, 18878), (485, 18905), (489, 18929), (502, 18980), (506, 18998), (507, 19001), (508, 19013), (523, 19067), (553, 19190), (566, 19253), (581, 19316), (591, 19391), (637, 19592), (674, 19802), (680, 19841), (681, 19844),

Gene: xkcd_27 Start: 22453, Stop: 24849, Start Num: 99

Candidate Starts for xkcd_27:

(Start: 99 @22453 has 127 MA's), (164, 22630), (170, 22651), (225, 22798), (254, 22939), (261, 22972), (271, 23005), (277, 23041), (306, 23134), (328, 23194), (333, 23212), (359, 23344), (374, 23389), (404, 23521), (412, 23566), (464, 23740), (467, 23761), (475, 23800), (478, 23821), (480, 23836), (515, 23992), (518, 24010), (534, 24064), (553, 24148), (574, 24241), (628, 24487), (664,

24703), (678, 24787), (684, 24820),