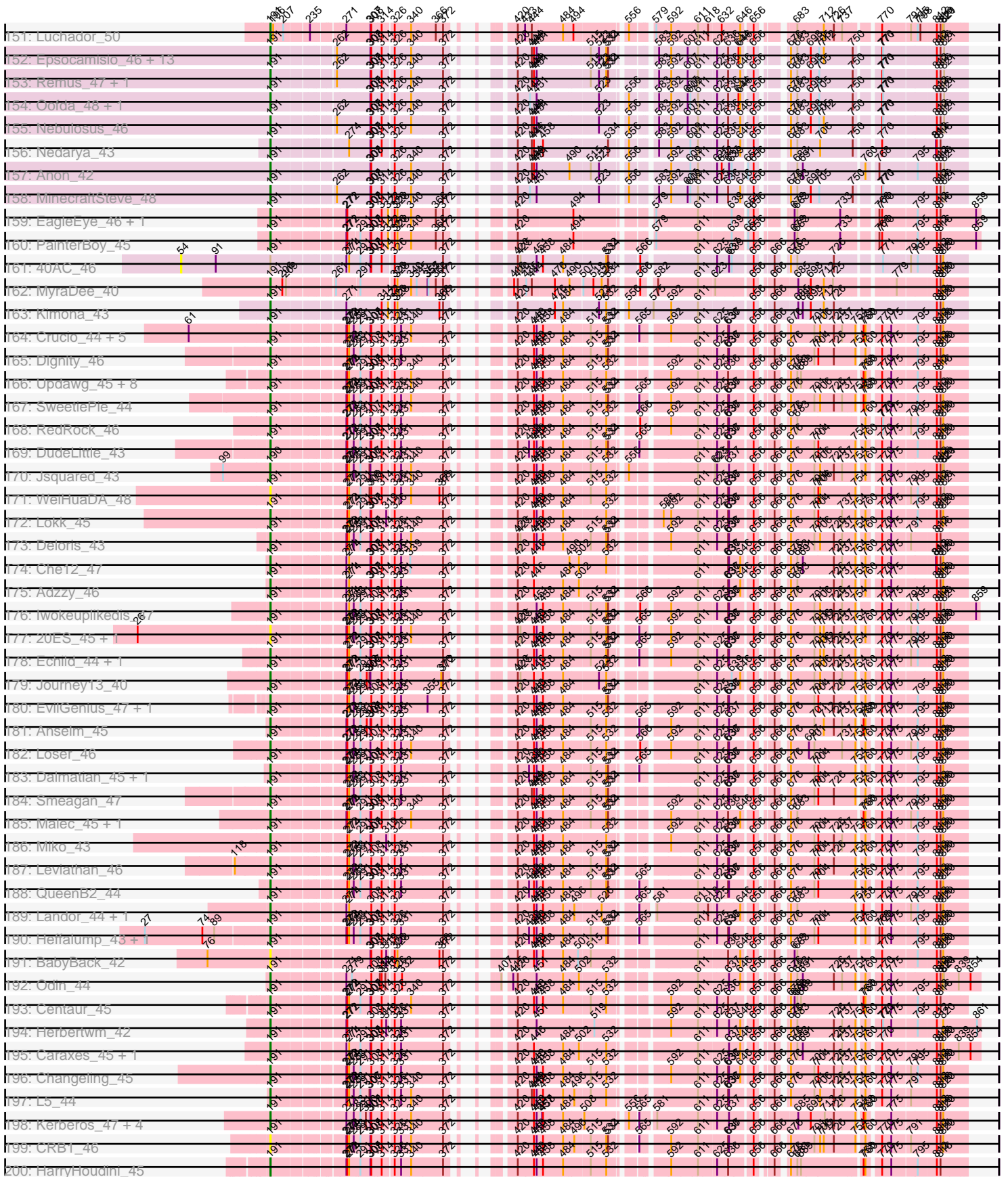
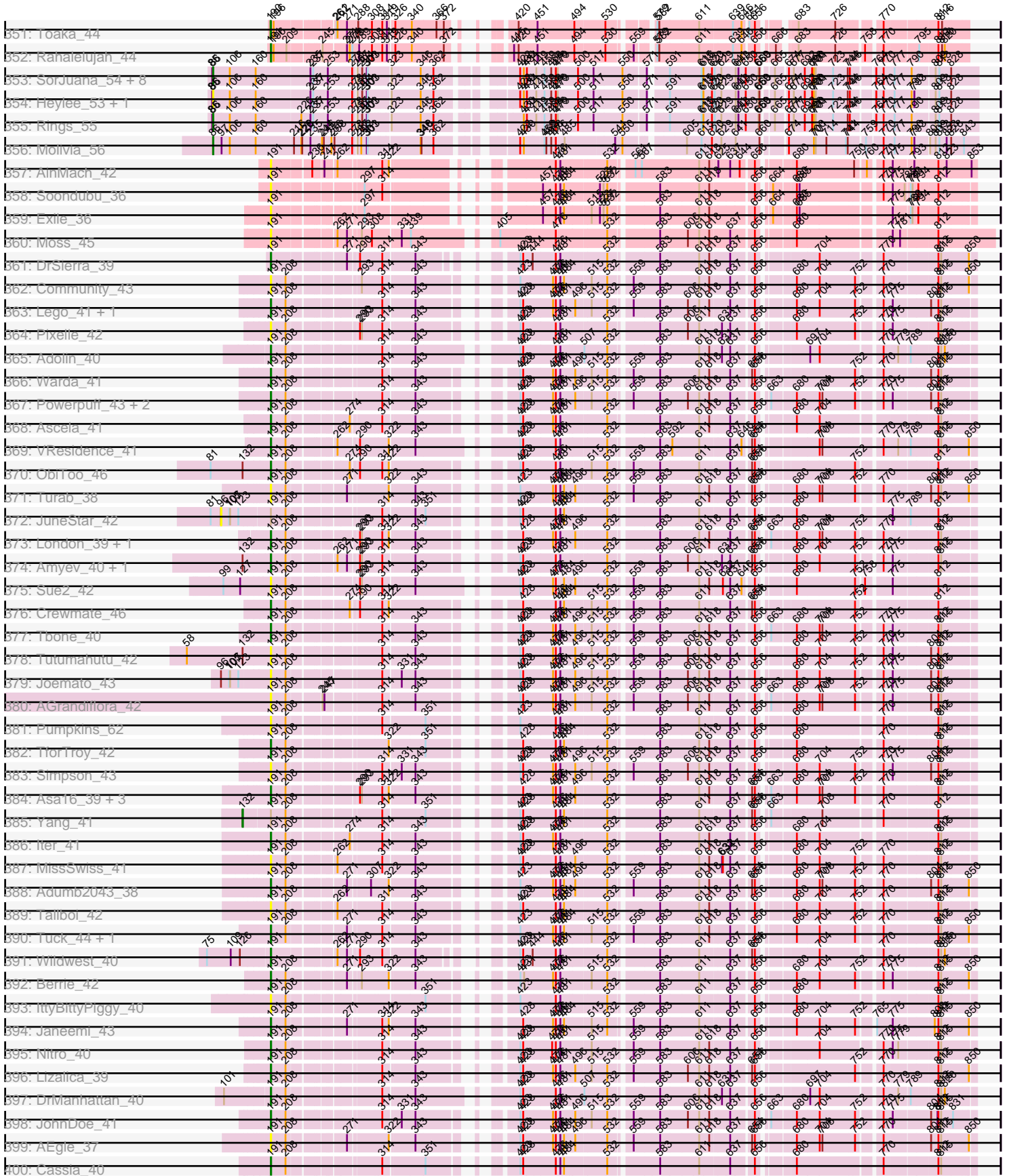


r01: Rutherford_47	01	21	31	35	40	46	47	49	51	52	54	56	61	63	67	68	71	74	75	82
r02: Papez_47	01	21	31	35	40	46	47	49	51	52	54	56	61	63	67	68	71	74	75	82
r03: Bircsak_44 + 1	01	21	31	35	40	46	47	49	51	52	54	56	61	63	67	68	71	74	75	82
r04: PattyP_45	01	21	31	35	40	46	47	49	51	52	54	56	61	63	67	68	71	74	75	82
r05: Nerujay_46	01	21	31	35	40	46	47	49	51	52	54	56	61	63	67	68	71	74	75	82
r06: Graduation_48	01	21	31	35	40	46	47	49	51	52	54	56	61	63	67	68	71	74	75	82
r07: Molly_45	01	21	31	35	40	46	47	49	51	52	54	56	61	63	67	68	71	74	75	82
r08: Ichabod_46	01	21	31	35	40	46	47	49	51	52	54	56	61	63	67	68	71	74	75	82
r09: RidgeCB_44	01	21	31	35	40	46	47	49	51	52	54	56	61	63	67	68	71	74	75	82
r10: UZ_43	01	21	31	35	40	46	47	49	51	52	54	56	61	63	67	68	71	74	75	82
r11: Ajay_45	01	21	31	35	40	46	47	49	51	52	54	56	61	63	67	68	71	74	75	82
r12: McGuire_45	01	21	31	35	40	46	47	49	51	52	54	56	61	63	67	68	71	74	75	82
r13: Freddie_46	01	21	31	35	40	46	47	49	51	52	54	56	61	63	67	68	71	74	75	82
r14: KBG_46	01	21	31	35	40	46	47	49	51	52	54	56	61	63	67	68	71	74	75	82
r15: Peterson_48	01	21	31	35	40	46	47	49	51	52	54	56	61	63	67	68	71	74	75	82
r16: Trait412_45	01	21	31	35	40	46	47	49	51	52	54	56	61	63	67	68	71	74	75	82
r17: MPiant7149_43	01	21	31	35	40	46	47	49	51	52	54	56	61	63	67	68	71	74	75	82
r18: Marsha_45	01	21	31	35	40	46	47	49	51	52	54	56	61	63	67	68	71	74	75	82
r19: Briton15_46	01	21	31	35	40	46	47	49	51	52	54	56	61	63	67	68	71	74	75	82
r20: Mule_42	01	21	31	35	40	46	47	49	51	52	54	56	61	63	67	68	71	74	75	82
r21: Marge_45	01	21	31	35	40	46	47	49	51	52	54	56	61	63	67	68	71	74	75	82
r22: Aisiro_48	01	21	31	35	40	46	47	49	51	52	54	56	61	63	67	68	71	74	75	82
r23: Pari_45	01	21	31	35	40	46	47	49	51	52	54	56	61	63	67	68	71	74	75	82
r24: Smeagol_46	01	21	31	35	40	46	47	49	51	52	54	56	61	63	67	68	71	74	75	82
r25: GageAP_45	01	21	31	35	40	46	47	49	51	52	54	56	61	63	67	68	71	74	75	82
r26: OKCentral2016_43	01	21	31	35	40	46	47	49	51	52	54	56	61	63	67	68	71	74	75	82
r27: Rebeuca_44 + 1	01	21	31	35	40	46	47	49	51	52	54	56	61	63	67	68	71	74	75	82
r28: Goose_44 + 1	01	21	31	35	40	46	47	49	51	52	54	56	61	63	67	68	71	74	75	82
r29: Twister_42 + 2	01	21	31	35	40	46	47	49	51	52	54	56	61	63	67	68	71	74	75	82
r30: Severus_42 + 4	01	21	31	35	40	46	47	49	51	52	54	56	61	63	67	68	71	74	75	82
r31: Poompha_43	01	21	31	35	40	46	47	49	51	52	54	56	61	63	67	68	71	74	75	82
r32: Eaglepride_45	01	21	31	35	40	46	47	49	51	52	54	56	61	63	67	68	71	74	75	82
r33: RhynO_45	01	21	31	35	40	46	47	49	51	52	54	56	61	63	67	68	71	74	75	82
r34: Edison31_42	01	21	31	35	40	46	47	49	51	52	54	56	61	63	67	68	71	74	75	82
r35: Sham4_44 + 5	01	21	31	35	40	46	47	49	51	52	54	56	61	63	67	68	71	74	75	82
r36: Insomnia_44 + 5	01	21	31	35	40	46	47	49	51	52	54	56	61	63	67	68	71	74	75	82
r37: TinyTimmy_44 + 4	01	21	31	35	40	46	47	49	51	52	54	56	61	63	67	68	71	74	75	82
r38: Aneem_45 + 4	01	21	31	35	40	46	47	49	51	52	54	56	61	63	67	68	71	74	75	82
r39: Jabith_45	01	21	31	35	40	46	47	49	51	52	54	56	61	63	67	68	71	74	75	82
r40: Et2Brutus_44	01	21	31	35	40	46	47	49	51	52	54	56	61	63	67	68	71	74	75	82
r41: Bud_44	01	21	31	35	40	46	47	49	51	52	54	56	61	63	67	68	71	74	75	82
r42: Refuge_44	01	21	31	35	40	46	47	49	51	52	54	56	61	63	67	68	71	74	75	82
r43: Steamy_41	01	21	31	35	40	46	47	49	51	52	54	56	61	63	67	68	71	74	75	82
r44: Zimmer_42	01	21	31	35	40	46	47	49	51	52	54	56	61	63	67	68	71	74	75	82
r45: DarinPhader_42	01	21	31	35	40	46	47	49	51	52	54	56	61	63	67	68	71	74	75	82
r46: Pharaoh_39	01	21	31	35	40	46	47	49	51	52	54	56	61	63	67	68	71	74	75	82
r47: Phil_33	01	21	31	35	40	46	47	49	51	52	54	56	61	63	67	68	71	74	75	82
r48: Gail_49	01	21	31	35	40	46	47	49	51	52	54	56	61	63	67	68	71	74	75	82
r49: SororFago_48	01	21	31	35	40	46	47	49	51	52	54	56	61	63	67	68	71	74	75	82
r50: Jeeves_50	01	21	31	35	40	46	47	49	51	52	54	56	61	63	67	68	71	74	75	82

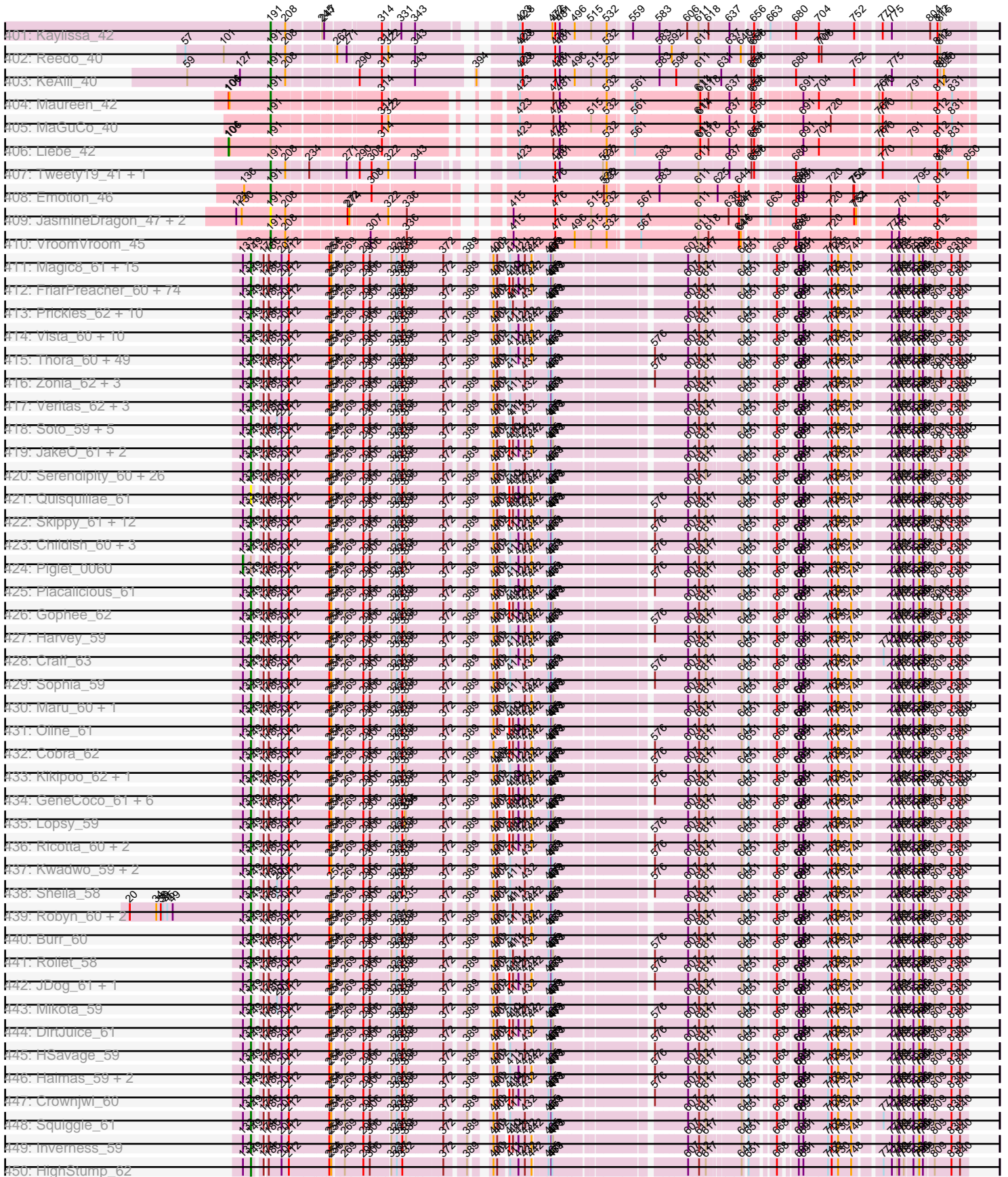
Pham 162899



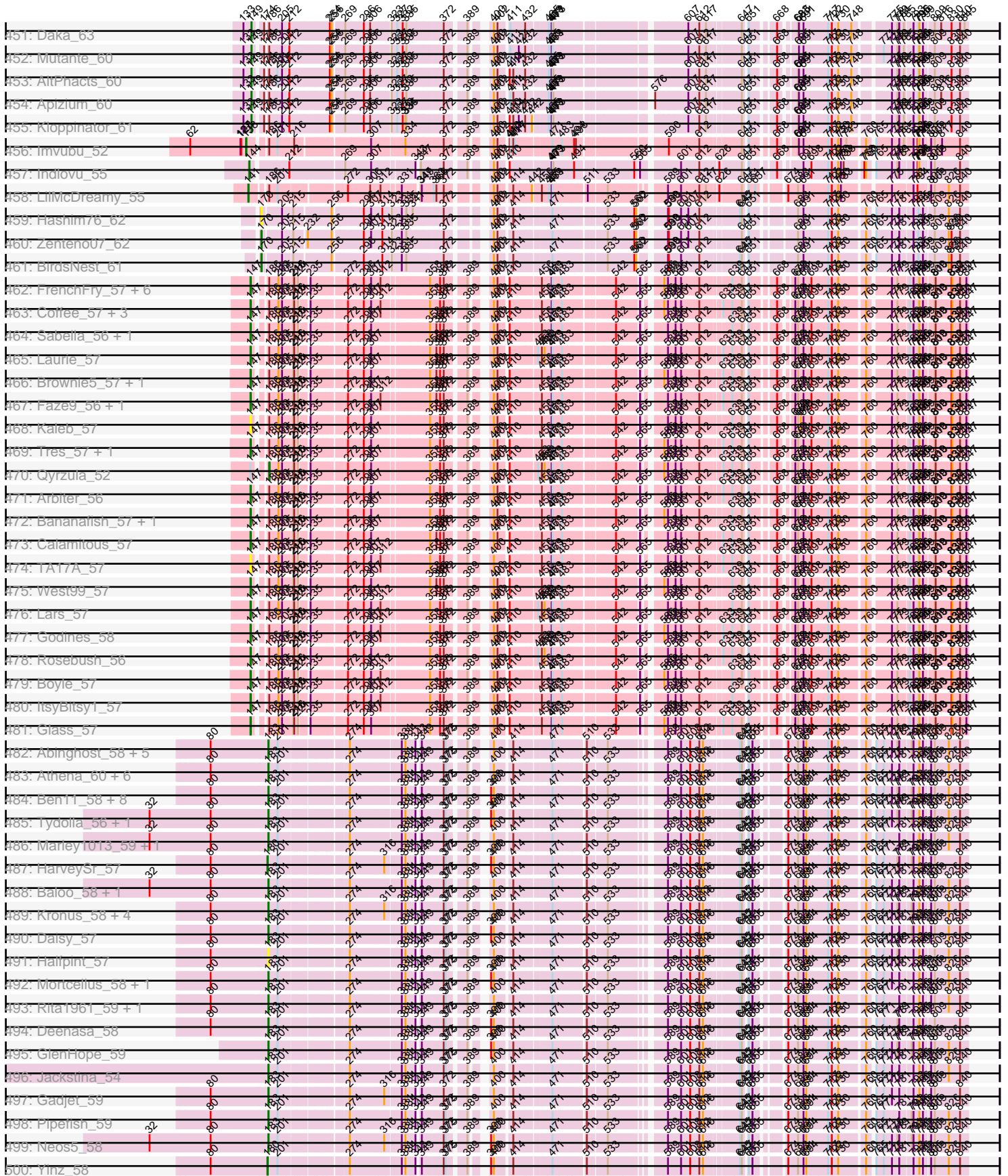
Pham 162899

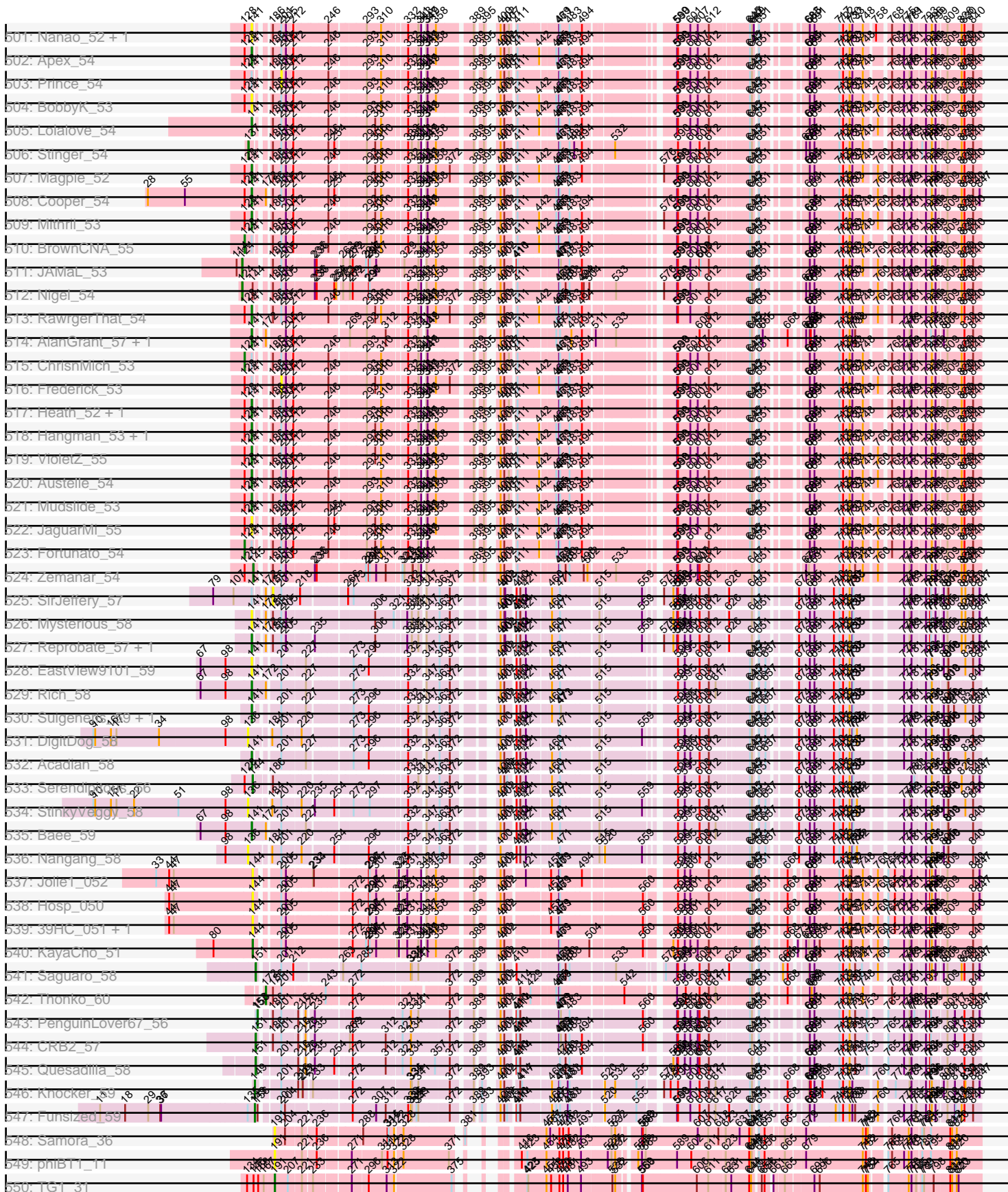


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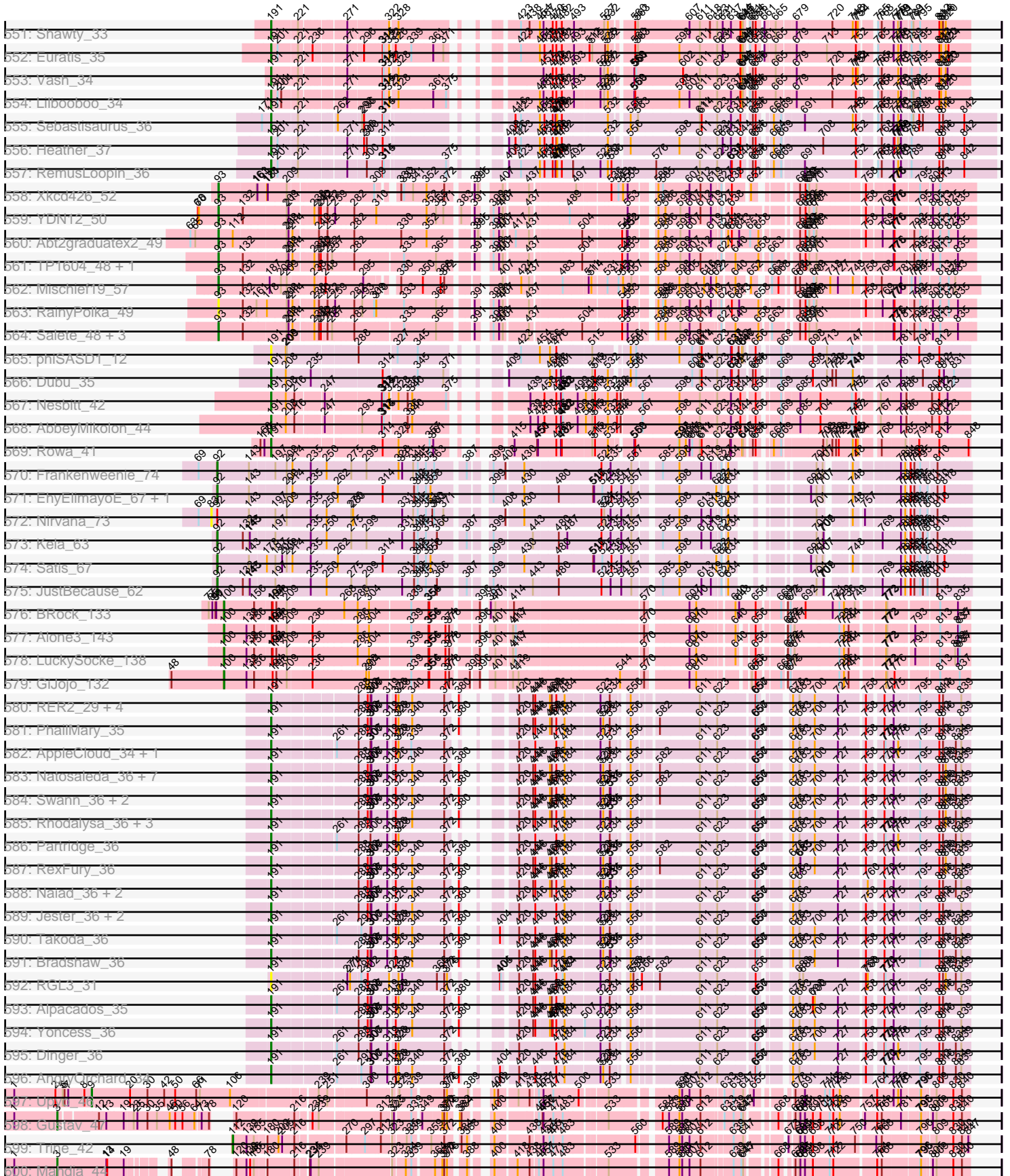


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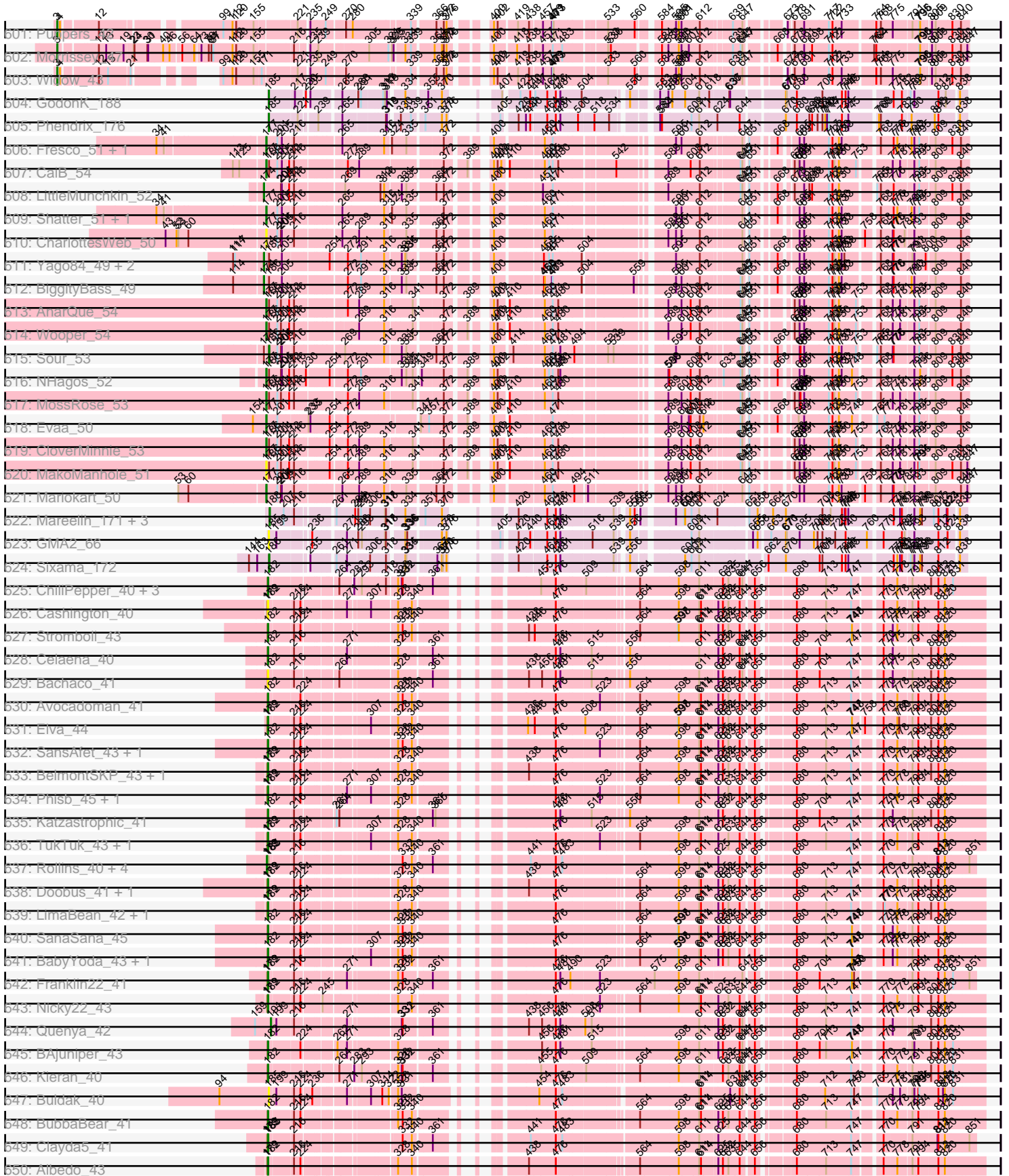




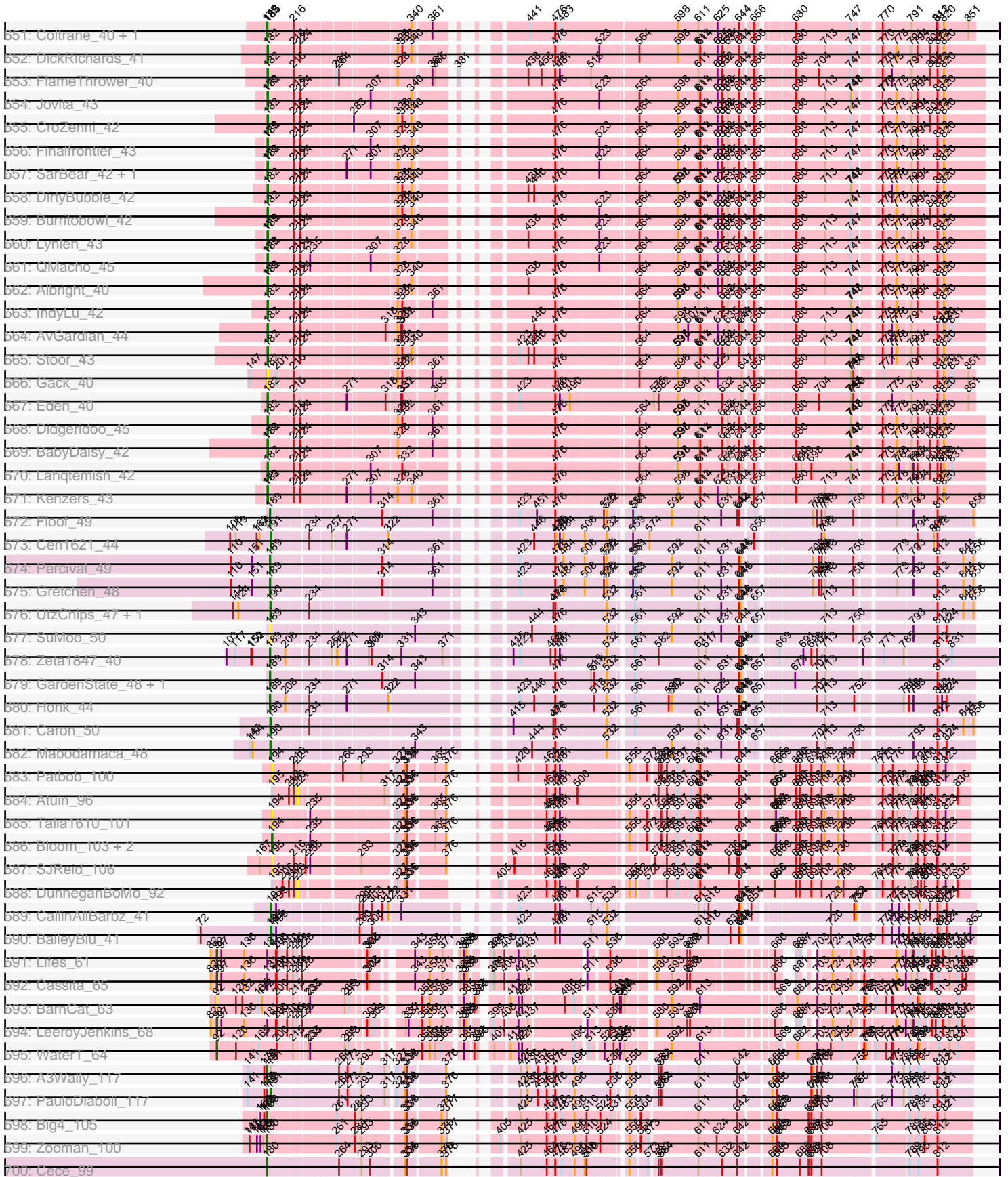
Pham 162899



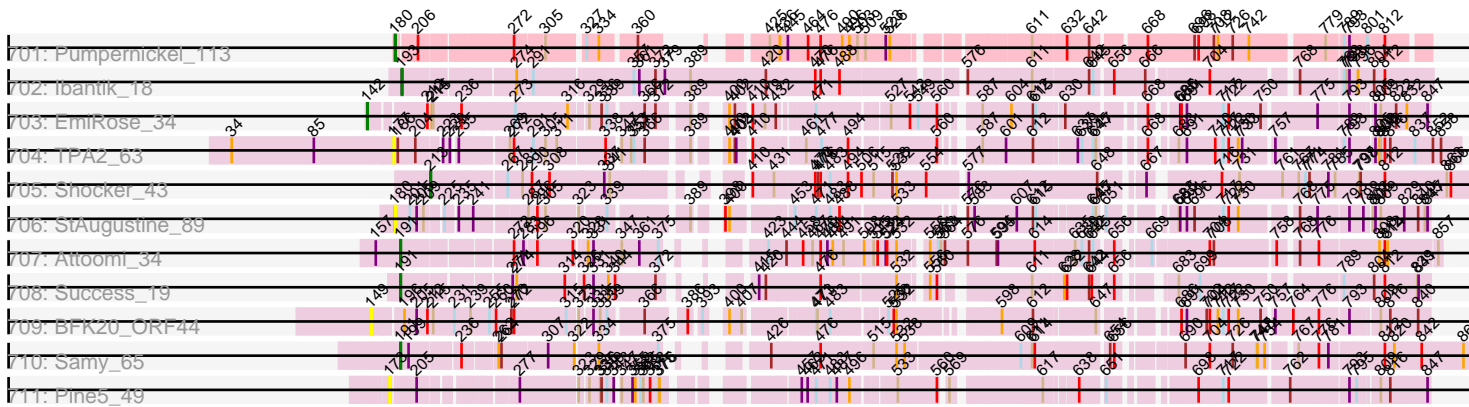
Pham 162899



Pham 162899



Pham 162899



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 162899 Report

This analysis was run 04/28/24 on database version 559.

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

Pham number 162899 has 1507 members, 163 are drafts.

Phages represented in each track:

- Track 1 : Chargerpower_44
- Track 2 : Kugel_46
- Track 3 : lLeeKay_49, Fushigi_43, Sumter_42
- Track 4 : Slagathor_47, Arcanine_46, Ringer_46
- Track 5 : Marchy_38, Adahisdi_44, Payneful_43
- Track 6 : Blue_44
- Track 7 : Burton_44, Museum_45
- Track 8 : JuliaChild_45, Swole_45, TwoPeat_44, Tote_40
- Track 9 : Parliament_44, Manatee_45
- Track 10 : LilBib_45
- Track 11 : Turj99_42, Magnito_42
- Track 12 : GrecoEtereo_45, HanShotFirst_43, Big3_43, CactusRose_42, Paraselene_43, HarryOW_43, Tripl3t_45, Gwendoluna_48
- Track 13 : Greg_47, Pippin_47, Fajezeel_47, Ciao_45
- Track 14 : Jasper_46, Dreamboat_46
- Track 15 : Buttons_43
- Track 16 : Rohr_45, HermioneGrange_44, Jerm2_45
- Track 17 : Ashballer_46, KyMonks1A_47
- Track 18 : Arlo_42, Hope4ever_46, Kanely_45, Rubeus_45, Altman_46
- Track 19 : Snazzy_42
- Track 20 : Sunshine924_45, BPBiabs31_45, Kenmech_48
- Track 21 : Homines_37, Makemake_44, ShortQueendom_39, Wheeler_45
- Track 22 : Michley_44
- Track 23 : Paphu_43, Oogway_42
- Track 24 : Zeeculate_43
- Track 25 : Corvo_45, SwissCheese_46, Forsytheast_44, Bruns_43, Moose_44
- Track 26 : SpikeBT_45
- Track 27 : Pinto_45, Petruchio_45
- Track 28 : PascalRango_45, Jorgensen_45, Norz_45, Edtherson_45
- Track 29 : KSSJEB_43, Target_45
- Track 30 : Espresso_44
- Track 31 : Bigfoot_41, Maroc7_43, Fascinus_41
- Track 32 : Abrogate_440, Perseus_45

- Track 33 : DrFeelGood_43
- Track 34 : Licorice_48, BigPaolini_45, TheloniousMonk_46
- Track 35 : MaryBeth_45, MetalQZJ_44
- Track 36 : MrGordo_44, Gyzlar_41, Anglerfish_45, Dulcie_45, Crispicous1_43
- Track 37 : Marcell_43
- Track 38 : Rufus_45
- Track 39 : JackSparrow_46
- Track 40 : Barriga_45
- Track 41 : IgnatiusPatJac_44, BluSpix_43
- Track 42 : Atkinbua_46
- Track 43 : Niza_47, Ruotula_48
- Track 44 : Pita2_47, PSullivan_44
- Track 45 : Agaliana_41
- Track 46 : Bones_45, Eyeball_46, Rajelicia_46
- Track 47 : Bxb1_41
- Track 48 : Sibs6_45, Wilkins_44, Topgun_44
- Track 49 : Alvin_44
- Track 50 : Sandaddy_44, Sorpresa_43
- Track 51 : Switzer_45, Bethlehem_44, BeesKnees_45, Dynamix_45
- Track 52 : JC27_45, Applejack_41
- Track 53 : Beatrix_44, STLscum_46
- Track 54 : Trouble_46
- Track 55 : Bexan_43, StrongArm_44
- Track 56 : Dexes_45
- Track 57 : Pelly_44
- Track 58 : Francis47_44, PacerPaul_45
- Track 59 : Lamina13_45, Tasp14_46
- Track 60 : Monet_48
- Track 61 : Sagefire_48
- Track 62 : Euphoria_43
- Track 63 : Violet_42
- Track 64 : Chanagan_42, Pepe_42
- Track 65 : Carlyle_44
- Track 66 : Petp2012_45
- Track 67 : QTRlifeCrisis_49, Rhynn_44, Lesedi_42, ConceptII_46
- Track 68 : Smairt_47
- Track 69 : Dussy_46, Froghopper_43, Killigrew_44, Abbyshoes_47
- Track 70 : Teodoridan_43
- Track 71 : DreamCatcher_47
- Track 72 : Aeneas_47
- Track 73 : Mryolo_42, Nhonho_45
- Track 74 : StewieG_44, Solon_44, Zeuska_44, BillKnuckles_45
- Track 75 : Lockley_44, DD5_44
- Track 76 : PherrisBueller_44, Scowl_45
- Track 77 : Doom_45
- Track 78 : BigMau_45
- Track 79 : BaconJack_48
- Track 80 : Kykar_45
- Track 81 : Hermia_46
- Track 82 : Magnar_44
- Track 83 : Watermelon_46
- Track 84 : Cueylyss_46
- Track 85 : Bob3_42

- Track 86 : Fenn_46
- Track 87 : Zephyr_44
- Track 88 : PhrostyMug_44
- Track 89 : Squee_44
- Track 90 : SkiPole_47, Seanderson_47
- Track 91 : BK1_41, A6_41
- Track 92 : Ohno789_45
- Track 93 : Lopton_45
- Track 94 : Acme_47, Hami1_38
- Track 95 : NEHalo_43, AFIS_43
- Track 96 : Seabiscuit_46
- Track 97 : SarFire_43, Thor_43
- Track 98 : Naira_46
- Track 99 : Gandalf20_46
- Track 100 : PinkPlastic_43
- Track 101 : Rutherferd_47
- Track 102 : Papez_47
- Track 103 : Bircsak_44, Gompeii16_44
- Track 104 : PattyP_45
- Track 105 : Nerujay_46
- Track 106 : Graduation_48
- Track 107 : Molly_45
- Track 108 : Ichabod_46
- Track 109 : RidgeCB_44
- Track 110 : U2_43
- Track 111 : Ajay_45
- Track 112 : McGuire_45
- Track 113 : Treddle_46
- Track 114 : KBG_46
- Track 115 : Peterson_48
- Track 116 : Traft412_45
- Track 117 : MPlant7149_43
- Track 118 : Marsha_45
- Track 119 : Briton15_46
- Track 120 : Mule_42
- Track 121 : Marge_45
- Track 122 : Alsfro_48
- Track 123 : Pari_45
- Track 124 : Smeagol_46
- Track 125 : GageAP_45
- Track 126 : OKCentral2016_43
- Track 127 : Rebeuca_44, Kristoff_44
- Track 128 : Goose_44, Chupacabra_43
- Track 129 : Twister_42, WalterMcMickey_42, Topanga_42
- Track 130 : Severus_42, PeaceMeal1_42, KittenMittens_41, Trike_42, Drake94_42
- Track 131 : Poompha_43
- Track 132 : Eaglepride_45
- Track 133 : RhynO_45
- Track 134 : Edison31_42
- Track 135 : Sham4_44, Fibonacci_44, MaCh_45, Bachome_46, Petersenfast_43, Hutc2_44
- Track 136 : Insomnia_44, Lucivia_45, Snape_44, Orange_44, Bowtie_45, Mulciber_44

- Track 137 : TinyTimmy_44, Mabel_45, Salz_44, Timothy_45, Ebony_45
- Track 138 : Aneem_45, Munch_45, Gilberta_45, Flaverint_45, Joselito_45
- Track 139 : Jabith_45
- Track 140 : Et2Brutus_44
- Track 141 : Bud_44
- Track 142 : Refuge_44
- Track 143 : Steamy_41
- Track 144 : Zimmer_42
- Track 145 : DarthPhader_42
- Track 146 : Pharaoh_39
- Track 147 : Phlei_33
- Track 148 : Gail_49
- Track 149 : SororFago_48
- Track 150 : Jeeves_50
- Track 151 : Luchador_50
- Track 152 : Epsocamisio_46, ShayRa_48, Soups_47, Anaysia_47, LastResort_46, Looper_47, Battleship_48, Rosalind_46, JSwag_46, Boohoo_47, KatherineG_48, Switzerland_47, ReMo_46, DekHockey33_47
- Track 153 : Remus_47, Strosahl_47
- Track 154 : Oofda_48, Waits_47
- Track 155 : Nebulosus_46
- Track 156 : Nedarya_43
- Track 157 : Anon_42
- Track 158 : MinecraftSteve_48
- Track 159 : EagleEye_46, Lucyedi_45
- Track 160 : PainterBoy_45
- Track 161 : 40AC_46
- Track 162 : MyraDee_40
- Track 163 : Kimona_43
- Track 164 : Crucio_44, Georgie2_45, SnapTap_44, FiringLine_44, SemperFi_45, QueenBeesly_44
- Track 165 : Dignity_46
- Track 166 : Updawg_45, Piro94_44, WideWale_45, Buggy_46, Baehexic_43, NaSiaTalie_44, Flare16_44, Equemioh13_45, MiculUcigas_44
- Track 167 : SweetiePie_44
- Track 168 : RedRock_46
- Track 169 : DudeLittle_43
- Track 170 : Jsquared_43
- Track 171 : WeiHuaDA_48
- Track 172 : Lokk_45
- Track 173 : Deloris_43
- Track 174 : Che12_47
- Track 175 : Adzzy_46
- Track 176 : Iwokeuplikedis_47
- Track 177 : 20ES_45, First_0044
- Track 178 : Echild_44, Benvolio_41
- Track 179 : Journey13_40
- Track 180 : EvilGenius_47, ChipMunk_47
- Track 181 : Anselm_45
- Track 182 : Loser_46
- Track 183 : Dalmatian_45, Retro23_45
- Track 184 : Smeagan_47
- Track 185 : Malec_45, Larenn_44

- Track 186 : Miko_43
- Track 187 : Leviathan_46
- Track 188 : QueenB2_44
- Track 189 : Landor_44, Bactobuster_43
- Track 190 : Heffalump_43, Fameo_44
- Track 191 : BabyBack_42
- Track 192 : Odin_44
- Track 193 : Centaur_45
- Track 194 : Herbertwm_42
- Track 195 : Caraxes_45, Superchunk_44
- Track 196 : Changeling_45
- Track 197 : L5_44
- Track 198 : Kerberos_47, Duplo_47, DBQu4n_47, Pomar16_47, Tomathan_47
- Track 199 : CRB1_46
- Track 200 : HarryHoudini_45
- Track 201 : AbbyPaige_46, Turbido_45, Whabigail7_45, Agape74_46, Jerm_46
- Track 202 : AnnaL29_46
- Track 203 : XianYue_44
- Track 204 : AN3_45, VA6_43
- Track 205 : D32_47, D29_44, Naji_47
- Track 206 : Trixie_44
- Track 207 : TarsusIV_42
- Track 208 : JoshKayV_46
- Track 209 : Acolyte_41
- Track 210 : EZMoney23_43
- Track 211 : C3_43, VC3_48, AN9_48, ANI8_48
- Track 212 : Power_43
- Track 213 : LilTurb_45
- Track 214 : Kalpine_44
- Track 215 : BobSwaget_44
- Track 216 : NothingSpecial_43
- Track 217 : Rachaly_45
- Track 218 : Phaded_46
- Track 219 : TipsytheTRex_42
- Track 220 : ArcherNM_42
- Track 221 : Pukovnik_43
- Track 222 : Colin_46
- Track 223 : NicoleTera_45
- Track 224 : Ph8s_46
- Track 225 : MissWhite_43
- Track 226 : StarStuff_47
- Track 227 : LadyBird_47
- Track 228 : SwirlSquare_48
- Track 229 : Leogania_44, BiancaTri92_44
- Track 230 : GaugeLDP_43
- Track 231 : Jaan_45
- Track 232 : BengiVuitton_44
- Track 233 : Trooper_45
- Track 234 : Koduck_44
- Track 235 : IronMan_44
- Track 236 : Serenity_45
- Track 237 : KingCyrus_47
- Track 238 : Drake55_46

- Track 239 : Anthony_39
- Track 240 : OlanP_47
- Track 241 : MarQuardt_48, Stagni_48, Mainiac_48, Cullens_48, Wooldri_50, Beauxregard13_48, SoYo_48, StepMih_48, Marie_48, JenCasNa_49, JHC117_48, Hercules11_48, PotatoSplit_50, LBerry_49, Vix_48, Sabia_48, Dieselweasel_49, LugYA_51, Penny1_49, EpicPhail_49, BreSam8_48, Tiffany_48, Colbster_48, P28Green_49, Taurus_49, Fernando_48, MoneyMay_48, Snickers_48, Phoebe_49, Anubis_51
- Track 242 : MadMarie_48
- Track 243 : Methuselah_45, BuzzBuzz_46, Soshari_50, Misomonster_49, KADY_48, LarryKay_48, HashRod_49, Daishi_47, Spike509_48, Rummer_47, Louie6_47, Phoxy_48
- Track 244 : Grif_48, GtownJaz_48
- Track 245 : Margo_44, Hookmount_44, QuinnKiro_43, Norbert_43, Noella_44, Texage_43, Pocahontas_44, Popcicle_44, ResDef_45, Panamaxus_42, Lambert1_44, Caviar_44, Veracruz_43, Todacoro_44
- Track 246 : JF2_45, MK4_45, JF4_45, B1_42
- Track 247 : PhishRPhriends_46, HaveUMetTed_49, PurpleHaze_48, Pawn_48, Heliosoles_47, Phranny_49, ACFishhook_47, Manu_48, Reba_48, Grouphthink_49, Kalnok_49, Kalb97_49, Marius_49, Gemma_47
- Track 248 : Bxz2_44, AgronaGT15_47
- Track 249 : BabyRay_45
- Track 250 : TNguyen7_46, BlueBird_47, Bugatti_46, Giroux_46, Idleandcovert_46, Pistachio_47, SaturnRing_46, Puppy_47
- Track 251 : Pembroke_48, Jobu08_47, AugsMagnumOpus_51, Lilith_49, Malinsilva_50, SoilDragon_48, Grub_48, PGHhamlin_50, MuchMore_51, Microwolf_48, Watson_48
- Track 252 : GingkoMaracino_48, Ollie_48
- Track 253 : Zetzy_47
- Track 254 : Isca_44
- Track 255 : HelDan_45, Heathen_45, Fred313_45, Scout_45
- Track 256 : Aglet_49
- Track 257 : DaHudson_48
- Track 258 : MA5_45
- Track 259 : Sabinator_47, Grum1_48
- Track 260 : JeppNRM_49
- Track 261 : Rockstar_45
- Track 262 : Farber_48
- Track 263 : Phantastic_46
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Summary of Final Annotations (See graph section above for start numbers):

The start number called the most often in the published annotations is 191, it was called in 828 of the 1344 non-draft genes in the pham.

Genes that call this "Most Annotated" start:

- 20ES_45, A6_41, ACFishhook_47, AEgle_37, AFIS_43, AGrandiflora_42, AN3_45, AN9_48, ANI8_48, AbbeyMikolon_44, AbbyPaige_46, AbbysRanger_44, Abbyshoes_47, Abdiel_45, Abrogate_440, Achebe_43, Acme_47, Acolyte_41, Adahisdi_44, Adolin_40, Adumb2043_38, Adzzy_46, Aeneas_47, Agaliana_41, Agape74_46, AgentM_37, Aglet_49, AgronaGT15_47, AinMach_42, Airmid_39, Ajay_45, Alatin_36, Albee_45, Alberto7_46, Aliter_45, Alma_45, Alpacados_35, Alsfro_48, Altman_46, Alvin_44, Amyev_40, Anaysia_47, Aneem_45, Anglerfish_45, AngryOrchard_34, AnnaL29_46, Annyong_45, Anon_42, Anselm_45, Anthony_39, Anubis_51, AppleCloud_34, Applejack_41, Aragog_37, Arcanine_46, ArcherNM_42, Archetta_38, Arissanae_44, Arlo_42, Artemis2UCLA_45, Arturo_44, Asa16_39, Ascela_41, Ashballer_46, Astro_42, Atkinbua_46, Attoomi_34, AugsMagnumOpus_51, AvatarAhPeg_44, Avle17_45, B1_42, BABullseye_43, BK1_41, BPBiabs31_45, Baby16_45, BabyBack_42, BabyRay_45, Bachome_46, Backyardigan_43, BaconJack_48, Bactobuster_43, Badger_43, Baehexic_43, BaileyBlu_41, BangNhom_46, Barriga_45, Bartimeaus_45, Battleship_48, Beatrix_44, Beauxregard13_48, Beemo_45, BeesKnees_45, Belenaria_36, BellusTerra_46, Benedict_39, BengiVuitton_44, Benvolio_41, Berrie_42, Bethlehem_44, Bexan_43, BiancaTri92_44, Big3_43, BigMau_45, BigPaolini_45,

Bigfoot_41, BillKnuckles_45, Bircsak_44, Blackmoor_45, Blinn1_48, BluSpix_43, Blue7_48, BlueBird_47, Blue_44, Bluefalcon_37, Bob3_42, BobSwaget_44, BobbyDazzler_36, BogosyJay_44, Bombshell_45, Bonamassa_39, Bonanza_36, Bones_45, Boohoo_47, Bowtie_45, Bradshaw_36, BreSam8_48, Briton15_46, Broseidon_45, Bruiser_44, Bruns_43, Bryce_36, BubbleTrouble_44, Bud_44, Bugatti_46, Buggy_46, Bumblebee11_43, Burger_43, Burton_44, Buttons_43, BuzzBuzz_46, Bxb1_41, Bxz2_44, C3_43, CRB1_46, CactusRose_42, Caelakin_45, CallinAllBarbz_41, Camperdownii_43, Candra_45, Caraxes_45, Carlyle_44, Cassia_40, Catalina_46, Caviar_44, Cen1621_44, Centaur_45, CentreCat_45, Cerulean_46, Chadwick_40, ChampagnePapi_47, Chanagan_42, Changeling_45, Chaph_45, Chargerpower_44, Charm_42, Chartreuse_45, Che12_47, ChipMunk_47, Chupacabra_43, Ciao_45, Cici_44, Cindaradix_42, Cintron_44, Citius_45, Clarenza_44, CloudWang3_45, Cocoaberry_45, Colbster_48, Colin_46, Commander_45, Community_43, ConceptII_46, Connomayer_45, Conquerage_45, Conspiracy_38, Coog_38, Cookiedough_45, Corvo_45, CosmicSans_36, Crewmate_46, Crispicious1_43, Crucio_44, Cuco_38, Cueylyss_46, Cullens_48, Cyan_40, D29_44, D32_47, DBQu4n_47, DD5_44, DaHudson_48, DaVinci_45, Daishi_47, Dalmatian_45, Danforth_42, Darrell_45, DarthPhader_42, Datway_44, Deano_44, DekHockey33_47, Deloris_43, Dexes_45, Dhanush_45, Dieselweasel_49, Dignity_46, Dinger_36, DirtyDunning_44, Discoknowium_37, Dixon_43, Doom_45, Dorothea_44, DrFeelGood_43, DrManhattan_40, DrSierra_39, Drake55_46, Drake94_42, DreamCatcher_47, DreamTeam1_42, Dreamboat_46, DroogsArmy_41, Druantia_45, Dublin_37, Dubu_35, DudeLittle_43, Dulcie_45, Duplo_47, Dussy_46, Dynamix_45, EagleEye_46, Eagle_45, Eaglepride_45, Eapen_45, Ebony_45, Echild_44, Edison31_42, Edtherson_45, Eidsmoe_45, Elephantoon_44, Elezi_39, Emotion_46, EmyBug_42, EpicPhail_49, Epsocamisio_46, Equemioh13_45, Eraser_39, EricB_45, Erik_36, Eris_44, Eros_45, Espica_36, Espresso_44, Et2Brutus_44, Euphoria_43, Euratis_35, Eurydice_46, EvilGenius_47, Exile_36, Expelliarmus_42, ExplosioNervosa_45, Eyeball_46, Fajezeel_47, Fameo_44, Farber_48, Fascinus_41, Fayely_45, Fenn_46, Fernando_48, Fibonacci_44, FiringLine_44, First_0044, Flare16_44, Flaverint_45, Florean_45, Flux_45, ForGetIt_38, Forsytheast_44, Francis47_44, Fred313_45, Froghopper_43, Funston_44, Fushigi_43, Gadost_45, GageAP_45, Gail_49, Gandalf20_46, Garak_47, GaugeLDP_43, Gemma_47, George_38, Georgie2_45, Ghoulboy_40, Gilberta_45, GingkoMaracino_48, Giroux_46, Gladiator_45, Gollum_36, Gompeii16_44, Goose_44, Graduation_48, GrecoEtereo_45, GreedyLawyer_45, Greg_47, Grif_48, Groundhog_41, Groupthink_49, Grub_48, Grum1_48, Gruunaga_45, GtownJaz_48, Gwendoluna_48, Gyzlar_41, HINder_41, HamSlice_44, Hami1_38, Hammer_47, HanShotFirst_43, Happiness_44, Harlequin_36, HarryHoudini_45, HarryOW_43, HashRod_49, HaveUMetTed_49, Heathen_45, Heather_37, Heffalump_43, HelDan_45, Heliosoles_47, Helmet_47, Herbertwm_42, Hercules11_48, Hermia_46, HermioneGrange_44, Hexamo_45, Hiro_36, Holli_44, Homines_37, Hookmount_44, Hoot_45, Hope4ever_46, HortumSL17_45, Houdini22_45, HuhtaEnerson15_39, Hutc2_44, ICleared_45, ILeeKay_49, Iceman_45, Ichabod_46, Idleandcovert_46, IgnatiusPatJac_44, Indra_48, Insomnia_44, Iracema64_46, IronMan_44, Isca_44, Isiphiwo_43, Iter_41, IttyBittyPiggy_40, Iwokeuplikedis_47, JC27_45, JF2_45, JF4_45, JHC117_48, JSwag_46, Jaan_45, Jabiru_39, Jabith_45, JackSparrow_46, Janeemi_43, JasmineDragon_47, Jasper_46, Jaykayelowell_43, Jeeves_50, JenCasNa_49, JeppNRM_49, Jerm2_45, Jerm_46, Jester_36, JetBlade_45, JewelBug_47, Jobu08_47, Joemato_43, JohnDoe_41, JoongJeon_44, Jordennis_45, Jorgensen_45, Joselito_45, JoshKayV_46, Journey13_40, Jovo_38, Jstan_41, JuliaChild_45, KADY_48, KBG_46, KFPoly_44, KSSJEB_43, Kalb97_49,

Kalnoky_49, Kalpine_44, Kampy_45, Kanely_45, Katalie136_44, KatherineG_48, Kaylissa_42, Kazan_46, KeAlii_40, Kenmech_48, Kerberos_47, Killigrew_44, Kimona_43, KingCyrus_47, Kingmustik0402_45, Kipper29_45, KittenMittens_41, Koduck_44, Koko_47, Koreni_44, Kratark_45, Kremtemulon_43, Krishelle_36, Kristoff_44, Kugel_46, KyMonks1A_47, Kyee_45, Kykar_45, L5_44, LBerry_49, LHTSCC_47, LadyBird_47, Lambert1_44, Lamina13_45, Landor_44, LappelDuVide_44, Larenn_44, LarryKay_48, LastResort_46, Lego_41, Lemur_45, LeoAvram_45, Leogania_44, Lesedi_42, Lev2_38, Leviathan_46, Licorice_48, LilBib_45, LilTurb_45, Lilbooboo_34, Lilbunny_43, Lilith_49, Lillie_36, LittleB_45, LittleCherry_39, LittleGuy_45, Lizalica_39, LochMonster_46, Lockley_44, Lokk_45, London_39, LoneWolf_45, Looper_47, Lopton_45, Lorenzo_45, Loser_46, Louie6_47, Luchador_50, Lucivia_45, Lucyedi_45, LugYA_51, Lunsford_46, MA5_45, MK4_45, MPlant7149_43, MaCh_45, MaGuCo_40, Mabel_45, MadMarie_48, Magnar_44, Magnito_42, Mainiac_48, Makemake_44, Malec_45, Malinsilva_50, Maminiaina_44, Manatee_45, Manu_48, MarQuardt_48, Marcell_43, Marchy_38, Marge_45, Margo_44, Marie_48, Marius_49, Maroc7_43, Marsha_45, MaryBeth_45, MarysWell_37, Maureen_42, Maverick_45, Maxo_46, Mazhar510_45, McFly_45, McGuire_45, Medusa_45, MeeZee_45, Melvin_47, MetalQZJ_44, Methuselah_45, Micasa_39, Michley_44, Microwolf_48, MiculUcigas_44, Midas2_38, Miko_43, Milcery_39, Millski_44, MinecraftSteve_48, MiniMommy_47, Miramae_44, Misomonster_49, MissSwiss_41, MissWhite_43, Molly_45, Monet_48, MoneyMay_48, Moose_44, Morpher26_44, Morrow_46, Moss_45, MrGordo_44, Mryolo_42, MuchMore_51, Mudpuppy_39, Mulciber_44, Mule_42, Munch_45, Mundrea_44, Museum_45, MyraDee_40, Myxus_45, NEHalo_43, NaSiaTalie_44, Naiad_36, Naira_46, Naji_47, Nancinator_36, Natosaleda_36, NearlyHeadless_43, Nebs_46, Nebulosus_46, Nedarya_43, Neeharika16_45, Nemo27_45, Nerujay_46, Nesbitt_42, Newrala_45, Nhonho_45, NicoleTera_45, Niobe_39, Nitro_40, Niza_47, Noella_44, Noelle_45, Norbert_43, NorthStar_44, Norz_45, NotAPhaseMom_45, NothingSpecial_43, Nyxis_45, OKCentral2016_43, OKaNui_45, Obama12_46, ObiToo_46, Odin_44, Ohfah_46, Ohno789_45, OlanP_47, Ollie_48, Oofda_48, Oogway_42, Orange_44, P28Green_49, PGHhamlin_50, PP_46, PSullivan_44, PacerPaul_45, PackMan_44, PainterBoy_45, Palestino_44, Panamaxus_42, Papez_47, Paphu_43, Paraselene_43, Pari_45, Parliament_44, Partridge_36, PascalRango_45, PattyP_45, PauloDiaboli_117, Pawn_48, Payneful_43, PeaceMeal1_42, Peaches_45, Pelly_44, Pembroke_48, Penny1_49, Pepe_42, Perplexer_44, Perseus_45, PeterPeter_45, Petersenfast_43, Peterson_48, PetiteSangsue_44, Petp2012_45, Petruccio_45, PetterN_40, Ph8s_46, Phacado_45, Phaded_46, Phaeder_45, PhailMary_35, Phantastic_46, Pharaoh_39, Phelipe_46, PherrisBueller_44, Phighter1804_45, Phillis_44, PhishRPhriends_46, Phives_43, Phlei_33, Phlorence_37, Phoebe_49, Phonnegut_45, Phontbonne_45, Phoxy_48, Phrankenstein_36, Phranny_49, PhrostyMug_44, PickleBack_38, PinkPlastic_43, Pinto_45, Pioneer_45, Pipcraft_43, Pippin_47, Piro94_44, Pistachio_47, Pita2_47, Pixelle_42, Pmask_45, Pocahontas_44, Polymorphads_46, Pomar16_47, Poompha_43, Popcicle_44, PotatoSplit_50, Power_43, Powerpuff_43, Priamo_47, Priya_45, Pukovnik_43, Pumbaa_45, Pumpkins_62, Puppy_47, PurpleHaze_48, QTRLifeCrisis_49, Qobbit_45, QueenB2_44, QueenBeesly_44, Quenya_42, QuinnKiro_43, RER2_29, RGL3_31, Rachaly_45, Rahalelujah_44, Rajelicia_46, Rasputin_36, ReMo_46, Reba_48, Rebeuca_44, RedRock_46, Reedo_40, Refuge_44, Relief_44, RemusLoopin_36, Remus_47, ResDef_45, Retro23_45, RexFury_36, Rhodalysa_36, RhynO_45, Rhynn_44, RidgeCB_44, Rifter_47, Ringer_46, Roary_43, Rockstar_45, Rohr_45, Roksolana_46, Romney_45, Roosevelt_44, Rosalind_46, Rowa_41, Rubeus_45, Rufus_45, Ruin_45, Rummer_47, Ruotula_48, Rutherferd_47, STLscum_46, Sabertooth_45, Sabia_48,

Sabinator_47, Sagefire_48, Saintus_38, Salz_44, Samora_36, Samy_65, Sandaddy_44, SarFire_43, SaturnRing_46, Scamp_45, Scherzo_45, Scorpia_40, Scout_45, Scowl_45, Seabiscuit_46, Seanderson_47, Sebastisaurus_36, SemperFi_45, Serenity_45, Severus_42, Shaka_45, ShakeltOph_47, Sham4_44, Shawty_33, ShayRa_48, SheaKeira_43, Sheen_44, SheldonCooper_47, ShortQueendom_39, Shuman_36, Shygu2_44, Sibs6_45, Simpson_43, SkiPole_47, Skipitt_44, Slagathor_47, Smairt_47, Smeadley_43, Smeagan_47, Smeagol_46, SmellyB_45, SnapTap_44, Snape_44, Snazzy_42, Snek_40, Snickers_48, SoYo_48, SoilDragon_48, Solon_44, Soondubu_36, SororFago_48, Sorpresa_43, Soshari_50, Soups_47, Sparxx_46, Spike509_48, SpikeBT_45, Spino_44, Spouty_43, Squee_44, StCroix_36, Stagni_48, StarStuff_47, Stasia_44, Steamy_41, StepMih_48, Stephig9_43, StewieG_44, Stink_45, StrongArm_44, Strosahl_47, Success_19, Sue2_42, Sumter_42, Sunshine924_45, SuperAwesome_45, SuperCallie99_45, Superchunk_44, Swann_36, SweetiePie_44, SwirlSquare_48, Swirley_41, SwissCheese_46, Switzer_45, Switzerland_47, Swole_45, SydNat_40, TG1_31, TNguyen7_46, TWAMP_36, Takoda_36, Tallboi_42, Taquarus_45, Target_45, TarsusIV_42, Tarynearal_37, Tasp14_46, Taurus_49, Tbone_40, Teodoridan_43, Texage_43, TforTroy_42, Thanksgivukkah_44, Theia_36, TheloniousMonk_46, Thor_43, Tian_39, Tiffany_48, Tiger_37, Timothy_45, Timshel_43, TinaFeyge_45, TinyTimmy_44, Tinybot_44, TiroTheta9_45, Todacoro_44, Tomathan_47, ToneTone_42, Topanga_42, Topgun_44, Tote_40, Traft412_45, Treddle_46, Trike_42, Tripl3t_45, Trixie_44, Trooper_45, Trouble_46, TroyPia_46, Tubs_45, Tuck_44, Tucker_46, Turab_38, Turbido_45, Turj99_42, Tutumahutu_42, Tweety19_41, Twister_42, TwoPeat_44, TygerBlood_45, U2_43, Ugenie5_42, UhSalsa_36, Ulysses_44, UnionJack_39, Updawg_45, VA6_43, VC3_48, VResidence_41, Vanisoa_44, Vash_34, Veracruz_43, Violet_42, Vix_48, VohminGhazi_45, VroomVroom_45, Waits_47, WalterMcMickey_42, Wander_45, Warda_41, Watermelon_46, Watson_48, WeiHuaDA_48, Whabigail7_45, Wheeler_45, WideWale_45, Wiks_44, Wilbur_45, Wildwest_40, Wile_44, Wilkins_44, Wizard007_45, Wooldri_50, WunderPhul_45, Xena_43, XianYue_44, Yecey3_46, YesChef_41, YoSam321_45, Yogi_36, Yokurt_45, Yoncess_36, Zaka_45, Zeeculate_43, Zephyr_44, Zetzy_47, Zeuska_44, Zimmer_42, Zolita_39, Zulu_46, phiBT1_11, phiSASD1_12,

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

- 40AC_46, A3Wally_117, EITiger69_39, Jeffabunny_45, JuneStar_42, Liebe_42, Naca_39, Yang_41,

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

- 39HC_051, 40BC_051, ABU_61, Abigail_42, Abinghost_58, AbsoluteMadLad_61, Abt2graduatex2_49, Acadian_58, Adriana_62, Aelin_60, Akoma_58, AlanGrant_57, Albedo_43, Albright_40, Allegro_57, Alone3_143, AltPhacts_60, Altwerkus_58, Amavida_53, Amigo_55, AnClar_50, Anansi_54, AnarQue_54, Anderson_61, Andre_63, AnnaLie_43, Antonia_60, Apex_54, Apizium_60, Arbiter_56, Ares_57, Armstrong_40, Arroyo_43, Ashraf_62, Asis_48, Athena_60, Atuin_96, Audrey_58, Austelle_54, AvGardian_44, Avocadoman_41, Axumite_51, BAjuniper_43, BFK20_ORF44, BRock_133, BabyDaisy_42, BabyGotBac_49, BabyYoda_43, Bachaco_41, Badfish_61, Bae_59, Baloo_58, Bananafish_57, Banjo_59, BarnCat_63, Barnstormer_47, Basato_61, BatteryCK_61, BayC_48, Beaglebox_60, BelmontSKP_43, Ben11_58, Bernardo_59, Bernstein_40, Big4_105, BiggityBass_49, BirdsNest_61, Bishoperium_60, BlackStallion_62, Blocker23_57, Bloom_103, BlueHusk_62, BlueNGold_170, Bluephacebaby_60, BobbyK_53, Boehler_60, Boersma_57, Boopy_173, Boyle_57, Brahms_40, Briakila_57, Brilliant_63,

BrownCNA_55, Brownie5_57, BubbaBear_41, Buckeye_61, Buldak_40, Burr_60, Burritobowl_42, CRB2_57, CaiB_54, Calamitous_57, CamL_60, CampRoach_61, Cannibal_60, Caron_50, Carthage_59, Casbah_58, Cashington_40, Cassita_65, Cece_99, Celaena_40, ChaChing_58, Chaelin_61, Chah_62, Chandler_58, Charles1_61, CharlieGBrown_61, CharlottesWeb_50, CheetO_60, Cher_60, Childish_60, ChiliPepper_40, Chorkpop_60, ChrisnMich_53, Chunky_59, Chute_62, Clayda5_41, CloverMinnie_53, Cobra_62, Coffee_57, Colbert_59, Coletti_63, Coltrane_40, Compostia_58, Cooper_54, Cornobble_60, Corofin_58, Cosmolli16_61, Craff_63, CroZenni_42, Crownjwl_60, DaddyDaniels_62, Daffy_60, Daisy_57, Daka_63, Dati_60, Deenasa_58, DelRivs_59, Derpp_60, Devonte_57, Dice_62, DickRichards_41, Didgeridoo_45, DigitDog_58, Dingo_59, Dione_58, DirtJuice_61, DirtyBubble_42, Dismas_40, Doddsville_61, DoesntMatter_58, DonSanchon_58, Donny_59, Doobus_41, DuchessDung_62, Duggie_61, DunneganBoMo_92, Durga_63, EZMoney23_43, Eaglehorse_57, EastView9101_59, Eden_40, EhyElimayoE_67, Elva_44, EmiRose_34, Emiris_63, EmpTee_60, Eremos_60, Etaye_62, Eugenia_60, Eula_43, Evaa_50, Fang_62, Faze9_56, Finalfrontier_43, FlameThrower_40, Floof_49, FluffyNinja_62, Fortunato_54, Forza_174, Fozzie_61, Frankenweenie_74, Frankicide_59, Franklin22_41, Frederick_53, FrenchFry_57, Fresco_51, Freya_58, FriarPreacher_60, Fringe_64, FugateOSU_61, Funsized_59, GMA2_66, Gack_40, Gadget_59, GardenState_48, Gareth_60, GeneCoco_61, Gervas_59, GiJojo_132, Giraffe_61, Glass_57, GlenHope_59, Godines_58, GodonK_188, Gophee_62, Gorgeous_54, Grand2040_60, Gretchen_48, Gustav_47, Gwilliam_62, Gyarad_0059, HSavage_59, Haimas_59, Haleema_59, Halfpint_57, Hamish_59, Hangman_53, Hartsy_60, HarveySr_57, Harvey_59, Hashim76_62, Heath_52, Heathcliff_58, Hedgerow_57, Held_60, HenryJackson_60, Hertubise_60, Hetaeria_60, Heylee_53, HighStump_62, Hocus_60, Holeinone_57, Honk_44, Horchata_59, Hosp_050, Hydro_53, IAmGroot_48, Ibantik_18, Icarian_47, Ichor_55, ImtiyazSitla_62, Imvubu_52, Inchworm_62, Indlovu_55, IndyLu_42, Inverness_59, Iridoclysis_61, IsaacEli_62, ItsyBitsy1_57, JAMaL_53, JDog_61, JacAttac_62, Jackstina_54, Jaek_55, JaguarMi_55, JakeO_61, JangoPhett_60, Jillium_60, Jiminy_61, Jiraiya_64, Johnathan_41, Jolie1_052, Jovita_43, Jsquared_43, JustBecause_62, KLucky39_59, Kahve_60, Kailash_61, Kaleb_57, Kamiyu_58, Katniss_61, Katzastrophic_41, KayaCho_51, Keitherie_62, Kela_63, Kenzers_43, Keziacharles14_44, Kheth_57, Kieran_40, Kikipoo_62, Kimbrough_61, KingTut_53, KingVeVeVe_59, KlimbOn_60, Kloppinator_61, Knocker_59, Kradal_67, Kronus_58, Kwadwo_59, Kwksand96_61, Labeouficaum_61, Lahqtemish_42, Lars_57, LasagnaCat_61, Lasso_61, Laurie_57, LeeLot_61, LeeroyJenkins_68, Lego3393_59, Legolas_62, LeiMonet_63, LemonSlice_61, Lephleur_57, LestyG_57, Lifes_61, Ligma_51, LilMcDreamy_55, LimaBean_42, LittleMunchkin_52, LizLemon_57, Lolalove_54, Longacauda_61, Lopsy_59, LostAndPhound_61, LuckyMarjie_58, LuckySocke_138, Lulumae_58, Lulwa_58, Lumine_61, Lynlen_43, MRabcd_60, Mabodamaca_48, Mag7_61, Magic8_61, Magpie_52, Mahdia_44, Maih_47, MakoManhole_51, Mana_59, Manad_60, Mareelih_171, Mariokart_50, Marley1013_59, Maru_60, Maskar_62, MasterPo_57, Matalotodo_60, Mcshane_59, Mecca_60, Megamind20_61, Megatron_61, Melc17_60, MelsMeow_61, Mesh1_62, MichaelPhcott_61, Mikota_59, Mimi_105, MiniBoss_58, Mischief19_57, MitKao_60, Mithril_53, MmasiCarm_59, Molivia_56, Morgushi_60, Morrissey_47, Mortcellus_58, Morty007_58, Morty_61, Mosaic_59, MossRose_53, MrPhizzler_61, Mudslide_53, Mulan_60, Murdoc_59, Mutante_60, Mysterious_58, NHagos_52, Nacho_0062, Nanao_52, Nangang_58, Neos5_58, Newman_59, Nicky22_43, Nicole21_61, Nigel_54, Nirvana_73, Nozo_58, Numberten_60, Nyala_59, OSmaximus_62, Obutu_59, Olak_61, Oline_61, Olive_60, OliverWalter_59, Omniscient_61, Oosterbaan_60, Opia_57, OrangeOswald_58, Orfeu_60, Orion_62, Orwigg_61,

PG1_61, Pacifista_63, Patbob_100, PenguinLover67_56, Percival_49, Phaedrus_54, Phamished_62, Phantasmagoria_57, Phareon_59, PhatCats2014_61, PhatLouie_62, Phayeta_60, Phelemich_56, Phendrix_176, PhenghisKhan_61, Pherdinand_62, Phergie_62, Philly_57, Phipps_60, Phisb_45, Phleuron_61, Phlyer_58, PhrankReynolds_60, PhrodoBaggins_61, Phunky_59, Piglet_0060, Pine5_49, PinheadLarry_61, Pinkman_60, Pipefish_59, Pipsqueak_59, Placalicious_61, Plmatters_59, Podrick_59, Pops_60, Poster_52, Potter_59, Prickles_62, Prince_54, ProfessorX_60, Puhltonio_60, Pumpernickel_113, Puppies_42, QMacho_45, QueenBeane_60, Quesadilla_58, Quisquilliae_61, Qyrzula_52, Racecar_100, RagingRooster_57, RainyPolka_49, RawrgerThat_54, RedMaple_62, Reprobate_57, Rhinoforte_57, Rich_58, Ricotta_60, Riggan_61, Rimu_63, Rings_55, Rita1961_59, Robyn_60, Roliet_58, Rollins_40, RomaT_58, Rona_40, Roscoe_61, Rosebush_56, Roy17_59, SDcharge11_60, SJReid_106, Sabella_56, Saguaro_58, Salet_48, Samaymay_60, SanaSana_45, SansAfet_43, SarBear_42, SassyCat97_59, Satis_67, Schadenfreude_60, Schueller_62, Scoot17C_61, Scrick_61, Selr12_62, Serendipitous_56, Serendipity_60, Serpentine_0060, Sharkboy_41, Shatter_51, Sheila_58, ShiVal_58, Shocker_43, Sigman_61, Simielle_60, SirJeffery_57, Sisko_49, Sixama_172, Skippy_61, Skylord_40, Slatt_61, Slay_43, SlippinJimmy_60, Soile_61, Solosis_59, Sophia_59, SorJuana_54, Soto_59, Sour_53, Spartan300_60, Squid_60, Squiggle_61, StAugustine_89, Stinger_54, StinkyVeggy_58, Stoor_43, Stromboli_43, Struggle_61, SuMoo_50, Suffolk_59, Suigeneris_59, Surely_60, Swervy_43, Swiphy_64, Swish_62, SynergyX_58, TA17A_57, TP1604_48, TPA2_63, Talia1610_101, TallGrassMM_60, Telesworld_58, Thonko_60, Thora_60, ThreeOh3D2_62, Thunderbird_61, Thunderclap_54, Timmi_59, Tinciduntolum_58, TipsytheTRex_42, Toaka_44, TomBombadil_60, Tomlarah_61, Toni_60, Tooj_59, Tres_57, Trine_42, True_59, Trypo_63, TukTuk_43, Tydolla_56, TyrionL_61, UAch1_60, UncleHowie_59, Upyo_46, Usavi_60, UtzChips_47, Vaishali24_59, Valjean_60, Vaticameos_57, Veritas_62, Vincenzo_56, VioletZ_55, Virapocalypse_61, Virgeve_60, Vista_60, Vitas_40, Vivaldi_62, Vortex_60, Waleliano_53, Wallhey_61, WaterT_64, Waterdiva_60, Weher20_60, West99_57, Widow_43, Windsor_60, Wooper_54, Xavier_59, Xkcd426_52, YDN12_50, Yago84_49, Yahalom_57, Yeezus_55, Yinz_58, Yoshand_62, YouGoGlencoco_61, Zaider_61, Zelda_61, Zemanar_54, Zenteno07_62, Zeta1847_40, Zonia_62, Zooman_100,

Summary by start number:

Start 3:

- Found in 5 of 1507 (0.3%) of genes in pham
- Manual Annotations of this start: 5 of 1344
- Called 100.0% of time when present
- Phage (with cluster) where this start called: Gustav_47 (CD), Mahdia_44 (CD), Morrissey_47 (CD), Puppies_42 (CD), Widow_43 (CD),

Start 9:

- Found in 3 of 1507 (0.2%) of genes in pham
- Manual Annotations of this start: 1 of 1344
- Called 33.3% of time when present
- Phage (with cluster) where this start called: Upyo_46 (CD),

Start 54:

- Found in 1 of 1507 (0.1%) of genes in pham
- No Manual Annotations of this start.

- Called 100.0% of time when present
- Phage (with cluster) where this start called: 40AC_46 (A17),

Start 83:

- Found in 1 of 1507 (0.1%) of genes in pham
- No Manual Annotations of this start.
- Called 100.0% of time when present
- Phage (with cluster) where this start called: Nirvana_73 (BM),

Start 86:

- Found in 13 of 1507 (0.9%) of genes in pham
- Manual Annotations of this start: 11 of 1344
- Called 100.0% of time when present
- Phage (with cluster) where this start called: Amavida_53 (AQ), Amigo_55 (AQ), Anansi_54 (AQ), Boersma_57 (AQ), Gorgeous_54 (AQ), Heylee_53 (AQ), Ichor_55 (AQ), Jaek_55 (AQ), Molivia_56 (AQ), Rings_55 (AQ), SorJuana_54 (AQ), Thunderclap_54 (AQ), Yeezus_55 (AQ),

Start 92:

- Found in 12 of 1507 (0.8%) of genes in pham
- Manual Annotations of this start: 10 of 1344
- Called 91.7% of time when present
- Phage (with cluster) where this start called: BarnCat_63 (GB), Cassita_65 (GB), EhyElimayoE_67 (BM), Frankenweenie_74 (BM), JustBecause_62 (BM), Kela_63 (BM), Kradal_67 (BM), LeeroyJenkins_68 (GB), Lifes_61 (GB), Satis_67 (BM), WaterT_64 (GB),

Start 93:

- Found in 11 of 1507 (0.7%) of genes in pham
- Manual Annotations of this start: 10 of 1344
- Called 100.0% of time when present
- Phage (with cluster) where this start called: Abt2graduatex2_49 (BG), Asis_48 (BG), BabyGotBac_49 (BG), BayC_48 (BG), Maih_47 (BG), Mischief19_57 (BG), RainyPolka_49 (BG), Salete_48 (BG), TP1604_48 (BG), Xkcd426_52 (BG), YDN12_50 (BG),

Start 96:

- Found in 2 of 1507 (0.1%) of genes in pham
- No Manual Annotations of this start.
- Called 50.0% of time when present
- Phage (with cluster) where this start called: JuneStar_42 (AZ1),

Start 100:

- Found in 4 of 1507 (0.3%) of genes in pham
- Manual Annotations of this start: 4 of 1344
- Called 100.0% of time when present
- Phage (with cluster) where this start called: Alone3_143 (BS), BRock_133 (BS), GiJojo_132 (BS), LuckySocke_138 (BS),

Start 104:

- Found in 2 of 1507 (0.1%) of genes in pham
- Manual Annotations of this start: 1 of 1344
- Called 50.0% of time when present

- Phage (with cluster) where this start called: Liebe_42 (AZ2),

Start 112:

- Found in 5 of 1507 (0.3%) of genes in pham
- Manual Annotations of this start: 1 of 1344
- Called 20.0% of time when present
- Phage (with cluster) where this start called: Trine_42 (CD),

Start 124:

- Found in 4 of 1507 (0.3%) of genes in pham
- Manual Annotations of this start: 2 of 1344
- Called 50.0% of time when present
- Phage (with cluster) where this start called: JAMaL_53 (B4), Nigel_54 (B4),

Start 128:

- Found in 24 of 1507 (1.6%) of genes in pham
- Manual Annotations of this start: 3 of 1344
- Called 12.5% of time when present
- Phage (with cluster) where this start called: BrownCNA_55 (B4), ChrisnMich_53 (B4), Fortunato_54 (B4),

Start 132:

- Found in 17 of 1507 (1.1%) of genes in pham
- Manual Annotations of this start: 1 of 1344
- Called 5.9% of time when present
- Phage (with cluster) where this start called: Yang_41 (AZ1),

Start 133:

- Found in 274 of 1507 (18.2%) of genes in pham
- Manual Annotations of this start: 1 of 1344
- Called 0.4% of time when present
- Phage (with cluster) where this start called: Piglet_0060 (B1),

Start 136:

- Found in 7 of 1507 (0.5%) of genes in pham
- No Manual Annotations of this start.
- Called 42.9% of time when present
- Phage (with cluster) where this start called: DigitDog_58 (B5), Nangang_58 (B5), StinkyVeggy_58 (B5),

Start 137:

- Found in 2 of 1507 (0.1%) of genes in pham
- Manual Annotations of this start: 1 of 1344
- Called 50.0% of time when present
- Phage (with cluster) where this start called: Stinger_54 (B4),

Start 138:

- Found in 2 of 1507 (0.1%) of genes in pham
- Manual Annotations of this start: 1 of 1344
- Called 50.0% of time when present
- Phage (with cluster) where this start called: Imvubu_52 (B10),

Start 141:

- Found in 50 of 1507 (3.3%) of genes in pham
- Manual Annotations of this start: 23 of 1344
- Called 58.0% of time when present
- Phage (with cluster) where this start called: Acadian_58 (B5), AlanGrant_57 (B4), Apex_54 (B4), Austelle_54 (B4), Bae_59 (B5), BobbyK_53 (B4), Cooper_54 (B4), Donny_59 (B5), EastView9101_59 (B5), Hangman_53 (B4), Heath_52 (B4), Hydro_53 (B4), JaguarMi_55 (B4), LilMcDreamy_55 (B12), Lolalove_54 (B4), Magpie_52 (B4), Mithril_53 (B4), Mudslide_53 (B4), Mysterious_58 (B5), Nanao_52 (B4), Phelemich_56 (B5), Poster_52 (B4), RawrgerThat_54 (B4), Reprobate_57 (B5), Rich_58 (B5), Suigeneris_59 (B5), Vincenzo_56 (B4), VioletZ_55 (B4), Waleliano_53 (B4),

Start 142:

- Found in 1 of 1507 (0.1%) of genes in pham
- Manual Annotations of this start: 1 of 1344
- Called 100.0% of time when present
- Phage (with cluster) where this start called: EmiRose_34 (singleton),

Start 144:

- Found in 9 of 1507 (0.6%) of genes in pham
- Manual Annotations of this start: 3 of 1344
- Called 77.8% of time when present
- Phage (with cluster) where this start called: 39HC_051 (B6), 40BC_051 (B6), Hosp_050 (B6), Indlovu_55 (B11), Jolie1_052 (B6), KayaCho_51 (B6), Serendipitous_56 (B5),

Start 145:

- Found in 3 of 1507 (0.2%) of genes in pham
- Manual Annotations of this start: 1 of 1344
- Called 33.3% of time when present
- Phage (with cluster) where this start called: Zemanar_54 (B4),

Start 147:

- Found in 36 of 1507 (2.4%) of genes in pham
- Manual Annotations of this start: 31 of 1344
- Called 91.7% of time when present
- Phage (with cluster) where this start called: Allegro_57 (B2), Arbiter_56 (B2), Ares_57 (B2), Bananafish_57 (B2), Blocker23_57 (B2), Boyle_57 (B2), Brownie5_57 (B2), Calamitous_57 (B2), Coffee_57 (B2), Eaglehorse_57 (B2), Faze9_56 (B2), FrenchFry_57 (B2), Glass_57 (B2), Godines_58 (B2), Hedgerow_57 (B2), Holeinone_57 (B2), ItsyBitsy1_57 (B2), Kaleb_57 (B2), Kheth_57 (B2), Lars_57 (B2), Laurie_57 (B2), Lephleur_57 (B2), LizLemon_57 (B2), MasterPo_57 (B2), Opia_57 (B2), Phantasmagoria_57 (B2), Rhinoforte_57 (B2), Rosebush_56 (B2), Sabella_56 (B2), TA17A_57 (B2), Tinciduntolum_58 (B2), Tres_57 (B2), West99_57 (B2),

Start 149:

- Found in 277 of 1507 (18.4%) of genes in pham
- Manual Annotations of this start: 248 of 1344
- Called 99.6% of time when present
- Phage (with cluster) where this start called: ABU_61 (B1), AbsoluteMadLad_61 (B1), Adriana_62 (B1), Aelin_60 (B1), AltPhacts_60 (B1), Altwerkus_58 (B1), Anderson_61 (B1), Andre_63 (B1), Antonia_60 (B1), Apizium_60 (B1), Ashraf_62 (B1), BFK20_ORF44 (singleton), Badfish_61 (B1), Banjo_59 (B1), Basato_61 (B1),

BatteryCK_61 (B1), Beaglebox_60 (B1), Bishoperium_60 (B1), BlackStallion_62 (B1), BlueHusk_62 (B1), Bluephacebaby_60 (B1), Boehler_60 (B1), Brilliant_63 (B1), Buckeye_61 (B1), Burr_60 (B1), CamL_60 (B1), CampRoach_61 (B1), Cannibal_60 (B1), Carthage_59 (B1), Chaelin_61 (B1), Chah_62 (B1), Charles1_61 (B1), CharlieGBrown_61 (B1), CheetO_60 (B1), Cher_60 (B1), Childish_60 (B1), Chorkpop_60 (B1), Chunky_59 (B1), Chute_62 (B1), Cobra_62 (B1), Colbert_59 (B1), Coletti_63 (B1), Cornobble_60 (B1), Cosmolli16_61 (B1), Craff_63 (B1), Crownjwl_60 (B1), DaddyDaniels_62 (B1), Daffy_60 (B1), Daka_63 (B1), Dati_60 (B1), DelRivs_59 (B1), Derpp_60 (B1), Dice_62 (B1), Dingo_59 (B1), Dione_58 (B1), DirtJuice_61 (B1), Doddsville_61 (B1), DoesntMatter_58 (B1), DonSanchon_58 (B1), DuchessDung_62 (B1), Duggie_61 (B1), Durga_63 (B1), Emiris_63 (B1), EmpTee_60 (B1), Eremos_60 (B1), Etaye_62 (B1), Eugenia_60 (B1), Fang_62 (B1), FluffyNinja_62 (B1), Fozzie_61 (B1), Frankicide_59 (B1), Freya_58 (B1), FriarPreacher_60 (B1), Fringe_64 (B1), FugateOSU_61 (B1), Funsized_59 (B9), Gareth_60 (B1), GeneCoco_61 (B1), Giraffe_61 (B1), Gophee_62 (B1), Grand2040_60 (B1), Gwilliam_62 (B1), Gyarad_0059 (B1), HSavage_59 (B1), Haimas_59 (B1), Haleema_59 (B1), Hamish_59 (B1), Hartsy_60 (B1), Harvey_59 (B1), Held_60 (B1), HenryJackson_60 (B1), Hertubise_60 (B1), Hetaeria_60 (B1), HighStump_62 (B1), Hocus_60 (B1), Horchata_59 (B1), ImtiyazSitla_62 (B1), Inchworm_62 (B1), Inverness_59 (B1), Iridoclysis_61 (B1), IsaacEli_62 (B1), JDog_61 (B1), JacAttac_62 (B1), JakeO_61 (B1), JangoPhett_60 (B1), Jillium_60 (B1), Jiminy_61 (B1), Jiraiya_64 (B1), KLucky39_59 (B1), Kahve_60 (B1), Kailash_61 (B1), Katniss_61 (B1), Keitherie_62 (B1), Kikipoo_62 (B1), Kimbrough_61 (B1), KingTut_53 (B1), KingVeVeVe_59 (B1), KlimbOn_60 (B1), Kloppinator_61 (B1), Knocker_59 (B9), Kwadwo_59 (B1), Kwksand96_61 (B1), Labeouficaum_61 (B1), LasagnaCat_61 (B1), Lasso_61 (B1), LeeLot_61 (B1), Lego3393_59 (B1), Legolas_62 (B1), LeiMonet_63 (B1), LemonSlice_61 (B1), Longacauda_61 (B1), Lopsy_59 (B1), LostAndPhound_61 (B1), LuckyMarjie_58 (B1), Lulumae_58 (B1), Lulwa_58 (B1), Lumine_61 (B1), MRabcd_60 (B1), Mag7_61 (B1), Magic8_61 (B1), Mana_59 (B1), Manad_60 (B1), Maru_60 (B1), Maskar_62 (B1), Matalotodo_60 (B1), Mcshane_59 (B1), Mecca_60 (B1), Megamind20_61 (B1), Megatron_61 (B1), Melc17_60 (B1), MelsMeow_61 (B1), Mesh1_62 (B1), MichaelPhcott_61 (B1), Mikota_59 (B1), MiniBoss_58 (B1), MitKao_60 (B1), Morgushi_60 (B1), Morty_61 (B1), Mosaic_59 (B1), MrPhizzler_61 (B1), Mulan_60 (B1), Murdoc_59 (B1), Mutante_60 (B1), Nacho_0062 (B1), Newman_59 (B1), Nicole21_61 (B1), Numberten_60 (B1), Nyala_59 (B1), OSmaximus_62 (B1), Olak_61 (B1), Oline_61 (B1), Olive_60 (B1), OliverWalter_59 (B1), Omniscient_61 (B1), Oosterbaan_60 (B1), Orfeu_60 (B1), Orion_62 (B1), Orwigg_61 (B1), PG1_61 (B1), Pacifista_63 (B1), Phamished_62 (B1), Phareon_59 (B1), PhatCats2014_61 (B1), PhatLouie_62 (B1), PhenghisKhan_61 (B1), Pherdinand_62 (B1), Phergie_62 (B1), Phipps_60 (B1), Phleuron_61 (B1), PhrankReynolds_60 (B1), PhrodoBaggins_61 (B1), Phunky_59 (B1), PinheadLarry_61 (B1), Pinkman_60 (B1), Pipsqueak_59 (B1), Placalicious_61 (B1), Plmatters_59 (B1), Podrick_59 (B1), Pops_60 (B1), Potter_59 (B1), Prickles_62 (B1), ProfessorX_60 (B1), Puhltonio_60 (B1), QueenBeane_60 (B1), Quisquiliae_61 (B1), RedMaple_62 (B1), Ricotta_60 (B1), Riggan_61 (B1), Rimu_63 (B1), Robyn_60 (B1), Roliet_58 (B1), Roscoe_61 (B1), Roy17_59 (B1), SDcharge11_60 (B1), Samaymay_60 (B1), SassyCat97_59 (B1), Schadenfreude_60 (B1), Schueller_62 (B1), Scoot17C_61 (B1), Scrick_61 (B1), Selr12_62 (B1), Serendipity_60 (B1), Serpentine_0060 (B1), Sheila_58 (B1), ShiVal_58 (B1), Sigman_61 (B1), Simielle_60 (B1), Skippy_61 (B1), Slatt_61 (B1), Soile_61 (B1), Solosis_59 (B1), Sophia_59 (B1), Soto_59 (B1), Spartan300_60 (B1), Squid_60 (B1), Squiggle_61 (B1), Struggle_61 (B1), Suffolk_59 (B1), Surely_60 (B1), Swiphy_64 (B1), Swish_62 (B1), TallGrassMM_60 (B1), Telesworld_58 (B1), Thora_60 (B1), ThreeOh3D2_62 (B1),

Thunderbird_61 (B1), Timmi_59 (B1), TomBombadil_60 (B1), Tomlarah_61 (B1), Toni_60 (B1), Tooj_59 (B1), True_59 (B1), Trypo_63 (B1), TyrionL_61 (B1), UAch1_60 (B1), UncleHowie_59 (B1), Usavi_60 (B1), Vaishali24_59 (B1), Valjean_60 (B1), Vaticameos_57 (B1), Veritas_62 (B1), Virapocalypse_61 (B1), Virgeve_60 (B1), Vista_60 (B1), Vivaldi_62 (B1), Vortex_60 (B1), Wallhey_61 (B1), Waterdiva_60 (B1), Weher20_60 (B1), Windsor_60 (B1), Xavier_59 (B1), Yoshand_62 (B1), YouGoGlencoco_61 (B1), Zaider_61 (B1), Zelda_61 (B1), Zonia_62 (B1),

Start 151:

- Found in 5 of 1507 (0.3%) of genes in pham
- Manual Annotations of this start: 3 of 1344
- Called 60.0% of time when present
- Phage (with cluster) where this start called: CRB2_57 (B9), Quesadilla_58 (B9), Saguaro_58 (B7),

Start 156:

- Found in 6 of 1507 (0.4%) of genes in pham
- Manual Annotations of this start: 1 of 1344
- Called 16.7% of time when present
- Phage (with cluster) where this start called: PenguinLover67_56 (B9),

Start 164:

- Found in 6 of 1507 (0.4%) of genes in pham
- Manual Annotations of this start: 2 of 1344
- Called 33.3% of time when present
- Phage (with cluster) where this start called: ElTiger69_39 (A5), Naca_39 (A5),

Start 170:

- Found in 17 of 1507 (1.1%) of genes in pham
- Manual Annotations of this start: 3 of 1344
- Called 23.5% of time when present
- Phage (with cluster) where this start called: BirdsNest_61 (B13), Hashim76_62 (B13), Jeffabunny_45 (A6), Zenteno07_62 (B13),

Start 172:

- Found in 11 of 1507 (0.7%) of genes in pham
- Manual Annotations of this start: 1 of 1344
- Called 9.1% of time when present
- Phage (with cluster) where this start called: Thonko_60 (B8),

Start 173:

- Found in 3 of 1507 (0.2%) of genes in pham
- No Manual Annotations of this start.
- Called 33.3% of time when present
- Phage (with cluster) where this start called: Pine5_49 (singleton),

Start 174:

- Found in 280 of 1507 (18.6%) of genes in pham
- Manual Annotations of this start: 5 of 1344
- Called 1.8% of time when present
- Phage (with cluster) where this start called: AnClar_50 (DR), BiggityBass_49 (DR), LittleMunchkin_52 (DR), Sisko_49 (DR), Yago84_49 (DR),

Start 177:

- Found in 15 of 1507 (1.0%) of genes in pham
- Manual Annotations of this start: 10 of 1344
- Called 100.0% of time when present
- Phage (with cluster) where this start called: AnarQue_54 (DR), Axumite_51 (DR), CaiB_54 (DR), CharlottesWeb_50 (DR), CloverMinnie_53 (DR), Evaa_50 (DR), Fresco_51 (DR), Ligma_51 (DR), MakoManhole_51 (DR), Mariokart_50 (DR), MossRose_53 (DR), NHagos_52 (DR), Shatter_51 (DR), TPA2_63 (singleton), Wooper_54 (DR),

Start 179:

- Found in 32 of 1507 (2.1%) of genes in pham
- Manual Annotations of this start: 7 of 1344
- Called 21.9% of time when present
- Phage (with cluster) where this start called: Armstrong_40 (EB), Bernstein_40 (EB), Brahms_40 (EB), Coltrane_40 (EB), Rollins_40 (EB), Skylord_40 (EB), Vitas_40 (EB),

Start 180:

- Found in 11 of 1507 (0.7%) of genes in pham
- Manual Annotations of this start: 7 of 1344
- Called 72.7% of time when present
- Phage (with cluster) where this start called: A3Wally_117 (GD1), Big4_105 (GD2), Cece_99 (GD3), HarveySr_57 (B3), Pumpernickel_113 (GD4), StAugustine_89 (singleton), Yinz_58 (B3), Zooman_100 (GD2),

Start 182:

- Found in 61 of 1507 (4.0%) of genes in pham
- Manual Annotations of this start: 49 of 1344
- Called 88.5% of time when present
- Phage (with cluster) where this start called: Abigail_42 (EB), Albedo_43 (EB), Albright_40 (EB), AnnaLie_43 (EB), Arroyo_43 (EB), AvGuardian_44 (EB), Avocadoman_41 (EB), BAjuniper_43 (EB), BabyDaisy_42 (EB), BabyYoda_43 (EB), Bachaco_41 (EB), BelmontSKP_43 (EB), BubbaBear_41 (EB), Burritobowl_42 (EB), Cashington_40 (EB), Celaena_40 (EB), ChiliPepper_40 (EB), Clayda5_41 (EB), CroZenni_42 (EB), DickRichards_41 (EB), Didgeridoo_45 (EB), DirtyBubble_42 (EB), Dismas_40 (EB), Doobus_41 (EB), Eden_40 (EB), Elva_44 (EB), Eula_43 (EB), Finalfrontier_43 (EB), FlameThrower_40 (EB), Franklin22_41 (EB), Gack_40 (EB), Icarian_47 (EB), IndyLu_42 (EB), Johnathan_41 (EB), Jovita_43 (EB), Katzastrophic_41 (EB), Kenzers_43 (EB), Kieran_40 (EB), Lahqtemish_42 (EB), LimaBean_42 (EB), Lynlen_43 (EB), Nicky22_43 (EB), Phisb_45 (EB), QMacho_45 (EB), Rona_40 (EB), SanaSana_45 (EB), SansAfet_43 (EB), SarBear_42 (EB), Sharkboy_41 (EB), Slay_43 (EB), Stoor_43 (EB), Stromboli_43 (EB), Swervy_43 (EB), TukTuk_43 (EB),

Start 183:

- Found in 45 of 1507 (3.0%) of genes in pham
- Manual Annotations of this start: 42 of 1344
- Called 100.0% of time when present
- Phage (with cluster) where this start called: Abinghost_58 (B3), Akoma_58 (B3), Athena_60 (B3), Audrey_58 (B3), Baloo_58 (B3), Ben11_58 (B3), Bernardo_59 (B3), Briakila_57 (B3), Casbah_58 (B3), ChaChing_58 (B3), Chandler_58 (B3),

Compostia_58 (B3), Corofin_58 (B3), Daisy_57 (B3), Deenasa_58 (B3), Devonte_57 (B3), Gadget_59 (B3), Gervas_59 (B3), GlenHope_59 (B3), Halfpint_57 (B3), Heathcliff_58 (B3), Jackstina_54 (B3), Kamiyu_58 (B3), Kronus_58 (B3), LestyG_57 (B3), Marley1013_59 (B3), MmasiCarm_59 (B3), Mortcellus_58 (B3), Morty007_58 (B3), Neos5_58 (B3), Nozo_58 (B3), Obutu_59 (B3), OrangeOswald_58 (B3), Phaedrus_54 (B3), Phayeta_60 (B3), Philly_57 (B3), Phlyer_58 (B3), Pipefish_59 (B3), RagingRooster_57 (B3), Rita1961_59 (B3), RomaT_58 (B3), SlippinJimmy_60 (B3), SynergyX_58 (B3), Tydolla_56 (B3), Yahalom_57 (B3),

Start 185:

- Found in 12 of 1507 (0.8%) of genes in pham
- Manual Annotations of this start: 2 of 1344
- Called 33.3% of time when present
- Phage (with cluster) where this start called: Buldak_40 (EB), GMA2_66 (DS), GodonK_188 (DK), Phendrix_176 (DK),

Start 186:

- Found in 358 of 1507 (23.8%) of genes in pham
- Manual Annotations of this start: 3 of 1344
- Called 1.1% of time when present
- Phage (with cluster) where this start called: Qyrzula_52 (B2), SirJeffery_57 (B5), Sixama_172 (DS), Sour_53 (DR),

Start 188:

- Found in 4 of 1507 (0.3%) of genes in pham
- Manual Annotations of this start: 4 of 1344
- Called 100.0% of time when present
- Phage (with cluster) where this start called: BlueNGold_170 (DS), Boopy_173 (DS), Forza_174 (DS), Mareelih_171 (DS),

Start 189:

- Found in 8 of 1507 (0.5%) of genes in pham
- Manual Annotations of this start: 7 of 1344
- Called 100.0% of time when present
- Phage (with cluster) where this start called: Floof_49 (EH), GardenState_48 (EH), Gretchen_48 (EH), Honk_44 (EH), IAmGroot_48 (EH), Percival_49 (EH), SuMoo_50 (EH), Zeta1847_40 (EH),

Start 190:

- Found in 9 of 1507 (0.6%) of genes in pham
- Manual Annotations of this start: 8 of 1344
- Called 100.0% of time when present
- Phage (with cluster) where this start called: Barnstormer_47 (EH), Caron_50 (EH), EZMoney23_43 (A2), Jsquared_43 (A2), Keziacharles14_44 (A9), Mabodamaca_48 (EH), TopsytheTRex_42 (A2), Toaka_44 (A9), UtzChips_47 (EH),

Start 191:

- Found in 919 of 1507 (61.0%) of genes in pham
- Manual Annotations of this start: 828 of 1344
- Called 99.1% of time when present
- Phage (with cluster) where this start called: 20ES_45 (A2), A6_41 (A1), ACFishhook_47 (A3), AEgle_37 (AZ1), AFIS_43 (A1), AGrandiflora_42 (AZ1), AN3_45 (A2), AN9_48 (A2), ANI8_48 (A2), AbbeyMikolon_44 (BL), AbbyPaige_46

(A2), AbbysRanger_44 (A4), Abbysshoes_47 (A1), Abdiel_45 (A4), Abrogate_440 (A1), Achebe_43 (A4), Acme_47 (A1), Acolyte_41 (A2), Adahisdi_44 (A1), Adolin_40 (AZ1), Adumb2043_38 (AZ1), Adzzy_46 (A2), Aeneas_47 (A1), Agaliana_41 (A1), Agape74_46 (A2), AgentM_37 (A5), Aglet_49 (A3), AgronaGT15_47 (A3), AinMach_42 (AZ), Airmid_39 (A5), Ajay_45 (A1), Alatin_36 (CA), Albee_45 (A4), Alberto7_46 (A4), Aliter_45 (A9), Alma_45 (A9), Alpacados_35 (CA), Alsfro_48 (A1), Altman_46 (A1), Alvin_44 (A1), Amyev_40 (AZ1), Anaysia_47 (A15), Aneem_45 (A11), Anglerfish_45 (A1), AngryOrchard_34 (CA), AnnaL29_46 (A2), Annyong_45 (A4), Anon_42 (A15), Anselm_45 (A2), Anthony_39 (A20), Anubis_51 (A3), AppleCloud_34 (CA), Applejack_41 (A1), Aragog_37 (A5), Arcanine_46 (A1), ArcherNM_42 (A2), Archetta_38 (A5), Arissanee_44 (A9), Arlo_42 (A1), Artemis2UCLA_45 (A6), Arturo_44 (A4), Asa16_39 (AZ1), Ascela_41 (AZ1), Ashballer_46 (A1), Astro_42 (A8), Atkinbua_46 (A1), Attoomi_34 (singleton), AugsMagnumOpus_51 (A3), AvatarAhPeg_44 (A4), Avle17_45 (A4), B1_42 (A3), BABullseye_43 (A6), BK1_41 (A1), BPBiebs31_45 (A1), Baby16_45 (A4), BabyBack_42 (A2), BabyRay_45 (A3), Bachome_46 (A11), Backyardigan_43 (A4), BaconJack_48 (A1), Bactobuster_43 (A2), Badger_43 (A4), Baehexic_43 (A2), BaileyBlu_41 (FP), BangNhom_46 (A4), Barriga_45 (A1), Bartimeaus_45 (A4), Battleship_48 (A15), Beatrix_44 (A1), Beauxregard13_48 (A3), Beemo_45 (A9), BeesKnees_45 (A1), Belenaria_36 (CA), BellusTerra_46 (A4), Benedict_39 (A5), BengiVuitton_44 (A2), Benvolio_41 (A2), Berrie_42 (AZ1), Bethlehem_44 (A1), Bexan_43 (A1), BiancaTri92_44 (A2), Big3_43 (A1), BigMau_45 (A1), BigPaolini_45 (A1), Bigfoot_41 (A1), BillKnuckles_45 (A1), Bircsak_44 (A1), Blackmoor_45 (A4), Blinn1_48 (A6), BluSpix_43 (A1), Blue7_48 (A6), BlueBird_47 (A3), Blue_44 (A1), Bluefalcon_37 (A5), Bob3_42 (A1), BobSwaget_44 (A2), BobbyDazzler_36 (CA), BogosyJay_44 (A9), Bombshell_45 (A4), Bonamassa_39 (A5), Bonanza_36 (CA), Bones_45 (A1), Boohoo_47 (A15), Bowtie_45 (A11), Bradshaw_36 (CA), BreSam8_48 (A3), Briton15_46 (A1), Broseidon_45 (A4), Bruiser_44 (A4), Brunns_43 (A1), Bryce_36 (CA), BubbleTrouble_44 (A4), Bud_44 (A11), Bugatti_46 (A3), Buggy_46 (A2), Bumblebee11_43 (A4), Burger_43 (A4), Burton_44 (A1), Buttons_43 (A1), BuzzBuzz_46 (A3), Bxb1_41 (A1), Bxz2_44 (A3), C3_43 (A2), CRB1_46 (A2), CactusRose_42 (A1), Caelakin_45 (A4), CallinAllBarbz_41 (FP), Camperdownii_43 (A4), Candra_45 (A6), Caraxes_45 (A2), Carlyle_44 (A1), Cassia_40 (AZ1), Catalina_46 (A9), Caviar_44 (A3), Cen1621_44 (EH), Centaur_45 (A2), CentreCat_45 (A4), Cerulean_46 (A4), Chadwick_40 (A5), ChampagnePapi_47 (A4), Chanagan_42 (A1), Changeling_45 (A2), Chaph_45 (A4), Chargerpower_44 (A), Charm_42 (A9), Chartreuse_45 (A6), Che12_47 (A2), ChipMunk_47 (A2), Chupacabra_43 (A10), Ciao_45 (A1), Cici_44 (A4), Cindaradix_42 (A4), Cintron_44 (A4), Citius_45 (A4), Clarenza_44 (A4), CloudWang3_45 (A6), Cocoaberry_45 (A4), Colbster_48 (A3), Colin_46 (A2), Commander_45 (A4), Community_43 (AZ1), Conceptll_46 (A1), Connomayer_45 (A4), Conquerage_45 (A9), Conspiracy_38 (A5), Coog_38 (A5), Cookiedough_45 (A6), Corvo_45 (A1), CosmicSans_36 (CA), Crewmate_46 (AZ1), Crispicous1_43 (A1), Crucio_44 (A2), Cucu_38 (A5), Cueyllyss_46 (A1), Cullens_48 (A3), Cyan_40 (AZ1), D29_44 (A2), D32_47 (A2), DBQu4n_47 (A2), DD5_44 (A1), DaHudson_48 (A3), DaVinci_45 (A6), Daishi_47 (A3), Dalmatian_45 (A2), Danforth_42 (A8), Darrell_45 (A9), DarthPhader_42 (A12), Datway_44 (A4), Deano_44 (A4), DekHockey33_47 (A15), Deloris_43 (A2), Dexes_45 (A1), Dhanush_45 (A4), Dieselweasel_49 (A3), Dignity_46 (A2), Dinger_36 (CA), DirtyDunning_44 (A4), Discoknowium_37 (A5), Dixon_43 (A8), Doom_45 (A1), Dorothea_44 (A6), DrFeelGood_43 (A1), DrManhattan_40 (AZ1), DrSierra_39 (AZ1), Drake55_46 (A2), Drake94_42 (A10), DreamCatcher_47 (A1), DreamTeam1_42 (A9), Dreamboat_46 (A1), DroogsArmy_41 (A7), Druantia_45 (A4), Dublin_37 (A5), Dubu_35 (BJ), DudeLittle_43 (A2), Dulcie_45 (A1), Duplo_47 (A2), Dussy_46 (A1),

Dynamix_45 (A1), EagleEye_46 (A16), Eagle_45 (A4), Eaglepride_45 (A10), Eapen_45 (A4), Ebony_45 (A11), Echild_44 (A2), Edison31_42 (A10), Edtherson_45 (A1), Eidsmoe_45 (A9), Elephantoon_44 (A9), Elezi_39 (AZ1), Emotion_46 (AZ4), EmyBug_42 (A9), EpicPhail_49 (A3), Epsocamasio_46 (A15), Equemioh13_45 (A2), Eraser_39 (AZ1), EricB_45 (A6), Erik_36 (CA), Eris_44 (A4), Eros_45 (A4), Espica_36 (CA), Espresso_44 (A1), Et2Brutus_44 (A11), Euphoria_43 (A1), Euratis_35 (BB1), Eurydice_46 (A4), EvilGenius_47 (A2), Exile_36 (AZ), Expelliarmus_42 (A8), ExplosioNervosa_45 (A9), Eyeball_46 (A1), Fajezeel_47 (A1), Fameo_44 (A2), Farber_48 (A3), Fascinus_41 (A1), Fayely_45 (A9), Fenn_46 (A1), Fernando_48 (A3), Fibonacci_44 (A11), FiringLine_44 (A2), First_0044 (A2), Flare16_44 (A2), Flaverint_45 (A11), Florean_45 (A4), Flux_45 (A4), ForGetIt_38 (A5), Forsytheast_44 (A1), Francis47_44 (A1), Fred313_45 (A3), FrogHopper_43 (A1), Funston_44 (A4), Fushigi_43 (A1), Gadost_45 (A4), GageAP_45 (A1), Gail_49 (A14), Gandalf20_46 (A1), Garak_47 (A6), GaugeLDP_43 (A2), Gemma_47 (A3), George_38 (A5), Georgie2_45 (A2), Ghoulboy_40 (A5), Gilberta_45 (A11), GingkoMaracino_48 (A3), Giroux_46 (A3), Gladiator_45 (A6), Gollum_36 (CA), Gompeii16_44 (A1), Goose_44 (A10), Graduation_48 (A1), GrecoEtereo_45 (A1), GreedyLawyer_45 (A6), Greg_47 (A1), Grif_48 (A3), Groundhog_41 (A8), Groupthink_49 (A3), Grub_48 (A3), Grum1_48 (A3), Gruunaga_45 (A6), GtownJaz_48 (A3), Gwendoluna_48 (A1), Gyzlar_41 (A1), HINdeR_41 (A7), HamSlice_44 (A4), Hami1_38 (A1), Hammer_47 (A6), HanShotFirst_43 (A1), Happiness_44 (A4), Harlequin_36 (CA), HarryHoudini_45 (A2), HarryOW_43 (A1), HashRod_49 (A3), HaveUMetTed_49 (A3), Heathen_45 (A3), Heather_37 (BB2), Heffalump_43 (A2), HelDan_45 (A3), Heliosoles_47 (A3), Helmet_47 (A6), Herbertwm_42 (A2), Hercules11_48 (A3), Hermia_46 (A1), HermioneGrange_44 (A1), Hexamo_45 (A6), Hiro_36 (CA), Holli_44 (A4), Homines_37 (A1), Hookmount_44 (A3), Hoot_45 (A6), Hope4ever_46 (A1), HortumSL17_45 (A9), Houdini22_45 (A4), HuhtaEnerson15_39 (A5), Hutc2_44 (A11), ICleared_45 (A4), ILeeKay_49 (A1), Iceman_45 (A4), Ichabod_46 (A1), Idleandcovert_46 (A3), IgnatiusPatJac_44 (A1), Indra_48 (A6), Insomnia_44 (A11), Iracema64_46 (A4), IronMan_44 (A2), Isca_44 (A3), Isiphiwo_43 (A6), Iter_41 (AZ1), IttyBittyPiggy_40 (AZ1), Iwokeuplikedis_47 (A2), JC27_45 (A1), JF2_45 (A3), JF4_45 (A3), JHC117_48 (A3), JSwag_46 (A15), Jaan_45 (A2), Jabiru_39 (A5), Jabith_45 (A11), JackSparrow_46 (A1), Janeemi_43 (AZ1), JasmineDragon_47 (AZ4), Jasper_46 (A1), Jaykayelowell_43 (A4), Jeeves_50 (A14), JenCasNa_49 (A3), JeppNRM_49 (A3), Jerm2_45 (A1), Jerm_46 (A2), Jester_36 (CA), JetBlade_45 (A4), JewelBug_47 (A6), Jobu08_47 (A3), Joemato_43 (AZ1), JohnDoe_41 (AZ1), JoongJeon_44 (A4), Jordennis_45 (A6), Jorgensen_45 (A1), Joselito_45 (A11), JoshKayV_46 (A2), Journey13_40 (A2), Jovo_38 (A5), Jstan_41 (AZ1), JuliaChild_45 (A1), KADY_48 (A3), KBG_46 (A1), KFPoly_44 (A4), KSSJEB_43 (A1), Kalb97_49 (A3), Kalnoky_49 (A3), Kalpine_44 (A2), Kampy_45 (A4), Kanely_45 (A1), Katalie136_44 (A4), KatherineG_48 (A15), Kaylissa_42 (AZ1), Kazan_46 (A6), KeAlii_40 (AZ1), Kenmech_48 (A1), Kerberos_47 (A2), Killigrew_44 (A1), Kimona_43 (A19), KingCyrus_47 (A2), Kingmustik0402_45 (A4), Kipper29_45 (A6), KittenMittens_41 (A10), Koduck_44 (A2), Koko_47 (A6), Koreni_44 (A4), Kratark_45 (A4), Kremtemulon_43 (A4), Krishelle_36 (CA), Kristoff_44 (A10), Kugel_46 (A1), KyMonks1A_47 (A1), Kye_45 (A4), Kykar_45 (A1), L5_44 (A2), LBerry_49 (A3), LHTSCC_47 (A4), LadyBird_47 (A2), Lambert1_44 (A3), Lamina13_45 (A1), Landor_44 (A2), LappelDuVide_44 (A4), Larenn_44 (A2), LarryKay_48 (A3), LastResort_46 (A15), Lego_41 (AZ1), Lemur_45 (A4), LeoAvram_45 (A4), Leogania_44 (A2), Lesedi_42 (A1), Lev2_38 (A5), Leviathan_46 (A2), Licorice_48 (A1), LilBib_45 (A1), LilTurb_45 (A2), Lilbooboo_34 (BB1), Lilbunny_43 (A6), Lilith_49 (A3), Lillie_36 (CA), LittleB_45 (A4), LittleCherry_39 (A5), LittleGuy_45 (A4),

Lizalica_39 (AZ1), LochMonster_46 (A4), Lockley_44 (A1), Lokk_45 (A2), London_39 (AZ1), LoneWolf_45 (A9), Looper_47 (A15), Lopton_45 (A1), Lorenzo_45 (A4), Loser_46 (A2), Louie6_47 (A3), Luchador_50 (A14), Lucivia_45 (A11), Lucyedi_45 (A16), LugYA_51 (A3), Lunsford_46 (A4), MA5_45 (A3), MK4_45 (A3), MPlant7149_43 (A1), MaCh_45 (A11), MaGuCo_40 (AZ2), Mabel_45 (A11), MadMarie_48 (A3), Magnar_44 (A1), Magnito_42 (A1), Mainiac_48 (A3), Makemake_44 (A1), Malec_45 (A2), Malinsilva_50 (A3), Maminaiaina_44 (A9), Manatee_45 (A1), Manu_48 (A3), MarQuardt_48 (A3), Marcell_43 (A1), Marchy_38 (A1), Marge_45 (A1), Margo_44 (A3), Marie_48 (A3), Marius_49 (A3), Maroc7_43 (A1), Marsha_45 (A1), MaryBeth_45 (A1), MarysWell_37 (A5), Maureen_42 (AZ2), Maverick_45 (A4), Maxo_46 (A4), Mazhar510_45 (A4), McFly_45 (A6), McGuire_45 (A1), Medusa_45 (A4), MeeZee_45 (A4), Melvin_47 (A4), MetalQZJ_44 (A1), Methuselah_45 (A3), Micasa_39 (A5), Michley_44 (A1), Microwolf_48 (A3), MiculUcigas_44 (A2), Midas2_38 (A5), Miko_43 (A2), Milcery_39 (A5), Millski_44 (A4), MinecraftSteve_48 (A15), MiniMommy_47 (AZ4), Miramae_44 (A4), Misomonster_49 (A3), MissSwiss_41 (AZ1), MissWhite_43 (A2), Molly_45 (A1), Monet_48 (A1), MoneyMay_48 (A3), Moose_44 (A1), Morpher26_44 (A4), Morrow_46 (A4), Moss_45 (AZ), MrGordo_44 (A1), Mryolo_42 (A1), MuchMore_51 (A3), Mudpuppy_39 (AZ1), Mulciber_44 (A11), Mule_42 (A1), Munch_45 (A11), Mundrea_44 (A4), Museum_45 (A1), MyraDee_40 (A18), Myxus_45 (A9), NEHalo_43 (A1), NaSiaTalie_44 (A2), Naiad_36 (CA), Naira_46 (A1), Naji_47 (A2), Nancinator_36 (CA), Natosaleda_36 (CA), NearlyHeadless_43 (A8), Nebs_46 (A4), Nebulosus_46 (A15), Nedarya_43 (A15), Neeharika16_45 (A6), Nemo27_45 (A4), Nerujay_46 (A1), Nesbitt_42 (BL), Newrala_45 (A6), Nhonho_45 (A1), NicoleTera_45 (A2), Niobe_39 (AZ1), Nitro_40 (AZ1), Niza_47 (A1), Noella_44 (A3), Noelle_45 (A4), Norbert_43 (A3), NorthStar_44 (A4), Norz_45 (A1), NotAPhaseMom_45 (A4), NothingSpecial_43 (A2), Nyxis_45 (A4), OKCentral2016_43 (A10), OKaNui_45 (A4), Obama12_46 (A4), ObiToo_46 (AZ1), Odin_44 (A2), Ohfah_46 (A4), Ohno789_45 (A1), OlanP_47 (A3), Ollie_48 (A3), Oofda_48 (A15), Oogway_42 (A1), Orange_44 (A11), P28Green_49 (A3), PGHhamlin_50 (A3), PP_46 (A7), PSullivan_44 (A1), PacerPaul_45 (A1), PackMan_44 (A9), PainterBoy_45 (A16), Palestino_44 (A4), Panamaxus_42 (A3), Papez_47 (A1), Paphu_43 (A1), Paraselene_43 (A1), Pari_45 (A1), Parliament_44 (A1), Partridge_36 (CA), PascalRango_45 (A1), PattyP_45 (A1), PauloDiaboli_117 (GD1), Pawn_48 (A3), Payneful_43 (A1), PeaceMeal1_42 (A10), Peaches_45 (A4), Pelly_44 (A1), Pembroke_48 (A3), Penny1_49 (A3), Pepe_42 (A1), Perplexer_44 (A4), Perseus_45 (A1), PeterPeter_45 (A4), Petersenfast_43 (A11), Peterson_48 (A1), PetiteSangsue_44 (A4), Petp2012_45 (A1), Petrucchio_45 (A1), PetterN_40 (A5), Ph8s_46 (A2), Phacado_45 (A4), Phaded_46 (A2), Phaeder_45 (A9), PhailMary_35 (CA), Phantastic_46 (A3), Pharaoh_39 (A12), Felipe_46 (A4), PherrisBueller_44 (A1), Phighter1804_45 (A4), Phillis_44 (A8), PhishRPhriends_46 (A3), Phives_43 (AZ1), Phlei_33 (A13), Phlorence_37 (A5), Phoebe_49 (A3), Phonnegut_45 (A9), Phontbonne_45 (A4), Phoxy_48 (A3), Phrankenstien_36 (CA), Phranny_49 (A3), PhrostyMug_44 (A1), PickleBack_38 (A5), PinkPlastic_43 (A1), Pinto_45 (A1), Pioneer_45 (A9), Pipcraft_43 (A4), Pippin_47 (A1), Piro94_44 (A2), Pistachio_47 (A3), Pita2_47 (A1), Pixelle_42 (AZ1), Pmask_45 (A6), Pocahontas_44 (A3), Polymorphads_46 (A4), Pomar16_47 (A2), Poompha_43 (A10), Popcicle_44 (A3), PotatoSplit_50 (A3), Power_43 (A2), Powerpuff_43 (AZ1), Priamo_47 (A6), Priya_45 (A9), Pukovnik_43 (A2), Pumbaa_45 (A4), Pumpkins_62 (AZ1), Puppy_47 (A3), PurpleHaze_48 (A3), QTRlifeCrisis_49 (A1), Qobbit_45 (A9), QueenB2_44 (A2), QueenBeesly_44 (A2), Quenya_42 (EB), QuinnKiro_43 (A3), RER2_29 (CA), RGL3_31 (CA), Rachaly_45 (A2), Rahalelujah_44 (A9), Rajelicia_46 (A1), Rasputin_36 (CA), ReMo_46 (A15), Reba_48 (A3), Rebeuca_44 (A10), RedRock_46 (A2), Reedo_40 (AZ1), Refuge_44 (A12), Relief_44 (A4),

RemusLoopin_36 (BB2), Remus_47 (A15), ResDef_45 (A3), Retro23_45 (A2), RexFury_36 (CA), Rhodalysa_36 (CA), RhynO_45 (A10), Rhynn_44 (A1), RidgeCB_44 (A1), Rifter_47 (A6), Ringer_46 (A1), Roary_43 (A8), Rockstar_45 (A3), Rohr_45 (A1), Roksolana_46 (A6), Romney_45 (A4), Roosevelt_44 (A4), Rosalind_46 (A15), Rowa_41 (BL), Rubeus_45 (A1), Rufus_45 (A1), Ruin_45 (A4), Rummer_47 (A3), Ruotula_48 (A1), Rutherford_47 (A1), STLscum_46 (A1), Sabertooth_45 (A4), Sabia_48 (A3), Sabinator_47 (A3), Sagefire_48 (A1), Saintus_38 (A8), Salz_44 (A11), Samora_36 (BB1), Samy_65 (singleton), Sandaddy_44 (A1), SarFire_43 (A1), SaturnRing_46 (A3), Scamp_45 (A4), Scherzo_45 (A9), Scorpia_40 (A5), Scout_45 (A3), Scowl_45 (A1), Seabiscuit_46 (A1), Seanderson_47 (A1), Sebastisaurus_36 (BB2), SemperFi_45 (A2), Serenity_45 (A2), Severus_42 (A10), Shaka_45 (A4), ShakeltOph_47 (AZ4), Sham4_44 (A11), Shawty_33 (BB1), ShayRa_48 (A15), SheaKeira_43 (A9), Sheen_44 (A7), SheldonCooper_47 (A4), ShortQueendom_39 (A1), Shuman_36 (CA), Shygu2_44 (A4), Sibs6_45 (A1), Simpson_43 (AZ1), SkiPole_47 (A1), Skipitt_44 (A4), Slagathor_47 (A1), Smairt_47 (A1), Smeadley_43 (A8), Smeagan_47 (A2), Smeagol_46 (A1), SmellyB_45 (A6), SnapTap_44 (A2), Snape_44 (A11), Snazzy_42 (A1), Snek_40 (AZ3), Snickers_48 (A3), SoYo_48 (A3), SoilDragon_48 (A3), Solon_44 (A1), Soondubu_36 (AZ), SororFago_48 (A14), Sorpresa_43 (A1), Soshari_50 (A3), Soups_47 (A15), Sparxx_46 (A4), Spike509_48 (A3), SpikeBT_45 (A1), Spino_44 (A4), Spouty_43 (A9), Squee_44 (A1), StCroix_36 (CA), Stagni_48 (A3), StarStuff_47 (A2), Stasia_44 (A4), Steamy_41 (A12), StepMih_48 (A3), Stephig9_43 (A8), StewieG_44 (A1), Stink_45 (A4), StrongArm_44 (A1), Strosahl_47 (A15), Success_19 (singleton), Sue2_42 (AZ1), Sumter_42 (A1), Sunshine924_45 (A1), SuperAwesome_45 (A6), SuperCallie99_45 (A6), Superchunk_44 (A2), Swann_36 (CA), SweetiePie_44 (A2), SwirlSquare_48 (A2), Swirley_41 (A5), SwissCheese_46 (A1), Switzer_45 (A1), Switzerland_47 (A15), Swole_45 (A1), SydNat_40 (A5), TG1_31 (BB1), TNguyen7_46 (A3), TWAMP_36 (CA), Takoda_36 (CA), Tallboi_42 (AZ1), Taquarus_45 (A4), Target_45 (A1), TarsusIV_42 (A2), Tarynearl_37 (A5), Tasp14_46 (A1), Taurus_49 (A3), Tbone_40 (AZ1), Teodoridan_43 (A1), Texage_43 (A3), TforTroy_42 (AZ1), Thanksgivukkah_44 (A4), Theia_36 (A5), TheloniousMonk_46 (A1), Thor_43 (A1), Tian_39 (AZ1), Tiffany_48 (A3), Tiger_37 (A5), Timothy_45 (A11), Timshel_43 (A7), TinaFeyge_45 (A4), TinyTimmy_44 (A11), Tinybot_44 (A4), TiroTheta9_45 (A4), Todacoro_44 (A3), Tomathan_47 (A2), ToneTone_42 (A6), Topanga_42 (A10), Topgun_44 (A1), Tote_40 (A1), Traft412_45 (A1), Treddle_46 (A1), Trike_42 (A10), Tripl3t_45 (A1), Trixie_44 (A2), Trooper_45 (A2), Trouble_46 (A1), TroyPia_46 (A4), Tubs_45 (A9), Tuck_44 (AZ1), Tucker_46 (A6), Turab_38 (AZ1), Turbido_45 (A2), Turj99_42 (A1), Tutumahutu_42 (AZ1), Tweety19_41 (AZ3), Twister_42 (A10), TwoPeat_44 (A1), TygerBlood_45 (A4), U2_43 (A1), Ugenie5_42 (A9), UhSalsa_36 (CA), Ulysses_44 (A4), UnionJack_39 (A5), Updawg_45 (A2), VA6_43 (A2), VC3_48 (A2), VResidence_41 (AZ1), Vanisoa_44 (A9), Vash_34 (BB1), Veracruz_43 (A3), Violet_42 (A1), Vix_48 (A3), VohminGhazi_45 (A6), VroomVroom_45 (AZ4), Waits_47 (A15), WalterMcMickey_42 (A10), Wander_45 (A4), Warda_41 (AZ1), Watermelon_46 (A1), Watson_48 (A3), WeiHuaDA_48 (A2), Whabigail7_45 (A2), Wheeler_45 (A1), WideWale_45 (A2), Wiks_44 (A6), Wilbur_45 (A4), Wildwest_40 (AZ1), Wile_44 (A4), Wilkins_44 (A1), Wizard007_45 (A4), Wooldri_50 (A3), WunderPhul_45 (A6), Xena_43 (A4), XianYue_44 (A2), Yecy3_46 (A9), YesChef_41 (AZ1), YoSam321_45 (A4), Yogi_36 (CA), Yokurt_45 (A6), Yoncess_36 (CA), Zaka_45 (A6), Zeeculate_43 (A1), Zephyr_44 (A1), Zetzy_47 (A3), Zeuska_44 (A1), Zimmer_42 (A12), Zolita_39 (A5), Zulu_46 (A6), phiBT1_11 (BB1), phiSASD1_12 (BJ),

Start 193:

- Found in 1 of 1507 (0.1%) of genes in pham
- Manual Annotations of this start: 1 of 1344
- Called 100.0% of time when present
- Phage (with cluster) where this start called: Ibantik_18 (singleton),

Start 194:

- Found in 9 of 1507 (0.6%) of genes in pham
- Manual Annotations of this start: 1 of 1344
- Called 55.6% of time when present
- Phage (with cluster) where this start called: Bloom_103 (FC), Mimi_105 (FC), Patbob_100 (FC), Racecar_100 (FC), Talia1610_101 (FC),

Start 195:

- Found in 4 of 1507 (0.3%) of genes in pham
- No Manual Annotations of this start.
- Called 25.0% of time when present
- Phage (with cluster) where this start called: SJReid_106 (FC),

Start 201:

- Found in 240 of 1507 (15.9%) of genes in pham
- No Manual Annotations of this start.
- Called 0.8% of time when present
- Phage (with cluster) where this start called: Frederick_53 (B4), Prince_54 (B4),

Start 213:

- Found in 1 of 1507 (0.1%) of genes in pham
- Manual Annotations of this start: 1 of 1344
- Called 100.0% of time when present
- Phage (with cluster) where this start called: Shocker_43 (singleton),

Start 221:

- Found in 178 of 1507 (11.8%) of genes in pham
- No Manual Annotations of this start.
- Called 1.1% of time when present
- Phage (with cluster) where this start called: Atuin_96 (FC), DunneganBoMo_92 (FC),

Summary by clusters:

There are 62 clusters represented in this pham: FP, GD1, singleton, BG, GD4, DK, BL, BM, BS, GD2, BJ, FC, B12, B13, B10, B11, GD3, DR, DS, A15, A14, A17, A16, A11, A10, A13, A12, A19, A18, A1, A3, A2, A5, A4, A7, A6, A9, A8, BB2, BB1, A, EH, CA, CD, AQ, GB, EB, A20, B8, AZ, B4, B5, B6, B7, B1, B2, B3, AZ1, AZ2, AZ3, AZ4, B9,

Info for manual annotations of cluster A:

- Start number 191 was manually annotated 1 time for cluster A.

Info for manual annotations of cluster A1:

- Start number 191 was manually annotated 195 times for cluster A1.

Info for manual annotations of cluster A10:

- Start number 191 was manually annotated 16 times for cluster A10.

Info for manual annotations of cluster A11:

- Start number 191 was manually annotated 22 times for cluster A11.

Info for manual annotations of cluster A12:

- Start number 191 was manually annotated 5 times for cluster A12.

Info for manual annotations of cluster A14:

- Start number 191 was manually annotated 4 times for cluster A14.

Info for manual annotations of cluster A15:

- Start number 191 was manually annotated 21 times for cluster A15.

Info for manual annotations of cluster A16:

- Start number 191 was manually annotated 3 times for cluster A16.

Info for manual annotations of cluster A18:

- Start number 191 was manually annotated 1 time for cluster A18.

Info for manual annotations of cluster A19:

- Start number 191 was manually annotated 1 time for cluster A19.

Info for manual annotations of cluster A2:

- Start number 190 was manually annotated 2 times for cluster A2.
- Start number 191 was manually annotated 98 times for cluster A2.

Info for manual annotations of cluster A20:

- Start number 191 was manually annotated 1 time for cluster A20.

Info for manual annotations of cluster A3:

- Start number 191 was manually annotated 111 times for cluster A3.

Info for manual annotations of cluster A4:

- Start number 191 was manually annotated 135 times for cluster A4.

Info for manual annotations of cluster A5:

- Start number 164 was manually annotated 2 times for cluster A5.
- Start number 191 was manually annotated 35 times for cluster A5.

Info for manual annotations of cluster A6:

- Start number 170 was manually annotated 1 time for cluster A6.
- Start number 191 was manually annotated 38 times for cluster A6.

Info for manual annotations of cluster A7:

- Start number 191 was manually annotated 5 times for cluster A7.

Info for manual annotations of cluster A8:

- Start number 191 was manually annotated 11 times for cluster A8.

Info for manual annotations of cluster A9:

- Start number 190 was manually annotated 2 times for cluster A9.
- Start number 191 was manually annotated 30 times for cluster A9.

Info for manual annotations of cluster AQ:

- Start number 86 was manually annotated 11 times for cluster AQ.

Info for manual annotations of cluster AZ1:

- Start number 132 was manually annotated 1 time for cluster AZ1.
- Start number 191 was manually annotated 33 times for cluster AZ1.

Info for manual annotations of cluster AZ2:

- Start number 104 was manually annotated 1 time for cluster AZ2.
- Start number 191 was manually annotated 2 times for cluster AZ2.

Info for manual annotations of cluster AZ3:

- Start number 191 was manually annotated 2 times for cluster AZ3.

Info for manual annotations of cluster AZ4:

- Start number 191 was manually annotated 2 times for cluster AZ4.

Info for manual annotations of cluster B1:

- Start number 133 was manually annotated 1 time for cluster B1.
- Start number 149 was manually annotated 246 times for cluster B1.

Info for manual annotations of cluster B10:

- Start number 138 was manually annotated 1 time for cluster B10.

Info for manual annotations of cluster B11:

- Start number 144 was manually annotated 1 time for cluster B11.

Info for manual annotations of cluster B12:

- Start number 141 was manually annotated 1 time for cluster B12.

Info for manual annotations of cluster B13:

- Start number 170 was manually annotated 2 times for cluster B13.

Info for manual annotations of cluster B2:

- Start number 147 was manually annotated 31 times for cluster B2.
- Start number 186 was manually annotated 1 time for cluster B2.

Info for manual annotations of cluster B3:

- Start number 180 was manually annotated 2 times for cluster B3.
- Start number 183 was manually annotated 42 times for cluster B3.

Info for manual annotations of cluster B4:

- Start number 124 was manually annotated 2 times for cluster B4.
- Start number 128 was manually annotated 3 times for cluster B4.
- Start number 137 was manually annotated 1 time for cluster B4.
- Start number 141 was manually annotated 15 times for cluster B4.
- Start number 145 was manually annotated 1 time for cluster B4.

Info for manual annotations of cluster B5:

- Start number 141 was manually annotated 7 times for cluster B5.
- Start number 144 was manually annotated 1 time for cluster B5.

Info for manual annotations of cluster B6:

- Start number 144 was manually annotated 1 time for cluster B6.

Info for manual annotations of cluster B7:

- Start number 151 was manually annotated 1 time for cluster B7.

Info for manual annotations of cluster B8:

- Start number 172 was manually annotated 1 time for cluster B8.

Info for manual annotations of cluster B9:

- Start number 149 was manually annotated 2 times for cluster B9.
- Start number 151 was manually annotated 2 times for cluster B9.
- Start number 156 was manually annotated 1 time for cluster B9.

Info for manual annotations of cluster BB1:

- Start number 191 was manually annotated 5 times for cluster BB1.

Info for manual annotations of cluster BB2:

- Start number 191 was manually annotated 3 times for cluster BB2.

Info for manual annotations of cluster BG:

- Start number 93 was manually annotated 10 times for cluster BG.

Info for manual annotations of cluster BJ:

- Start number 191 was manually annotated 1 time for cluster BJ.

Info for manual annotations of cluster BL:

- Start number 191 was manually annotated 3 times for cluster BL.

Info for manual annotations of cluster BM:

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

Info for manual annotations of cluster BS:

- Start number 100 was manually annotated 4 times for cluster BS.

Info for manual annotations of cluster CA:

- Start number 191 was manually annotated 36 times for cluster CA.

Info for manual annotations of cluster CD:

- Start number 3 was manually annotated 5 times for cluster CD.
- Start number 9 was manually annotated 1 time for cluster CD.
- Start number 112 was manually annotated 1 time for cluster CD.

Info for manual annotations of cluster DK:

- Start number 185 was manually annotated 2 times for cluster DK.

Info for manual annotations of cluster DR:

- Start number 174 was manually annotated 5 times for cluster DR.
- Start number 177 was manually annotated 10 times for cluster DR.
- Start number 186 was manually annotated 1 time for cluster DR.

Info for manual annotations of cluster DS:

- Start number 186 was manually annotated 1 time for cluster DS.
- Start number 188 was manually annotated 4 times for cluster DS.

Info for manual annotations of cluster EB:

- Start number 179 was manually annotated 7 times for cluster EB.
- Start number 182 was manually annotated 49 times for cluster EB.
- Start number 191 was manually annotated 1 time for cluster EB.

Info for manual annotations of cluster EH:

- Start number 189 was manually annotated 7 times for cluster EH.
- Start number 190 was manually annotated 4 times for cluster EH.
- Start number 191 was manually annotated 1 time for cluster EH.

Info for manual annotations of cluster FC:

- Start number 194 was manually annotated 1 time for cluster FC.

Info for manual annotations of cluster FP:

- Start number 191 was manually annotated 2 times for cluster FP.

Info for manual annotations of cluster GB:

- Start number 92 was manually annotated 4 times for cluster GB.

Info for manual annotations of cluster GD1:

- Start number 180 was manually annotated 1 time for cluster GD1.
- Start number 191 was manually annotated 1 time for cluster GD1.

Info for manual annotations of cluster GD2:

- Start number 180 was manually annotated 2 times for cluster GD2.

Info for manual annotations of cluster GD3:

- Start number 180 was manually annotated 1 time for cluster GD3.

Info for manual annotations of cluster GD4:

- Start number 180 was manually annotated 1 time for cluster GD4.

Gene Information:

Gene: 20ES_45 Start: 31266, Stop: 29479, Start Num: 191

Candidate Starts for 20ES_45:

(26, 31683), (Start: 191 @31266 has 828 MA's), (271, 31062), (272, 31059), (274, 31053), (283, 31038), (291, 31023), (307, 30990), (308, 30987), (314, 30960), (326, 30933), (331, 30912), (340, 30882), (372, 30780), (420, 30687), (425, 30678), (446, 30639), (451, 30630), (458, 30615), (484, 30549), (515, 30468), (532, 30420), (534, 30414), (565, 30351), (592, 30276), (611, 30195), (636, 30111), (637, 30108), (656, 30042), (666, 30003), (676, 29982), (701, 29907), (706, 29889), (712, 29877), (726, 29844), (737, 29817), (754, 29781), (760, 29763), (770, 29727), (775, 29703), (791, 29646), (795, 29625), (812, 29568), (816, 29556), (820, 29547),

Gene: 39HC_051 Start: 52288, Stop: 50447, Start Num: 144

Candidate Starts for 39HC_051:

(44, 52552), (47, 52537), (Start: 144 @52288 has 3 MA's), (201, 52231), (205, 52216), (272, 52042), (296, 51991), (297, 51988), (307, 51967), (323, 51916), (325, 51910), (331, 51892), (343, 51850), (347, 51847), (358, 51817), (389, 51724), (400, 51688), (402, 51676), (458, 51562), (469, 51538), (471, 51535), (560, 51304), (590, 51235), (595, 51217), (601, 51199), (612, 51142), (645, 51034), (647, 51028), (651, 51019), (668, 50956), (683, 50920), (685, 50917), (691, 50902), (717, 50824), (722, 50812), (730, 50791), (732, 50785), (748, 50752), (760, 50722), (765, 50707), (770, 50686), (775, 50662), (781, 50638), (793, 50599), (794, 50587), (795, 50584), (796, 50581), (799, 50569), (809, 50545), (840, 50473),

Gene: 40AC_46 Start: 33055, Stop: 30977, Start Num: 54

Candidate Starts for 40AC_46:

(54, 33055), (91, 32941), (Start: 191 @32764 has 828 MA's), (271, 32560), (274, 32551), (291, 32521), (307, 32488), (308, 32485), (314, 32458), (326, 32431), (372, 32278), (420, 32185), (425, 32176), (451, 32128), (458, 32113), (484, 32047), (532, 31918), (534, 31912), (566, 31846), (611, 31693), (625, 31642), (637, 31606), (639, 31597), (656, 31540), (666, 31501), (676, 31480), (683, 31459), (726, 31342), (771, 31222), (791, 31144), (795, 31123), (812, 31066), (816, 31054), (820, 31045),

Gene: 40BC_051 Start: 52288, Stop: 50447, Start Num: 144

Candidate Starts for 40BC_051:

(44, 52552), (47, 52537), (Start: 144 @52288 has 3 MA's), (201, 52231), (205, 52216), (272, 52042), (296, 51991), (297, 51988), (307, 51967), (323, 51916), (325, 51910), (331, 51892), (343, 51850), (347, 51847), (358, 51817), (389, 51724), (400, 51688), (402, 51676), (458, 51562), (469, 51538), (471, 51535), (560, 51304), (590, 51235), (595, 51217), (601, 51199), (612, 51142), (645, 51034), (647, 51028), (651, 51019), (668, 50956), (683, 50920), (685, 50917), (691, 50902), (717, 50824), (722, 50812), (730, 50791), (732, 50785), (748, 50752), (760, 50722), (765, 50707), (770, 50686), (775, 50662), (781, 50638), (793, 50599), (794, 50587), (795, 50584), (796, 50581), (799, 50569), (809, 50545), (840, 50473),

Gene: A3Wally_117 Start: 81842, Stop: 79962, Start Num: 180

Candidate Starts for A3Wally_117:

(Start: 141 @81905 has 23 MA's), (176, 81851), (Start: 180 @81842 has 7 MA's), (Start: 191 @81830 has 828 MA's), (264, 81632), (272, 81605), (293, 81566), (317, 81503), (327, 81485), (334, 81458), (336, 81452), (376, 81344), (425, 81266), (436, 81245), (452, 81212), (464, 81182), (476, 81155), (496, 81095), (536, 80990), (556, 80957), (582, 80888), (584, 80879), (611, 80768), (642, 80654), (664, 80570), (668, 80555), (698, 80444), (700, 80438), (702, 80426), (708, 80411), (755, 80300), (775, 80210), (785, 80171), (789, 80159), (795, 80132), (812, 80075), (821, 80051),

Gene: A6_41 Start: 33551, Stop: 31725, Start Num: 191

Candidate Starts for A6_41:

(Start: 191 @33551 has 828 MA's), (274, 33338), (283, 33323), (307, 33275), (314, 33245), (322, 33224), (326, 33218), (328, 33209), (351, 33125), (355, 33116), (365, 33092), (372, 33065), (420, 32972), (428, 32957), (439, 32936), (446, 32924), (470, 32873), (472, 32870), (490, 32816), (494, 32804), (508, 32774), (518, 32744), (534, 32699), (556, 32660), (611, 32480), (623, 32432), (637, 32393), (656, 32327), (666, 32288), (676, 32267), (683, 32246), (691, 32228), (712, 32162), (770, 32012), (771, 32009), (778, 31973), (785, 31949), (788, 31940), (792, 31928), (812, 31853), (820, 31832),

Gene: ABU_61 Start: 54532, Stop: 52673, Start Num: 149

Candidate Starts for ABU_61:

(Start: 133 @54556 has 1 MA's), (Start: 149 @54532 has 248 MA's), (Start: 174 @54508 has 5 MA's), (Start: 186 @54502 has 3 MA's), (205, 54460), (212, 54439), (254, 54325), (256, 54319), (269, 54289), (296, 54229), (306, 54208), (323, 54154), (327, 54142), (332, 54124), (335, 54112), (372,

54007), (389, 53950), (400, 53914), (402, 53902), (411, 53875), (421, 53848), (432, 53830), (442, 53812), (465, 53773), (469, 53764), (471, 53761), (576, 53503), (607, 53401), (612, 53368), (617, 53347), (647, 53254), (651, 53245), (668, 53182), (683, 53146), (685, 53143), (691, 53128), (717, 53050), (722, 53038), (730, 53017), (748, 52978), (775, 52888), (779, 52870), (781, 52864), (785, 52849), (793, 52825), (795, 52810), (796, 52807), (799, 52795), (809, 52771), (830, 52723), (840, 52699),

Gene: ACFishhook_47 Start: 31825, Stop: 30011, Start Num: 191

Candidate Starts for ACFishhook_47:

(Start: 191 @31825 has 828 MA's), (206, 31786), (209, 31774), (271, 31621), (276, 31606), (307, 31549), (326, 31492), (328, 31483), (340, 31441), (355, 31390), (372, 31339), (420, 31246), (446, 31198), (458, 31174), (476, 31135), (484, 31108), (494, 31078), (528, 30985), (534, 30973), (558, 30925), (565, 30910), (611, 30754), (625, 30703), (636, 30670), (637, 30667), (656, 30601), (666, 30562), (685, 30490), (698, 30451), (704, 30427), (712, 30409), (726, 30376), (760, 30295), (775, 30235), (779, 30217), (795, 30157), (798, 30148), (812, 30100), (816, 30088), (820, 30079),

Gene: AEgle_37 Start: 28789, Stop: 30654, Start Num: 191

Candidate Starts for AEgle_37:

(Start: 191 @28789 has 828 MA's), (208, 28837), (271, 28993), (322, 29107), (343, 29176), (423, 29383), (428, 29392), (472, 29482), (476, 29491), (481, 29506), (484, 29518), (496, 29551), (532, 29644), (559, 29701), (583, 29782), (611, 29902), (618, 29932), (637, 29989), (654, 30046), (656, 30055), (680, 30148), (704, 30220), (708, 30229), (752, 30328), (770, 30391), (804, 30526), (812, 30550), (815, 30559), (850, 30637),

Gene: AFIS_43 Start: 34331, Stop: 32502, Start Num: 191

Candidate Starts for AFIS_43:

(Start: 191 @34331 has 828 MA's), (274, 34118), (307, 34055), (314, 34025), (322, 34004), (326, 33998), (328, 33989), (365, 33872), (372, 33845), (420, 33752), (428, 33737), (446, 33704), (470, 33653), (472, 33650), (490, 33596), (494, 33584), (508, 33554), (518, 33524), (534, 33479), (556, 33440), (611, 33260), (623, 33212), (639, 33164), (651, 33125), (656, 33107), (666, 33068), (676, 33047), (683, 33026), (690, 33011), (733, 32888), (750, 32855), (789, 32717), (794, 32693), (808, 32645), (812, 32633), (820, 32612), (823, 32606), (842, 32558), (849, 32543),

Gene: AGrandiflora_42 Start: 30069, Stop: 31934, Start Num: 191

Candidate Starts for AGrandiflora_42:

(Start: 191 @30069 has 828 MA's), (208, 30117), (245, 30207), (247, 30213), (314, 30366), (343, 30456), (423, 30663), (428, 30672), (472, 30762), (476, 30771), (481, 30786), (496, 30831), (515, 30876), (532, 30924), (559, 30981), (583, 31062), (606, 31149), (611, 31182), (618, 31212), (637, 31269), (656, 31335), (663, 31359), (680, 31428), (704, 31500), (708, 31509), (752, 31608), (770, 31671), (775, 31695), (804, 31806), (812, 31830), (815, 31839),

Gene: AN3_45 Start: 31646, Stop: 29859, Start Num: 191

Candidate Starts for AN3_45:

(Start: 191 @31646 has 828 MA's), (271, 31442), (272, 31439), (274, 31433), (283, 31418), (291, 31403), (307, 31370), (308, 31367), (314, 31340), (326, 31313), (331, 31292), (340, 31262), (372, 31160), (420, 31067), (425, 31058), (446, 31019), (451, 31010), (458, 30995), (484, 30929), (515, 30848), (532, 30800), (534, 30794), (592, 30656), (611, 30575), (625, 30524), (636, 30491), (637, 30488), (656, 30422), (666, 30383), (676, 30362), (701, 30287), (706, 30269), (726, 30224), (737, 30197), (754, 30161), (760, 30143), (770, 30107), (775, 30083), (791, 30026), (812, 29948), (816, 29936), (820, 29927),

Gene: AN9_48 Start: 31569, Stop: 29770, Start Num: 191

Candidate Starts for AN9_48:

(Start: 191 @31569 has 828 MA's), (271, 31365), (307, 31290), (308, 31287), (314, 31260), (319, 31245), (326, 31233), (340, 31182), (372, 31080), (420, 30987), (425, 30978), (446, 30939), (451, 30930), (484, 30849), (496, 30816), (508, 30789), (556, 30675), (565, 30651), (611, 30486), (623, 30438), (637, 30399), (646, 30363), (656, 30333), (666, 30294), (676, 30273), (712, 30168), (726, 30135), (754, 30072), (770, 30018), (775, 29994), (812, 29859), (816, 29847), (820, 29838),

Gene: ANI8_48 Start: 31569, Stop: 29770, Start Num: 191

Candidate Starts for ANI8_48:

(Start: 191 @31569 has 828 MA's), (271, 31365), (307, 31290), (308, 31287), (314, 31260), (319, 31245), (326, 31233), (340, 31182), (372, 31080), (420, 30987), (425, 30978), (446, 30939), (451, 30930), (484, 30849), (496, 30816), (508, 30789), (556, 30675), (565, 30651), (611, 30486), (623, 30438), (637, 30399), (646, 30363), (656, 30333), (666, 30294), (676, 30273), (712, 30168), (726, 30135), (754, 30072), (770, 30018), (775, 29994), (812, 29859), (816, 29847), (820, 29838),

Gene: AbbeyMikolon_44 Start: 30256, Stop: 32121, Start Num: 191

Candidate Starts for AbbeyMikolon_44:

(Start: 191 @30256 has 828 MA's), (208, 30304), (216, 30325), (247, 30400), (293, 30502), (313, 30559), (314, 30562), (315, 30565), (336, 30628), (340, 30640), (439, 30868), (451, 30889), (458, 30910), (476, 30949), (481, 30964), (482, 30967), (483, 30970), (499, 31015), (508, 31036), (515, 31054), (518, 31063), (532, 31102), (542, 31132), (546, 31144), (567, 31207), (598, 31324), (611, 31384), (623, 31432), (637, 31471), (644, 31501), (656, 31537), (669, 31591), (685, 31639), (704, 31702), (747, 31801), (752, 31810), (767, 31861), (781, 31921), (786, 31939), (804, 32008), (812, 32032), (823, 32059),

Gene: AbbyPaige_46 Start: 31676, Stop: 29889, Start Num: 191

Candidate Starts for AbbyPaige_46:

(118, 31763), (Start: 191 @31676 has 828 MA's), (272, 31469), (274, 31463), (283, 31448), (291, 31433), (308, 31397), (314, 31370), (326, 31343), (331, 31322), (372, 31190), (420, 31097), (446, 31049), (451, 31040), (458, 31025), (484, 30959), (515, 30878), (532, 30830), (534, 30824), (565, 30761), (611, 30605), (625, 30554), (636, 30521), (637, 30518), (656, 30452), (666, 30413), (676, 30392), (701, 30317), (704, 30305), (726, 30254), (754, 30191), (760, 30173), (770, 30137), (775, 30113), (795, 30035), (812, 29978), (816, 29966), (820, 29957),

Gene: AbbysRanger_44 Start: 31536, Stop: 29707, Start Num: 191

Candidate Starts for AbbysRanger_44:

(Start: 191 @31536 has 828 MA's), (209, 31485), (221, 31455), (291, 31293), (300, 31275), (307, 31260), (326, 31203), (328, 31194), (366, 31074), (372, 31050), (401, 31008), (420, 30957), (448, 30909), (458, 30888), (476, 30849), (490, 30804), (492, 30798), (523, 30717), (532, 30696), (556, 30651), (609, 30486), (611, 30465), (656, 30312), (666, 30273), (685, 30201), (691, 30186), (698, 30162), (702, 30144), (704, 30138), (706, 30132), (775, 29931), (812, 29796), (816, 29784), (820, 29775),

Gene: Abbysshoes_47 Start: 34766, Stop: 32937, Start Num: 191

Candidate Starts for Abbysshoes_47:

(Start: 191 @34766 has 828 MA's), (274, 34553), (283, 34538), (307, 34490), (314, 34460), (322, 34439), (326, 34433), (328, 34424), (365, 34307), (372, 34280), (420, 34187), (428, 34172), (470, 34088), (472, 34085), (494, 34019), (508, 33989), (518, 33959), (534, 33914), (556, 33875), (611, 33695), (623, 33647), (639, 33599), (651, 33560), (656, 33542), (666, 33503), (676, 33482), (683, 33461), (690, 33446), (733, 33323), (789, 33152), (794, 33128), (808, 33080), (812, 33068), (820, 33047), (823, 33041), (842, 32993), (849, 32978),

Gene: Abdiel_45 Start: 31571, Stop: 29745, Start Num: 191

Candidate Starts for Abdiel_45:

(Start: 191 @31571 has 828 MA's), (201, 31550), (209, 31520), (221, 31490), (291, 31328), (300, 31310), (326, 31238), (328, 31229), (366, 31109), (372, 31085), (420, 30992), (448, 30944), (458, 30923), (476, 30884), (523, 30752), (532, 30731), (556, 30686), (559, 30674), (609, 30521), (611, 30500), (646, 30377), (656, 30347), (666, 30308), (683, 30242), (685, 30239), (691, 30224), (698, 30200), (704, 30176), (775, 29969), (812, 29834), (816, 29822), (820, 29813),

Gene: Abigail_42 Start: 29285, Stop: 31159, Start Num: 182

Candidate Starts for Abigail_42:

(Start: 179 @29282 has 7 MA's), (Start: 182 @29285 has 49 MA's), (216, 29354), (224, 29375), (328, 29621), (340, 29663), (476, 29957), (564, 30191), (598, 30314), (611, 30374), (614, 30380), (625, 30425), (632, 30440), (635, 30455), (644, 30491), (656, 30527), (680, 30620), (713, 30713), (747, 30791), (770, 30863), (771, 30866), (778, 30902), (791, 30944), (794, 30962), (804, 30998), (812, 31022), (820, 31043),

Gene: Abinghost_58 Start: 53637, Stop: 51820, Start Num: 183

Candidate Starts for Abinghost_58:

(80, 53820), (Start: 183 @53637 has 42 MA's), (201, 53607), (274, 53427), (331, 53274), (334, 53262), (343, 53232), (349, 53226), (372, 53163), (375, 53157), (389, 53106), (400, 53070), (414, 53022), (471, 52917), (510, 52821), (533, 52770), (589, 52626), (601, 52587), (608, 52557), (612, 52530), (616, 52518), (645, 52422), (647, 52416), (651, 52407), (655, 52395), (674, 52323), (683, 52293), (691, 52275), (694, 52266), (717, 52197), (722, 52185), (730, 52164), (760, 52095), (765, 52080), (771, 52056), (775, 52035), (779, 52017), (781, 52011), (791, 51978), (793, 51972), (796, 51954), (799, 51942), (805, 51930), (809, 51918), (826, 51876), (840, 51846),

Gene: Abrogate_440 Start: 35018, Stop: 33189, Start Num: 191

Candidate Starts for Abrogate_440:

(Start: 191 @35018 has 828 MA's), (274, 34805), (283, 34790), (314, 34712), (322, 34691), (326, 34685), (328, 34676), (351, 34592), (365, 34559), (372, 34532), (420, 34439), (428, 34424), (439, 34403), (446, 34391), (470, 34340), (472, 34337), (494, 34271), (508, 34241), (518, 34211), (534, 34166), (556, 34127), (611, 33947), (623, 33899), (639, 33851), (651, 33812), (656, 33794), (666, 33755), (676, 33734), (683, 33713), (690, 33698), (733, 33575), (789, 33404), (794, 33380), (808, 33332), (812, 33320), (820, 33299), (823, 33293), (842, 33245), (849, 33230),

Gene: AbsoluteMadLad_61 Start: 54486, Stop: 52627, Start Num: 149

Candidate Starts for AbsoluteMadLad_61:

(Start: 133 @54510 has 1 MA's), (Start: 149 @54486 has 248 MA's), (Start: 174 @54462 has 5 MA's), (Start: 186 @54456 has 3 MA's), (205, 54414), (212, 54393), (254, 54279), (256, 54273), (269, 54243), (296, 54183), (306, 54162), (323, 54108), (327, 54096), (332, 54078), (335, 54066), (372, 53961), (389, 53904), (400, 53868), (402, 53856), (410, 53832), (414, 53820), (421, 53802), (432, 53784), (442, 53766), (465, 53727), (469, 53718), (471, 53715), (473, 53712), (607, 53355), (612, 53322), (617, 53301), (647, 53208), (651, 53199), (668, 53136), (683, 53100), (685, 53097), (691, 53082), (717, 53004), (722, 52992), (730, 52971), (748, 52932), (775, 52842), (779, 52824), (781, 52818), (785, 52803), (793, 52779), (795, 52764), (796, 52761), (799, 52749), (809, 52725), (830, 52677), (840, 52653),

Gene: Abt2graduatex2_49 Start: 39647, Stop: 37638, Start Num: 93

Candidate Starts for Abt2graduatex2_49:

(63, 39737), (65, 39722), (Start: 93 @39647 has 10 MA's), (Start: 112 @39605 has 1 MA's), (209, 39446), (211, 39440), (214, 39434), (240, 39374), (252, 39347), (282, 39263), (330, 39122), (352, 39044), (391, 38930), (395, 38921), (399, 38906), (403, 38894), (407, 38882), (417, 38852), (437, 38813), (504, 38666), (548, 38561), (552, 38549), (553, 38546), (580, 38489), (586, 38468), (599, 38426), (607, 38396), (619, 38330), (627, 38309), (634, 38303), (638, 38291), (643, 38267), (651, 38237), (658, 38210), (684, 38126), (692, 38108), (693, 38102), (695, 38096), (699, 38081), (701,

38072), (758, 37940), (769, 37895), (775, 37871), (776, 37868), (792, 37814), (795, 37796), (805, 37763), (813, 37739), (825, 37718), (835, 37691),

Gene: Acadian_58 Start: 54470, Stop: 52644, Start Num: 141

Candidate Starts for Acadian_58:

(Start: 141 @54470 has 23 MA's), (201, 54416), (227, 54356), (273, 54245), (296, 54197), (332, 54095), (347, 54053), (363, 54017), (372, 53987), (400, 53894), (402, 53882), (410, 53858), (414, 53846), (421, 53828), (460, 53765), (471, 53741), (515, 53636), (590, 53447), (595, 53429), (601, 53411), (608, 53381), (612, 53354), (645, 53246), (647, 53240), (651, 53231), (657, 53210), (674, 53147), (685, 53114), (691, 53099), (710, 53039), (717, 53021), (722, 53009), (730, 52988), (733, 52979), (735, 52976), (775, 52859), (781, 52835), (793, 52796), (795, 52781), (796, 52778), (805, 52754), (809, 52742), (810, 52739), (832, 52691), (840, 52670),

Gene: Achebe_43 Start: 31519, Stop: 29690, Start Num: 191

Candidate Starts for Achebe_43:

(Start: 191 @31519 has 828 MA's), (209, 31468), (221, 31438), (291, 31276), (300, 31258), (307, 31243), (326, 31186), (328, 31177), (366, 31057), (372, 31033), (401, 30991), (420, 30940), (448, 30892), (458, 30871), (476, 30832), (490, 30787), (492, 30781), (523, 30700), (532, 30679), (556, 30634), (609, 30469), (611, 30448), (656, 30295), (666, 30256), (685, 30184), (691, 30169), (698, 30145), (702, 30127), (704, 30121), (706, 30115), (775, 29914), (812, 29779), (816, 29767), (820, 29758),

Gene: Acme_47 Start: 34868, Stop: 33042, Start Num: 191

Candidate Starts for Acme_47:

(Start: 191 @34868 has 828 MA's), (274, 34655), (283, 34640), (307, 34592), (314, 34562), (322, 34541), (326, 34535), (328, 34526), (365, 34409), (372, 34382), (420, 34289), (428, 34274), (446, 34241), (470, 34190), (472, 34187), (494, 34121), (508, 34091), (518, 34061), (534, 34016), (556, 33977), (611, 33797), (618, 33767), (623, 33749), (637, 33710), (656, 33644), (683, 33563), (685, 33560), (712, 33479), (770, 33329), (771, 33326), (778, 33290), (785, 33266), (788, 33257), (792, 33245), (812, 33170), (820, 33149),

Gene: Acolyte_41 Start: 30968, Stop: 29181, Start Num: 191

Candidate Starts for Acolyte_41:

(Start: 191 @30968 has 828 MA's), (272, 30761), (274, 30755), (283, 30740), (291, 30725), (307, 30692), (308, 30689), (314, 30662), (326, 30635), (372, 30482), (420, 30389), (425, 30380), (446, 30341), (451, 30332), (458, 30317), (484, 30251), (501, 30206), (515, 30170), (532, 30122), (611, 29897), (618, 29867), (625, 29846), (656, 29744), (676, 29684), (683, 29663), (691, 29645), (760, 29465), (770, 29429), (775, 29405), (791, 29348), (812, 29270), (816, 29258), (820, 29249),

Gene: Adahisdi_44 Start: 34346, Stop: 32520, Start Num: 191

Candidate Starts for Adahisdi_44:

(Start: 191 @34346 has 828 MA's), (274, 34133), (283, 34118), (314, 34040), (322, 34019), (326, 34013), (328, 34004), (365, 33887), (372, 33860), (420, 33767), (428, 33752), (470, 33668), (472, 33665), (494, 33599), (508, 33569), (518, 33539), (534, 33494), (556, 33455), (611, 33275), (618, 33245), (623, 33227), (625, 33224), (637, 33188), (656, 33122), (683, 33041), (685, 33038), (712, 32957), (770, 32807), (771, 32804), (778, 32768), (785, 32744), (788, 32735), (792, 32723), (798, 32696), (812, 32648), (820, 32627),

Gene: Adolin_40 Start: 27791, Stop: 29701, Start Num: 191

Candidate Starts for Adolin_40:

(Start: 191 @27791 has 828 MA's), (208, 27839), (314, 28088), (343, 28178), (423, 28430), (428, 28439), (476, 28538), (481, 28553), (507, 28622), (532, 28691), (583, 28829), (611, 28949), (618, 28979), (631, 29012), (637, 29036), (656, 29102), (697, 29237), (704, 29267), (770, 29438), (779,

29480), (789, 29513), (812, 29597), (815, 29606), (820, 29618),

Gene: Adriana_62 Start: 55113, Stop: 53254, Start Num: 149

Candidate Starts for Adriana_62:

(Start: 133 @55137 has 1 MA's), (Start: 149 @55113 has 248 MA's), (Start: 174 @55089 has 5 MA's), (Start: 186 @55083 has 3 MA's), (205, 55041), (212, 55020), (254, 54906), (256, 54900), (269, 54870), (296, 54810), (306, 54789), (323, 54735), (327, 54723), (332, 54705), (335, 54693), (372, 54588), (389, 54531), (400, 54495), (402, 54483), (411, 54456), (414, 54447), (432, 54411), (465, 54354), (469, 54345), (471, 54342), (473, 54339), (607, 53982), (612, 53949), (617, 53928), (647, 53835), (651, 53826), (668, 53763), (683, 53727), (685, 53724), (691, 53709), (717, 53631), (722, 53619), (730, 53598), (748, 53559), (775, 53469), (779, 53451), (781, 53445), (785, 53430), (793, 53406), (795, 53391), (796, 53388), (799, 53376), (809, 53352), (830, 53304), (840, 53280),

Gene: Adumb2043_38 Start: 28808, Stop: 30673, Start Num: 191

Candidate Starts for Adumb2043_38:

(Start: 191 @28808 has 828 MA's), (208, 28856), (271, 29012), (307, 29075), (322, 29126), (343, 29195), (423, 29402), (472, 29501), (476, 29510), (481, 29525), (484, 29537), (496, 29570), (532, 29663), (559, 29720), (583, 29801), (611, 29921), (618, 29951), (637, 30008), (654, 30065), (656, 30074), (680, 30167), (704, 30239), (708, 30248), (752, 30347), (770, 30410), (804, 30545), (812, 30569), (815, 30578), (850, 30656),

Gene: Adzzy_46 Start: 30091, Stop: 28304, Start Num: 191

Candidate Starts for Adzzy_46:

(Start: 191 @30091 has 828 MA's), (271, 29887), (274, 29878), (307, 29815), (308, 29812), (314, 29785), (326, 29758), (331, 29737), (372, 29605), (420, 29512), (446, 29464), (484, 29374), (502, 29326), (611, 29020), (636, 28936), (637, 28933), (646, 28897), (656, 28867), (666, 28828), (676, 28807), (683, 28786), (726, 28669), (737, 28642), (754, 28606), (760, 28588), (770, 28552), (775, 28528), (812, 28393), (816, 28381), (820, 28372),

Gene: Aelin_60 Start: 54050, Stop: 52191, Start Num: 149

Candidate Starts for Aelin_60:

(Start: 133 @54074 has 1 MA's), (Start: 149 @54050 has 248 MA's), (Start: 174 @54026 has 5 MA's), (Start: 186 @54020 has 3 MA's), (205, 53978), (212, 53957), (254, 53843), (256, 53837), (269, 53807), (296, 53747), (306, 53726), (323, 53672), (327, 53660), (332, 53642), (335, 53630), (372, 53525), (389, 53468), (400, 53432), (402, 53420), (410, 53396), (414, 53384), (421, 53366), (432, 53348), (442, 53330), (465, 53291), (469, 53282), (471, 53279), (473, 53276), (607, 52919), (612, 52886), (617, 52865), (647, 52772), (651, 52763), (668, 52700), (683, 52664), (685, 52661), (691, 52646), (717, 52568), (722, 52556), (730, 52535), (748, 52496), (775, 52406), (779, 52388), (781, 52382), (785, 52367), (793, 52343), (795, 52328), (796, 52325), (799, 52313), (809, 52289), (830, 52241), (840, 52217),

Gene: Aeneas_47 Start: 34971, Stop: 33184, Start Num: 191

Candidate Starts for Aeneas_47:

(Start: 191 @34971 has 828 MA's), (274, 34758), (283, 34743), (314, 34665), (322, 34644), (326, 34638), (328, 34629), (351, 34545), (365, 34512), (372, 34485), (420, 34392), (428, 34377), (439, 34356), (446, 34344), (470, 34293), (472, 34290), (494, 34224), (508, 34194), (518, 34164), (534, 34119), (556, 34080), (611, 33900), (623, 33852), (637, 33813), (656, 33747), (679, 33675), (683, 33666), (712, 33582), (750, 33495), (785, 33369), (789, 33357), (804, 33297), (812, 33273), (814, 33267),

Gene: Agaliana_41 Start: 31606, Stop: 29780, Start Num: 191

Candidate Starts for Agaliana_41:

(Start: 191 @31606 has 828 MA's), (274, 31393), (283, 31378), (314, 31300), (322, 31279), (326, 31273), (328, 31264), (365, 31147), (372, 31120), (420, 31027), (428, 31012), (446, 30979), (470, 30928), (472, 30925), (494, 30859), (508, 30829), (518, 30799), (534, 30754), (556, 30715), (611, 30535), (623, 30487), (637, 30448), (656, 30382), (683, 30301), (685, 30298), (712, 30217), (766, 30082), (770, 30067), (771, 30064), (778, 30028), (785, 30004), (788, 29995), (792, 29983), (798, 29956), (812, 29908), (820, 29887),

Gene: Agape74_46 Start: 31661, Stop: 29874, Start Num: 191

Candidate Starts for Agape74_46:

(118, 31748), (Start: 191 @31661 has 828 MA's), (272, 31454), (274, 31448), (283, 31433), (291, 31418), (308, 31382), (314, 31355), (326, 31328), (331, 31307), (372, 31175), (420, 31082), (446, 31034), (451, 31025), (458, 31010), (484, 30944), (515, 30863), (532, 30815), (534, 30809), (565, 30746), (611, 30590), (625, 30539), (636, 30506), (637, 30503), (656, 30437), (666, 30398), (676, 30377), (701, 30302), (704, 30290), (726, 30239), (754, 30176), (760, 30158), (770, 30122), (775, 30098), (795, 30020), (812, 29963), (816, 29951), (820, 29942),

Gene: AgentM_37 Start: 30104, Stop: 28245, Start Num: 191

Candidate Starts for AgentM_37:

(Start: 191 @30104 has 828 MA's), (209, 30053), (235, 29993), (262, 29930), (271, 29900), (272, 29897), (302, 29840), (307, 29828), (314, 29798), (326, 29771), (355, 29669), (361, 29654), (372, 29618), (407, 29558), (420, 29522), (446, 29474), (483, 29390), (484, 29384), (513, 29312), (523, 29279), (528, 29264), (534, 29252), (576, 29153), (611, 29018), (618, 28988), (623, 28970), (632, 28952), (637, 28931), (639, 28922), (656, 28865), (666, 28826), (683, 28784), (691, 28766), (704, 28718), (726, 28667), (750, 28613), (754, 28604), (760, 28586), (775, 28526), (779, 28508), (804, 28415), (812, 28391), (816, 28379), (865, 28262), (866, 28259),

Gene: Aglet_49 Start: 31854, Stop: 30040, Start Num: 191

Candidate Starts for Aglet_49:

(Start: 191 @31854 has 828 MA's), (206, 31815), (209, 31803), (271, 31650), (276, 31635), (307, 31578), (326, 31521), (328, 31512), (340, 31470), (355, 31419), (372, 31368), (420, 31275), (446, 31227), (451, 31218), (458, 31203), (476, 31164), (484, 31137), (494, 31107), (528, 31014), (558, 30954), (565, 30939), (611, 30783), (637, 30696), (651, 30648), (656, 30630), (666, 30591), (685, 30519), (698, 30480), (704, 30456), (712, 30438), (726, 30405), (737, 30378), (760, 30324), (775, 30264), (795, 30186), (812, 30129), (816, 30117), (820, 30108),

Gene: AgronaGT15_47 Start: 31705, Stop: 29891, Start Num: 191

Candidate Starts for AgronaGT15_47:

(Start: 191 @31705 has 828 MA's), (206, 31666), (209, 31654), (271, 31501), (276, 31486), (307, 31429), (326, 31372), (328, 31363), (340, 31321), (355, 31270), (372, 31219), (405, 31165), (420, 31126), (446, 31078), (458, 31054), (476, 31015), (484, 30988), (494, 30958), (528, 30865), (534, 30853), (558, 30805), (565, 30790), (611, 30634), (625, 30583), (636, 30550), (637, 30547), (656, 30481), (666, 30442), (685, 30370), (698, 30331), (704, 30307), (712, 30289), (726, 30256), (775, 30115), (798, 30028), (812, 29980), (816, 29968), (820, 29959), (821, 29956),

Gene: AinMach_42 Start: 30094, Stop: 31947, Start Num: 191

Candidate Starts for AinMach_42:

(Start: 191 @30094 has 828 MA's), (236, 30211), (247, 30238), (262, 30268), (314, 30391), (322, 30412), (476, 30775), (481, 30790), (532, 30928), (561, 30991), (567, 31012), (611, 31186), (618, 31216), (625, 31237), (637, 31273), (644, 31303), (656, 31339), (680, 31432), (750, 31609), (760, 31639), (770, 31675), (775, 31699), (793, 31762), (812, 31834), (823, 31861), (853, 31930),

Gene: Airmid_39 Start: 30159, Stop: 28294, Start Num: 191

Candidate Starts for Airmid_39:

(Start: 191 @30159 has 828 MA's), (235, 30048), (271, 29955), (272, 29952), (307, 29883), (314, 29853), (326, 29826), (328, 29817), (355, 29724), (361, 29709), (372, 29673), (407, 29613), (420, 29577), (444, 29532), (446, 29529), (458, 29505), (483, 29445), (513, 29367), (528, 29319), (534, 29307), (558, 29259), (576, 29208), (611, 29073), (618, 29043), (623, 29025), (637, 28986), (639, 28977), (647, 28947), (656, 28920), (657, 28917), (676, 28860), (683, 28839), (704, 28773), (726, 28722), (750, 28668), (754, 28659), (760, 28641), (779, 28563), (804, 28470), (812, 28446), (816, 28434), (859, 28329),

Gene: Ajay_45 Start: 34664, Stop: 32835, Start Num: 191

Candidate Starts for Ajay_45:

(Start: 191 @34664 has 828 MA's), (274, 34451), (307, 34388), (314, 34358), (322, 34337), (326, 34331), (328, 34322), (365, 34205), (372, 34178), (420, 34085), (428, 34070), (446, 34037), (470, 33986), (472, 33983), (494, 33917), (508, 33887), (518, 33857), (534, 33812), (556, 33773), (611, 33593), (623, 33545), (639, 33497), (651, 33458), (656, 33440), (666, 33401), (676, 33380), (683, 33359), (690, 33344), (733, 33221), (789, 33050), (794, 33026), (808, 32978), (812, 32966), (820, 32945), (823, 32939), (842, 32891), (849, 32876),

Gene: Akoma_58 Start: 53685, Stop: 51868, Start Num: 183

Candidate Starts for Akoma_58:

(80, 53868), (Start: 183 @53685 has 42 MA's), (201, 53655), (274, 53475), (316, 53370), (331, 53322), (334, 53310), (343, 53280), (349, 53274), (372, 53211), (375, 53205), (389, 53154), (400, 53118), (414, 53070), (471, 52965), (510, 52869), (533, 52818), (589, 52674), (601, 52635), (608, 52605), (612, 52578), (616, 52566), (645, 52470), (647, 52464), (651, 52455), (655, 52443), (674, 52371), (683, 52341), (691, 52323), (694, 52314), (717, 52245), (722, 52233), (730, 52212), (760, 52143), (765, 52128), (771, 52104), (775, 52083), (779, 52065), (781, 52059), (791, 52026), (793, 52020), (796, 52002), (799, 51990), (805, 51978), (809, 51966), (826, 51924), (840, 51894),

Gene: AlanGrant_57 Start: 55116, Stop: 53290, Start Num: 141

Candidate Starts for AlanGrant_57:

(Start: 141 @55116 has 23 MA's), (Start: 172 @55098 has 1 MA's), (205, 55047), (212, 55026), (269, 54888), (293, 54834), (312, 54780), (332, 54726), (341, 54696), (347, 54684), (349, 54681), (389, 54561), (400, 54525), (402, 54513), (411, 54486), (465, 54384), (471, 54372), (484, 54336), (494, 54306), (511, 54273), (533, 54225), (608, 54012), (612, 53985), (645, 53877), (647, 53871), (651, 53862), (655, 53850), (668, 53799), (679, 53772), (683, 53763), (685, 53760), (686, 53757), (691, 53745), (717, 53667), (722, 53655), (730, 53634), (733, 53625), (738, 53616), (775, 53505), (779, 53487), (781, 53481), (793, 53442), (795, 53427), (799, 53412), (805, 53400), (809, 53388), (830, 53340), (840, 53316),

Gene: Alatin_36 Start: 28180, Stop: 26396, Start Num: 191

Candidate Starts for Alatin_36:

(Start: 191 @28180 has 828 MA's), (288, 27946), (302, 27916), (306, 27907), (307, 27904), (319, 27859), (326, 27847), (340, 27796), (372, 27694), (380, 27673), (420, 27601), (444, 27556), (446, 27553), (466, 27511), (468, 27505), (476, 27490), (484, 27463), (523, 27358), (526, 27349), (534, 27331), (535, 27328), (556, 27292), (611, 27112), (623, 27064), (656, 26959), (657, 26956), (676, 26899), (683, 26878), (727, 26755), (760, 26680), (770, 26644), (775, 26620), (795, 26542), (812, 26485), (816, 26473), (834, 26434), (839, 26416),

Gene: Albedo_43 Start: 29891, Stop: 31765, Start Num: 182

Candidate Starts for Albedo_43:

(Start: 179 @29888 has 7 MA's), (Start: 182 @29891 has 49 MA's), (216, 29960), (224, 29981), (328, 30227), (340, 30269), (438, 30482), (476, 30563), (564, 30797), (598, 30920), (611, 30980), (614, 30986), (625, 31031), (632, 31046), (635, 31061), (644, 31097), (656, 31133), (680, 31226), (713, 31319), (747, 31397), (770, 31469), (778, 31508), (791, 31550), (794, 31568), (812, 31628), (820,

31649),

Gene: Albee_45 Start: 31570, Stop: 29744, Start Num: 191

Candidate Starts for Albee_45:

(Start: 191 @31570 has 828 MA's), (201, 31549), (209, 31519), (221, 31489), (291, 31327), (300, 31309), (326, 31237), (328, 31228), (366, 31108), (372, 31084), (420, 30991), (448, 30943), (458, 30922), (476, 30883), (523, 30751), (532, 30730), (556, 30685), (559, 30673), (609, 30520), (611, 30499), (646, 30376), (656, 30346), (666, 30307), (683, 30241), (685, 30238), (691, 30223), (698, 30199), (704, 30175), (775, 29968), (812, 29833), (816, 29821), (820, 29812),

Gene: Alberto7_46 Start: 31907, Stop: 30081, Start Num: 191

Candidate Starts for Alberto7_46:

(Start: 191 @31907 has 828 MA's), (201, 31886), (209, 31856), (221, 31826), (291, 31664), (300, 31646), (326, 31574), (328, 31565), (366, 31445), (372, 31421), (420, 31328), (448, 31280), (458, 31259), (476, 31220), (523, 31088), (532, 31067), (556, 31022), (559, 31010), (609, 30857), (611, 30836), (646, 30713), (656, 30683), (666, 30644), (683, 30578), (685, 30575), (691, 30560), (698, 30536), (704, 30512), (775, 30305), (812, 30170), (816, 30158), (820, 30149),

Gene: Albright_40 Start: 28818, Stop: 30692, Start Num: 182

Candidate Starts for Albright_40:

(Start: 179 @28815 has 7 MA's), (Start: 182 @28818 has 49 MA's), (216, 28887), (224, 28908), (328, 29154), (340, 29196), (438, 29409), (476, 29490), (564, 29724), (598, 29847), (611, 29907), (614, 29913), (625, 29958), (632, 29973), (635, 29988), (644, 30024), (656, 30060), (680, 30153), (713, 30246), (747, 30324), (770, 30396), (778, 30435), (791, 30477), (794, 30495), (812, 30555), (820, 30576),

Gene: Aliter_45 Start: 31411, Stop: 29618, Start Num: 191

Candidate Starts for Aliter_45:

(Start: 191 @31411 has 828 MA's), (196, 31402), (209, 31360), (261, 31240), (262, 31237), (279, 31189), (308, 31129), (315, 31099), (319, 31087), (326, 31075), (372, 30922), (420, 30829), (484, 30691), (494, 30661), (559, 30502), (565, 30490), (579, 30463), (609, 30355), (611, 30334), (651, 30199), (656, 30181), (683, 30100), (698, 30058), (726, 29983), (758, 29908), (770, 29866), (795, 29764), (812, 29707), (816, 29695), (820, 29686),

Gene: Allegro_57 Start: 52477, Stop: 50648, Start Num: 147

Candidate Starts for Allegro_57:

(Start: 147 @52477 has 31 MA's), (Start: 186 @52450 has 3 MA's), (202, 52420), (205, 52408), (215, 52381), (216, 52378), (221, 52369), (235, 52351), (272, 52255), (296, 52204), (307, 52180), (312, 52156), (358, 52018), (368, 51994), (372, 51982), (389, 51925), (400, 51889), (402, 51877), (410, 51853), (456, 51769), (469, 51739), (471, 51736), (483, 51706), (542, 51562), (565, 51496), (586, 51457), (589, 51445), (595, 51424), (601, 51406), (612, 51349), (639, 51265), (647, 51235), (651, 51226), (668, 51160), (679, 51133), (683, 51124), (691, 51106), (698, 51082), (717, 51028), (722, 51016), (730, 50995), (760, 50926), (775, 50866), (779, 50848), (789, 50815), (793, 50803), (795, 50788), (796, 50785), (799, 50773), (809, 50749), (810, 50746), (830, 50698), (832, 50695), (840, 50674), (847, 50653),

Gene: Alma_45 Start: 31495, Stop: 29702, Start Num: 191

Candidate Starts for Alma_45:

(Start: 191 @31495 has 828 MA's), (196, 31486), (245, 31357), (262, 31321), (271, 31291), (274, 31282), (291, 31249), (307, 31216), (308, 31213), (315, 31183), (319, 31171), (326, 31159), (372, 31006), (420, 30913), (484, 30775), (494, 30745), (559, 30586), (565, 30574), (579, 30547), (609, 30439), (611, 30418), (651, 30283), (656, 30265), (683, 30184), (726, 30067), (733, 30046), (758, 29992), (770, 29950), (775, 29926), (795, 29848), (812, 29791), (816, 29779), (820, 29770),

Gene: Alone3_143 Start: 75999, Stop: 78035, Start Num: 100

Candidate Starts for Alone3_143:

(Start: 100 @75999 has 4 MA's), (139, 76065), (Start: 156 @76089 has 1 MA's), (192, 76140), (Start: 194 @76143 has 1 MA's), (198, 76155), (209, 76188), (236, 76257), (286, 76392), (304, 76428), (339, 76548), (354, 76602), (356, 76605), (374, 76656), (378, 76668), (396, 76737), (401, 76758), (413, 76806), (417, 76815), (570, 77193), (607, 77310), (610, 77328), (640, 77424), (656, 77460), (672, 77529), (675, 77538), (677, 77544), (729, 77682), (736, 77697), (744, 77712), (772, 77796), (773, 77799), (793, 77871), (813, 77943), (835, 77997), (837, 78003),

Gene: Alpacados_35 Start: 28085, Stop: 26301, Start Num: 191

Candidate Starts for Alpacados_35:

(Start: 191 @28085 has 828 MA's), (261, 27914), (288, 27851), (302, 27821), (306, 27812), (307, 27809), (319, 27764), (326, 27752), (328, 27743), (340, 27701), (372, 27599), (380, 27578), (420, 27506), (444, 27461), (446, 27458), (466, 27416), (468, 27410), (476, 27395), (484, 27368), (523, 27263), (534, 27236), (556, 27197), (611, 27017), (623, 26969), (656, 26864), (657, 26861), (676, 26804), (683, 26783), (698, 26741), (700, 26735), (727, 26660), (758, 26591), (770, 26549), (775, 26525), (795, 26447), (812, 26390), (816, 26378), (839, 26321),

Gene: Alsfro_48 Start: 34937, Stop: 33111, Start Num: 191

Candidate Starts for Alsfro_48:

(Start: 191 @34937 has 828 MA's), (274, 34724), (283, 34709), (314, 34631), (322, 34610), (326, 34604), (328, 34595), (365, 34478), (372, 34451), (420, 34358), (428, 34343), (446, 34310), (470, 34259), (472, 34256), (494, 34190), (518, 34130), (534, 34085), (556, 34046), (611, 33866), (623, 33818), (637, 33779), (656, 33713), (666, 33674), (676, 33653), (683, 33632), (691, 33614), (712, 33548), (770, 33398), (771, 33395), (778, 33359), (785, 33335), (788, 33326), (792, 33314), (812, 33239), (820, 33218),

Gene: AltPhacts_60 Start: 53599, Stop: 51740, Start Num: 149

Candidate Starts for AltPhacts_60:

(Start: 133 @53623 has 1 MA's), (Start: 149 @53599 has 248 MA's), (Start: 174 @53575 has 5 MA's), (Start: 186 @53569 has 3 MA's), (201, 53542), (205, 53527), (212, 53506), (254, 53392), (256, 53386), (269, 53356), (296, 53296), (306, 53275), (323, 53221), (327, 53209), (332, 53191), (335, 53179), (372, 53074), (389, 53017), (400, 52981), (402, 52969), (410, 52945), (414, 52933), (432, 52897), (465, 52840), (469, 52831), (471, 52828), (473, 52825), (607, 52468), (612, 52435), (617, 52414), (647, 52321), (651, 52312), (668, 52249), (683, 52213), (685, 52210), (691, 52195), (717, 52117), (722, 52105), (730, 52084), (748, 52045), (775, 51955), (779, 51937), (781, 51931), (785, 51916), (793, 51892), (795, 51877), (796, 51874), (799, 51862), (809, 51838), (830, 51790), (840, 51766),

Gene: Altman_46 Start: 35175, Stop: 33349, Start Num: 191

Candidate Starts for Altman_46:

(Start: 191 @35175 has 828 MA's), (274, 34962), (307, 34899), (314, 34869), (322, 34848), (326, 34842), (328, 34833), (365, 34716), (372, 34689), (420, 34596), (428, 34581), (470, 34497), (472, 34494), (494, 34428), (508, 34398), (518, 34368), (534, 34323), (556, 34284), (611, 34104), (623, 34056), (637, 34017), (656, 33951), (666, 33912), (676, 33891), (683, 33870), (691, 33852), (712, 33786), (770, 33636), (771, 33633), (778, 33597), (785, 33573), (788, 33564), (792, 33552), (812, 33477), (820, 33456),

Gene: Altwerkus_58 Start: 53696, Stop: 51837, Start Num: 149

Candidate Starts for Altwerkus_58:

(Start: 133 @53720 has 1 MA's), (Start: 149 @53696 has 248 MA's), (Start: 174 @53672 has 5 MA's), (Start: 186 @53666 has 3 MA's), (205, 53624), (212, 53603), (254, 53489), (256, 53483), (269,

53453), (296, 53393), (306, 53372), (323, 53318), (327, 53306), (332, 53288), (335, 53276), (372, 53171), (389, 53114), (400, 53078), (402, 53066), (411, 53039), (421, 53012), (432, 52994), (442, 52976), (465, 52937), (469, 52928), (471, 52925), (576, 52667), (607, 52565), (612, 52532), (617, 52511), (647, 52418), (651, 52409), (668, 52346), (683, 52310), (685, 52307), (691, 52292), (717, 52214), (722, 52202), (730, 52181), (748, 52142), (775, 52052), (779, 52034), (781, 52028), (785, 52013), (793, 51989), (795, 51974), (796, 51971), (799, 51959), (809, 51935), (830, 51887), (840, 51863),

Gene: Alvin_44 Start: 35187, Stop: 33358, Start Num: 191

Candidate Starts for Alvin_44:

(Start: 191 @35187 has 828 MA's), (261, 35016), (274, 34974), (283, 34959), (307, 34911), (314, 34881), (322, 34860), (326, 34854), (328, 34845), (365, 34728), (372, 34701), (420, 34608), (428, 34593), (470, 34509), (472, 34506), (494, 34440), (508, 34410), (518, 34380), (534, 34335), (556, 34296), (611, 34116), (623, 34068), (639, 34020), (651, 33981), (656, 33963), (666, 33924), (676, 33903), (683, 33882), (690, 33867), (733, 33744), (750, 33711), (789, 33573), (794, 33549), (808, 33501), (812, 33489), (820, 33468), (823, 33462), (842, 33414), (849, 33399),

Gene: Amavida_53 Start: 36664, Stop: 34496, Start Num: 86

Candidate Starts for Amavida_53:

(85, 36667), (Start: 86 @36664 has 11 MA's), (106, 36610), (160, 36526), (235, 36373), (237, 36364), (253, 36319), (278, 36241), (287, 36232), (294, 36217), (301, 36202), (303, 36199), (323, 36142), (346, 36049), (362, 36007), (422, 35812), (430, 35800), (434, 35794), (449, 35770), (459, 35749), (468, 35728), (476, 35713), (479, 35707), (500, 35644), (517, 35593), (550, 35506), (571, 35446), (591, 35398), (615, 35296), (616, 35290), (620, 35263), (621, 35260), (629, 35239), (641, 35197), (643, 35191), (650, 35167), (659, 35125), (660, 35122), (665, 35095), (674, 35062), (677, 35050), (692, 35014), (698, 34990), (700, 34984), (701, 34978), (723, 34924), (744, 34876), (746, 34873), (764, 34813), (770, 34789), (777, 34759), (790, 34705), (793, 34696), (809, 34636), (813, 34624), (828, 34585),

Gene: Amigo_55 Start: 36879, Stop: 34711, Start Num: 86

Candidate Starts for Amigo_55:

(85, 36882), (Start: 86 @36879 has 11 MA's), (106, 36825), (160, 36741), (235, 36588), (237, 36579), (253, 36534), (278, 36456), (287, 36447), (294, 36432), (301, 36417), (303, 36414), (323, 36357), (346, 36264), (362, 36222), (422, 36027), (430, 36015), (434, 36009), (449, 35985), (459, 35964), (468, 35943), (476, 35928), (479, 35922), (500, 35859), (517, 35808), (550, 35721), (571, 35661), (591, 35613), (615, 35511), (616, 35505), (620, 35478), (621, 35475), (629, 35454), (641, 35412), (643, 35406), (650, 35382), (659, 35340), (660, 35337), (665, 35310), (674, 35277), (677, 35265), (692, 35229), (698, 35205), (700, 35199), (701, 35193), (723, 35139), (744, 35091), (746, 35088), (764, 35028), (770, 35004), (777, 34974), (790, 34920), (809, 34851), (813, 34839), (828, 34800),

Gene: Amyev_40 Start: 30363, Stop: 32228, Start Num: 191

Candidate Starts for Amyev_40:

(Start: 132 @30285 has 1 MA's), (Start: 191 @30363 has 828 MA's), (208, 30411), (262, 30537), (271, 30567), (290, 30594), (293, 30600), (314, 30660), (343, 30750), (423, 30957), (428, 30966), (476, 31065), (481, 31080), (532, 31218), (583, 31356), (606, 31443), (611, 31476), (631, 31539), (637, 31563), (654, 31620), (656, 31629), (680, 31722), (704, 31794), (752, 31902), (770, 31965), (775, 31989), (812, 32124), (815, 32133),

Gene: AnClar_50 Start: 47971, Stop: 46157, Start Num: 174

Candidate Starts for AnClar_50:

(114, 48061), (117, 48055), (Start: 174 @47971 has 5 MA's), (Start: 186 @47962 has 3 MA's), (205, 47920), (254, 47794), (272, 47752), (291, 47710), (316, 47641), (331, 47602), (334, 47590), (335, 47587), (366, 47512), (372, 47491), (400, 47398), (458, 47272), (465, 47257), (471, 47245), (504,

47155), (595, 46933), (612, 46858), (647, 46744), (651, 46735), (668, 46672), (685, 46633), (691, 46618), (717, 46540), (722, 46528), (725, 46522), (730, 46507), (733, 46498), (738, 46489), (768, 46411), (775, 46378), (776, 46375), (791, 46321), (793, 46315), (800, 46279), (809, 46255), (840, 46183),

Gene: Anansi_54 Start: 36486, Stop: 34318, Start Num: 86

Candidate Starts for Anansi_54:

(85, 36489), (Start: 86 @36486 has 11 MA's), (106, 36432), (160, 36348), (235, 36195), (237, 36186), (253, 36141), (278, 36063), (287, 36054), (294, 36039), (301, 36024), (303, 36021), (323, 35964), (346, 35871), (362, 35829), (422, 35634), (430, 35622), (434, 35616), (449, 35592), (459, 35571), (468, 35550), (476, 35535), (479, 35529), (500, 35466), (517, 35415), (550, 35328), (571, 35268), (591, 35220), (615, 35118), (616, 35112), (620, 35085), (621, 35082), (629, 35061), (641, 35019), (643, 35013), (650, 34989), (659, 34947), (660, 34944), (665, 34917), (674, 34884), (677, 34872), (692, 34836), (698, 34812), (700, 34806), (701, 34800), (723, 34746), (744, 34698), (746, 34695), (764, 34635), (770, 34611), (777, 34581), (790, 34527), (809, 34458), (813, 34446), (828, 34407),

Gene: AnarQue_54 Start: 48016, Stop: 46199, Start Num: 177

Candidate Starts for AnarQue_54:

(Start: 177 @48016 has 10 MA's), (Start: 186 @48007 has 3 MA's), (201, 47980), (204, 47968), (212, 47944), (216, 47935), (272, 47797), (289, 47761), (316, 47686), (341, 47611), (372, 47533), (389, 47476), (400, 47440), (402, 47428), (410, 47404), (460, 47311), (471, 47287), (480, 47269), (589, 46996), (601, 46957), (608, 46927), (612, 46900), (645, 46792), (647, 46786), (651, 46777), (678, 46687), (683, 46678), (685, 46675), (691, 46660), (717, 46582), (722, 46570), (725, 46564), (730, 46549), (753, 46501), (768, 46453), (775, 46420), (781, 46396), (793, 46357), (795, 46342), (809, 46297), (840, 46225),

Gene: Anaysia_47 Start: 29967, Stop: 28177, Start Num: 191

Candidate Starts for Anaysia_47:

(Start: 191 @29967 has 828 MA's), (262, 29793), (307, 29688), (308, 29685), (314, 29658), (326, 29631), (340, 29580), (372, 29478), (420, 29385), (444, 29340), (446, 29337), (451, 29328), (515, 29166), (523, 29139), (532, 29118), (534, 29112), (583, 29013), (592, 28974), (607, 28923), (611, 28893), (625, 28842), (636, 28809), (644, 28776), (646, 28770), (656, 28740), (676, 28680), (683, 28659), (698, 28617), (705, 28590), (712, 28575), (750, 28488), (770, 28425), (771, 28422), (812, 28266), (816, 28254), (821, 28242),

Gene: Anderson_61 Start: 54268, Stop: 52409, Start Num: 149

Candidate Starts for Anderson_61:

(Start: 133 @54292 has 1 MA's), (Start: 149 @54268 has 248 MA's), (Start: 174 @54244 has 5 MA's), (Start: 186 @54238 has 3 MA's), (205, 54196), (212, 54175), (254, 54061), (256, 54055), (269, 54025), (296, 53965), (306, 53944), (323, 53890), (327, 53878), (332, 53860), (335, 53848), (372, 53743), (389, 53686), (400, 53650), (402, 53638), (410, 53614), (414, 53602), (421, 53584), (432, 53566), (442, 53548), (465, 53509), (469, 53500), (471, 53497), (473, 53494), (576, 53239), (607, 53137), (612, 53104), (617, 53083), (647, 52990), (651, 52981), (668, 52918), (683, 52882), (685, 52879), (691, 52864), (717, 52786), (722, 52774), (730, 52753), (748, 52714), (775, 52624), (779, 52606), (781, 52600), (785, 52585), (793, 52561), (795, 52546), (796, 52543), (799, 52531), (809, 52507), (816, 52486), (830, 52459), (840, 52435),

Gene: Andre_63 Start: 54444, Stop: 52585, Start Num: 149

Candidate Starts for Andre_63:

(Start: 133 @54468 has 1 MA's), (Start: 149 @54444 has 248 MA's), (Start: 174 @54420 has 5 MA's), (Start: 186 @54414 has 3 MA's), (205, 54372), (212, 54351), (254, 54237), (256, 54231), (269, 54201), (296, 54141), (306, 54120), (323, 54066), (327, 54054), (332, 54036), (335, 54024), (372, 53919), (389, 53862), (400, 53826), (402, 53814), (411, 53787), (421, 53760), (432, 53742), (442,

53724), (465, 53685), (469, 53676), (471, 53673), (607, 53313), (612, 53280), (617, 53259), (647, 53166), (651, 53157), (668, 53094), (683, 53058), (685, 53055), (691, 53040), (717, 52962), (722, 52950), (730, 52929), (748, 52890), (775, 52800), (779, 52782), (781, 52776), (785, 52761), (793, 52737), (795, 52722), (796, 52719), (799, 52707), (809, 52683), (830, 52635), (840, 52611),

Gene: Aneem_45 Start: 30776, Stop: 28989, Start Num: 191

Candidate Starts for Aneem_45:

(Start: 191 @30776 has 828 MA's), (271, 30572), (307, 30500), (314, 30470), (326, 30443), (423, 30191), (451, 30140), (484, 30059), (501, 30014), (559, 29873), (581, 29831), (592, 29786), (611, 29705), (625, 29654), (637, 29618), (656, 29552), (676, 29492), (679, 29480), (716, 29378), (726, 29354), (732, 29336), (760, 29273), (768, 29246), (770, 29237), (775, 29213), (812, 29078), (816, 29066), (820, 29057),

Gene: Anglerfish_45 Start: 34722, Stop: 32896, Start Num: 191

Candidate Starts for Anglerfish_45:

(Start: 191 @34722 has 828 MA's), (274, 34509), (283, 34494), (307, 34446), (314, 34416), (322, 34395), (326, 34389), (328, 34380), (365, 34263), (372, 34236), (420, 34143), (428, 34128), (446, 34095), (470, 34044), (472, 34041), (494, 33975), (508, 33945), (518, 33915), (534, 33870), (556, 33831), (611, 33651), (623, 33603), (637, 33564), (656, 33498), (666, 33459), (676, 33438), (683, 33417), (691, 33399), (712, 33333), (770, 33183), (771, 33180), (778, 33144), (785, 33120), (788, 33111), (792, 33099), (798, 33072), (812, 33024), (820, 33003),

Gene: AngryOrchard_34 Start: 28044, Stop: 26260, Start Num: 191

Candidate Starts for AngryOrchard_34:

(Start: 191 @28044 has 828 MA's), (261, 27873), (291, 27801), (306, 27771), (307, 27768), (319, 27723), (326, 27711), (328, 27702), (340, 27660), (372, 27558), (380, 27537), (404, 27507), (420, 27465), (446, 27417), (476, 27354), (484, 27327), (523, 27222), (526, 27213), (534, 27195), (556, 27156), (611, 26976), (623, 26928), (656, 26823), (657, 26820), (676, 26763), (683, 26742), (727, 26619), (758, 26550), (770, 26508), (771, 26505), (775, 26484), (795, 26406), (812, 26349), (816, 26337), (834, 26298), (839, 26280),

Gene: AnnaL29_46 Start: 32316, Stop: 30529, Start Num: 191

Candidate Starts for AnnaL29_46:

(Start: 191 @32316 has 828 MA's), (271, 32112), (272, 32109), (283, 32088), (291, 32073), (307, 32040), (314, 32010), (326, 31983), (331, 31962), (340, 31932), (372, 31830), (420, 31737), (446, 31689), (451, 31680), (458, 31665), (484, 31599), (515, 31518), (532, 31470), (566, 31398), (592, 31326), (611, 31245), (625, 31194), (636, 31161), (637, 31158), (656, 31092), (666, 31053), (676, 31032), (701, 30957), (737, 30867), (754, 30831), (760, 30813), (770, 30777), (775, 30753), (791, 30696), (795, 30675), (812, 30618), (816, 30606), (820, 30597),

Gene: AnnaLie_43 Start: 29896, Stop: 31770, Start Num: 182

Candidate Starts for AnnaLie_43:

(Start: 179 @29893 has 7 MA's), (Start: 182 @29896 has 49 MA's), (216, 29965), (224, 29986), (328, 30232), (340, 30274), (438, 30487), (476, 30568), (564, 30802), (598, 30925), (611, 30985), (614, 30991), (625, 31036), (632, 31051), (635, 31066), (644, 31102), (656, 31138), (680, 31231), (713, 31324), (747, 31402), (770, 31474), (778, 31513), (791, 31555), (794, 31573), (804, 31609), (812, 31633), (820, 31654),

Gene: Annyong_45 Start: 31615, Stop: 29789, Start Num: 191

Candidate Starts for Annyong_45:

(Start: 191 @31615 has 828 MA's), (201, 31594), (209, 31564), (221, 31534), (291, 31372), (300, 31354), (307, 31339), (326, 31282), (328, 31273), (366, 31153), (372, 31129), (420, 31036), (448, 30988), (458, 30967), (476, 30928), (523, 30796), (532, 30775), (556, 30730), (559, 30718), (609,

30565), (611, 30544), (646, 30421), (656, 30391), (666, 30352), (683, 30286), (685, 30283), (691, 30268), (698, 30244), (704, 30220), (775, 30013), (812, 29878), (816, 29866), (820, 29857),

Gene: Anon_42 Start: 29008, Stop: 27218, Start Num: 191

Candidate Starts for Anon_42:

(Start: 191 @29008 has 828 MA's), (307, 28729), (308, 28726), (326, 28672), (340, 28621), (372, 28519), (420, 28426), (444, 28381), (446, 28378), (451, 28369), (490, 28270), (515, 28207), (523, 28180), (556, 28114), (592, 28015), (609, 27955), (611, 27934), (625, 27883), (632, 27868), (637, 27847), (639, 27838), (651, 27799), (656, 27781), (683, 27700), (691, 27682), (760, 27502), (768, 27475), (795, 27364), (812, 27307), (816, 27295), (821, 27283),

Gene: Anselm_45 Start: 31702, Stop: 29915, Start Num: 191

Candidate Starts for Anselm_45:

(Start: 191 @31702 has 828 MA's), (271, 31498), (272, 31495), (283, 31474), (291, 31459), (302, 31438), (307, 31426), (308, 31423), (314, 31396), (326, 31369), (331, 31348), (372, 31216), (420, 31123), (446, 31075), (451, 31066), (458, 31051), (484, 30985), (515, 30904), (532, 30856), (565, 30787), (592, 30712), (611, 30631), (625, 30580), (637, 30544), (656, 30478), (666, 30439), (676, 30418), (701, 30343), (712, 30313), (726, 30280), (737, 30253), (754, 30217), (758, 30205), (760, 30199), (770, 30163), (775, 30139), (795, 30061), (812, 30004), (816, 29992), (820, 29983),

Gene: Anthony_39 Start: 28917, Stop: 27130, Start Num: 191

Candidate Starts for Anthony_39:

(Start: 191 @28917 has 828 MA's), (291, 28671), (319, 28593), (326, 28581), (328, 28572), (372, 28428), (420, 28335), (441, 28296), (444, 28290), (446, 28287), (458, 28263), (494, 28167), (505, 28143), (523, 28092), (528, 28077), (534, 28065), (595, 27915), (609, 27867), (611, 27846), (623, 27798), (636, 27762), (656, 27693), (726, 27495), (727, 27489), (750, 27441), (760, 27414), (768, 27387), (795, 27276), (812, 27219), (816, 27207), (820, 27198),

Gene: Antonia_60 Start: 54050, Stop: 52191, Start Num: 149

Candidate Starts for Antonia_60:

(Start: 133 @54074 has 1 MA's), (Start: 149 @54050 has 248 MA's), (Start: 174 @54026 has 5 MA's), (Start: 186 @54020 has 3 MA's), (205, 53978), (212, 53957), (254, 53843), (256, 53837), (269, 53807), (296, 53747), (306, 53726), (323, 53672), (327, 53660), (332, 53642), (335, 53630), (372, 53525), (389, 53468), (400, 53432), (402, 53420), (410, 53396), (414, 53384), (421, 53366), (432, 53348), (442, 53330), (465, 53291), (469, 53282), (471, 53279), (473, 53276), (607, 52919), (612, 52886), (617, 52865), (647, 52772), (651, 52763), (668, 52700), (683, 52664), (685, 52661), (691, 52646), (717, 52568), (722, 52556), (730, 52535), (748, 52496), (775, 52406), (779, 52388), (781, 52382), (785, 52367), (793, 52343), (795, 52328), (796, 52325), (799, 52313), (809, 52289), (830, 52241), (840, 52217),

Gene: Anubis_51 Start: 31739, Stop: 29925, Start Num: 191

Candidate Starts for Anubis_51:

(Start: 191 @31739 has 828 MA's), (206, 31700), (209, 31688), (271, 31535), (276, 31520), (307, 31463), (326, 31406), (328, 31397), (340, 31355), (355, 31304), (372, 31253), (420, 31160), (446, 31112), (451, 31103), (458, 31088), (476, 31049), (484, 31022), (494, 30992), (528, 30899), (558, 30839), (565, 30824), (611, 30668), (637, 30581), (656, 30515), (666, 30476), (685, 30404), (698, 30365), (704, 30341), (712, 30323), (726, 30290), (737, 30263), (760, 30209), (775, 30149), (795, 30071), (812, 30014), (816, 30002), (820, 29993),

Gene: Apex_54 Start: 54199, Stop: 52376, Start Num: 141

Candidate Starts for Apex_54:

(Start: 128 @54217 has 3 MA's), (Start: 141 @54199 has 23 MA's), (Start: 186 @54175 has 3 MA's), (201, 54148), (205, 54133), (212, 54112), (246, 54025), (293, 53920), (310, 53878), (332, 53812),

(341, 53782), (343, 53773), (347, 53770), (349, 53767), (358, 53740), (389, 53647), (395, 53629), (400, 53611), (402, 53599), (407, 53584), (411, 53572), (442, 53509), (465, 53470), (469, 53461), (471, 53458), (483, 53428), (494, 53392), (589, 53167), (590, 53164), (601, 53128), (607, 53104), (612, 53071), (645, 52963), (647, 52957), (651, 52948), (683, 52849), (685, 52846), (691, 52831), (717, 52753), (722, 52741), (730, 52720), (733, 52711), (748, 52681), (768, 52624), (775, 52591), (781, 52567), (793, 52528), (796, 52510), (799, 52498), (809, 52474), (826, 52432), (830, 52426), (840, 52402),

Gene: Apizium_60 Start: 53711, Stop: 51852, Start Num: 149

Candidate Starts for Apizium_60:

(Start: 133 @53735 has 1 MA's), (Start: 149 @53711 has 248 MA's), (Start: 174 @53687 has 5 MA's), (Start: 186 @53681 has 3 MA's), (205, 53639), (212, 53618), (254, 53504), (256, 53498), (269, 53468), (296, 53408), (306, 53387), (323, 53333), (327, 53321), (332, 53303), (335, 53291), (372, 53186), (389, 53129), (400, 53093), (402, 53081), (411, 53054), (414, 53045), (432, 53009), (465, 52952), (469, 52943), (471, 52940), (473, 52937), (576, 52682), (607, 52580), (612, 52547), (617, 52526), (647, 52433), (651, 52424), (668, 52361), (683, 52325), (685, 52322), (691, 52307), (717, 52229), (722, 52217), (730, 52196), (748, 52157), (775, 52067), (779, 52049), (781, 52043), (785, 52028), (793, 52004), (795, 51989), (796, 51986), (799, 51974), (809, 51950), (816, 51929), (830, 51902), (840, 51878),

Gene: AppleCloud_34 Start: 28055, Stop: 26271, Start Num: 191

Candidate Starts for AppleCloud_34:

(Start: 191 @28055 has 828 MA's), (261, 27884), (288, 27821), (306, 27782), (307, 27779), (319, 27734), (326, 27722), (328, 27713), (339, 27674), (372, 27569), (420, 27476), (446, 27428), (476, 27365), (484, 27338), (523, 27233), (534, 27206), (556, 27167), (611, 26987), (623, 26939), (656, 26834), (657, 26831), (676, 26774), (683, 26753), (700, 26705), (727, 26630), (758, 26561), (770, 26519), (771, 26516), (775, 26495), (778, 26480), (795, 26417), (812, 26360), (816, 26348), (834, 26309), (839, 26291),

Gene: Applejack_41 Start: 31240, Stop: 29414, Start Num: 191

Candidate Starts for Applejack_41:

(Start: 191 @31240 has 828 MA's), (274, 31027), (314, 30934), (322, 30913), (326, 30907), (328, 30898), (365, 30781), (372, 30754), (420, 30661), (428, 30646), (446, 30613), (470, 30562), (472, 30559), (494, 30493), (508, 30463), (518, 30433), (534, 30388), (556, 30349), (611, 30169), (623, 30121), (637, 30082), (656, 30016), (666, 29977), (676, 29956), (683, 29935), (691, 29917), (712, 29851), (770, 29701), (771, 29698), (778, 29662), (785, 29638), (788, 29629), (792, 29617), (798, 29590), (812, 29542), (820, 29521),

Gene: Aragog_37 Start: 30134, Stop: 28275, Start Num: 191

Candidate Starts for Aragog_37:

(Start: 191 @30134 has 828 MA's), (209, 30083), (235, 30023), (262, 29960), (271, 29930), (272, 29927), (302, 29870), (307, 29858), (314, 29828), (326, 29801), (372, 29648), (420, 29552), (446, 29504), (457, 29483), (483, 29420), (484, 29414), (513, 29342), (523, 29309), (528, 29294), (534, 29282), (576, 29183), (611, 29048), (618, 29018), (623, 29000), (632, 28982), (637, 28961), (639, 28952), (656, 28895), (666, 28856), (683, 28814), (691, 28796), (704, 28748), (726, 28697), (750, 28643), (754, 28634), (760, 28616), (775, 28556), (779, 28538), (804, 28445), (812, 28421), (816, 28409), (865, 28292), (866, 28289),

Gene: Arbiter_56 Start: 52589, Stop: 50760, Start Num: 147

Candidate Starts for Arbiter_56:

(Start: 147 @52589 has 31 MA's), (Start: 186 @52562 has 3 MA's), (202, 52532), (205, 52520), (215, 52493), (216, 52490), (221, 52481), (235, 52463), (272, 52367), (296, 52316), (307, 52292), (358, 52130), (368, 52106), (372, 52094), (389, 52037), (400, 52001), (402, 51989), (410, 51965), (456,

51881), (469, 51851), (471, 51848), (483, 51818), (542, 51674), (565, 51608), (589, 51557), (595, 51536), (601, 51518), (612, 51461), (633, 51404), (639, 51377), (647, 51347), (651, 51338), (668, 51272), (679, 51245), (683, 51236), (691, 51218), (698, 51194), (717, 51140), (722, 51128), (730, 51107), (760, 51038), (775, 50978), (779, 50960), (789, 50927), (793, 50915), (795, 50900), (796, 50897), (799, 50885), (809, 50861), (810, 50858), (830, 50810), (832, 50807), (840, 50786), (847, 50765),

Gene: Arcanine_46 Start: 34538, Stop: 32751, Start Num: 191

Candidate Starts for Arcanine_46:

(Start: 191 @34538 has 828 MA's), (274, 34325), (283, 34310), (314, 34232), (322, 34211), (326, 34205), (328, 34196), (365, 34079), (372, 34052), (420, 33959), (428, 33944), (446, 33911), (470, 33860), (472, 33857), (494, 33791), (508, 33761), (518, 33731), (534, 33686), (556, 33647), (611, 33467), (623, 33419), (637, 33380), (656, 33314), (679, 33242), (683, 33233), (712, 33149), (750, 33062), (785, 32936), (789, 32924), (812, 32840), (814, 32834),

Gene: ArcherNM_42 Start: 31769, Stop: 29982, Start Num: 191

Candidate Starts for ArcherNM_42:

(Start: 191 @31769 has 828 MA's), (271, 31565), (272, 31562), (274, 31556), (283, 31541), (291, 31526), (307, 31493), (308, 31490), (314, 31463), (326, 31436), (331, 31415), (340, 31385), (372, 31283), (420, 31190), (446, 31142), (451, 31133), (458, 31118), (484, 31052), (515, 30971), (532, 30923), (534, 30917), (592, 30779), (611, 30698), (625, 30647), (636, 30614), (637, 30611), (656, 30545), (666, 30506), (676, 30485), (701, 30410), (726, 30347), (737, 30320), (754, 30284), (760, 30266), (770, 30230), (775, 30206), (791, 30149), (795, 30128), (812, 30071), (816, 30059), (820, 30050),

Gene: Archetta_38 Start: 30664, Stop: 28820, Start Num: 191

Candidate Starts for Archetta_38:

(Start: 191 @30664 has 828 MA's), (209, 30613), (235, 30553), (262, 30490), (271, 30460), (272, 30457), (302, 30400), (307, 30388), (314, 30358), (326, 30331), (355, 30229), (361, 30214), (372, 30178), (407, 30118), (420, 30082), (446, 30034), (483, 29950), (484, 29944), (513, 29872), (523, 29839), (528, 29824), (534, 29812), (576, 29713), (611, 29578), (618, 29548), (623, 29530), (625, 29527), (637, 29491), (639, 29482), (644, 29461), (647, 29452), (656, 29425), (657, 29422), (676, 29365), (683, 29344), (726, 29227), (750, 29173), (754, 29164), (760, 29146), (779, 29068), (794, 29011), (804, 28975), (812, 28951), (816, 28939),

Gene: Ares_57 Start: 52561, Stop: 50732, Start Num: 147

Candidate Starts for Ares_57:

(Start: 147 @52561 has 31 MA's), (Start: 186 @52534 has 3 MA's), (202, 52504), (205, 52492), (215, 52465), (216, 52462), (221, 52453), (235, 52435), (272, 52339), (296, 52288), (307, 52264), (312, 52240), (358, 52102), (368, 52078), (372, 52066), (389, 52009), (400, 51973), (402, 51961), (410, 51937), (456, 51853), (469, 51823), (471, 51820), (483, 51790), (542, 51646), (565, 51580), (586, 51541), (589, 51529), (595, 51508), (601, 51490), (612, 51433), (633, 51376), (639, 51349), (647, 51319), (651, 51310), (668, 51244), (679, 51217), (683, 51208), (691, 51190), (698, 51166), (717, 51112), (722, 51100), (730, 51079), (760, 51010), (775, 50950), (779, 50932), (789, 50899), (793, 50887), (795, 50872), (796, 50869), (799, 50857), (809, 50833), (810, 50830), (830, 50782), (832, 50779), (840, 50758), (847, 50737),

Gene: Arissanae_44 Start: 32041, Stop: 30248, Start Num: 191

Candidate Starts for Arissanae_44:

(Start: 191 @32041 has 828 MA's), (196, 32032), (245, 31903), (271, 31837), (279, 31819), (291, 31795), (308, 31759), (314, 31732), (319, 31717), (326, 31705), (340, 31654), (371, 31555), (372, 31552), (420, 31459), (433, 31435), (494, 31291), (530, 31195), (559, 31132), (579, 31093), (582, 31087), (611, 30964), (646, 30841), (656, 30811), (666, 30772), (679, 30739), (683, 30730), (691,

30712), (726, 30613), (754, 30550), (758, 30538), (768, 30505), (770, 30496), (795, 30394), (812, 30337), (816, 30325), (820, 30316),

Gene: Arlo_42 Start: 34069, Stop: 32243, Start Num: 191

Candidate Starts for Arlo_42:

(Start: 191 @34069 has 828 MA's), (274, 33856), (307, 33793), (314, 33763), (322, 33742), (326, 33736), (328, 33727), (365, 33610), (372, 33583), (420, 33490), (428, 33475), (470, 33391), (472, 33388), (494, 33322), (508, 33292), (518, 33262), (534, 33217), (556, 33178), (611, 32998), (623, 32950), (637, 32911), (656, 32845), (666, 32806), (676, 32785), (683, 32764), (691, 32746), (712, 32680), (770, 32530), (771, 32527), (778, 32491), (785, 32467), (788, 32458), (792, 32446), (812, 32371), (820, 32350),

Gene: Armstrong_40 Start: 27439, Stop: 29307, Start Num: 179

Candidate Starts for Armstrong_40:

(Start: 179 @27439 has 7 MA's), (Start: 182 @27442 has 49 MA's), (Start: 185 @27445 has 2 MA's), (216, 27514), (332, 27796), (340, 27823), (361, 27877), (441, 28042), (476, 28117), (483, 28138), (598, 28492), (611, 28552), (625, 28603), (644, 28669), (656, 28705), (680, 28798), (747, 28969), (770, 29041), (791, 29122), (811, 29197), (812, 29200), (820, 29221), (851, 29290),

Gene: Arroyo_43 Start: 30004, Stop: 31878, Start Num: 182

Candidate Starts for Arroyo_43:

(Start: 182 @30004 has 49 MA's), (216, 30073), (224, 30094), (328, 30340), (332, 30355), (340, 30382), (476, 30676), (523, 30811), (564, 30910), (598, 31033), (611, 31093), (614, 31099), (625, 31144), (632, 31159), (635, 31174), (644, 31210), (656, 31246), (680, 31339), (713, 31432), (747, 31510), (770, 31582), (778, 31621), (791, 31663), (794, 31681), (804, 31717), (812, 31741), (820, 31762),

Gene: Artemis2UCLA_45 Start: 29324, Stop: 27483, Start Num: 191

Candidate Starts for Artemis2UCLA_45:

(Start: 170 @29354 has 3 MA's), (Start: 191 @29324 has 828 MA's), (271, 29120), (307, 29045), (308, 29042), (314, 29015), (319, 29000), (326, 28988), (340, 28937), (368, 28847), (372, 28835), (420, 28742), (441, 28703), (451, 28685), (458, 28670), (484, 28604), (496, 28571), (498, 28568), (535, 28466), (565, 28406), (592, 28322), (611, 28241), (636, 28157), (637, 28154), (639, 28145), (646, 28118), (656, 28088), (676, 28028), (691, 27989), (770, 27773), (771, 27770), (775, 27749), (812, 27614), (816, 27602), (820, 27593), (821, 27590), (859, 27497),

Gene: Arturo_44 Start: 31826, Stop: 30000, Start Num: 191

Candidate Starts for Arturo_44:

(Start: 191 @31826 has 828 MA's), (201, 31805), (209, 31775), (221, 31745), (291, 31583), (300, 31565), (326, 31493), (328, 31484), (366, 31364), (372, 31340), (420, 31247), (448, 31199), (476, 31139), (523, 31007), (532, 30986), (556, 30941), (559, 30929), (609, 30776), (611, 30755), (646, 30632), (656, 30602), (666, 30563), (683, 30497), (685, 30494), (691, 30479), (698, 30455), (704, 30431), (775, 30224), (812, 30089), (816, 30077), (820, 30068),

Gene: Asa16_39 Start: 30354, Stop: 32219, Start Num: 191

Candidate Starts for Asa16_39:

(Start: 191 @30354 has 828 MA's), (208, 30402), (290, 30585), (293, 30591), (314, 30651), (322, 30672), (343, 30741), (428, 30957), (472, 31047), (476, 31056), (481, 31071), (496, 31116), (532, 31209), (583, 31347), (611, 31467), (618, 31497), (637, 31554), (654, 31611), (656, 31620), (663, 31644), (680, 31713), (704, 31785), (708, 31794), (752, 31893), (770, 31956), (812, 32115), (815, 32124),

Gene: Ascela_41 Start: 29607, Stop: 31472, Start Num: 191

Candidate Starts for Ascela_41:

(Start: 191 @29607 has 828 MA's), (208, 29655), (274, 29820), (314, 29904), (343, 29994), (423, 30201), (428, 30210), (472, 30300), (476, 30309), (481, 30324), (532, 30462), (583, 30600), (611, 30720), (618, 30750), (637, 30807), (656, 30873), (680, 30966), (704, 31038), (812, 31368), (815, 31377),

Gene: Ashballer_46 Start: 35324, Stop: 33498, Start Num: 191

Candidate Starts for Ashballer_46:

(Start: 191 @35324 has 828 MA's), (274, 35111), (283, 35096), (314, 35018), (322, 34997), (326, 34991), (328, 34982), (365, 34865), (372, 34838), (420, 34745), (428, 34730), (446, 34697), (470, 34646), (472, 34643), (494, 34577), (508, 34547), (518, 34517), (534, 34472), (556, 34433), (611, 34253), (623, 34205), (637, 34166), (656, 34100), (666, 34061), (676, 34040), (683, 34019), (691, 34001), (712, 33935), (770, 33785), (771, 33782), (778, 33746), (785, 33722), (788, 33713), (792, 33701), (798, 33674), (812, 33626), (820, 33605),

Gene: Ashraf_62 Start: 54257, Stop: 52398, Start Num: 149

Candidate Starts for Ashraf_62:

(Start: 133 @54281 has 1 MA's), (Start: 149 @54257 has 248 MA's), (Start: 174 @54233 has 5 MA's), (Start: 186 @54227 has 3 MA's), (205, 54185), (212, 54164), (254, 54050), (256, 54044), (269, 54014), (296, 53954), (306, 53933), (323, 53879), (327, 53867), (332, 53849), (335, 53837), (372, 53732), (389, 53675), (400, 53639), (402, 53627), (410, 53603), (414, 53591), (421, 53573), (432, 53555), (442, 53537), (465, 53498), (469, 53489), (471, 53486), (473, 53483), (576, 53228), (607, 53126), (612, 53093), (617, 53072), (647, 52979), (651, 52970), (668, 52907), (683, 52871), (685, 52868), (691, 52853), (717, 52775), (722, 52763), (730, 52742), (748, 52703), (775, 52613), (779, 52595), (781, 52589), (785, 52574), (793, 52550), (795, 52535), (796, 52532), (799, 52520), (809, 52496), (816, 52475), (830, 52448), (840, 52424),

Gene: Asis_48 Start: 39369, Stop: 37369, Start Num: 93

Candidate Starts for Asis_48:

(Start: 93 @39369 has 10 MA's), (Start: 132 @39300 has 1 MA's), (209, 39168), (211, 39162), (214, 39156), (238, 39108), (240, 39096), (242, 39090), (252, 39069), (257, 39054), (282, 38985), (333, 38844), (365, 38748), (391, 38661), (399, 38637), (403, 38625), (407, 38613), (437, 38544), (504, 38397), (548, 38292), (553, 38277), (580, 38220), (586, 38199), (599, 38157), (607, 38127), (612, 38094), (627, 38040), (640, 38010), (658, 37941), (663, 37920), (684, 37857), (692, 37839), (695, 37827), (701, 37803), (775, 37602), (776, 37599), (781, 37578), (792, 37545), (795, 37527), (805, 37494), (813, 37470), (835, 37422),

Gene: Astro_42 Start: 30542, Stop: 28698, Start Num: 191

Candidate Starts for Astro_42:

(95, 30707), (Start: 191 @30542 has 828 MA's), (209, 30491), (262, 30368), (271, 30338), (291, 30299), (307, 30266), (314, 30236), (322, 30215), (326, 30209), (328, 30200), (340, 30158), (355, 30107), (371, 30059), (372, 30056), (420, 29960), (435, 29933), (444, 29915), (446, 29912), (451, 29903), (476, 29849), (484, 29822), (502, 29774), (523, 29717), (534, 29690), (559, 29639), (566, 29624), (609, 29477), (611, 29456), (618, 29426), (623, 29408), (625, 29405), (632, 29390), (637, 29369), (639, 29360), (646, 29333), (651, 29321), (656, 29303), (683, 29222), (689, 29210), (704, 29156), (719, 29120), (733, 29084), (750, 29051), (758, 29030), (760, 29024), (771, 28985), (775, 28964), (779, 28946), (812, 28829), (816, 28817),

Gene: Athena_60 Start: 54420, Stop: 52603, Start Num: 183

Candidate Starts for Athena_60:

(80, 54603), (Start: 183 @54420 has 42 MA's), (201, 54390), (274, 54210), (331, 54057), (334, 54045), (343, 54015), (349, 54009), (372, 53946), (375, 53940), (389, 53889), (400, 53853), (414, 53805), (471, 53700), (510, 53604), (533, 53553), (589, 53409), (601, 53370), (608, 53340), (612,

53313), (616, 53301), (645, 53205), (647, 53199), (651, 53190), (655, 53178), (674, 53106), (683, 53076), (691, 53058), (694, 53049), (717, 52980), (722, 52968), (730, 52947), (760, 52878), (765, 52863), (771, 52839), (775, 52818), (781, 52794), (793, 52755), (796, 52737), (799, 52725), (805, 52713), (809, 52701), (826, 52659), (840, 52629),

Gene: Atkinbua_46 Start: 34825, Stop: 32999, Start Num: 191

Candidate Starts for Atkinbua_46:

(Start: 191 @34825 has 828 MA's), (274, 34612), (314, 34519), (322, 34498), (326, 34492), (328, 34483), (365, 34366), (372, 34339), (420, 34246), (428, 34231), (470, 34147), (472, 34144), (494, 34078), (508, 34048), (518, 34018), (534, 33973), (556, 33934), (611, 33754), (623, 33706), (637, 33667), (656, 33601), (666, 33562), (676, 33541), (683, 33520), (691, 33502), (712, 33436), (770, 33286), (771, 33283), (778, 33247), (788, 33214), (792, 33202), (812, 33127), (820, 33106),

Gene: Attoomi_34 Start: 26889, Stop: 28748, Start Num: 191

Candidate Starts for Attoomi_34:

(157, 26838), (Start: 191 @26889 has 828 MA's), (272, 27099), (283, 27120), (296, 27144), (320, 27216), (328, 27234), (331, 27246), (347, 27306), (361, 27342), (375, 27384), (423, 27474), (444, 27513), (458, 27546), (467, 27567), (476, 27585), (481, 27600), (484, 27612), (491, 27633), (508, 27672), (515, 27690), (518, 27699), (523, 27717), (524, 27720), (532, 27738), (556, 27783), (561, 27801), (563, 27807), (564, 27816), (576, 27861), (594, 27924), (595, 27927), (614, 28002), (635, 28077), (639, 28092), (642, 28107), (645, 28116), (656, 28149), (669, 28203), (704, 28314), (708, 28323), (758, 28443), (768, 28476), (776, 28512), (808, 28632), (812, 28644), (814, 28650), (857, 28740),

Gene: Atuin_96 Start: 78424, Stop: 80142, Start Num: 221

Candidate Starts for Atuin_96:

(195, 78349), (212, 78403), (216, 78412), (221, 78424), (317, 78643), (327, 78661), (334, 78688), (336, 78694), (376, 78799), (464, 78946), (476, 78973), (481, 78988), (500, 79042), (582, 79243), (588, 79270), (597, 79303), (609, 79342), (611, 79363), (614, 79369), (644, 79486), (665, 79570), (666, 79573), (680, 79636), (686, 79648), (698, 79684), (708, 79717), (730, 79771), (738, 79789), (770, 79894), (776, 79921), (779, 79936), (789, 79969), (791, 79975), (794, 79993), (798, 80005), (800, 80017), (801, 80020), (812, 80053), (836, 80104),

Gene: Audrey_58 Start: 53676, Stop: 51859, Start Num: 183

Candidate Starts for Audrey_58:

(80, 53859), (Start: 183 @53676 has 42 MA's), (201, 53646), (274, 53466), (331, 53313), (334, 53301), (343, 53271), (349, 53265), (372, 53202), (375, 53196), (389, 53145), (400, 53109), (414, 53061), (471, 52956), (510, 52860), (533, 52809), (589, 52665), (601, 52626), (608, 52596), (612, 52569), (616, 52557), (645, 52461), (647, 52455), (651, 52446), (655, 52434), (674, 52362), (683, 52332), (691, 52314), (694, 52305), (717, 52236), (722, 52224), (730, 52203), (760, 52134), (765, 52119), (771, 52095), (775, 52074), (781, 52050), (793, 52011), (796, 51993), (799, 51981), (805, 51969), (809, 51957), (826, 51915), (840, 51885),

Gene: AugsMagnumOpus_51 Start: 31845, Stop: 30031, Start Num: 191

Candidate Starts for AugsMagnumOpus_51:

(Start: 191 @31845 has 828 MA's), (206, 31806), (209, 31794), (271, 31641), (276, 31626), (307, 31569), (326, 31512), (328, 31503), (340, 31461), (355, 31410), (372, 31359), (420, 31266), (446, 31218), (451, 31209), (458, 31194), (476, 31155), (484, 31128), (494, 31098), (528, 31005), (534, 30993), (558, 30945), (565, 30930), (611, 30774), (637, 30687), (656, 30621), (666, 30582), (685, 30510), (698, 30471), (704, 30447), (712, 30429), (726, 30396), (737, 30369), (760, 30315), (775, 30255), (795, 30177), (812, 30120), (816, 30108), (820, 30099),

Gene: Austelle_54 Start: 54652, Stop: 52829, Start Num: 141

Candidate Starts for Austelle_54:

(Start: 128 @54670 has 3 MA's), (Start: 141 @54652 has 23 MA's), (Start: 186 @54628 has 3 MA's), (201, 54601), (205, 54586), (212, 54565), (246, 54478), (293, 54373), (310, 54331), (332, 54265), (341, 54235), (343, 54226), (347, 54223), (349, 54220), (358, 54193), (389, 54100), (395, 54082), (400, 54064), (402, 54052), (407, 54037), (411, 54025), (442, 53962), (465, 53923), (469, 53914), (471, 53911), (483, 53881), (494, 53845), (589, 53620), (590, 53617), (601, 53581), (607, 53557), (612, 53524), (645, 53416), (647, 53410), (651, 53401), (683, 53302), (685, 53299), (691, 53284), (717, 53206), (722, 53194), (730, 53173), (733, 53164), (748, 53134), (760, 53104), (768, 53077), (775, 53044), (781, 53020), (793, 52981), (796, 52963), (799, 52951), (809, 52927), (826, 52885), (830, 52879), (840, 52855),

Gene: AvGardian_44 Start: 29897, Stop: 31789, Start Num: 182

Candidate Starts for AvGardian_44:

(Start: 182 @29897 has 49 MA's), (216, 29966), (224, 29987), (318, 30209), (328, 30233), (331, 30245), (332, 30248), (446, 30503), (476, 30569), (564, 30821), (598, 30944), (607, 30974), (611, 31004), (614, 31010), (625, 31055), (635, 31085), (644, 31121), (647, 31130), (656, 31157), (680, 31250), (713, 31343), (747, 31421), (748, 31424), (770, 31493), (775, 31517), (778, 31532), (791, 31574), (812, 31652), (820, 31673), (821, 31676), (831, 31697),

Gene: AvatarAhPeg_44 Start: 32048, Stop: 30219, Start Num: 191

Candidate Starts for AvatarAhPeg_44:

(Start: 191 @32048 has 828 MA's), (209, 31997), (291, 31805), (300, 31787), (326, 31715), (328, 31706), (366, 31586), (372, 31562), (420, 31469), (448, 31421), (458, 31400), (476, 31361), (490, 31316), (492, 31310), (523, 31229), (526, 31220), (532, 31208), (556, 31163), (559, 31151), (611, 30977), (639, 30881), (646, 30854), (647, 30851), (656, 30824), (666, 30785), (683, 30716), (685, 30713), (691, 30698), (698, 30674), (704, 30650), (706, 30644), (775, 30443), (812, 30308), (816, 30296), (820, 30287),

Gene: Avle17_45 Start: 31567, Stop: 29741, Start Num: 191

Candidate Starts for Avle17_45:

(Start: 191 @31567 has 828 MA's), (201, 31546), (209, 31516), (221, 31486), (291, 31324), (300, 31306), (326, 31234), (328, 31225), (366, 31105), (372, 31081), (420, 30988), (448, 30940), (458, 30919), (476, 30880), (523, 30748), (532, 30727), (556, 30682), (559, 30670), (609, 30517), (611, 30496), (646, 30373), (656, 30343), (666, 30304), (683, 30238), (685, 30235), (691, 30220), (698, 30196), (704, 30172), (775, 29965), (812, 29830), (816, 29818), (820, 29809),

Gene: Avocadoman_41 Start: 29025, Stop: 30899, Start Num: 182

Candidate Starts for Avocadoman_41:

(Start: 182 @29025 has 49 MA's), (224, 29115), (328, 29361), (332, 29376), (340, 29403), (476, 29697), (523, 29832), (564, 29931), (598, 30054), (611, 30114), (614, 30120), (625, 30165), (632, 30180), (635, 30195), (644, 30231), (656, 30267), (680, 30360), (713, 30453), (747, 30531), (770, 30603), (778, 30642), (791, 30684), (794, 30702), (804, 30738), (812, 30762), (820, 30783),

Gene: Axumite_51 Start: 45981, Stop: 44164, Start Num: 177

Candidate Starts for Axumite_51:

(34, 46302), (41, 46278), (Start: 177 @45981 has 10 MA's), (201, 45945), (205, 45930), (216, 45900), (265, 45774), (316, 45651), (324, 45636), (335, 45594), (372, 45498), (400, 45405), (460, 45276), (471, 45252), (595, 44940), (601, 44922), (612, 44865), (647, 44751), (651, 44742), (668, 44679), (685, 44640), (691, 44625), (717, 44547), (722, 44535), (730, 44514), (733, 44505), (768, 44418), (776, 44382), (778, 44370), (790, 44331), (793, 44322), (795, 44307), (809, 44262), (830, 44214), (840, 44190),

Gene: B1_42 Start: 30729, Stop: 28891, Start Num: 191

Candidate Starts for B1_42:

(Start: 141 @30801 has 23 MA's), (Start: 191 @30729 has 828 MA's), (209, 30678), (271, 30525), (291, 30486), (307, 30453), (326, 30396), (328, 30387), (331, 30375), (366, 30267), (372, 30243), (420, 30147), (448, 30099), (476, 30039), (523, 29907), (532, 29886), (565, 29817), (582, 29772), (592, 29730), (611, 29649), (637, 29562), (646, 29526), (656, 29496), (685, 29385), (698, 29346), (704, 29322), (712, 29304), (758, 29181), (760, 29175), (775, 29115), (811, 28983), (812, 28980), (816, 28968), (820, 28959),

Gene: BABullseye_43 Start: 29170, Stop: 27329, Start Num: 191

Candidate Starts for BABullseye_43:

(Start: 191 @29170 has 828 MA's), (271, 28966), (307, 28891), (308, 28888), (314, 28861), (319, 28846), (326, 28834), (340, 28783), (368, 28693), (372, 28681), (420, 28588), (441, 28549), (451, 28531), (458, 28516), (484, 28450), (496, 28417), (498, 28414), (535, 28312), (565, 28252), (592, 28168), (611, 28087), (636, 28003), (637, 28000), (639, 27991), (646, 27964), (656, 27934), (676, 27874), (691, 27835), (770, 27619), (771, 27616), (775, 27595), (812, 27460), (816, 27448), (820, 27439), (821, 27436), (859, 27343),

Gene: BAjuniper_43 Start: 30818, Stop: 32689, Start Num: 182

Candidate Starts for BAjuniper_43:

(Start: 182 @30818 has 49 MA's), (224, 30908), (262, 30995), (271, 31025), (328, 31154), (456, 31445), (476, 31490), (481, 31505), (515, 31598), (598, 31844), (611, 31904), (625, 31955), (632, 31970), (644, 32021), (647, 32030), (656, 32057), (680, 32150), (704, 32222), (713, 32243), (747, 32321), (748, 32324), (770, 32393), (791, 32474), (793, 32480), (804, 32528), (812, 32552), (820, 32573), (831, 32597),

Gene: BFK20_ORF44 Start: 37992, Stop: 36088, Start Num: 149

Candidate Starts for BFK20_ORF44:

(Start: 149 @37992 has 248 MA's), (196, 37932), (205, 37905), (212, 37881), (215, 37875), (231, 37833), (239, 37800), (255, 37758), (260, 37743), (270, 37710), (272, 37704), (315, 37599), (323, 37581), (331, 37557), (335, 37542), (339, 37530), (366, 37461), (386, 37392), (393, 37374), (400, 37350), (407, 37323), (471, 37194), (473, 37191), (483, 37164), (525, 37068), (530, 37056), (532, 37050), (598, 36873), (612, 36807), (647, 36690), (686, 36576), (691, 36564), (702, 36522), (704, 36516), (712, 36498), (717, 36486), (722, 36474), (730, 36453), (750, 36411), (757, 36393), (764, 36357), (776, 36306), (793, 36246), (809, 36192), (816, 36171), (840, 36114),

Gene: BK1_41 Start: 33551, Stop: 31725, Start Num: 191

Candidate Starts for BK1_41:

(Start: 191 @33551 has 828 MA's), (274, 33338), (283, 33323), (307, 33275), (314, 33245), (322, 33224), (326, 33218), (328, 33209), (351, 33125), (355, 33116), (365, 33092), (372, 33065), (420, 32972), (428, 32957), (439, 32936), (446, 32924), (470, 32873), (472, 32870), (490, 32816), (494, 32804), (508, 32774), (518, 32744), (534, 32699), (556, 32660), (611, 32480), (623, 32432), (637, 32393), (656, 32327), (666, 32288), (676, 32267), (683, 32246), (691, 32228), (712, 32162), (770, 32012), (771, 32009), (778, 31973), (785, 31949), (788, 31940), (792, 31928), (812, 31853), (820, 31832),

Gene: BPBiebs31_45 Start: 34673, Stop: 32844, Start Num: 191

Candidate Starts for BPBiebs31_45:

(Start: 191 @34673 has 828 MA's), (274, 34460), (307, 34397), (314, 34367), (322, 34346), (326, 34340), (328, 34331), (365, 34214), (372, 34187), (420, 34094), (428, 34079), (470, 33995), (472, 33992), (494, 33926), (508, 33896), (518, 33866), (534, 33821), (556, 33782), (611, 33602), (623, 33554), (639, 33506), (651, 33467), (656, 33449), (666, 33410), (676, 33389), (683, 33368), (690, 33353), (733, 33230), (789, 33059), (794, 33035), (808, 32987), (812, 32975), (820, 32954), (823, 32948), (842, 32900), (849, 32885),

Gene: BRock_133 Start: 70485, Stop: 72557, Start Num: 100

Candidate Starts for BRock_133:

(77, 70437), (85, 70449), (90, 70458), (91, 70461), (Start: 100 @70485 has 4 MA's), (Start: 156 @70575 has 1 MA's), (192, 70626), (Start: 194 @70629 has 1 MA's), (198, 70641), (209, 70674), (268, 70845), (286, 70884), (304, 70920), (339, 71040), (354, 71094), (356, 71097), (396, 71229), (397, 71235), (401, 71250), (414, 71301), (570, 71685), (607, 71802), (610, 71820), (640, 71916), (643, 71928), (656, 71982), (669, 72042), (672, 72051), (675, 72060), (692, 72102), (721, 72186), (729, 72204), (736, 72219), (749, 72246), (772, 72318), (773, 72321), (813, 72465), (835, 72519),

Gene: Baby16_45 Start: 31581, Stop: 29755, Start Num: 191

Candidate Starts for Baby16_45:

(Start: 191 @31581 has 828 MA's), (201, 31560), (209, 31530), (221, 31500), (291, 31338), (300, 31320), (326, 31248), (328, 31239), (366, 31119), (372, 31095), (420, 31002), (448, 30954), (458, 30933), (476, 30894), (523, 30762), (532, 30741), (556, 30696), (559, 30684), (609, 30531), (611, 30510), (646, 30387), (656, 30357), (666, 30318), (683, 30252), (685, 30249), (691, 30234), (698, 30210), (704, 30186), (775, 29979), (812, 29844), (816, 29832), (820, 29823),

Gene: BabyBack_42 Start: 31842, Stop: 30049, Start Num: 191

Candidate Starts for BabyBack_42:

(76, 32046), (Start: 191 @31842 has 828 MA's), (307, 31563), (308, 31560), (314, 31533), (319, 31518), (326, 31506), (328, 31497), (368, 31365), (372, 31353), (420, 31260), (446, 31212), (451, 31203), (458, 31188), (484, 31122), (501, 31077), (515, 31041), (611, 30765), (636, 30681), (646, 30642), (656, 30612), (666, 30573), (679, 30540), (683, 30531), (770, 30297), (795, 30195), (812, 30138), (816, 30126), (820, 30117),

Gene: BabyDaisy_42 Start: 29859, Stop: 31733, Start Num: 182

Candidate Starts for BabyDaisy_42:

(Start: 179 @29856 has 7 MA's), (Start: 182 @29859 has 49 MA's), (216, 29928), (224, 29949), (328, 30195), (361, 30291), (476, 30531), (564, 30765), (597, 30885), (598, 30888), (611, 30948), (614, 30954), (632, 31014), (635, 31029), (644, 31065), (656, 31101), (680, 31194), (747, 31365), (748, 31368), (770, 31437), (778, 31476), (791, 31518), (794, 31536), (804, 31572), (812, 31596), (820, 31617),

Gene: BabyGotBac_49 Start: 39369, Stop: 37369, Start Num: 93

Candidate Starts for BabyGotBac_49:

(Start: 93 @39369 has 10 MA's), (Start: 132 @39300 has 1 MA's), (209, 39168), (211, 39162), (214, 39156), (238, 39108), (240, 39096), (242, 39090), (252, 39069), (257, 39054), (282, 38985), (333, 38844), (365, 38748), (391, 38661), (399, 38637), (403, 38625), (407, 38613), (437, 38544), (504, 38397), (548, 38292), (553, 38277), (580, 38220), (586, 38199), (599, 38157), (607, 38127), (612, 38094), (627, 38040), (640, 38010), (658, 37941), (663, 37920), (684, 37857), (692, 37839), (695, 37827), (701, 37803), (775, 37602), (776, 37599), (792, 37545), (795, 37527), (805, 37494), (813, 37470), (835, 37422),

Gene: BabyRay_45 Start: 31465, Stop: 29627, Start Num: 191

Candidate Starts for BabyRay_45:

(Start: 191 @31465 has 828 MA's), (209, 31414), (271, 31261), (274, 31252), (302, 31201), (307, 31189), (326, 31132), (328, 31123), (366, 31003), (368, 30991), (372, 30979), (420, 30883), (448, 30835), (476, 30775), (498, 30712), (523, 30643), (532, 30622), (565, 30553), (568, 30547), (582, 30508), (611, 30385), (637, 30298), (646, 30262), (656, 30232), (664, 30202), (685, 30121), (698, 30082), (704, 30058), (712, 30040), (760, 29911), (775, 29851), (812, 29716), (816, 29704), (820, 29695),

Gene: BabyYoda_43 Start: 30631, Stop: 32505, Start Num: 182

Candidate Starts for BabyYoda_43:

(Start: 182 @30631 has 49 MA's), (216, 30700), (224, 30721), (307, 30901), (328, 30967), (332, 30982), (340, 31009), (476, 31303), (564, 31537), (597, 31657), (598, 31660), (611, 31720), (614, 31726), (625, 31771), (632, 31786), (635, 31801), (644, 31837), (656, 31873), (680, 31966), (713, 32059), (747, 32137), (748, 32140), (770, 32209), (775, 32233), (778, 32248), (791, 32290), (794, 32308), (812, 32368), (820, 32389),

Gene: Bachaco_41 Start: 30596, Stop: 32467, Start Num: 182

Candidate Starts for Bachaco_41:

(Start: 182 @30596 has 49 MA's), (216, 30665), (264, 30779), (328, 30932), (361, 31028), (438, 31187), (456, 31223), (476, 31268), (481, 31283), (515, 31376), (556, 31466), (611, 31682), (625, 31733), (632, 31748), (644, 31799), (647, 31808), (656, 31835), (680, 31928), (704, 32000), (747, 32099), (770, 32171), (775, 32195), (791, 32252), (804, 32306), (812, 32330), (820, 32351),

Gene: Bachome_46 Start: 30764, Stop: 28977, Start Num: 191

Candidate Starts for Bachome_46:

(Start: 191 @30764 has 828 MA's), (271, 30560), (307, 30488), (314, 30458), (326, 30431), (423, 30179), (451, 30128), (484, 30047), (501, 30002), (502, 29999), (532, 29918), (559, 29861), (581, 29819), (592, 29774), (611, 29693), (625, 29642), (637, 29606), (656, 29540), (676, 29480), (679, 29468), (716, 29366), (726, 29342), (732, 29324), (760, 29261), (768, 29234), (770, 29225), (775, 29201), (812, 29066), (816, 29054), (820, 29045),

Gene: Backyardigan_43 Start: 31552, Stop: 29723, Start Num: 191

Candidate Starts for Backyardigan_43:

(Start: 191 @31552 has 828 MA's), (209, 31501), (221, 31471), (291, 31309), (300, 31291), (307, 31276), (326, 31219), (328, 31210), (366, 31090), (372, 31066), (401, 31024), (420, 30973), (448, 30925), (458, 30904), (476, 30865), (490, 30820), (492, 30814), (523, 30733), (532, 30712), (556, 30667), (609, 30502), (611, 30481), (656, 30328), (666, 30289), (685, 30217), (691, 30202), (698, 30178), (702, 30160), (704, 30154), (706, 30148), (775, 29947), (812, 29812), (816, 29800), (820, 29791),

Gene: BaconJack_48 Start: 35612, Stop: 33786, Start Num: 191

Candidate Starts for BaconJack_48:

(Start: 191 @35612 has 828 MA's), (274, 35399), (283, 35384), (307, 35336), (314, 35306), (322, 35285), (326, 35279), (328, 35270), (365, 35153), (372, 35126), (420, 35033), (428, 35018), (470, 34934), (472, 34931), (494, 34865), (518, 34805), (534, 34760), (556, 34721), (611, 34541), (618, 34511), (623, 34493), (625, 34490), (637, 34454), (656, 34388), (679, 34316), (683, 34307), (685, 34304), (712, 34223), (770, 34073), (771, 34070), (778, 34034), (785, 34010), (788, 34001), (792, 33989), (795, 33971), (812, 33914), (820, 33893),

Gene: Bactobuster_43 Start: 32277, Stop: 30487, Start Num: 191

Candidate Starts for Bactobuster_43:

(Start: 191 @32277 has 828 MA's), (271, 32073), (274, 32064), (308, 31995), (314, 31968), (326, 31941), (372, 31788), (420, 31695), (446, 31647), (451, 31638), (458, 31623), (484, 31557), (496, 31524), (526, 31440), (565, 31359), (581, 31329), (611, 31203), (618, 31173), (625, 31152), (646, 31080), (656, 31050), (666, 31011), (676, 30990), (683, 30969), (754, 30789), (758, 30777), (770, 30735), (775, 30711), (791, 30654), (795, 30633), (812, 30576), (816, 30564), (820, 30555),

Gene: Badfish_61 Start: 54554, Stop: 52695, Start Num: 149

Candidate Starts for Badfish_61:

(Start: 133 @54578 has 1 MA's), (Start: 149 @54554 has 248 MA's), (Start: 174 @54530 has 5 MA's), (Start: 186 @54524 has 3 MA's), (205, 54482), (212, 54461), (254, 54347), (256, 54341), (269,

54311), (296, 54251), (306, 54230), (323, 54176), (327, 54164), (332, 54146), (335, 54134), (372, 54029), (389, 53972), (400, 53936), (402, 53924), (411, 53897), (421, 53870), (432, 53852), (442, 53834), (465, 53795), (469, 53786), (471, 53783), (576, 53525), (607, 53423), (612, 53390), (617, 53369), (647, 53276), (651, 53267), (668, 53204), (683, 53168), (685, 53165), (691, 53150), (717, 53072), (722, 53060), (730, 53039), (748, 53000), (775, 52910), (779, 52892), (781, 52886), (785, 52871), (793, 52847), (795, 52832), (796, 52829), (799, 52817), (809, 52793), (830, 52745), (840, 52721),

Gene: Badger_43 Start: 31520, Stop: 29691, Start Num: 191

Candidate Starts for Badger_43:

(Start: 191 @31520 has 828 MA's), (209, 31469), (221, 31439), (291, 31277), (300, 31259), (307, 31244), (326, 31187), (328, 31178), (366, 31058), (372, 31034), (401, 30992), (420, 30941), (448, 30893), (458, 30872), (476, 30833), (490, 30788), (492, 30782), (523, 30701), (532, 30680), (556, 30635), (609, 30470), (611, 30449), (656, 30296), (666, 30257), (685, 30185), (691, 30170), (698, 30146), (702, 30128), (704, 30122), (706, 30116), (775, 29915), (812, 29780), (816, 29768), (820, 29759),

Gene: Bae_59 Start: 55561, Stop: 53708, Start Num: 141

Candidate Starts for Bae_59:

(67, 55720), (98, 55639), (Start: 141 @55561 has 23 MA's), (Start: 172 @55516 has 1 MA's), (201, 55480), (227, 55420), (332, 55159), (347, 55117), (363, 55081), (372, 55051), (400, 54958), (402, 54946), (410, 54922), (414, 54910), (421, 54892), (460, 54829), (471, 54805), (515, 54700), (590, 54511), (595, 54493), (608, 54445), (612, 54418), (617, 54397), (645, 54310), (647, 54304), (651, 54295), (657, 54274), (674, 54211), (685, 54178), (691, 54163), (710, 54103), (717, 54085), (722, 54073), (730, 54052), (733, 54043), (735, 54040), (775, 53923), (781, 53899), (793, 53860), (795, 53845), (796, 53842), (809, 53806), (810, 53803), (840, 53734),

Gene: Baehexic_43 Start: 31482, Stop: 29695, Start Num: 191

Candidate Starts for Baehexic_43:

(Start: 191 @31482 has 828 MA's), (271, 31278), (272, 31275), (274, 31269), (291, 31239), (307, 31206), (308, 31203), (314, 31176), (326, 31149), (340, 31098), (372, 30996), (420, 30903), (446, 30855), (451, 30846), (458, 30831), (484, 30765), (515, 30684), (532, 30636), (592, 30492), (611, 30411), (625, 30360), (636, 30327), (656, 30258), (666, 30219), (676, 30198), (683, 30177), (689, 30165), (758, 29985), (760, 29979), (770, 29943), (775, 29919), (795, 29841), (812, 29784), (816, 29772),

Gene: BaileyBlu_41 Start: 29217, Stop: 31091, Start Num: 191

Candidate Starts for BaileyBlu_41:

(72, 29007), (Start: 191 @29217 has 828 MA's), (195, 29223), (199, 29235), (290, 29448), (308, 29487), (423, 29811), (476, 29919), (481, 29934), (515, 30024), (532, 30072), (611, 30330), (618, 30360), (638, 30420), (644, 30447), (646, 30453), (720, 30687), (770, 30819), (775, 30843), (781, 30867), (788, 30891), (796, 30924), (812, 30978), (815, 30987), (824, 31008), (853, 31074),

Gene: Baloo_58 Start: 53679, Stop: 51862, Start Num: 183

Candidate Starts for Baloo_58:

(32, 54063), (80, 53862), (Start: 183 @53679 has 42 MA's), (201, 53649), (274, 53469), (331, 53316), (334, 53304), (343, 53274), (349, 53268), (372, 53205), (375, 53199), (389, 53148), (400, 53112), (414, 53064), (471, 52959), (510, 52863), (533, 52812), (589, 52668), (601, 52629), (608, 52599), (612, 52572), (616, 52560), (645, 52464), (647, 52458), (651, 52449), (655, 52437), (674, 52365), (683, 52335), (691, 52317), (694, 52308), (717, 52239), (722, 52227), (730, 52206), (760, 52137), (765, 52122), (771, 52098), (775, 52077), (781, 52053), (793, 52014), (796, 51996), (799, 51984), (805, 51972), (809, 51960), (826, 51918), (840, 51888),

Gene: Bananafish_57 Start: 52489, Stop: 50660, Start Num: 147

Candidate Starts for Bananafish_57:

(Start: 147 @52489 has 31 MA's), (Start: 186 @52462 has 3 MA's), (202, 52432), (205, 52420), (215, 52393), (216, 52390), (221, 52381), (235, 52363), (272, 52267), (296, 52216), (307, 52192), (358, 52030), (368, 52006), (372, 51994), (389, 51937), (400, 51901), (402, 51889), (410, 51865), (456, 51781), (469, 51751), (471, 51748), (483, 51718), (542, 51574), (565, 51508), (586, 51469), (589, 51457), (595, 51436), (601, 51418), (612, 51361), (639, 51277), (647, 51247), (651, 51238), (668, 51172), (679, 51145), (683, 51136), (691, 51118), (698, 51094), (717, 51040), (722, 51028), (730, 51007), (760, 50938), (775, 50878), (779, 50860), (789, 50827), (793, 50815), (795, 50800), (796, 50797), (799, 50785), (809, 50761), (810, 50758), (830, 50710), (832, 50707), (840, 50686), (847, 50665),

Gene: BangNhom_46 Start: 31992, Stop: 30166, Start Num: 191

Candidate Starts for BangNhom_46:

(Start: 191 @31992 has 828 MA's), (208, 31944), (271, 31788), (307, 31716), (326, 31659), (328, 31650), (366, 31530), (372, 31506), (420, 31413), (448, 31365), (458, 31344), (476, 31305), (490, 31260), (523, 31173), (526, 31164), (532, 31152), (556, 31107), (559, 31095), (609, 30942), (611, 30921), (646, 30798), (656, 30768), (666, 30729), (683, 30663), (685, 30660), (698, 30621), (704, 30597), (775, 30390), (812, 30255), (816, 30243), (820, 30234),

Gene: Banjo_59 Start: 54043, Stop: 52184, Start Num: 149

Candidate Starts for Banjo_59:

(Start: 133 @54067 has 1 MA's), (Start: 149 @54043 has 248 MA's), (Start: 174 @54019 has 5 MA's), (Start: 186 @54013 has 3 MA's), (205, 53971), (212, 53950), (254, 53836), (256, 53830), (269, 53800), (296, 53740), (306, 53719), (323, 53665), (327, 53653), (332, 53635), (335, 53623), (372, 53518), (389, 53461), (400, 53425), (402, 53413), (411, 53386), (421, 53359), (432, 53341), (442, 53323), (465, 53284), (469, 53275), (471, 53272), (473, 53269), (607, 52912), (612, 52879), (617, 52858), (647, 52765), (651, 52756), (668, 52693), (683, 52657), (685, 52654), (691, 52639), (717, 52561), (722, 52549), (730, 52528), (748, 52489), (775, 52399), (779, 52381), (781, 52375), (785, 52360), (793, 52336), (795, 52321), (796, 52318), (799, 52306), (809, 52282), (830, 52234), (840, 52210),

Gene: BarnCat_63 Start: 37491, Stop: 35530, Start Num: 92

Candidate Starts for BarnCat_63:

(Start: 92 @37491 has 10 MA's), (120, 37431), (Start: 132 @37413 has 1 MA's), (165, 37371), (Start: 172 @37359 has 1 MA's), (200, 37317), (215, 37272), (233, 37248), (235, 37242), (269, 37134), (273, 37122), (350, 36969), (358, 36948), (369, 36915), (385, 36864), (392, 36843), (395, 36834), (412, 36777), (421, 36753), (427, 36741), (486, 36633), (495, 36603), (540, 36516), (545, 36498), (547, 36495), (548, 36492), (551, 36483), (592, 36375), (613, 36291), (669, 36072), (682, 36027), (703, 35961), (720, 35919), (735, 35889), (758, 35838), (760, 35832), (765, 35808), (774, 35781), (775, 35769), (776, 35766), (789, 35712), (794, 35688), (796, 35682), (813, 35628), (837, 35574),

Gene: Barnstormer_47 Start: 31148, Stop: 33013, Start Num: 190

Candidate Starts for Barnstormer_47:

(114, 31028), (Start: 124 @31046 has 2 MA's), (Start: 190 @31148 has 8 MA's), (234, 31256), (474, 31844), (476, 31850), (532, 32003), (561, 32066), (611, 32261), (631, 32324), (644, 32378), (646, 32384), (657, 32417), (713, 32600), (812, 32909), (844, 32987), (856, 33008),

Gene: Barriga_45 Start: 34327, Stop: 32501, Start Num: 191

Candidate Starts for Barriga_45:

(Start: 191 @34327 has 828 MA's), (274, 34114), (283, 34099), (307, 34051), (314, 34021), (322, 34000), (326, 33994), (328, 33985), (351, 33901), (365, 33868), (372, 33841), (420, 33748), (428, 33733), (470, 33649), (472, 33646), (494, 33580), (518, 33520), (534, 33475), (556, 33436), (611,

33256), (623, 33208), (637, 33169), (656, 33103), (666, 33064), (676, 33043), (683, 33022), (691, 33004), (712, 32938), (770, 32788), (771, 32785), (778, 32749), (785, 32725), (788, 32716), (792, 32704), (798, 32677), (812, 32629), (820, 32608),

Gene: Bartimeaus_45 Start: 31572, Stop: 29746, Start Num: 191

Candidate Starts for Bartimeaus_45:

(Start: 191 @31572 has 828 MA's), (201, 31551), (209, 31521), (221, 31491), (291, 31329), (300, 31311), (326, 31239), (328, 31230), (366, 31110), (372, 31086), (420, 30993), (448, 30945), (458, 30924), (476, 30885), (523, 30753), (532, 30732), (556, 30687), (559, 30675), (609, 30522), (611, 30501), (646, 30378), (656, 30348), (666, 30309), (683, 30243), (685, 30240), (691, 30225), (698, 30201), (704, 30177), (775, 29970), (812, 29835), (816, 29823), (820, 29814),

Gene: Basato_61 Start: 54317, Stop: 52458, Start Num: 149

Candidate Starts for Basato_61:

(Start: 133 @54341 has 1 MA's), (Start: 149 @54317 has 248 MA's), (Start: 174 @54293 has 5 MA's), (Start: 186 @54287 has 3 MA's), (205, 54245), (212, 54224), (254, 54110), (256, 54104), (269, 54074), (296, 54014), (306, 53993), (323, 53939), (327, 53927), (332, 53909), (335, 53897), (372, 53792), (389, 53735), (400, 53699), (402, 53687), (411, 53660), (414, 53651), (432, 53615), (465, 53558), (469, 53549), (471, 53546), (473, 53543), (607, 53186), (612, 53153), (617, 53132), (647, 53039), (651, 53030), (668, 52967), (683, 52931), (685, 52928), (691, 52913), (717, 52835), (722, 52823), (730, 52802), (748, 52763), (775, 52673), (779, 52655), (781, 52649), (785, 52634), (793, 52610), (795, 52595), (796, 52592), (799, 52580), (809, 52556), (830, 52508), (840, 52484),

Gene: BatteryCK_61 Start: 54193, Stop: 52334, Start Num: 149

Candidate Starts for BatteryCK_61:

(Start: 133 @54217 has 1 MA's), (Start: 149 @54193 has 248 MA's), (Start: 174 @54169 has 5 MA's), (Start: 186 @54163 has 3 MA's), (205, 54121), (212, 54100), (254, 53986), (256, 53980), (269, 53950), (296, 53890), (306, 53869), (323, 53815), (327, 53803), (332, 53785), (335, 53773), (372, 53668), (389, 53611), (400, 53575), (402, 53563), (410, 53539), (414, 53527), (421, 53509), (432, 53491), (442, 53473), (465, 53434), (469, 53425), (471, 53422), (473, 53419), (607, 53062), (612, 53029), (617, 53008), (647, 52915), (651, 52906), (668, 52843), (683, 52807), (685, 52804), (691, 52789), (717, 52711), (722, 52699), (730, 52678), (748, 52639), (775, 52549), (779, 52531), (781, 52525), (785, 52510), (793, 52486), (795, 52471), (796, 52468), (799, 52456), (809, 52432), (830, 52384), (840, 52360),

Gene: Battleship_48 Start: 29936, Stop: 28146, Start Num: 191

Candidate Starts for Battleship_48:

(Start: 191 @29936 has 828 MA's), (262, 29762), (307, 29657), (308, 29654), (314, 29627), (326, 29600), (340, 29549), (372, 29447), (420, 29354), (444, 29309), (446, 29306), (451, 29297), (515, 29135), (523, 29108), (532, 29087), (534, 29081), (583, 28982), (592, 28943), (607, 28892), (611, 28862), (625, 28811), (636, 28778), (644, 28745), (646, 28739), (656, 28709), (676, 28649), (683, 28628), (698, 28586), (705, 28559), (712, 28544), (750, 28457), (770, 28394), (771, 28391), (812, 28235), (816, 28223), (821, 28211),

Gene: BayC_48 Start: 39366, Stop: 37366, Start Num: 93

Candidate Starts for BayC_48:

(Start: 93 @39366 has 10 MA's), (Start: 132 @39297 has 1 MA's), (209, 39165), (211, 39159), (214, 39153), (238, 39105), (240, 39093), (242, 39087), (252, 39066), (257, 39051), (282, 38982), (333, 38841), (365, 38745), (391, 38658), (399, 38634), (403, 38622), (407, 38610), (437, 38541), (504, 38394), (548, 38289), (553, 38274), (580, 38217), (586, 38196), (599, 38154), (607, 38124), (612, 38091), (627, 38037), (640, 38007), (658, 37938), (663, 37917), (684, 37854), (692, 37836), (695, 37824), (701, 37800), (775, 37599), (776, 37596), (781, 37575), (792, 37542), (795, 37524), (805, 37491), (813, 37467), (835, 37419),

Gene: Beaglebox_60 Start: 54107, Stop: 52248, Start Num: 149

Candidate Starts for Beaglebox_60:

(Start: 133 @54131 has 1 MA's), (Start: 149 @54107 has 248 MA's), (Start: 174 @54083 has 5 MA's), (Start: 186 @54077 has 3 MA's), (205, 54035), (212, 54014), (254, 53900), (256, 53894), (269, 53864), (296, 53804), (306, 53783), (323, 53729), (327, 53717), (332, 53699), (335, 53687), (372, 53582), (389, 53525), (400, 53489), (402, 53477), (410, 53453), (414, 53441), (421, 53423), (432, 53405), (442, 53387), (465, 53348), (469, 53339), (471, 53336), (576, 53078), (607, 52976), (612, 52943), (617, 52922), (647, 52829), (651, 52820), (668, 52757), (683, 52721), (685, 52718), (691, 52703), (717, 52625), (722, 52613), (730, 52592), (748, 52553), (775, 52463), (779, 52445), (781, 52439), (785, 52424), (793, 52400), (795, 52385), (796, 52382), (799, 52370), (809, 52346), (830, 52298), (840, 52274),

Gene: Beatrix_44 Start: 35941, Stop: 34154, Start Num: 191

Candidate Starts for Beatrix_44:

(Start: 191 @35941 has 828 MA's), (274, 35728), (307, 35665), (314, 35635), (322, 35614), (326, 35608), (328, 35599), (365, 35482), (372, 35455), (420, 35362), (428, 35347), (470, 35263), (472, 35260), (494, 35194), (508, 35164), (518, 35134), (534, 35089), (556, 35050), (611, 34870), (623, 34822), (637, 34783), (656, 34717), (679, 34645), (683, 34636), (712, 34552), (750, 34465), (785, 34339), (789, 34327), (804, 34267), (812, 34243), (814, 34237),

Gene: Beauxregard13_48 Start: 31856, Stop: 30042, Start Num: 191

Candidate Starts for Beauxregard13_48:

(Start: 191 @31856 has 828 MA's), (206, 31817), (209, 31805), (271, 31652), (276, 31637), (307, 31580), (326, 31523), (328, 31514), (340, 31472), (355, 31421), (372, 31370), (420, 31277), (446, 31229), (451, 31220), (458, 31205), (476, 31166), (484, 31139), (494, 31109), (528, 31016), (558, 30956), (565, 30941), (611, 30785), (637, 30698), (656, 30632), (666, 30593), (685, 30521), (698, 30482), (704, 30458), (712, 30440), (726, 30407), (737, 30380), (760, 30326), (775, 30266), (795, 30188), (812, 30131), (816, 30119), (820, 30110),

Gene: Beemo_45 Start: 31539, Stop: 29746, Start Num: 191

Candidate Starts for Beemo_45:

(Start: 191 @31539 has 828 MA's), (196, 31530), (209, 31488), (261, 31368), (262, 31365), (279, 31317), (308, 31257), (315, 31227), (319, 31215), (326, 31203), (372, 31050), (420, 30957), (484, 30819), (494, 30789), (559, 30630), (565, 30618), (579, 30591), (609, 30483), (611, 30462), (651, 30327), (656, 30309), (683, 30228), (698, 30186), (726, 30111), (758, 30036), (770, 29994), (795, 29892), (812, 29835), (816, 29823), (820, 29814),

Gene: BeesKnees_45 Start: 34407, Stop: 32581, Start Num: 191

Candidate Starts for BeesKnees_45:

(Start: 191 @34407 has 828 MA's), (274, 34194), (307, 34131), (314, 34101), (322, 34080), (326, 34074), (328, 34065), (365, 33948), (372, 33921), (420, 33828), (428, 33813), (470, 33729), (472, 33726), (494, 33660), (508, 33630), (518, 33600), (534, 33555), (556, 33516), (611, 33336), (623, 33288), (637, 33249), (656, 33183), (666, 33144), (676, 33123), (683, 33102), (691, 33084), (712, 33018), (770, 32868), (771, 32865), (778, 32829), (788, 32796), (792, 32784), (798, 32757), (812, 32709), (820, 32688),

Gene: Belenaria_36 Start: 28114, Stop: 26330, Start Num: 191

Candidate Starts for Belenaria_36:

(Start: 191 @28114 has 828 MA's), (288, 27880), (302, 27850), (306, 27841), (307, 27838), (319, 27793), (326, 27781), (340, 27730), (372, 27628), (380, 27607), (420, 27535), (444, 27490), (446, 27487), (466, 27445), (468, 27439), (476, 27424), (484, 27397), (523, 27292), (526, 27283), (534, 27265), (556, 27226), (582, 27169), (611, 27046), (623, 26998), (656, 26893), (657, 26890), (676,

26833), (683, 26812), (700, 26764), (727, 26689), (758, 26620), (770, 26578), (775, 26554), (795, 26476), (812, 26419), (816, 26407), (820, 26398), (834, 26368), (839, 26350),

Gene: BellusTerra_46 Start: 31571, Stop: 29745, Start Num: 191

Candidate Starts for BellusTerra_46:

(Start: 191 @31571 has 828 MA's), (201, 31550), (209, 31520), (221, 31490), (291, 31328), (300, 31310), (326, 31238), (328, 31229), (366, 31109), (372, 31085), (420, 30992), (448, 30944), (458, 30923), (476, 30884), (523, 30752), (532, 30731), (556, 30686), (559, 30674), (609, 30521), (611, 30500), (646, 30377), (656, 30347), (666, 30308), (683, 30242), (685, 30239), (691, 30224), (698, 30200), (704, 30176), (775, 29969), (812, 29834), (816, 29822), (820, 29813),

Gene: BelmontSKP_43 Start: 29896, Stop: 31770, Start Num: 182

Candidate Starts for BelmontSKP_43:

(Start: 179 @29893 has 7 MA's), (Start: 182 @29896 has 49 MA's), (216, 29965), (224, 29986), (328, 30232), (340, 30274), (438, 30487), (476, 30568), (564, 30802), (598, 30925), (611, 30985), (614, 30991), (625, 31036), (632, 31051), (635, 31066), (644, 31102), (656, 31138), (680, 31231), (713, 31324), (747, 31402), (770, 31474), (778, 31513), (791, 31555), (794, 31573), (804, 31609), (812, 31633), (820, 31654),

Gene: Ben11_58 Start: 53891, Stop: 52074, Start Num: 183

Candidate Starts for Ben11_58:

(80, 54074), (Start: 183 @53891 has 42 MA's), (201, 53861), (274, 53681), (331, 53528), (334, 53516), (343, 53486), (349, 53480), (372, 53417), (375, 53411), (389, 53360), (398, 53333), (400, 53324), (414, 53276), (471, 53171), (510, 53075), (533, 53024), (589, 52880), (601, 52841), (608, 52811), (612, 52784), (616, 52772), (645, 52676), (647, 52670), (651, 52661), (655, 52649), (674, 52577), (683, 52547), (691, 52529), (694, 52520), (717, 52451), (722, 52439), (730, 52418), (760, 52349), (765, 52334), (771, 52310), (775, 52289), (779, 52271), (781, 52265), (791, 52232), (793, 52226), (796, 52208), (799, 52196), (805, 52184), (809, 52172), (826, 52130), (840, 52100),

Gene: Benedict_39 Start: 30154, Stop: 28289, Start Num: 191

Candidate Starts for Benedict_39:

(Start: 164 @30187 has 2 MA's), (Start: 191 @30154 has 828 MA's), (235, 30043), (271, 29950), (272, 29947), (307, 29878), (308, 29875), (314, 29848), (326, 29821), (328, 29812), (351, 29728), (355, 29719), (361, 29704), (372, 29668), (407, 29608), (420, 29572), (444, 29527), (446, 29524), (457, 29503), (458, 29500), (483, 29440), (513, 29362), (528, 29314), (534, 29302), (558, 29254), (576, 29203), (611, 29068), (623, 29020), (632, 29002), (637, 28981), (639, 28972), (647, 28942), (656, 28915), (657, 28912), (683, 28834), (704, 28768), (726, 28717), (750, 28663), (754, 28654), (760, 28636), (779, 28558), (804, 28465), (812, 28441), (816, 28429), (859, 28324),

Gene: BengiVuitton_44 Start: 31228, Stop: 29441, Start Num: 191

Candidate Starts for BengiVuitton_44:

(Start: 191 @31228 has 828 MA's), (271, 31024), (272, 31021), (274, 31015), (283, 31000), (291, 30985), (307, 30952), (308, 30949), (314, 30922), (326, 30895), (331, 30874), (340, 30844), (372, 30742), (420, 30649), (425, 30640), (446, 30601), (451, 30592), (458, 30577), (484, 30511), (515, 30430), (532, 30382), (534, 30376), (592, 30238), (611, 30157), (625, 30106), (636, 30073), (637, 30070), (656, 30004), (666, 29965), (676, 29944), (701, 29869), (706, 29851), (726, 29806), (737, 29779), (754, 29743), (760, 29725), (770, 29689), (775, 29665), (791, 29608), (795, 29587), (812, 29530), (816, 29518),

Gene: Benvolio_41 Start: 30754, Stop: 28967, Start Num: 191

Candidate Starts for Benvolio_41:

(Start: 191 @30754 has 828 MA's), (272, 30547), (274, 30541), (291, 30511), (307, 30478), (308, 30475), (314, 30448), (326, 30421), (331, 30400), (372, 30268), (420, 30175), (446, 30127), (451,

30118), (458, 30103), (484, 30037), (515, 29956), (532, 29908), (534, 29902), (565, 29839), (592, 29764), (611, 29683), (625, 29632), (636, 29599), (637, 29596), (656, 29530), (666, 29491), (676, 29470), (701, 29395), (706, 29377), (712, 29365), (726, 29332), (737, 29305), (754, 29269), (770, 29215), (775, 29191), (791, 29134), (795, 29113), (812, 29056), (816, 29044), (820, 29035),

Gene: Bernardo_59 Start: 54028, Stop: 52211, Start Num: 183

Candidate Starts for Bernardo_59:

(80, 54211), (Start: 183 @54028 has 42 MA's), (201, 53998), (274, 53818), (331, 53665), (334, 53653), (343, 53623), (349, 53617), (372, 53554), (375, 53548), (389, 53497), (400, 53461), (414, 53413), (471, 53308), (510, 53212), (533, 53161), (589, 53017), (601, 52978), (608, 52948), (612, 52921), (616, 52909), (645, 52813), (647, 52807), (651, 52798), (655, 52786), (674, 52714), (683, 52684), (691, 52666), (694, 52657), (717, 52588), (722, 52576), (730, 52555), (760, 52486), (765, 52471), (771, 52447), (775, 52426), (781, 52402), (793, 52363), (796, 52345), (799, 52333), (805, 52321), (809, 52309), (826, 52267), (840, 52237),

Gene: Bernstein_40 Start: 27521, Stop: 29389, Start Num: 179

Candidate Starts for Bernstein_40:

(Start: 179 @27521 has 7 MA's), (Start: 182 @27524 has 49 MA's), (Start: 185 @27527 has 2 MA's), (216, 27596), (332, 27878), (340, 27905), (361, 27959), (441, 28124), (476, 28199), (483, 28220), (598, 28574), (611, 28634), (625, 28685), (644, 28751), (656, 28787), (680, 28880), (747, 29051), (770, 29123), (791, 29204), (811, 29279), (812, 29282), (820, 29303), (851, 29372),

Gene: Berrie_42 Start: 30512, Stop: 32377, Start Num: 191

Candidate Starts for Berrie_42:

(Start: 191 @30512 has 828 MA's), (208, 30560), (271, 30716), (293, 30749), (322, 30830), (343, 30899), (423, 31106), (431, 31118), (472, 31205), (476, 31214), (481, 31229), (515, 31319), (532, 31367), (583, 31505), (611, 31625), (637, 31712), (656, 31778), (680, 31871), (704, 31943), (752, 32051), (770, 32114), (775, 32138), (812, 32273), (815, 32282), (850, 32360),

Gene: Bethlehem_44 Start: 35080, Stop: 33254, Start Num: 191

Candidate Starts for Bethlehem_44:

(Start: 191 @35080 has 828 MA's), (274, 34867), (307, 34804), (314, 34774), (322, 34753), (326, 34747), (328, 34738), (365, 34621), (372, 34594), (420, 34501), (428, 34486), (470, 34402), (472, 34399), (494, 34333), (508, 34303), (518, 34273), (534, 34228), (556, 34189), (611, 34009), (623, 33961), (637, 33922), (656, 33856), (666, 33817), (676, 33796), (683, 33775), (691, 33757), (712, 33691), (770, 33541), (771, 33538), (778, 33502), (788, 33469), (792, 33457), (798, 33430), (812, 33382), (820, 33361),

Gene: Bexan_43 Start: 35619, Stop: 33832, Start Num: 191

Candidate Starts for Bexan_43:

(Start: 191 @35619 has 828 MA's), (274, 35406), (307, 35343), (314, 35313), (322, 35292), (326, 35286), (328, 35277), (365, 35160), (372, 35133), (420, 35040), (428, 35025), (446, 34992), (470, 34941), (472, 34938), (494, 34872), (508, 34842), (518, 34812), (534, 34767), (556, 34728), (611, 34548), (623, 34500), (637, 34461), (656, 34395), (679, 34323), (683, 34314), (712, 34230), (750, 34143), (785, 34017), (789, 34005), (804, 33945), (812, 33921), (814, 33915),

Gene: BiancaTri92_44 Start: 32044, Stop: 30257, Start Num: 191

Candidate Starts for BiancaTri92_44:

(Start: 191 @32044 has 828 MA's), (272, 31837), (274, 31831), (283, 31816), (291, 31801), (314, 31738), (326, 31711), (331, 31690), (372, 31558), (420, 31465), (451, 31408), (458, 31393), (484, 31327), (515, 31246), (532, 31198), (534, 31192), (592, 31054), (611, 30973), (625, 30922), (636, 30889), (637, 30886), (639, 30877), (646, 30850), (656, 30820), (666, 30781), (676, 30760), (683, 30739), (760, 30541), (770, 30505), (775, 30481), (791, 30424), (795, 30403), (812, 30346), (816,

30334), (820, 30325),

Gene: Big3_43 Start: 34644, Stop: 32818, Start Num: 191

Candidate Starts for Big3_43:

(Start: 191 @34644 has 828 MA's), (274, 34431), (283, 34416), (307, 34368), (314, 34338), (322, 34317), (326, 34311), (328, 34302), (365, 34185), (372, 34158), (420, 34065), (428, 34050), (446, 34017), (470, 33966), (472, 33963), (494, 33897), (508, 33867), (518, 33837), (534, 33792), (556, 33753), (611, 33573), (623, 33525), (637, 33486), (656, 33420), (666, 33381), (676, 33360), (683, 33339), (691, 33321), (712, 33255), (770, 33105), (771, 33102), (778, 33066), (785, 33042), (788, 33033), (792, 33021), (812, 32946), (820, 32925),

Gene: Big4_105 Start: 80746, Stop: 78878, Start Num: 180

Candidate Starts for Big4_105:

(169, 80767), (173, 80758), (176, 80755), (Start: 180 @80746 has 7 MA's), (261, 80548), (284, 80488), (293, 80473), (334, 80365), (336, 80359), (370, 80266), (377, 80248), (425, 80173), (464, 80089), (476, 80062), (483, 80041), (496, 80002), (510, 79969), (524, 79927), (537, 79894), (556, 79864), (566, 79837), (611, 79675), (642, 79561), (664, 79477), (668, 79462), (669, 79453), (696, 79366), (698, 79357), (708, 79324), (765, 79168), (789, 79072), (795, 79045), (812, 78988), (821, 78964),

Gene: BigMau_45 Start: 34189, Stop: 32360, Start Num: 191

Candidate Starts for BigMau_45:

(Start: 191 @34189 has 828 MA's), (274, 33976), (283, 33961), (307, 33913), (314, 33883), (322, 33862), (326, 33856), (328, 33847), (365, 33730), (372, 33703), (420, 33610), (428, 33595), (439, 33574), (470, 33511), (472, 33508), (490, 33454), (494, 33442), (508, 33412), (518, 33382), (534, 33337), (556, 33298), (611, 33118), (623, 33070), (639, 33022), (651, 32983), (656, 32965), (666, 32926), (676, 32905), (683, 32884), (733, 32746), (789, 32575), (794, 32551), (803, 32518), (808, 32503), (812, 32491), (820, 32470), (823, 32464), (842, 32416), (849, 32401),

Gene: BigPaolini_45 Start: 33608, Stop: 31821, Start Num: 191

Candidate Starts for BigPaolini_45:

(Start: 191 @33608 has 828 MA's), (274, 33395), (283, 33380), (314, 33302), (322, 33281), (326, 33275), (328, 33266), (365, 33149), (372, 33122), (420, 33029), (428, 33014), (446, 32981), (470, 32930), (472, 32927), (490, 32873), (494, 32861), (508, 32831), (518, 32801), (534, 32756), (556, 32717), (611, 32537), (623, 32489), (637, 32450), (656, 32384), (679, 32312), (683, 32303), (712, 32219), (750, 32132), (785, 32006), (789, 31994), (812, 31910), (814, 31904),

Gene: Bigfoot_41 Start: 33829, Stop: 32003, Start Num: 191

Candidate Starts for Bigfoot_41:

(Start: 191 @33829 has 828 MA's), (274, 33616), (283, 33601), (307, 33553), (314, 33523), (322, 33502), (326, 33496), (328, 33487), (365, 33370), (372, 33343), (420, 33250), (428, 33235), (446, 33202), (470, 33151), (472, 33148), (494, 33082), (518, 33022), (534, 32977), (556, 32938), (611, 32758), (623, 32710), (637, 32671), (656, 32605), (666, 32566), (676, 32545), (683, 32524), (691, 32506), (712, 32440), (770, 32290), (771, 32287), (778, 32251), (785, 32227), (788, 32218), (792, 32206), (798, 32179), (812, 32131), (820, 32110),

Gene: BiggityBass_49 Start: 47333, Stop: 45519, Start Num: 174

Candidate Starts for BiggityBass_49:

(114, 47423), (Start: 174 @47333 has 5 MA's), (Start: 186 @47324 has 3 MA's), (205, 47282), (272, 47114), (291, 47072), (316, 47003), (331, 46964), (335, 46949), (366, 46874), (372, 46853), (400, 46760), (458, 46634), (460, 46631), (469, 46610), (471, 46607), (504, 46517), (559, 46379), (595, 46295), (601, 46277), (612, 46220), (645, 46112), (647, 46106), (651, 46097), (668, 46034), (685, 45995), (691, 45980), (717, 45902), (722, 45890), (725, 45884), (730, 45869), (733, 45860), (768,

45773), (775, 45740), (776, 45737), (790, 45686), (793, 45677), (809, 45617), (840, 45545),

Gene: BillKnuckles_45 Start: 35369, Stop: 33540, Start Num: 191

Candidate Starts for BillKnuckles_45:

(Start: 191 @35369 has 828 MA's), (274, 35156), (283, 35141), (307, 35093), (314, 35063), (322, 35042), (326, 35036), (328, 35027), (365, 34910), (372, 34883), (420, 34790), (428, 34775), (446, 34742), (470, 34691), (472, 34688), (494, 34622), (508, 34592), (518, 34562), (534, 34517), (556, 34478), (611, 34298), (623, 34250), (639, 34202), (651, 34163), (656, 34145), (666, 34106), (676, 34085), (683, 34064), (690, 34049), (733, 33926), (789, 33755), (794, 33731), (808, 33683), (812, 33671), (820, 33650), (823, 33644), (842, 33596), (849, 33581),

Gene: Bircsak_44 Start: 35182, Stop: 33353, Start Num: 191

Candidate Starts for Bircsak_44:

(Start: 191 @35182 has 828 MA's), (274, 34969), (283, 34954), (307, 34906), (314, 34876), (318, 34864), (322, 34855), (326, 34849), (328, 34840), (365, 34723), (372, 34696), (420, 34603), (428, 34588), (439, 34567), (446, 34555), (470, 34504), (472, 34501), (494, 34435), (508, 34405), (518, 34375), (534, 34330), (556, 34291), (611, 34111), (623, 34063), (639, 34015), (651, 33976), (656, 33958), (666, 33919), (676, 33898), (683, 33877), (690, 33862), (733, 33739), (789, 33568), (794, 33544), (808, 33496), (812, 33484), (820, 33463), (823, 33457), (842, 33409), (849, 33394),

Gene: BirdsNest_61 Start: 54182, Stop: 52338, Start Num: 170

Candidate Starts for BirdsNest_61:

(Start: 170 @54182 has 3 MA's), (205, 54125), (215, 54098), (256, 53996), (296, 53909), (314, 53855), (323, 53834), (331, 53810), (335, 53795), (372, 53690), (400, 53597), (402, 53585), (414, 53549), (471, 53444), (533, 53297), (560, 53213), (562, 53207), (589, 53147), (590, 53144), (601, 53108), (612, 53051), (645, 52943), (647, 52937), (651, 52928), (683, 52814), (691, 52796), (717, 52718), (722, 52706), (730, 52685), (760, 52616), (765, 52601), (775, 52556), (781, 52532), (793, 52493), (795, 52478), (799, 52463), (809, 52439), (826, 52394), (830, 52388), (840, 52364),

Gene: Bishoperium_60 Start: 54582, Stop: 52723, Start Num: 149

Candidate Starts for Bishoperium_60:

(Start: 133 @54606 has 1 MA's), (Start: 149 @54582 has 248 MA's), (Start: 174 @54558 has 5 MA's), (Start: 186 @54552 has 3 MA's), (205, 54510), (212, 54489), (254, 54375), (256, 54369), (269, 54339), (296, 54279), (306, 54258), (323, 54204), (327, 54192), (332, 54174), (335, 54162), (372, 54057), (389, 54000), (400, 53964), (402, 53952), (411, 53925), (421, 53898), (432, 53880), (442, 53862), (465, 53823), (469, 53814), (471, 53811), (473, 53808), (607, 53451), (612, 53418), (617, 53397), (647, 53304), (651, 53295), (668, 53232), (683, 53196), (685, 53193), (691, 53178), (717, 53100), (722, 53088), (730, 53067), (748, 53028), (775, 52938), (779, 52920), (781, 52914), (785, 52899), (793, 52875), (795, 52860), (796, 52857), (799, 52845), (809, 52821), (830, 52773), (840, 52749),

Gene: BlackStallion_62 Start: 54311, Stop: 52452, Start Num: 149

Candidate Starts for BlackStallion_62:

(Start: 133 @54335 has 1 MA's), (Start: 149 @54311 has 248 MA's), (Start: 174 @54287 has 5 MA's), (Start: 186 @54281 has 3 MA's), (205, 54239), (212, 54218), (254, 54104), (256, 54098), (269, 54068), (296, 54008), (306, 53987), (323, 53933), (327, 53921), (332, 53903), (335, 53891), (372, 53786), (389, 53729), (400, 53693), (402, 53681), (410, 53657), (414, 53645), (421, 53627), (432, 53609), (442, 53591), (465, 53552), (469, 53543), (471, 53540), (473, 53537), (607, 53180), (612, 53147), (617, 53126), (647, 53033), (651, 53024), (668, 52961), (683, 52925), (685, 52922), (691, 52907), (717, 52829), (722, 52817), (730, 52796), (748, 52757), (775, 52667), (779, 52649), (781, 52643), (785, 52628), (793, 52604), (795, 52589), (796, 52586), (799, 52574), (809, 52550), (830, 52502), (840, 52478),

Gene: Blackmoor_45 Start: 31572, Stop: 29746, Start Num: 191

Candidate Starts for Blackmoor_45:

(Start: 191 @31572 has 828 MA's), (201, 31551), (209, 31521), (221, 31491), (291, 31329), (300, 31311), (326, 31239), (328, 31230), (366, 31110), (372, 31086), (420, 30993), (448, 30945), (458, 30924), (476, 30885), (523, 30753), (532, 30732), (556, 30687), (559, 30675), (609, 30522), (611, 30501), (646, 30378), (656, 30348), (666, 30309), (683, 30243), (685, 30240), (691, 30225), (698, 30201), (704, 30177), (775, 29970), (812, 29835), (816, 29823), (820, 29814),

Gene: Blinn1_48 Start: 30144, Stop: 28303, Start Num: 191

Candidate Starts for Blinn1_48:

(Start: 191 @30144 has 828 MA's), (271, 29940), (307, 29865), (308, 29862), (319, 29820), (326, 29808), (340, 29757), (372, 29655), (420, 29562), (441, 29523), (451, 29505), (458, 29490), (484, 29424), (496, 29391), (498, 29388), (535, 29286), (565, 29226), (592, 29142), (611, 29061), (636, 28977), (637, 28974), (639, 28965), (646, 28938), (651, 28926), (656, 28908), (676, 28848), (691, 28809), (698, 28785), (770, 28593), (771, 28590), (775, 28569), (812, 28434), (816, 28422), (820, 28413), (821, 28410), (859, 28317),

Gene: Blocker23_57 Start: 52599, Stop: 50770, Start Num: 147

Candidate Starts for Blocker23_57:

(Start: 147 @52599 has 31 MA's), (Start: 186 @52572 has 3 MA's), (202, 52542), (205, 52530), (215, 52503), (216, 52500), (221, 52491), (235, 52473), (272, 52377), (296, 52326), (307, 52302), (312, 52278), (358, 52140), (368, 52116), (372, 52104), (389, 52047), (400, 52011), (402, 51999), (410, 51975), (456, 51891), (469, 51861), (471, 51858), (483, 51828), (542, 51684), (565, 51618), (586, 51579), (589, 51567), (595, 51546), (601, 51528), (612, 51471), (639, 51387), (647, 51357), (651, 51348), (668, 51282), (679, 51255), (683, 51246), (691, 51228), (698, 51204), (717, 51150), (722, 51138), (730, 51117), (760, 51048), (775, 50988), (779, 50970), (789, 50937), (793, 50925), (795, 50910), (796, 50907), (799, 50895), (809, 50871), (810, 50868), (830, 50820), (832, 50817), (840, 50796), (847, 50775),

Gene: Bloom_103 Start: 78450, Stop: 80246, Start Num: 194

Candidate Starts for Bloom_103:

(Start: 194 @78450 has 1 MA's), (235, 78546), (327, 78762), (334, 78789), (336, 78795), (365, 78864), (376, 78900), (464, 79047), (465, 79053), (476, 79074), (481, 79089), (556, 79278), (572, 79323), (584, 79356), (588, 79374), (597, 79407), (609, 79446), (611, 79467), (614, 79473), (644, 79587), (665, 79671), (667, 79677), (669, 79689), (680, 79737), (686, 79749), (698, 79785), (708, 79818), (712, 79827), (730, 79872), (738, 79890), (765, 79974), (770, 79995), (776, 80022), (779, 80037), (789, 80070), (794, 80094), (800, 80118), (812, 80154), (823, 80181),

Gene: BluSpix_43 Start: 30791, Stop: 28962, Start Num: 191

Candidate Starts for BluSpix_43:

(Start: 191 @30791 has 828 MA's), (274, 30578), (307, 30515), (314, 30485), (322, 30464), (326, 30458), (328, 30449), (365, 30332), (372, 30305), (420, 30212), (428, 30197), (446, 30164), (470, 30113), (472, 30110), (494, 30044), (518, 29984), (534, 29939), (556, 29900), (611, 29720), (623, 29672), (639, 29624), (651, 29585), (656, 29567), (666, 29528), (676, 29507), (683, 29486), (690, 29471), (733, 29348), (789, 29177), (794, 29153), (808, 29105), (812, 29093), (820, 29072), (823, 29066), (842, 29018), (849, 29003),

Gene: Blue_44 Start: 34966, Stop: 33140, Start Num: 191

Candidate Starts for Blue_44:

(Start: 191 @34966 has 828 MA's), (274, 34753), (283, 34738), (314, 34660), (322, 34639), (326, 34633), (328, 34624), (365, 34507), (372, 34480), (420, 34387), (428, 34372), (470, 34288), (472, 34285), (494, 34219), (508, 34189), (518, 34159), (534, 34114), (556, 34075), (611, 33895), (623, 33847), (625, 33844), (637, 33808), (656, 33742), (666, 33703), (676, 33682), (683, 33661), (691,

33643), (712, 33577), (770, 33427), (771, 33424), (778, 33388), (785, 33364), (792, 33343), (795, 33325), (798, 33316), (812, 33268), (820, 33247),

Gene: Blue7_48 Start: 29980, Stop: 28181, Start Num: 191

Candidate Starts for Blue7_48:

(Start: 191 @29980 has 828 MA's), (271, 29776), (274, 29767), (307, 29701), (308, 29698), (314, 29671), (319, 29656), (326, 29644), (340, 29593), (368, 29503), (372, 29491), (420, 29398), (446, 29350), (451, 29341), (521, 29158), (586, 29008), (611, 28903), (625, 28846), (637, 28810), (639, 28801), (646, 28774), (656, 28744), (666, 28705), (676, 28684), (689, 28651), (691, 28645), (726, 28546), (754, 28483), (770, 28429), (775, 28405), (791, 28348), (812, 28270), (816, 28258), (820, 28249), (821, 28246),

Gene: BlueBird_47 Start: 31555, Stop: 29717, Start Num: 191

Candidate Starts for BlueBird_47:

(Start: 191 @31555 has 828 MA's), (209, 31504), (236, 31438), (271, 31351), (302, 31291), (307, 31279), (326, 31222), (328, 31213), (366, 31093), (372, 31069), (420, 30973), (448, 30925), (476, 30865), (498, 30802), (523, 30733), (532, 30712), (566, 30640), (582, 30598), (592, 30556), (611, 30475), (623, 30427), (646, 30352), (656, 30322), (664, 30292), (685, 30211), (698, 30172), (704, 30148), (712, 30130), (760, 30001), (775, 29941), (812, 29806), (816, 29794), (820, 29785),

Gene: BlueHusk_62 Start: 54066, Stop: 52207, Start Num: 149

Candidate Starts for BlueHusk_62:

(Start: 133 @54090 has 1 MA's), (Start: 149 @54066 has 248 MA's), (Start: 174 @54042 has 5 MA's), (Start: 186 @54036 has 3 MA's), (201, 54009), (205, 53994), (212, 53973), (254, 53859), (256, 53853), (269, 53823), (296, 53763), (306, 53742), (323, 53688), (327, 53676), (332, 53658), (335, 53646), (372, 53541), (389, 53484), (400, 53448), (402, 53436), (411, 53409), (414, 53400), (432, 53364), (465, 53307), (469, 53298), (471, 53295), (473, 53292), (607, 52935), (612, 52902), (617, 52881), (647, 52788), (651, 52779), (668, 52716), (683, 52680), (685, 52677), (691, 52662), (717, 52584), (722, 52572), (730, 52551), (748, 52512), (775, 52422), (779, 52404), (781, 52398), (785, 52383), (793, 52359), (795, 52344), (796, 52341), (799, 52329), (809, 52305), (830, 52257), (840, 52233),

Gene: BlueNGold_170 Start: 99709, Stop: 97928, Start Num: 188

Candidate Starts for BlueNGold_170:

(Start: 188 @99709 has 4 MA's), (207, 99664), (216, 99637), (261, 99544), (284, 99484), (288, 99481), (291, 99472), (306, 99448), (317, 99406), (318, 99403), (334, 99358), (351, 99316), (370, 99262), (420, 99178), (464, 99094), (476, 99067), (481, 99052), (539, 98893), (556, 98869), (560, 98854), (565, 98845), (595, 98758), (603, 98731), (604, 98728), (609, 98707), (611, 98686), (624, 98635), (651, 98551), (658, 98524), (664, 98491), (670, 98449), (708, 98338), (719, 98311), (734, 98275), (739, 98266), (740, 98263), (745, 98254), (776, 98134), (781, 98113), (782, 98107), (793, 98074), (796, 98056), (798, 98050), (807, 98017), (812, 98002), (823, 97978), (824, 97975), (838, 97951),

Gene: Bluefalcon_37 Start: 30628, Stop: 28769, Start Num: 191

Candidate Starts for Bluefalcon_37:

(Start: 191 @30628 has 828 MA's), (209, 30577), (235, 30517), (262, 30454), (271, 30424), (272, 30421), (302, 30364), (314, 30322), (326, 30295), (372, 30142), (420, 30046), (438, 30013), (446, 29998), (483, 29914), (484, 29908), (496, 29875), (528, 29788), (534, 29776), (556, 29737), (576, 29677), (611, 29542), (618, 29512), (623, 29494), (636, 29458), (637, 29455), (656, 29389), (666, 29350), (683, 29308), (691, 29290), (704, 29242), (706, 29236), (726, 29191), (750, 29137), (754, 29128), (760, 29110), (779, 29032), (794, 28975), (804, 28939), (812, 28915), (816, 28903), (864, 28786), (865, 28783),

Gene: Bluephacebaby_60 Start: 54585, Stop: 52726, Start Num: 149

Candidate Starts for Bluephacebaby_60:

(Start: 133 @54609 has 1 MA's), (Start: 149 @54585 has 248 MA's), (Start: 174 @54561 has 5 MA's), (Start: 186 @54555 has 3 MA's), (205, 54513), (212, 54492), (254, 54378), (256, 54372), (269, 54342), (296, 54282), (306, 54261), (323, 54207), (327, 54195), (332, 54177), (335, 54165), (372, 54060), (389, 54003), (400, 53967), (402, 53955), (411, 53928), (432, 53883), (465, 53826), (469, 53817), (471, 53814), (607, 53454), (612, 53421), (617, 53400), (647, 53307), (651, 53298), (668, 53235), (683, 53199), (685, 53196), (691, 53181), (717, 53103), (722, 53091), (730, 53070), (748, 53031), (775, 52941), (779, 52923), (781, 52917), (785, 52902), (793, 52878), (795, 52863), (796, 52860), (799, 52848), (809, 52824), (830, 52776), (840, 52752),

Gene: Bob3_42 Start: 33539, Stop: 31710, Start Num: 191

Candidate Starts for Bob3_42:

(Start: 191 @33539 has 828 MA's), (274, 33326), (283, 33311), (307, 33263), (314, 33233), (322, 33212), (326, 33206), (328, 33197), (365, 33080), (372, 33053), (420, 32960), (428, 32945), (439, 32924), (470, 32861), (472, 32858), (494, 32792), (508, 32762), (518, 32732), (534, 32687), (556, 32648), (611, 32468), (623, 32420), (639, 32372), (651, 32333), (656, 32315), (666, 32276), (676, 32255), (683, 32234), (733, 32096), (789, 31925), (794, 31901), (803, 31868), (808, 31853), (812, 31841), (820, 31820), (823, 31814), (842, 31766), (849, 31751),

Gene: BobSwaget_44 Start: 31390, Stop: 29603, Start Num: 191

Candidate Starts for BobSwaget_44:

(Start: 191 @31390 has 828 MA's), (272, 31183), (274, 31177), (291, 31147), (307, 31114), (308, 31111), (319, 31069), (326, 31057), (372, 30904), (420, 30811), (446, 30763), (451, 30754), (458, 30739), (484, 30673), (532, 30544), (592, 30400), (611, 30319), (625, 30268), (636, 30235), (637, 30232), (656, 30166), (666, 30127), (676, 30106), (701, 30031), (704, 30019), (737, 29941), (754, 29905), (760, 29887), (770, 29851), (775, 29827), (795, 29749), (812, 29692), (816, 29680), (820, 29671),

Gene: BobbyDazzler_36 Start: 28159, Stop: 26375, Start Num: 191

Candidate Starts for BobbyDazzler_36:

(Start: 191 @28159 has 828 MA's), (288, 27925), (302, 27895), (306, 27886), (307, 27883), (319, 27838), (326, 27826), (328, 27817), (340, 27775), (372, 27673), (380, 27652), (420, 27580), (444, 27535), (446, 27532), (466, 27490), (468, 27484), (476, 27469), (484, 27442), (523, 27337), (534, 27310), (556, 27271), (611, 27091), (623, 27043), (656, 26938), (657, 26935), (676, 26878), (683, 26857), (700, 26809), (727, 26734), (758, 26665), (770, 26623), (775, 26599), (795, 26521), (812, 26464), (816, 26452), (839, 26395),

Gene: BobbyK_53 Start: 53968, Stop: 52145, Start Num: 141

Candidate Starts for BobbyK_53:

(Start: 128 @53986 has 3 MA's), (Start: 141 @53968 has 23 MA's), (Start: 186 @53944 has 3 MA's), (201, 53917), (205, 53902), (212, 53881), (246, 53794), (293, 53689), (310, 53647), (332, 53581), (341, 53551), (343, 53542), (347, 53539), (349, 53536), (358, 53509), (389, 53416), (395, 53398), (400, 53380), (402, 53368), (411, 53341), (442, 53278), (465, 53239), (469, 53230), (471, 53227), (483, 53197), (494, 53161), (589, 52936), (590, 52933), (601, 52897), (607, 52873), (612, 52840), (645, 52732), (647, 52726), (651, 52717), (683, 52618), (685, 52615), (691, 52600), (717, 52522), (722, 52510), (730, 52489), (733, 52480), (748, 52450), (760, 52420), (768, 52393), (775, 52360), (781, 52336), (793, 52297), (796, 52279), (799, 52267), (809, 52243), (826, 52201), (830, 52195), (840, 52171),

Gene: Boehler_60 Start: 54229, Stop: 52370, Start Num: 149

Candidate Starts for Boehler_60:

(Start: 133 @54253 has 1 MA's), (Start: 149 @54229 has 248 MA's), (Start: 174 @54205 has 5 MA's), (Start: 186 @54199 has 3 MA's), (205, 54157), (212, 54136), (254, 54022), (256, 54016), (269, 53986), (296, 53926), (306, 53905), (323, 53851), (327, 53839), (332, 53821), (335, 53809), (372, 53704), (389, 53647), (400, 53611), (402, 53599), (410, 53575), (414, 53563), (421, 53545), (432, 53527), (442, 53509), (465, 53470), (469, 53461), (471, 53458), (473, 53455), (607, 53098), (612, 53065), (617, 53044), (647, 52951), (651, 52942), (668, 52879), (683, 52843), (685, 52840), (691, 52825), (717, 52747), (722, 52735), (730, 52714), (748, 52675), (775, 52585), (779, 52567), (781, 52561), (785, 52546), (793, 52522), (795, 52507), (796, 52504), (799, 52492), (809, 52468), (830, 52420), (840, 52396),

Gene: Boersma_57 Start: 36879, Stop: 34711, Start Num: 86

Candidate Starts for Boersma_57:

(85, 36882), (Start: 86 @36879 has 11 MA's), (106, 36825), (160, 36741), (235, 36588), (237, 36579), (253, 36534), (278, 36456), (287, 36447), (294, 36432), (301, 36417), (303, 36414), (323, 36357), (346, 36264), (362, 36222), (422, 36027), (430, 36015), (434, 36009), (449, 35985), (459, 35964), (468, 35943), (476, 35928), (479, 35922), (500, 35859), (517, 35808), (550, 35721), (571, 35661), (591, 35613), (615, 35511), (616, 35505), (620, 35478), (621, 35475), (629, 35454), (641, 35412), (643, 35406), (650, 35382), (659, 35340), (660, 35337), (665, 35310), (674, 35277), (677, 35265), (692, 35229), (698, 35205), (700, 35199), (701, 35193), (723, 35139), (744, 35091), (746, 35088), (764, 35028), (770, 35004), (777, 34974), (790, 34920), (809, 34851), (813, 34839), (828, 34800),

Gene: BogosyJay_44 Start: 31342, Stop: 29549, Start Num: 191

Candidate Starts for BogosyJay_44:

(Start: 191 @31342 has 828 MA's), (196, 31333), (235, 31231), (261, 31171), (262, 31168), (271, 31138), (274, 31129), (291, 31096), (307, 31063), (308, 31060), (314, 31033), (319, 31018), (326, 31006), (372, 30853), (420, 30760), (484, 30622), (494, 30592), (565, 30421), (579, 30394), (582, 30388), (611, 30265), (651, 30130), (656, 30112), (683, 30031), (726, 29914), (770, 29797), (775, 29773), (795, 29695), (812, 29638), (816, 29626), (820, 29617),

Gene: Bombshell_45 Start: 31567, Stop: 29741, Start Num: 191

Candidate Starts for Bombshell_45:

(Start: 191 @31567 has 828 MA's), (201, 31546), (209, 31516), (221, 31486), (291, 31324), (300, 31306), (326, 31234), (328, 31225), (366, 31105), (372, 31081), (420, 30988), (448, 30940), (458, 30919), (476, 30880), (523, 30748), (532, 30727), (556, 30682), (559, 30670), (609, 30517), (611, 30496), (646, 30373), (656, 30343), (666, 30304), (683, 30238), (685, 30235), (691, 30220), (698, 30196), (704, 30172), (775, 29965), (812, 29830), (816, 29818), (820, 29809),

Gene: Bonamassa_39 Start: 30653, Stop: 28809, Start Num: 191

Candidate Starts for Bonamassa_39:

(Start: 191 @30653 has 828 MA's), (209, 30602), (235, 30542), (262, 30479), (271, 30449), (272, 30446), (302, 30389), (307, 30377), (314, 30347), (326, 30320), (372, 30167), (420, 30071), (446, 30023), (483, 29939), (484, 29933), (513, 29861), (523, 29828), (528, 29813), (534, 29801), (576, 29702), (611, 29567), (618, 29537), (623, 29519), (625, 29516), (637, 29480), (639, 29471), (644, 29450), (647, 29441), (656, 29414), (657, 29411), (676, 29354), (683, 29333), (726, 29216), (750, 29162), (754, 29153), (760, 29135), (775, 29075), (779, 29057), (794, 29000), (804, 28964), (812, 28940), (816, 28928),

Gene: Bonanza_36 Start: 28087, Stop: 26303, Start Num: 191

Candidate Starts for Bonanza_36:

(Start: 191 @28087 has 828 MA's), (288, 27853), (302, 27823), (306, 27814), (307, 27811), (319, 27766), (326, 27754), (328, 27745), (340, 27703), (372, 27601), (380, 27580), (420, 27508), (444, 27463), (446, 27460), (466, 27418), (468, 27412), (476, 27397), (484, 27370), (523, 27265), (534, 27238), (556, 27199), (611, 27019), (623, 26971), (656, 26866), (657, 26863), (676, 26806), (683,

26785), (700, 26737), (727, 26662), (758, 26593), (770, 26551), (775, 26527), (795, 26449), (812, 26392), (816, 26380), (839, 26323),

Gene: Bones_45 Start: 35104, Stop: 33317, Start Num: 191

Candidate Starts for Bones_45:

(Start: 191 @35104 has 828 MA's), (274, 34891), (283, 34876), (314, 34798), (322, 34777), (326, 34771), (328, 34762), (365, 34645), (372, 34618), (420, 34525), (428, 34510), (470, 34426), (472, 34423), (494, 34357), (508, 34327), (518, 34297), (534, 34252), (556, 34213), (611, 34033), (623, 33985), (637, 33946), (656, 33880), (679, 33808), (683, 33799), (712, 33715), (750, 33628), (785, 33502), (789, 33490), (812, 33406), (814, 33400),

Gene: Boohoo_47 Start: 29967, Stop: 28177, Start Num: 191

Candidate Starts for Boohoo_47:

(Start: 191 @29967 has 828 MA's), (262, 29793), (307, 29688), (308, 29685), (314, 29658), (326, 29631), (340, 29580), (372, 29478), (420, 29385), (444, 29340), (446, 29337), (451, 29328), (515, 29166), (523, 29139), (532, 29118), (534, 29112), (583, 29013), (592, 28974), (607, 28923), (611, 28893), (625, 28842), (636, 28809), (644, 28776), (646, 28770), (656, 28740), (676, 28680), (683, 28659), (698, 28617), (705, 28590), (712, 28575), (750, 28488), (770, 28425), (771, 28422), (812, 28266), (816, 28254), (821, 28242),

Gene: Boopy_173 Start: 99720, Stop: 97939, Start Num: 188

Candidate Starts for Boopy_173:

(Start: 188 @99720 has 4 MA's), (207, 99675), (216, 99648), (261, 99555), (284, 99495), (288, 99492), (291, 99483), (306, 99459), (317, 99417), (318, 99414), (334, 99369), (351, 99327), (370, 99273), (420, 99189), (464, 99105), (476, 99078), (481, 99063), (539, 98904), (556, 98880), (560, 98865), (565, 98856), (595, 98769), (603, 98742), (604, 98739), (609, 98718), (611, 98697), (624, 98646), (651, 98562), (658, 98535), (664, 98502), (670, 98460), (708, 98349), (719, 98322), (734, 98286), (739, 98277), (740, 98274), (745, 98265), (776, 98145), (781, 98124), (782, 98118), (793, 98085), (796, 98067), (798, 98061), (807, 98028), (812, 98013), (823, 97989), (824, 97986), (838, 97962),

Gene: Bowtie_45 Start: 30783, Stop: 28996, Start Num: 191

Candidate Starts for Bowtie_45:

(Start: 191 @30783 has 828 MA's), (271, 30579), (307, 30507), (314, 30477), (326, 30450), (423, 30198), (451, 30147), (484, 30066), (501, 30021), (532, 29937), (559, 29880), (581, 29838), (592, 29793), (611, 29712), (625, 29661), (637, 29625), (656, 29559), (676, 29499), (679, 29487), (716, 29385), (726, 29361), (732, 29343), (760, 29280), (768, 29253), (770, 29244), (775, 29220), (812, 29085), (816, 29073), (820, 29064),

Gene: Boyle_57 Start: 52628, Stop: 50799, Start Num: 147

Candidate Starts for Boyle_57:

(Start: 147 @52628 has 31 MA's), (Start: 186 @52601 has 3 MA's), (202, 52571), (205, 52559), (215, 52532), (216, 52529), (221, 52520), (235, 52502), (272, 52406), (296, 52355), (307, 52331), (312, 52307), (358, 52169), (368, 52145), (372, 52133), (389, 52076), (400, 52040), (402, 52028), (410, 52004), (456, 51920), (469, 51890), (471, 51887), (483, 51857), (542, 51713), (565, 51647), (586, 51608), (589, 51596), (595, 51575), (601, 51557), (612, 51500), (639, 51416), (647, 51386), (651, 51377), (668, 51311), (679, 51284), (683, 51275), (691, 51257), (698, 51233), (717, 51179), (722, 51167), (730, 51146), (760, 51077), (775, 51017), (779, 50999), (789, 50966), (793, 50954), (795, 50939), (796, 50936), (799, 50924), (809, 50900), (810, 50897), (830, 50849), (832, 50846), (840, 50825), (847, 50804),

Gene: Bradshaw_36 Start: 28113, Stop: 26329, Start Num: 191

Candidate Starts for Bradshaw_36:

(Start: 191 @28113 has 828 MA's), (288, 27879), (302, 27849), (306, 27840), (307, 27837), (319, 27792), (326, 27780), (340, 27729), (372, 27627), (380, 27606), (420, 27534), (444, 27489), (446, 27486), (466, 27444), (468, 27438), (476, 27423), (484, 27396), (523, 27291), (526, 27282), (534, 27264), (535, 27261), (556, 27225), (611, 27045), (623, 26997), (656, 26892), (657, 26889), (676, 26832), (683, 26811), (700, 26763), (727, 26688), (758, 26619), (770, 26577), (775, 26553), (795, 26475), (812, 26418), (816, 26406), (834, 26367), (839, 26349),

Gene: Brahms_40 Start: 27441, Stop: 29309, Start Num: 179

Candidate Starts for Brahms_40:

(Start: 179 @27441 has 7 MA's), (Start: 182 @27444 has 49 MA's), (Start: 185 @27447 has 2 MA's), (216, 27516), (340, 27825), (361, 27879), (441, 28044), (476, 28119), (483, 28140), (598, 28494), (611, 28554), (625, 28605), (644, 28671), (656, 28707), (680, 28800), (747, 28971), (770, 29043), (791, 29124), (811, 29199), (812, 29202), (820, 29223), (851, 29292),

Gene: BreSam8_48 Start: 31846, Stop: 30032, Start Num: 191

Candidate Starts for BreSam8_48:

(Start: 191 @31846 has 828 MA's), (206, 31807), (209, 31795), (271, 31642), (276, 31627), (307, 31570), (326, 31513), (328, 31504), (340, 31462), (355, 31411), (372, 31360), (420, 31267), (446, 31219), (451, 31210), (458, 31195), (476, 31156), (484, 31129), (494, 31099), (528, 31006), (558, 30946), (565, 30931), (611, 30775), (637, 30688), (656, 30622), (666, 30583), (685, 30511), (698, 30472), (704, 30448), (712, 30430), (726, 30397), (737, 30370), (760, 30316), (775, 30256), (795, 30178), (812, 30121), (816, 30109), (820, 30100),

Gene: Briakila_57 Start: 53649, Stop: 51832, Start Num: 183

Candidate Starts for Briakila_57:

(80, 53832), (Start: 183 @53649 has 42 MA's), (201, 53619), (274, 53439), (331, 53286), (334, 53274), (343, 53244), (349, 53238), (372, 53175), (375, 53169), (389, 53118), (398, 53091), (400, 53082), (414, 53034), (471, 52929), (510, 52833), (533, 52782), (589, 52638), (601, 52599), (608, 52569), (612, 52542), (616, 52530), (645, 52434), (647, 52428), (651, 52419), (655, 52407), (674, 52335), (683, 52305), (691, 52287), (694, 52278), (717, 52209), (722, 52197), (730, 52176), (760, 52107), (765, 52092), (771, 52068), (775, 52047), (779, 52029), (781, 52023), (791, 51990), (793, 51984), (796, 51966), (799, 51954), (805, 51942), (809, 51930), (826, 51888), (840, 51858),

Gene: Brilliant_63 Start: 54544, Stop: 52685, Start Num: 149

Candidate Starts for Brilliant_63:

(Start: 133 @54568 has 1 MA's), (Start: 149 @54544 has 248 MA's), (Start: 174 @54520 has 5 MA's), (Start: 186 @54514 has 3 MA's), (205, 54472), (212, 54451), (254, 54337), (256, 54331), (269, 54301), (296, 54241), (306, 54220), (323, 54166), (327, 54154), (332, 54136), (335, 54124), (372, 54019), (389, 53962), (400, 53926), (402, 53914), (410, 53890), (414, 53878), (421, 53860), (432, 53842), (442, 53824), (465, 53785), (469, 53776), (471, 53773), (473, 53770), (607, 53413), (612, 53380), (617, 53359), (647, 53266), (651, 53257), (668, 53194), (683, 53158), (685, 53155), (691, 53140), (717, 53062), (722, 53050), (730, 53029), (748, 52990), (775, 52900), (779, 52882), (781, 52876), (785, 52861), (793, 52837), (795, 52822), (796, 52819), (799, 52807), (809, 52783), (830, 52735), (840, 52711),

Gene: Briton15_46 Start: 34660, Stop: 32834, Start Num: 191

Candidate Starts for Briton15_46:

(Start: 191 @34660 has 828 MA's), (274, 34447), (283, 34432), (307, 34384), (314, 34354), (322, 34333), (326, 34327), (328, 34318), (365, 34201), (372, 34174), (420, 34081), (428, 34066), (446, 34033), (470, 33982), (472, 33979), (494, 33913), (508, 33883), (518, 33853), (534, 33808), (556, 33769), (611, 33589), (618, 33559), (623, 33541), (637, 33502), (656, 33436), (666, 33397), (676, 33376), (683, 33355), (691, 33337), (712, 33271), (770, 33121), (771, 33118), (778, 33082), (785, 33058), (788, 33049), (792, 33037), (812, 32962), (820, 32941),

Gene: Broseidon_45 Start: 31572, Stop: 29746, Start Num: 191

Candidate Starts for Broseidon_45:

(Start: 191 @31572 has 828 MA's), (201, 31551), (209, 31521), (221, 31491), (291, 31329), (300, 31311), (326, 31239), (328, 31230), (366, 31110), (372, 31086), (420, 30993), (448, 30945), (458, 30924), (476, 30885), (523, 30753), (532, 30732), (556, 30687), (559, 30675), (609, 30522), (611, 30501), (646, 30378), (656, 30348), (666, 30309), (683, 30243), (685, 30240), (691, 30225), (698, 30201), (704, 30177), (775, 29970), (812, 29835), (816, 29823), (820, 29814),

Gene: BrownCNA_55 Start: 54328, Stop: 52487, Start Num: 128

Candidate Starts for BrownCNA_55:

(Start: 128 @54328 has 3 MA's), (Start: 141 @54310 has 23 MA's), (Start: 186 @54286 has 3 MA's), (201, 54259), (205, 54244), (212, 54223), (246, 54136), (293, 54031), (306, 54004), (310, 53989), (332, 53923), (341, 53893), (343, 53884), (347, 53881), (349, 53878), (358, 53851), (389, 53758), (395, 53740), (400, 53722), (402, 53710), (411, 53683), (442, 53620), (465, 53581), (469, 53572), (471, 53569), (483, 53539), (494, 53503), (589, 53278), (590, 53275), (601, 53239), (607, 53215), (612, 53182), (645, 53074), (647, 53068), (651, 53059), (683, 52960), (685, 52957), (691, 52942), (717, 52864), (722, 52852), (730, 52831), (733, 52822), (748, 52792), (768, 52735), (775, 52702), (781, 52678), (793, 52639), (796, 52621), (799, 52609), (809, 52585), (826, 52543), (830, 52537), (840, 52513),

Gene: Brownie5_57 Start: 52641, Stop: 50812, Start Num: 147

Candidate Starts for Brownie5_57:

(Start: 147 @52641 has 31 MA's), (Start: 186 @52614 has 3 MA's), (202, 52584), (205, 52572), (215, 52545), (216, 52542), (221, 52533), (235, 52515), (272, 52419), (296, 52368), (307, 52344), (358, 52182), (366, 52167), (368, 52158), (372, 52146), (389, 52089), (400, 52053), (402, 52041), (410, 52017), (456, 51933), (469, 51903), (471, 51900), (483, 51870), (542, 51726), (565, 51660), (586, 51621), (589, 51609), (595, 51588), (601, 51570), (612, 51513), (633, 51456), (639, 51429), (647, 51399), (651, 51390), (668, 51324), (679, 51297), (683, 51288), (691, 51270), (698, 51246), (717, 51192), (722, 51180), (730, 51159), (760, 51090), (775, 51030), (779, 51012), (789, 50979), (793, 50967), (795, 50952), (796, 50949), (799, 50937), (809, 50913), (810, 50910), (830, 50862), (832, 50859), (840, 50838), (847, 50817),

Gene: Bruiser_44 Start: 31570, Stop: 29744, Start Num: 191

Candidate Starts for Bruiser_44:

(Start: 191 @31570 has 828 MA's), (201, 31549), (209, 31519), (221, 31489), (291, 31327), (300, 31309), (326, 31237), (328, 31228), (366, 31108), (372, 31084), (420, 30991), (448, 30943), (458, 30922), (476, 30883), (523, 30751), (532, 30730), (556, 30685), (559, 30673), (609, 30520), (611, 30499), (646, 30376), (656, 30346), (666, 30307), (683, 30241), (685, 30238), (691, 30223), (698, 30199), (704, 30175), (775, 29968), (812, 29833), (816, 29821), (820, 29812),

Gene: Bruns_43 Start: 34261, Stop: 32435, Start Num: 191

Candidate Starts for Bruns_43:

(Start: 191 @34261 has 828 MA's), (274, 34048), (283, 34033), (314, 33955), (322, 33934), (326, 33928), (328, 33919), (365, 33802), (372, 33775), (420, 33682), (428, 33667), (439, 33646), (446, 33634), (470, 33583), (472, 33580), (494, 33514), (508, 33484), (518, 33454), (534, 33409), (556, 33370), (611, 33190), (623, 33142), (637, 33103), (656, 33037), (666, 32998), (676, 32977), (683, 32956), (691, 32938), (712, 32872), (770, 32722), (771, 32719), (778, 32683), (785, 32659), (788, 32650), (792, 32638), (812, 32563), (820, 32542),

Gene: Bryce_36 Start: 28088, Stop: 26304, Start Num: 191

Candidate Starts for Bryce_36:

(Start: 191 @28088 has 828 MA's), (288, 27854), (302, 27824), (306, 27815), (307, 27812), (319, 27767), (326, 27755), (340, 27704), (372, 27602), (380, 27581), (420, 27509), (446, 27461), (476, 27398), (484, 27371), (523, 27266), (534, 27239), (556, 27200), (611, 27020), (623, 26972), (656, 26867), (657, 26864), (676, 26807), (683, 26786), (727, 26663), (758, 26594), (770, 26552), (775, 26528), (795, 26450), (812, 26393), (816, 26381), (839, 26324),

Gene: BubbaBear_41 Start: 29478, Stop: 31352, Start Num: 182

Candidate Starts for BubbaBear_41:

(Start: 182 @29478 has 49 MA's), (216, 29547), (224, 29568), (328, 29814), (332, 29829), (340, 29856), (476, 30150), (564, 30384), (598, 30507), (611, 30567), (614, 30573), (625, 30618), (632, 30633), (635, 30648), (644, 30684), (656, 30720), (680, 30813), (713, 30906), (747, 30984), (770, 31056), (778, 31095), (791, 31137), (794, 31155), (812, 31215), (820, 31236),

Gene: BubbleTrouble_44 Start: 31570, Stop: 29744, Start Num: 191

Candidate Starts for BubbleTrouble_44:

(Start: 191 @31570 has 828 MA's), (201, 31549), (209, 31519), (221, 31489), (291, 31327), (300, 31309), (326, 31237), (328, 31228), (366, 31108), (372, 31084), (420, 30991), (448, 30943), (458, 30922), (476, 30883), (523, 30751), (532, 30730), (556, 30685), (559, 30673), (609, 30520), (611, 30499), (646, 30376), (656, 30346), (666, 30307), (683, 30241), (685, 30238), (691, 30223), (698, 30199), (704, 30175), (775, 29968), (812, 29833), (816, 29821), (820, 29812),

Gene: Buckeye_61 Start: 54843, Stop: 52984, Start Num: 149

Candidate Starts for Buckeye_61:

(Start: 133 @54867 has 1 MA's), (Start: 149 @54843 has 248 MA's), (Start: 174 @54819 has 5 MA's), (Start: 186 @54813 has 3 MA's), (205, 54771), (212, 54750), (254, 54636), (256, 54630), (269, 54600), (296, 54540), (306, 54519), (323, 54465), (327, 54453), (332, 54435), (335, 54423), (372, 54318), (389, 54261), (400, 54225), (402, 54213), (411, 54186), (421, 54159), (432, 54141), (442, 54123), (465, 54084), (469, 54075), (471, 54072), (576, 53814), (607, 53712), (612, 53679), (617, 53658), (647, 53565), (651, 53556), (668, 53493), (683, 53457), (685, 53454), (691, 53439), (717, 53361), (722, 53349), (730, 53328), (748, 53289), (775, 53199), (779, 53181), (781, 53175), (785, 53160), (793, 53136), (795, 53121), (796, 53118), (799, 53106), (809, 53082), (830, 53034), (840, 53010),

Gene: Bud_44 Start: 30338, Stop: 28551, Start Num: 191

Candidate Starts for Bud_44:

(Start: 191 @30338 has 828 MA's), (271, 30134), (307, 30062), (314, 30032), (326, 30005), (423, 29753), (451, 29702), (484, 29621), (501, 29576), (532, 29492), (559, 29435), (581, 29393), (592, 29348), (611, 29267), (625, 29216), (637, 29180), (656, 29114), (676, 29054), (716, 28940), (726, 28916), (732, 28898), (760, 28835), (768, 28808), (770, 28799), (775, 28775), (812, 28640), (816, 28628), (820, 28619),

Gene: Bugatti_46 Start: 31555, Stop: 29717, Start Num: 191

Candidate Starts for Bugatti_46:

(Start: 191 @31555 has 828 MA's), (209, 31504), (236, 31438), (271, 31351), (302, 31291), (307, 31279), (326, 31222), (328, 31213), (366, 31093), (372, 31069), (420, 30973), (448, 30925), (476, 30865), (498, 30802), (523, 30733), (532, 30712), (566, 30640), (582, 30598), (592, 30556), (611, 30475), (623, 30427), (646, 30352), (656, 30322), (664, 30292), (685, 30211), (698, 30172), (704, 30148), (712, 30130), (760, 30001), (775, 29941), (812, 29806), (816, 29794), (820, 29785),

Gene: Buggy_46 Start: 31852, Stop: 30065, Start Num: 191

Candidate Starts for Buggy_46:

(Start: 191 @31852 has 828 MA's), (271, 31648), (272, 31645), (274, 31639), (291, 31609), (307, 31576), (308, 31573), (314, 31546), (326, 31519), (340, 31468), (372, 31366), (420, 31273), (446,

31225), (451, 31216), (458, 31201), (484, 31135), (515, 31054), (532, 31006), (592, 30862), (611, 30781), (625, 30730), (636, 30697), (656, 30628), (666, 30589), (676, 30568), (683, 30547), (689, 30535), (758, 30355), (760, 30349), (770, 30313), (775, 30289), (795, 30211), (812, 30154), (816, 30142),

Gene: Buldak_40 Start: 28039, Stop: 29922, Start Num: 185

Candidate Starts for Buldak_40:

(94, 27883), (Start: 185 @28039 has 2 MA's), (199, 28057), (216, 28108), (224, 28129), (236, 28159), (271, 28246), (307, 28309), (314, 28339), (322, 28360), (328, 28375), (331, 28387), (454, 28669), (476, 28720), (483, 28741), (611, 29137), (614, 29143), (637, 29224), (644, 29254), (647, 29263), (656, 29290), (680, 29383), (712, 29473), (747, 29554), (750, 29560), (765, 29605), (775, 29650), (781, 29674), (791, 29707), (793, 29713), (794, 29725), (795, 29728), (812, 29785), (817, 29800), (820, 29806), (831, 29830),

Gene: Bumblebee11_43 Start: 31522, Stop: 29693, Start Num: 191

Candidate Starts for Bumblebee11_43:

(Start: 191 @31522 has 828 MA's), (209, 31471), (221, 31441), (291, 31279), (300, 31261), (307, 31246), (326, 31189), (328, 31180), (366, 31060), (372, 31036), (401, 30994), (420, 30943), (448, 30895), (458, 30874), (476, 30835), (490, 30790), (492, 30784), (523, 30703), (532, 30682), (556, 30637), (609, 30472), (611, 30451), (656, 30298), (666, 30259), (685, 30187), (691, 30172), (698, 30148), (702, 30130), (704, 30124), (706, 30118), (775, 29917), (812, 29782), (816, 29770), (820, 29761),

Gene: Burger_43 Start: 31570, Stop: 29744, Start Num: 191

Candidate Starts for Burger_43:

(Start: 191 @31570 has 828 MA's), (201, 31549), (209, 31519), (221, 31489), (291, 31327), (300, 31309), (326, 31237), (328, 31228), (366, 31108), (372, 31084), (420, 30991), (448, 30943), (458, 30922), (476, 30883), (523, 30751), (532, 30730), (556, 30685), (559, 30673), (609, 30520), (611, 30499), (646, 30376), (656, 30346), (666, 30307), (683, 30241), (685, 30238), (691, 30223), (698, 30199), (704, 30175), (775, 29968), (812, 29833), (816, 29821), (820, 29812),

Gene: Burr_60 Start: 54018, Stop: 52159, Start Num: 149

Candidate Starts for Burr_60:

(Start: 133 @54042 has 1 MA's), (Start: 149 @54018 has 248 MA's), (Start: 174 @53994 has 5 MA's), (Start: 186 @53988 has 3 MA's), (205, 53946), (212, 53925), (254, 53811), (256, 53805), (269, 53775), (296, 53715), (306, 53694), (323, 53640), (327, 53628), (332, 53610), (335, 53598), (372, 53493), (389, 53436), (400, 53400), (402, 53388), (411, 53361), (432, 53316), (442, 53298), (465, 53259), (469, 53250), (471, 53247), (607, 52887), (612, 52854), (617, 52833), (647, 52740), (651, 52731), (668, 52668), (683, 52632), (685, 52629), (691, 52614), (717, 52536), (722, 52524), (730, 52503), (748, 52464), (775, 52374), (779, 52356), (781, 52350), (785, 52335), (793, 52311), (795, 52296), (796, 52293), (799, 52281), (809, 52257), (830, 52209), (840, 52185),

Gene: Burritobowl_42 Start: 29479, Stop: 31353, Start Num: 182

Candidate Starts for Burritobowl_42:

(Start: 182 @29479 has 49 MA's), (216, 29548), (224, 29569), (328, 29815), (332, 29830), (340, 29857), (476, 30151), (523, 30286), (564, 30385), (598, 30508), (611, 30568), (614, 30574), (625, 30619), (632, 30634), (635, 30649), (644, 30685), (656, 30721), (680, 30814), (747, 30985), (770, 31057), (778, 31096), (791, 31138), (794, 31156), (804, 31192), (812, 31216), (820, 31237),

Gene: Burton_44 Start: 34084, Stop: 32258, Start Num: 191

Candidate Starts for Burton_44:

(Start: 191 @34084 has 828 MA's), (274, 33871), (283, 33856), (307, 33808), (314, 33778), (322, 33757), (326, 33751), (328, 33742), (365, 33625), (372, 33598), (420, 33505), (428, 33490), (446,

33457), (470, 33406), (472, 33403), (494, 33337), (508, 33307), (518, 33277), (534, 33232), (556, 33193), (611, 33013), (623, 32965), (637, 32926), (656, 32860), (666, 32821), (676, 32800), (683, 32779), (691, 32761), (712, 32695), (770, 32545), (771, 32542), (778, 32506), (785, 32482), (788, 32473), (792, 32461), (812, 32386), (820, 32365),

Gene: Buttons_43 Start: 33067, Stop: 31241, Start Num: 191

Candidate Starts for Buttons_43:

(Start: 191 @33067 has 828 MA's), (274, 32854), (302, 32803), (314, 32761), (322, 32740), (326, 32734), (328, 32725), (365, 32608), (372, 32581), (420, 32488), (428, 32473), (470, 32389), (472, 32386), (494, 32320), (508, 32290), (518, 32260), (534, 32215), (556, 32176), (611, 31996), (623, 31948), (637, 31909), (656, 31843), (666, 31804), (676, 31783), (683, 31762), (691, 31744), (712, 31678), (770, 31528), (771, 31525), (778, 31489), (785, 31465), (788, 31456), (792, 31444), (812, 31369), (820, 31348),

Gene: BuzzBuzz_46 Start: 31884, Stop: 30070, Start Num: 191

Candidate Starts for BuzzBuzz_46:

(Start: 191 @31884 has 828 MA's), (206, 31845), (209, 31833), (271, 31680), (276, 31665), (307, 31608), (326, 31551), (328, 31542), (340, 31500), (355, 31449), (372, 31398), (405, 31344), (420, 31305), (446, 31257), (458, 31233), (476, 31194), (484, 31167), (494, 31137), (528, 31044), (534, 31032), (558, 30984), (565, 30969), (611, 30813), (625, 30762), (636, 30729), (637, 30726), (656, 30660), (666, 30621), (685, 30549), (698, 30510), (704, 30486), (712, 30468), (726, 30435), (760, 30354), (775, 30294), (798, 30207), (812, 30159), (816, 30147), (820, 30138), (821, 30135),

Gene: Bxb1_41 Start: 34132, Stop: 32306, Start Num: 191

Candidate Starts for Bxb1_41:

(Start: 191 @34132 has 828 MA's), (261, 33961), (274, 33919), (283, 33904), (307, 33856), (314, 33826), (322, 33805), (326, 33799), (328, 33790), (365, 33673), (372, 33646), (420, 33553), (428, 33538), (439, 33517), (446, 33505), (470, 33454), (472, 33451), (490, 33397), (494, 33385), (508, 33355), (518, 33325), (534, 33280), (556, 33241), (611, 33061), (618, 33031), (623, 33013), (637, 32974), (656, 32908), (683, 32827), (685, 32824), (712, 32743), (770, 32593), (771, 32590), (778, 32554), (785, 32530), (788, 32521), (792, 32509), (798, 32482), (812, 32434), (820, 32413),

Gene: Bxz2_44 Start: 31891, Stop: 30077, Start Num: 191

Candidate Starts for Bxz2_44:

(Start: 191 @31891 has 828 MA's), (206, 31852), (209, 31840), (271, 31687), (276, 31672), (307, 31615), (326, 31558), (328, 31549), (340, 31507), (355, 31456), (372, 31405), (405, 31351), (420, 31312), (446, 31264), (458, 31240), (476, 31201), (484, 31174), (494, 31144), (528, 31051), (534, 31039), (558, 30991), (565, 30976), (611, 30820), (625, 30769), (636, 30736), (637, 30733), (656, 30667), (666, 30628), (685, 30556), (698, 30517), (704, 30493), (712, 30475), (726, 30442), (775, 30301), (798, 30214), (812, 30166), (816, 30154), (820, 30145), (821, 30142),

Gene: C3_43 Start: 31569, Stop: 29770, Start Num: 191

Candidate Starts for C3_43:

(Start: 191 @31569 has 828 MA's), (271, 31365), (307, 31290), (308, 31287), (314, 31260), (319, 31245), (326, 31233), (340, 31182), (372, 31080), (420, 30987), (425, 30978), (446, 30939), (451, 30930), (484, 30849), (496, 30816), (508, 30789), (556, 30675), (565, 30651), (611, 30486), (623, 30438), (637, 30399), (646, 30363), (656, 30333), (666, 30294), (676, 30273), (712, 30168), (726, 30135), (754, 30072), (770, 30018), (775, 29994), (812, 29859), (816, 29847), (820, 29838),

Gene: CRB1_46 Start: 31778, Stop: 29991, Start Num: 191

Candidate Starts for CRB1_46:

(Start: 191 @31778 has 828 MA's), (271, 31574), (272, 31571), (274, 31565), (283, 31550), (291, 31535), (307, 31502), (308, 31499), (314, 31472), (326, 31445), (331, 31424), (340, 31394), (372,

31292), (420, 31199), (446, 31151), (451, 31142), (458, 31127), (484, 31061), (496, 31028), (515, 30980), (532, 30932), (534, 30926), (565, 30863), (592, 30788), (611, 30707), (636, 30623), (637, 30620), (656, 30554), (666, 30515), (676, 30494), (701, 30419), (706, 30401), (712, 30389), (726, 30356), (754, 30293), (760, 30275), (770, 30239), (775, 30215), (791, 30158), (812, 30080), (816, 30068), (820, 30059),

Gene: CRB2_57 Start: 55662, Stop: 53833, Start Num: 151

Candidate Starts for CRB2_57:

(Start: 151 @55662 has 3 MA's), (Start: 186 @55635 has 3 MA's), (201, 55608), (216, 55563), (226, 55554), (235, 55536), (269, 55452), (272, 55443), (312, 55344), (327, 55305), (334, 55281), (372, 55173), (389, 55116), (400, 55080), (402, 55068), (410, 55044), (411, 55041), (414, 55032), (469, 54924), (471, 54921), (473, 54918), (480, 54903), (483, 54891), (494, 54855), (560, 54690), (589, 54624), (590, 54621), (595, 54603), (601, 54585), (607, 54561), (608, 54555), (612, 54528), (645, 54420), (647, 54414), (651, 54405), (683, 54306), (685, 54303), (691, 54288), (717, 54210), (722, 54198), (730, 54177), (738, 54159), (753, 54129), (765, 54093), (775, 54048), (779, 54030), (781, 54024), (793, 53985), (794, 53973), (795, 53970), (809, 53931), (817, 53907), (830, 53883), (840, 53859),

Gene: CactusRose_42 Start: 33957, Stop: 32131, Start Num: 191

Candidate Starts for CactusRose_42:

(Start: 191 @33957 has 828 MA's), (274, 33744), (283, 33729), (307, 33681), (314, 33651), (322, 33630), (326, 33624), (328, 33615), (365, 33498), (372, 33471), (420, 33378), (428, 33363), (446, 33330), (470, 33279), (472, 33276), (494, 33210), (508, 33180), (518, 33150), (534, 33105), (556, 33066), (611, 32886), (623, 32838), (637, 32799), (656, 32733), (666, 32694), (676, 32673), (683, 32652), (691, 32634), (712, 32568), (770, 32418), (771, 32415), (778, 32379), (785, 32355), (788, 32346), (792, 32334), (812, 32259), (820, 32238),

Gene: Caelakin_45 Start: 31570, Stop: 29744, Start Num: 191

Candidate Starts for Caelakin_45:

(Start: 191 @31570 has 828 MA's), (201, 31549), (209, 31519), (221, 31489), (291, 31327), (300, 31309), (326, 31237), (328, 31228), (366, 31108), (372, 31084), (420, 30991), (448, 30943), (458, 30922), (476, 30883), (523, 30751), (532, 30730), (556, 30685), (559, 30673), (609, 30520), (611, 30499), (646, 30376), (656, 30346), (666, 30307), (683, 30241), (685, 30238), (691, 30223), (698, 30199), (704, 30175), (775, 29968), (812, 29833), (816, 29821), (820, 29812),

Gene: CaiB_54 Start: 48539, Stop: 46722, Start Num: 177

Candidate Starts for CaiB_54:

(113, 48632), (125, 48611), (Start: 177 @48539 has 10 MA's), (Start: 186 @48530 has 3 MA's), (201, 48503), (205, 48488), (212, 48467), (216, 48458), (272, 48320), (289, 48284), (372, 48056), (389, 47999), (400, 47963), (402, 47951), (406, 47939), (410, 47927), (460, 47834), (465, 47822), (471, 47810), (480, 47792), (542, 47636), (589, 47519), (608, 47450), (612, 47423), (645, 47315), (647, 47309), (651, 47300), (678, 47210), (683, 47201), (685, 47198), (691, 47183), (717, 47105), (722, 47093), (725, 47087), (730, 47072), (753, 47024), (775, 46943), (781, 46919), (793, 46880), (795, 46865), (809, 46820), (840, 46748),

Gene: Calamitous_57 Start: 52488, Stop: 50659, Start Num: 147

Candidate Starts for Calamitous_57:

(Start: 147 @52488 has 31 MA's), (Start: 186 @52461 has 3 MA's), (202, 52431), (205, 52419), (215, 52392), (216, 52389), (221, 52380), (235, 52362), (272, 52266), (296, 52215), (307, 52191), (358, 52029), (366, 52014), (368, 52005), (372, 51993), (389, 51936), (400, 51900), (402, 51888), (410, 51864), (456, 51780), (469, 51750), (471, 51747), (483, 51717), (542, 51573), (565, 51507), (589, 51456), (595, 51435), (601, 51417), (612, 51360), (633, 51303), (639, 51276), (647, 51246), (651, 51237), (668, 51171), (679, 51144), (683, 51135), (691, 51117), (698, 51093), (717, 51039), (722,

51027), (730, 51006), (760, 50937), (775, 50877), (779, 50859), (789, 50826), (793, 50814), (795, 50799), (796, 50796), (799, 50784), (809, 50760), (810, 50757), (830, 50709), (832, 50706), (840, 50685), (847, 50664),

Gene: CallinAllBarbz_41 Start: 29407, Stop: 31281, Start Num: 191

Candidate Starts for CallinAllBarbz_41:

(Start: 191 @29407 has 828 MA's), (199, 29425), (290, 29638), (296, 29650), (308, 29677), (314, 29704), (322, 29725), (331, 29752), (423, 30001), (476, 30109), (481, 30124), (515, 30214), (532, 30262), (611, 30520), (618, 30550), (644, 30637), (646, 30643), (654, 30664), (720, 30877), (752, 30946), (754, 30952), (775, 31033), (781, 31057), (788, 31081), (796, 31114), (804, 31144), (812, 31168), (815, 31177), (824, 31198),

Gene: CamL_60 Start: 54350, Stop: 52491, Start Num: 149

Candidate Starts for CamL_60:

(Start: 133 @54374 has 1 MA's), (Start: 149 @54350 has 248 MA's), (Start: 174 @54326 has 5 MA's), (Start: 186 @54320 has 3 MA's), (205, 54278), (212, 54257), (254, 54143), (256, 54137), (269, 54107), (296, 54047), (306, 54026), (323, 53972), (327, 53960), (332, 53942), (335, 53930), (372, 53825), (389, 53768), (400, 53732), (402, 53720), (411, 53693), (432, 53648), (465, 53591), (469, 53582), (471, 53579), (607, 53219), (612, 53186), (617, 53165), (647, 53072), (651, 53063), (668, 53000), (683, 52964), (685, 52961), (691, 52946), (717, 52868), (722, 52856), (730, 52835), (748, 52796), (775, 52706), (779, 52688), (781, 52682), (785, 52667), (793, 52643), (795, 52628), (796, 52625), (799, 52613), (809, 52589), (830, 52541), (840, 52517),

Gene: CampRoach_61 Start: 54448, Stop: 52589, Start Num: 149

Candidate Starts for CampRoach_61:

(Start: 133 @54472 has 1 MA's), (Start: 149 @54448 has 248 MA's), (Start: 174 @54424 has 5 MA's), (Start: 186 @54418 has 3 MA's), (205, 54376), (212, 54355), (254, 54241), (256, 54235), (269, 54205), (296, 54145), (306, 54124), (323, 54070), (327, 54058), (332, 54040), (335, 54028), (372, 53923), (389, 53866), (400, 53830), (402, 53818), (411, 53791), (421, 53764), (432, 53746), (442, 53728), (465, 53689), (469, 53680), (471, 53677), (473, 53674), (607, 53317), (612, 53284), (617, 53263), (647, 53170), (651, 53161), (668, 53098), (683, 53062), (685, 53059), (691, 53044), (717, 52966), (722, 52954), (730, 52933), (748, 52894), (775, 52804), (779, 52786), (781, 52780), (785, 52765), (793, 52741), (795, 52726), (796, 52723), (799, 52711), (809, 52687), (830, 52639), (840, 52615),

Gene: Camperdownii_43 Start: 31243, Stop: 29417, Start Num: 191

Candidate Starts for Camperdownii_43:

(Start: 191 @31243 has 828 MA's), (201, 31222), (209, 31192), (221, 31162), (291, 31000), (300, 30982), (326, 30910), (328, 30901), (366, 30781), (372, 30757), (420, 30664), (448, 30616), (458, 30595), (476, 30556), (523, 30424), (532, 30403), (556, 30358), (559, 30346), (609, 30193), (611, 30172), (646, 30049), (656, 30019), (666, 29980), (683, 29914), (685, 29911), (691, 29896), (698, 29872), (704, 29848), (775, 29641), (812, 29506), (816, 29494), (820, 29485),

Gene: Candra_45 Start: 29663, Stop: 27822, Start Num: 191

Candidate Starts for Candra_45:

(Start: 191 @29663 has 828 MA's), (271, 29459), (307, 29384), (308, 29381), (314, 29354), (319, 29339), (326, 29327), (340, 29276), (368, 29186), (372, 29174), (420, 29081), (441, 29042), (451, 29024), (458, 29009), (484, 28943), (496, 28910), (498, 28907), (535, 28805), (565, 28745), (592, 28661), (611, 28580), (636, 28496), (637, 28493), (639, 28484), (646, 28457), (656, 28427), (676, 28367), (691, 28328), (770, 28112), (771, 28109), (775, 28088), (812, 27953), (816, 27941), (820, 27932), (821, 27929), (859, 27836),

Gene: Cannibal_60 Start: 54292, Stop: 52433, Start Num: 149

Candidate Starts for Cannibal_60:

(Start: 133 @54316 has 1 MA's), (Start: 149 @54292 has 248 MA's), (Start: 174 @54268 has 5 MA's), (Start: 186 @54262 has 3 MA's), (205, 54220), (212, 54199), (254, 54085), (256, 54079), (269, 54049), (296, 53989), (306, 53968), (323, 53914), (327, 53902), (332, 53884), (335, 53872), (372, 53767), (389, 53710), (400, 53674), (402, 53662), (411, 53635), (432, 53590), (465, 53533), (469, 53524), (471, 53521), (607, 53161), (612, 53128), (617, 53107), (647, 53014), (651, 53005), (668, 52942), (683, 52906), (685, 52903), (691, 52888), (717, 52810), (722, 52798), (730, 52777), (748, 52738), (775, 52648), (779, 52630), (781, 52624), (785, 52609), (793, 52585), (795, 52570), (796, 52567), (799, 52555), (809, 52531), (830, 52483), (840, 52459),

Gene: Caraxes_45 Start: 30012, Stop: 28183, Start Num: 191

Candidate Starts for Caraxes_45:

(Start: 191 @30012 has 828 MA's), (271, 29808), (274, 29799), (291, 29769), (307, 29736), (308, 29733), (314, 29706), (326, 29679), (331, 29658), (372, 29526), (420, 29433), (446, 29385), (484, 29295), (502, 29247), (532, 29166), (611, 28941), (637, 28854), (646, 28818), (656, 28788), (666, 28749), (676, 28728), (683, 28707), (691, 28689), (726, 28590), (737, 28563), (754, 28527), (760, 28509), (770, 28473), (812, 28314), (816, 28302), (820, 28293), (839, 28245), (854, 28215),

Gene: Carlyle_44 Start: 32803, Stop: 30974, Start Num: 191

Candidate Starts for Carlyle_44:

(Start: 191 @32803 has 828 MA's), (274, 32590), (283, 32575), (314, 32497), (322, 32476), (326, 32470), (328, 32461), (355, 32368), (365, 32344), (372, 32317), (420, 32224), (428, 32209), (446, 32176), (470, 32125), (472, 32122), (494, 32056), (508, 32026), (518, 31996), (534, 31951), (556, 31912), (611, 31732), (623, 31684), (639, 31636), (651, 31597), (656, 31579), (666, 31540), (676, 31519), (683, 31498), (690, 31483), (733, 31360), (789, 31189), (794, 31165), (808, 31117), (812, 31105), (820, 31084), (823, 31078), (842, 31030), (849, 31015),

Gene: Caron_50 Start: 32142, Stop: 34007, Start Num: 190

Candidate Starts for Caron_50:

(Start: 190 @32142 has 8 MA's), (234, 32250), (415, 32715), (474, 32838), (476, 32844), (532, 32997), (561, 33060), (611, 33255), (631, 33318), (642, 33366), (644, 33372), (657, 33411), (713, 33594), (812, 33903), (844, 33981), (856, 34002),

Gene: Carthage_59 Start: 53529, Stop: 51670, Start Num: 149

Candidate Starts for Carthage_59:

(20, 53925), (34, 53838), (38, 53823), (39, 53817), (45, 53802), (49, 53784), (Start: 133 @53553 has 1 MA's), (Start: 149 @53529 has 248 MA's), (Start: 174 @53505 has 5 MA's), (Start: 186 @53499 has 3 MA's), (205, 53457), (212, 53436), (254, 53322), (256, 53316), (269, 53286), (296, 53226), (306, 53205), (323, 53151), (327, 53139), (335, 53109), (372, 53004), (389, 52947), (400, 52911), (402, 52899), (411, 52872), (414, 52863), (432, 52827), (442, 52809), (465, 52770), (469, 52761), (471, 52758), (607, 52398), (612, 52365), (617, 52344), (647, 52251), (651, 52242), (668, 52179), (683, 52143), (685, 52140), (691, 52125), (717, 52047), (722, 52035), (730, 52014), (748, 51975), (775, 51885), (779, 51867), (781, 51861), (785, 51846), (793, 51822), (795, 51807), (796, 51804), (799, 51792), (809, 51768), (830, 51720), (840, 51696),

Gene: Casbah_58 Start: 53994, Stop: 52177, Start Num: 183

Candidate Starts for Casbah_58:

(80, 54177), (Start: 183 @53994 has 42 MA's), (201, 53964), (274, 53784), (331, 53631), (334, 53619), (343, 53589), (349, 53583), (372, 53520), (375, 53514), (389, 53463), (400, 53427), (414, 53379), (471, 53274), (510, 53178), (533, 53127), (589, 52983), (601, 52944), (608, 52914), (612, 52887), (616, 52875), (645, 52779), (647, 52773), (651, 52764), (655, 52752), (674, 52680), (683, 52650), (691, 52632), (694, 52623), (717, 52554), (722, 52542), (730, 52521), (760, 52452), (765, 52437), (771, 52413), (775, 52392), (779, 52374), (781, 52368), (791, 52335), (793, 52329), (796,

52311), (799, 52299), (805, 52287), (809, 52275), (826, 52233), (840, 52203),

Gene: Cashington_40 Start: 28858, Stop: 30732, Start Num: 182

Candidate Starts for Cashington_40:

(Start: 179 @28855 has 7 MA's), (Start: 182 @28858 has 49 MA's), (216, 28927), (224, 28948), (271, 29065), (307, 29128), (328, 29194), (340, 29236), (476, 29530), (564, 29764), (598, 29887), (611, 29947), (614, 29953), (625, 29998), (632, 30013), (635, 30028), (644, 30064), (656, 30100), (680, 30193), (713, 30286), (747, 30364), (770, 30436), (778, 30475), (791, 30517), (794, 30535), (812, 30595), (820, 30616),

Gene: Cassia_40 Start: 29351, Stop: 31216, Start Num: 191

Candidate Starts for Cassia_40:

(Start: 191 @29351 has 828 MA's), (208, 29399), (314, 29648), (351, 29768), (423, 29945), (428, 29954), (476, 30053), (481, 30068), (484, 30080), (532, 30206), (583, 30344), (611, 30464), (637, 30551), (656, 30617), (680, 30710), (770, 30953), (812, 31112), (815, 31121),

Gene: Cassita_65 Start: 38135, Stop: 36300, Start Num: 92

Candidate Starts for Cassita_65:

(82, 38150), (Start: 92 @38135 has 10 MA's), (97, 38120), (136, 38051), (181, 37991), (198, 37964), (200, 37961), (210, 37928), (215, 37916), (219, 37907), (228, 37898), (302, 37733), (305, 37727), (343, 37634), (358, 37595), (371, 37556), (383, 37523), (385, 37511), (388, 37505), (399, 37469), (401, 37463), (408, 37436), (421, 37403), (437, 37376), (511, 37229), (536, 37172), (580, 37067), (593, 37019), (606, 36980), (608, 36971), (666, 36776), (681, 36749), (703, 36725), (724, 36686), (748, 36638), (758, 36614), (778, 36530), (787, 36500), (791, 36482), (794, 36464), (795, 36461), (805, 36428), (806, 36425), (813, 36404), (827, 36374), (837, 36350), (842, 36335), (846, 36326),

Gene: Catalina_46 Start: 31484, Stop: 29691, Start Num: 191

Candidate Starts for Catalina_46:

(Start: 191 @31484 has 828 MA's), (196, 31475), (209, 31433), (261, 31313), (262, 31310), (279, 31262), (308, 31202), (315, 31172), (319, 31160), (326, 31148), (372, 30995), (420, 30902), (484, 30764), (494, 30734), (559, 30575), (565, 30563), (579, 30536), (609, 30428), (611, 30407), (651, 30272), (656, 30254), (683, 30173), (698, 30131), (726, 30056), (758, 29981), (770, 29939), (795, 29837), (812, 29780), (816, 29768), (820, 29759),

Gene: Caviar_44 Start: 31597, Stop: 29759, Start Num: 191

Candidate Starts for Caviar_44:

(Start: 191 @31597 has 828 MA's), (209, 31546), (271, 31393), (307, 31321), (314, 31291), (326, 31264), (328, 31255), (372, 31111), (420, 31015), (448, 30967), (476, 30907), (509, 30820), (523, 30775), (532, 30754), (566, 30682), (582, 30640), (592, 30598), (611, 30517), (623, 30469), (637, 30430), (646, 30394), (656, 30364), (664, 30334), (685, 30253), (698, 30214), (704, 30190), (712, 30172), (713, 30169), (760, 30043), (775, 29983), (798, 29896), (812, 29848), (816, 29836), (820, 29827),

Gene: Cece_99 Start: 83690, Stop: 81819, Start Num: 180

Candidate Starts for Cece_99:

(Start: 180 @83690 has 7 MA's), (264, 83480), (293, 83414), (306, 83393), (334, 83306), (336, 83300), (370, 83207), (376, 83192), (425, 83114), (464, 83030), (476, 83003), (483, 82982), (496, 82943), (508, 82916), (510, 82910), (556, 82805), (573, 82757), (582, 82736), (584, 82727), (611, 82616), (632, 82550), (642, 82502), (664, 82418), (668, 82403), (686, 82334), (696, 82307), (698, 82298), (708, 82265), (789, 82013), (795, 81986), (812, 81929),

Gene: Celaena_40 Start: 30338, Stop: 32209, Start Num: 182

Candidate Starts for Celaena_40:

(Start: 182 @30338 has 49 MA's), (216, 30407), (271, 30545), (328, 30674), (361, 30770), (476, 31010), (481, 31025), (515, 31118), (556, 31208), (611, 31424), (625, 31475), (632, 31490), (644, 31541), (647, 31550), (656, 31577), (680, 31670), (704, 31742), (747, 31841), (770, 31913), (775, 31937), (791, 31994), (804, 32048), (812, 32072), (820, 32093),

Gene: Cen1621_44 Start: 29694, Stop: 31556, Start Num: 191

Candidate Starts for Cen1621_44:

(108, 29562), (119, 29580), (162, 29649), (166, 29658), (Start: 191 @29694 has 828 MA's), (234, 29802), (257, 29859), (271, 29898), (322, 30012), (446, 30330), (476, 30396), (478, 30399), (481, 30411), (484, 30423), (508, 30483), (532, 30549), (559, 30606), (574, 30657), (611, 30807), (656, 30960), (708, 31134), (712, 31143), (794, 31395), (808, 31443), (812, 31455),

Gene: Centaur_45 Start: 31699, Stop: 29912, Start Num: 191

Candidate Starts for Centaur_45:

(Start: 191 @31699 has 828 MA's), (271, 31495), (272, 31492), (274, 31486), (291, 31456), (307, 31423), (308, 31420), (314, 31393), (326, 31366), (340, 31315), (372, 31213), (420, 31120), (446, 31072), (451, 31063), (458, 31048), (484, 30982), (515, 30901), (532, 30853), (592, 30709), (611, 30628), (625, 30577), (636, 30544), (656, 30475), (666, 30436), (676, 30415), (679, 30403), (683, 30394), (689, 30382), (758, 30202), (760, 30196), (770, 30160), (775, 30136), (795, 30058), (812, 30001), (816, 29989),

Gene: CentreCat_45 Start: 31573, Stop: 29747, Start Num: 191

Candidate Starts for CentreCat_45:

(Start: 191 @31573 has 828 MA's), (201, 31552), (209, 31522), (221, 31492), (291, 31330), (300, 31312), (326, 31240), (328, 31231), (366, 31111), (372, 31087), (420, 30994), (448, 30946), (458, 30925), (476, 30886), (523, 30754), (532, 30733), (556, 30688), (559, 30676), (609, 30523), (611, 30502), (646, 30379), (656, 30349), (666, 30310), (683, 30244), (685, 30241), (691, 30226), (698, 30202), (704, 30178), (775, 29971), (812, 29836), (816, 29824), (820, 29815),

Gene: Cerulean_46 Start: 31993, Stop: 30167, Start Num: 191

Candidate Starts for Cerulean_46:

(Start: 191 @31993 has 828 MA's), (208, 31945), (271, 31789), (307, 31717), (326, 31660), (328, 31651), (366, 31531), (372, 31507), (420, 31414), (448, 31366), (458, 31345), (476, 31306), (490, 31261), (523, 31174), (526, 31165), (532, 31153), (556, 31108), (559, 31096), (609, 30943), (611, 30922), (646, 30799), (656, 30769), (666, 30730), (683, 30664), (685, 30661), (698, 30622), (704, 30598), (775, 30391), (812, 30256), (816, 30244), (820, 30235),

Gene: ChaChing_58 Start: 53696, Stop: 51879, Start Num: 183

Candidate Starts for ChaChing_58:

(80, 53879), (Start: 183 @53696 has 42 MA's), (201, 53666), (274, 53486), (331, 53333), (334, 53321), (343, 53291), (349, 53285), (372, 53222), (375, 53216), (389, 53165), (400, 53129), (414, 53081), (471, 52976), (510, 52880), (533, 52829), (589, 52685), (601, 52646), (608, 52616), (612, 52589), (616, 52577), (645, 52481), (647, 52475), (651, 52466), (655, 52454), (674, 52382), (683, 52352), (691, 52334), (694, 52325), (717, 52256), (722, 52244), (730, 52223), (760, 52154), (765, 52139), (771, 52115), (775, 52094), (781, 52070), (793, 52031), (796, 52013), (799, 52001), (805, 51989), (809, 51977), (826, 51935), (840, 51905),

Gene: Chadwick_40 Start: 30056, Stop: 28191, Start Num: 191

Candidate Starts for Chadwick_40:

(Start: 164 @30089 has 2 MA's), (Start: 191 @30056 has 828 MA's), (235, 29945), (272, 29849), (307, 29780), (308, 29777), (314, 29750), (326, 29723), (328, 29714), (351, 29630), (355, 29621), (361, 29606), (372, 29570), (407, 29510), (420, 29474), (446, 29426), (457, 29405), (458, 29402), (483, 29342), (513, 29264), (528, 29216), (534, 29204), (558, 29156), (576, 29105), (611, 28970), (623,

28922), (632, 28904), (637, 28883), (639, 28874), (647, 28844), (656, 28817), (657, 28814), (683, 28736), (691, 28718), (704, 28670), (726, 28619), (750, 28565), (754, 28556), (760, 28538), (779, 28460), (812, 28343), (816, 28331), (859, 28226),

Gene: Chaelin_61 Start: 54580, Stop: 52721, Start Num: 149

Candidate Starts for Chaelin_61:

(Start: 133 @54604 has 1 MA's), (Start: 149 @54580 has 248 MA's), (Start: 174 @54556 has 5 MA's), (Start: 186 @54550 has 3 MA's), (205, 54508), (212, 54487), (254, 54373), (256, 54367), (269, 54337), (296, 54277), (306, 54256), (323, 54202), (327, 54190), (332, 54172), (335, 54160), (372, 54055), (389, 53998), (400, 53962), (402, 53950), (410, 53926), (414, 53914), (421, 53896), (432, 53878), (442, 53860), (465, 53821), (469, 53812), (471, 53809), (473, 53806), (607, 53449), (612, 53416), (617, 53395), (647, 53302), (651, 53293), (668, 53230), (683, 53194), (685, 53191), (691, 53176), (717, 53098), (722, 53086), (730, 53065), (748, 53026), (775, 52936), (779, 52918), (781, 52912), (785, 52897), (793, 52873), (795, 52858), (796, 52855), (799, 52843), (809, 52819), (830, 52771), (840, 52747),

Gene: Chah_62 Start: 53995, Stop: 52136, Start Num: 149

Candidate Starts for Chah_62:

(Start: 133 @54019 has 1 MA's), (Start: 149 @53995 has 248 MA's), (Start: 174 @53971 has 5 MA's), (Start: 186 @53965 has 3 MA's), (205, 53923), (212, 53902), (254, 53788), (256, 53782), (269, 53752), (296, 53692), (306, 53671), (323, 53617), (327, 53605), (332, 53587), (335, 53575), (372, 53470), (389, 53413), (400, 53377), (402, 53365), (411, 53338), (421, 53311), (432, 53293), (442, 53275), (465, 53236), (469, 53227), (471, 53224), (576, 52966), (607, 52864), (612, 52831), (617, 52810), (647, 52717), (651, 52708), (668, 52645), (683, 52609), (685, 52606), (691, 52591), (717, 52513), (722, 52501), (730, 52480), (748, 52441), (775, 52351), (779, 52333), (781, 52327), (785, 52312), (793, 52288), (795, 52273), (796, 52270), (799, 52258), (809, 52234), (830, 52186), (840, 52162),

Gene: ChampagnePapi_47 Start: 31992, Stop: 30166, Start Num: 191

Candidate Starts for ChampagnePapi_47:

(Start: 191 @31992 has 828 MA's), (208, 31944), (271, 31788), (307, 31716), (326, 31659), (328, 31650), (366, 31530), (372, 31506), (420, 31413), (448, 31365), (458, 31344), (476, 31305), (490, 31260), (523, 31173), (526, 31164), (532, 31152), (556, 31107), (559, 31095), (609, 30942), (611, 30921), (646, 30798), (656, 30768), (666, 30729), (683, 30663), (685, 30660), (698, 30621), (704, 30597), (775, 30390), (812, 30255), (816, 30243), (820, 30234),

Gene: Chanagan_42 Start: 33624, Stop: 31837, Start Num: 191

Candidate Starts for Chanagan_42:

(Start: 191 @33624 has 828 MA's), (274, 33411), (283, 33396), (307, 33348), (314, 33318), (322, 33297), (326, 33291), (328, 33282), (365, 33165), (372, 33138), (420, 33045), (428, 33030), (470, 32946), (472, 32943), (494, 32877), (508, 32847), (518, 32817), (534, 32772), (556, 32733), (611, 32553), (623, 32505), (637, 32466), (656, 32400), (679, 32328), (683, 32319), (712, 32235), (750, 32148), (785, 32022), (789, 32010), (804, 31950), (812, 31926), (814, 31920),

Gene: Chandler_58 Start: 54464, Stop: 52647, Start Num: 183

Candidate Starts for Chandler_58:

(80, 54647), (Start: 183 @54464 has 42 MA's), (201, 54434), (274, 54254), (316, 54149), (331, 54101), (334, 54089), (343, 54059), (349, 54053), (372, 53990), (375, 53984), (389, 53933), (400, 53897), (414, 53849), (471, 53744), (510, 53648), (533, 53597), (589, 53453), (601, 53414), (608, 53384), (612, 53357), (616, 53345), (645, 53249), (647, 53243), (651, 53234), (655, 53222), (674, 53150), (683, 53120), (691, 53102), (694, 53093), (717, 53024), (722, 53012), (730, 52991), (760, 52922), (765, 52907), (771, 52883), (775, 52862), (779, 52844), (781, 52838), (791, 52805), (793, 52799), (796, 52781), (799, 52769), (805, 52757), (809, 52745), (826, 52703), (840, 52673),

Gene: Changeling_45 Start: 32303, Stop: 30516, Start Num: 191

Candidate Starts for Changeling_45:

(Start: 191 @32303 has 828 MA's), (271, 32099), (272, 32096), (274, 32090), (283, 32075), (291, 32060), (308, 32024), (314, 31997), (326, 31970), (331, 31949), (372, 31817), (420, 31724), (446, 31676), (451, 31667), (458, 31652), (484, 31586), (515, 31505), (532, 31457), (592, 31313), (611, 31232), (625, 31181), (636, 31148), (637, 31145), (646, 31109), (656, 31079), (666, 31040), (676, 31019), (701, 30944), (704, 30932), (726, 30881), (737, 30854), (754, 30818), (760, 30800), (770, 30764), (775, 30740), (791, 30683), (795, 30662), (812, 30605), (816, 30593), (820, 30584),

Gene: Chaph_45 Start: 31581, Stop: 29755, Start Num: 191

Candidate Starts for Chaph_45:

(Start: 191 @31581 has 828 MA's), (201, 31560), (209, 31530), (221, 31500), (291, 31338), (300, 31320), (326, 31248), (328, 31239), (366, 31119), (372, 31095), (420, 31002), (448, 30954), (458, 30933), (476, 30894), (523, 30762), (532, 30741), (556, 30696), (559, 30684), (609, 30531), (611, 30510), (646, 30387), (656, 30357), (666, 30318), (683, 30252), (685, 30249), (691, 30234), (698, 30210), (704, 30186), (775, 29979), (812, 29844), (816, 29832), (820, 29823),

Gene: Chargerpower_44 Start: 30403, Stop: 28610, Start Num: 191

Candidate Starts for Chargerpower_44:

(131, 30496), (Start: 191 @30403 has 828 MA's), (196, 30394), (235, 30292), (236, 30286), (271, 30199), (279, 30181), (308, 30121), (314, 30094), (326, 30067), (357, 29962), (372, 29914), (420, 29821), (444, 29776), (494, 29653), (579, 29455), (607, 29356), (609, 29347), (611, 29326), (656, 29173), (676, 29113), (679, 29101), (683, 29092), (754, 28912), (770, 28858), (795, 28756), (798, 28747), (812, 28699), (816, 28687), (820, 28678),

Gene: Charles1_61 Start: 54304, Stop: 52445, Start Num: 149

Candidate Starts for Charles1_61:

(Start: 133 @54328 has 1 MA's), (Start: 149 @54304 has 248 MA's), (Start: 174 @54280 has 5 MA's), (Start: 186 @54274 has 3 MA's), (205, 54232), (212, 54211), (254, 54097), (256, 54091), (269, 54061), (296, 54001), (306, 53980), (323, 53926), (327, 53914), (332, 53896), (335, 53884), (372, 53779), (389, 53722), (400, 53686), (402, 53674), (411, 53647), (421, 53620), (432, 53602), (442, 53584), (465, 53545), (469, 53536), (471, 53533), (607, 53173), (612, 53140), (617, 53119), (647, 53026), (651, 53017), (668, 52954), (683, 52918), (685, 52915), (691, 52900), (717, 52822), (722, 52810), (730, 52789), (748, 52750), (775, 52660), (779, 52642), (781, 52636), (785, 52621), (793, 52597), (795, 52582), (796, 52579), (799, 52567), (809, 52543), (830, 52495), (840, 52471),

Gene: CharlieGBrown_61 Start: 54143, Stop: 52284, Start Num: 149

Candidate Starts for CharlieGBrown_61:

(Start: 133 @54167 has 1 MA's), (Start: 149 @54143 has 248 MA's), (Start: 174 @54119 has 5 MA's), (Start: 186 @54113 has 3 MA's), (205, 54071), (212, 54050), (254, 53936), (256, 53930), (269, 53900), (296, 53840), (306, 53819), (323, 53765), (327, 53753), (332, 53735), (335, 53723), (372, 53618), (389, 53561), (400, 53525), (402, 53513), (410, 53489), (414, 53477), (421, 53459), (432, 53441), (442, 53423), (465, 53384), (469, 53375), (471, 53372), (473, 53369), (576, 53114), (607, 53012), (612, 52979), (617, 52958), (647, 52865), (651, 52856), (668, 52793), (683, 52757), (685, 52754), (691, 52739), (717, 52661), (722, 52649), (730, 52628), (748, 52589), (775, 52499), (779, 52481), (781, 52475), (785, 52460), (793, 52436), (795, 52421), (796, 52418), (799, 52406), (809, 52382), (816, 52361), (830, 52334), (840, 52310), (845, 52295),

Gene: CharlottesWeb_50 Start: 45347, Stop: 43530, Start Num: 177

Candidate Starts for CharlottesWeb_50:

(43, 45662), (52, 45626), (53, 45620), (60, 45587), (Start: 177 @45347 has 10 MA's), (201, 45311), (204, 45299), (205, 45296), (216, 45266), (265, 45140), (289, 45092), (316, 45017), (335, 44960),

(366, 44885), (372, 44864), (400, 44771), (460, 44642), (471, 44618), (589, 44327), (595, 44306), (601, 44288), (612, 44231), (647, 44117), (651, 44108), (685, 44006), (691, 43991), (717, 43913), (722, 43901), (730, 43880), (733, 43871), (758, 43817), (768, 43784), (775, 43751), (776, 43748), (785, 43712), (793, 43688), (809, 43628), (840, 43556),

Gene: Charm_42 Start: 30834, Stop: 29041, Start Num: 191

Candidate Starts for Charm_42:

(Start: 191 @30834 has 828 MA's), (196, 30825), (235, 30723), (261, 30663), (262, 30660), (271, 30630), (293, 30585), (308, 30552), (314, 30525), (319, 30510), (326, 30498), (328, 30489), (340, 30447), (372, 30345), (420, 30252), (433, 30228), (444, 30207), (494, 30084), (559, 29925), (560, 29922), (579, 29886), (582, 29880), (611, 29757), (632, 29691), (651, 29622), (656, 29604), (676, 29544), (683, 29523), (698, 29481), (726, 29406), (758, 29331), (770, 29289), (795, 29187), (812, 29130), (816, 29118), (820, 29109),

Gene: Chartreuse_45 Start: 29574, Stop: 27733, Start Num: 191

Candidate Starts for Chartreuse_45:

(Start: 191 @29574 has 828 MA's), (271, 29370), (307, 29295), (308, 29292), (314, 29265), (319, 29250), (326, 29238), (340, 29187), (368, 29097), (372, 29085), (420, 28992), (441, 28953), (451, 28935), (458, 28920), (484, 28854), (496, 28821), (498, 28818), (535, 28716), (565, 28656), (592, 28572), (611, 28491), (636, 28407), (637, 28404), (639, 28395), (646, 28368), (656, 28338), (676, 28278), (691, 28239), (770, 28023), (771, 28020), (775, 27999), (812, 27864), (816, 27852), (820, 27843), (821, 27840), (859, 27747),

Gene: Che12_47 Start: 30450, Stop: 28663, Start Num: 191

Candidate Starts for Che12_47:

(Start: 191 @30450 has 828 MA's), (271, 30246), (274, 30237), (307, 30174), (308, 30171), (314, 30144), (326, 30117), (331, 30096), (339, 30069), (372, 29964), (420, 29871), (446, 29823), (490, 29715), (502, 29685), (532, 29604), (611, 29379), (636, 29295), (637, 29292), (646, 29256), (656, 29226), (666, 29187), (676, 29166), (683, 29145), (691, 29127), (726, 29028), (737, 29001), (754, 28965), (760, 28947), (770, 28911), (775, 28887), (811, 28755), (812, 28752), (816, 28740), (820, 28731),

Gene: CheetO_60 Start: 54266, Stop: 52407, Start Num: 149

Candidate Starts for CheetO_60:

(Start: 133 @54290 has 1 MA's), (Start: 149 @54266 has 248 MA's), (Start: 174 @54242 has 5 MA's), (Start: 186 @54236 has 3 MA's), (205, 54194), (212, 54173), (254, 54059), (256, 54053), (269, 54023), (296, 53963), (306, 53942), (323, 53888), (327, 53876), (332, 53858), (335, 53846), (372, 53741), (389, 53684), (400, 53648), (402, 53636), (410, 53612), (414, 53600), (421, 53582), (432, 53564), (442, 53546), (465, 53507), (469, 53498), (471, 53495), (473, 53492), (607, 53135), (612, 53102), (617, 53081), (647, 52988), (651, 52979), (668, 52916), (683, 52880), (685, 52877), (691, 52862), (717, 52784), (722, 52772), (730, 52751), (748, 52712), (775, 52622), (779, 52604), (781, 52598), (785, 52583), (793, 52559), (795, 52544), (796, 52541), (799, 52529), (809, 52505), (830, 52457), (840, 52433),

Gene: Cher_60 Start: 54560, Stop: 52701, Start Num: 149

Candidate Starts for Cher_60:

(Start: 133 @54584 has 1 MA's), (Start: 149 @54560 has 248 MA's), (Start: 174 @54536 has 5 MA's), (Start: 186 @54530 has 3 MA's), (205, 54488), (212, 54467), (254, 54353), (256, 54347), (269, 54317), (296, 54257), (306, 54236), (323, 54182), (327, 54170), (332, 54152), (335, 54140), (372, 54035), (389, 53978), (400, 53942), (402, 53930), (411, 53903), (432, 53858), (465, 53801), (469, 53792), (471, 53789), (607, 53429), (612, 53396), (617, 53375), (647, 53282), (651, 53273), (668, 53210), (683, 53174), (685, 53171), (691, 53156), (717, 53078), (722, 53066), (730, 53045), (748, 53006), (775, 52916), (779, 52898), (781, 52892), (785, 52877), (793, 52853), (795, 52838), (796,

52835), (799, 52823), (809, 52799), (830, 52751), (840, 52727),

Gene: Childish_60 Start: 54571, Stop: 52712, Start Num: 149

Candidate Starts for Childish_60:

(Start: 133 @54595 has 1 MA's), (Start: 149 @54571 has 248 MA's), (Start: 174 @54547 has 5 MA's), (Start: 186 @54541 has 3 MA's), (205, 54499), (212, 54478), (254, 54364), (256, 54358), (269, 54328), (296, 54268), (306, 54247), (323, 54193), (327, 54181), (332, 54163), (335, 54151), (372, 54046), (389, 53989), (400, 53953), (402, 53941), (411, 53914), (421, 53887), (432, 53869), (442, 53851), (465, 53812), (469, 53803), (471, 53800), (576, 53542), (607, 53440), (612, 53407), (617, 53386), (647, 53293), (651, 53284), (668, 53221), (683, 53185), (685, 53182), (691, 53167), (717, 53089), (722, 53077), (730, 53056), (748, 53017), (775, 52927), (779, 52909), (781, 52903), (785, 52888), (793, 52864), (795, 52849), (796, 52846), (799, 52834), (809, 52810), (816, 52789), (830, 52762), (840, 52738),

Gene: ChiliPepper_40 Start: 29968, Stop: 31839, Start Num: 182

Candidate Starts for ChiliPepper_40:

(Start: 182 @29968 has 49 MA's), (264, 30151), (283, 30190), (293, 30208), (318, 30280), (328, 30304), (331, 30316), (332, 30319), (361, 30400), (455, 30592), (476, 30640), (509, 30730), (564, 30871), (598, 30994), (611, 31054), (632, 31120), (635, 31135), (644, 31171), (647, 31180), (656, 31207), (680, 31300), (713, 31393), (747, 31471), (770, 31543), (778, 31582), (791, 31624), (804, 31678), (812, 31702), (820, 31723), (831, 31747),

Gene: ChipMunk_47 Start: 33204, Stop: 31417, Start Num: 191

Candidate Starts for ChipMunk_47:

(Start: 191 @33204 has 828 MA's), (272, 32997), (274, 32991), (283, 32976), (291, 32961), (308, 32925), (314, 32898), (326, 32871), (331, 32850), (355, 32769), (372, 32718), (420, 32625), (446, 32577), (451, 32568), (458, 32553), (484, 32487), (532, 32358), (534, 32352), (611, 32133), (625, 32082), (636, 32049), (637, 32046), (656, 31980), (666, 31941), (676, 31920), (701, 31845), (704, 31833), (726, 31782), (754, 31719), (760, 31701), (770, 31665), (775, 31641), (795, 31563), (812, 31506), (816, 31494), (820, 31485),

Gene: Chorkpop_60 Start: 54047, Stop: 52188, Start Num: 149

Candidate Starts for Chorkpop_60:

(Start: 133 @54071 has 1 MA's), (Start: 149 @54047 has 248 MA's), (Start: 174 @54023 has 5 MA's), (Start: 186 @54017 has 3 MA's), (205, 53975), (212, 53954), (254, 53840), (256, 53834), (269, 53804), (296, 53744), (306, 53723), (323, 53669), (327, 53657), (332, 53639), (335, 53627), (372, 53522), (389, 53465), (400, 53429), (402, 53417), (411, 53390), (421, 53363), (432, 53345), (442, 53327), (465, 53288), (469, 53279), (471, 53276), (576, 53018), (607, 52916), (612, 52883), (617, 52862), (647, 52769), (651, 52760), (668, 52697), (683, 52661), (685, 52658), (691, 52643), (717, 52565), (722, 52553), (730, 52532), (748, 52493), (775, 52403), (779, 52385), (781, 52379), (785, 52364), (793, 52340), (795, 52325), (796, 52322), (799, 52310), (809, 52286), (830, 52238), (840, 52214),

Gene: ChrisnMich_53 Start: 52982, Stop: 51141, Start Num: 128

Candidate Starts for ChrisnMich_53:

(Start: 128 @52982 has 3 MA's), (Start: 141 @52964 has 23 MA's), (Start: 186 @52940 has 3 MA's), (201, 52913), (205, 52898), (212, 52877), (246, 52790), (293, 52685), (310, 52643), (332, 52577), (341, 52547), (343, 52538), (347, 52535), (349, 52532), (389, 52412), (395, 52394), (400, 52376), (402, 52364), (407, 52349), (411, 52337), (469, 52226), (471, 52223), (483, 52193), (494, 52157), (589, 51932), (590, 51929), (601, 51893), (607, 51869), (612, 51836), (645, 51728), (647, 51722), (651, 51713), (683, 51614), (685, 51611), (691, 51596), (717, 51518), (722, 51506), (730, 51485), (733, 51476), (748, 51446), (768, 51389), (775, 51356), (779, 51338), (781, 51332), (793, 51293), (796, 51275), (799, 51263), (809, 51239), (826, 51197), (830, 51191), (840, 51167),

Gene: Chunky_59 Start: 53596, Stop: 51737, Start Num: 149

Candidate Starts for Chunky_59:

(Start: 133 @53620 has 1 MA's), (Start: 149 @53596 has 248 MA's), (Start: 174 @53572 has 5 MA's), (Start: 186 @53566 has 3 MA's), (205, 53524), (212, 53503), (254, 53389), (256, 53383), (269, 53353), (296, 53293), (306, 53272), (323, 53218), (327, 53206), (332, 53188), (335, 53176), (372, 53071), (389, 53014), (400, 52978), (402, 52966), (411, 52939), (414, 52930), (432, 52894), (465, 52837), (469, 52828), (471, 52825), (473, 52822), (607, 52465), (612, 52432), (617, 52411), (647, 52318), (651, 52309), (668, 52246), (683, 52210), (685, 52207), (691, 52192), (717, 52114), (722, 52102), (730, 52081), (748, 52042), (775, 51952), (779, 51934), (781, 51928), (785, 51913), (793, 51889), (795, 51874), (796, 51871), (799, 51859), (809, 51835), (830, 51787), (840, 51763),

Gene: Chupacabra_43 Start: 31120, Stop: 29285, Start Num: 191

Candidate Starts for Chupacabra_43:

(Start: 191 @31120 has 828 MA's), (209, 31069), (271, 30916), (283, 30892), (302, 30856), (307, 30844), (322, 30793), (326, 30787), (328, 30778), (351, 30694), (366, 30658), (368, 30646), (371, 30637), (372, 30634), (420, 30541), (448, 30493), (476, 30433), (484, 30406), (492, 30382), (522, 30304), (523, 30301), (532, 30280), (534, 30274), (566, 30208), (582, 30166), (611, 30043), (623, 29995), (646, 29920), (656, 29890), (666, 29851), (685, 29779), (698, 29740), (704, 29716), (706, 29710), (712, 29698), (756, 29590), (775, 29509), (781, 29485), (798, 29422), (812, 29374), (816, 29362), (820, 29353),

Gene: Chute_62 Start: 54608, Stop: 52749, Start Num: 149

Candidate Starts for Chute_62:

(Start: 133 @54632 has 1 MA's), (Start: 149 @54608 has 248 MA's), (Start: 174 @54584 has 5 MA's), (Start: 186 @54578 has 3 MA's), (205, 54536), (212, 54515), (254, 54401), (256, 54395), (269, 54365), (296, 54305), (306, 54284), (323, 54230), (327, 54218), (332, 54200), (335, 54188), (372, 54083), (389, 54026), (400, 53990), (402, 53978), (410, 53954), (414, 53942), (421, 53924), (432, 53906), (442, 53888), (465, 53849), (469, 53840), (471, 53837), (473, 53834), (607, 53477), (612, 53444), (617, 53423), (647, 53330), (651, 53321), (668, 53258), (683, 53222), (685, 53219), (691, 53204), (717, 53126), (722, 53114), (730, 53093), (748, 53054), (775, 52964), (779, 52946), (781, 52940), (785, 52925), (793, 52901), (795, 52886), (796, 52883), (799, 52871), (809, 52847), (830, 52799), (840, 52775),

Gene: Ciao_45 Start: 34751, Stop: 32964, Start Num: 191

Candidate Starts for Ciao_45:

(Start: 191 @34751 has 828 MA's), (274, 34538), (283, 34523), (307, 34475), (314, 34445), (322, 34424), (326, 34418), (328, 34409), (365, 34292), (372, 34265), (420, 34172), (428, 34157), (446, 34124), (470, 34073), (472, 34070), (494, 34004), (508, 33974), (518, 33944), (534, 33899), (556, 33860), (611, 33680), (623, 33632), (637, 33593), (656, 33527), (679, 33455), (683, 33446), (712, 33362), (750, 33275), (785, 33149), (789, 33137), (812, 33053), (814, 33047),

Gene: Cici_44 Start: 31537, Stop: 29708, Start Num: 191

Candidate Starts for Cici_44:

(Start: 191 @31537 has 828 MA's), (209, 31486), (221, 31456), (291, 31294), (300, 31276), (307, 31261), (326, 31204), (328, 31195), (366, 31075), (372, 31051), (401, 31009), (420, 30958), (448, 30910), (458, 30889), (476, 30850), (490, 30805), (492, 30799), (523, 30718), (532, 30697), (556, 30652), (609, 30487), (611, 30466), (656, 30313), (666, 30274), (685, 30202), (691, 30187), (698, 30163), (702, 30145), (704, 30139), (706, 30133), (775, 29932), (812, 29797), (816, 29785), (820, 29776),

Gene: Cindaradix_42 Start: 31162, Stop: 29333, Start Num: 191

Candidate Starts for Cindaradix_42:

(Start: 191 @31162 has 828 MA's), (208, 31114), (271, 30958), (307, 30886), (326, 30829), (328, 30820), (366, 30700), (372, 30676), (420, 30583), (448, 30535), (458, 30514), (476, 30475), (490, 30430), (523, 30343), (526, 30334), (532, 30322), (556, 30277), (559, 30265), (611, 30091), (639, 29995), (646, 29968), (647, 29965), (656, 29938), (666, 29899), (683, 29830), (685, 29827), (691, 29812), (698, 29788), (704, 29764), (706, 29758), (775, 29557), (812, 29422), (816, 29410), (820, 29401),

Gene: Cintron_44 Start: 31550, Stop: 29724, Start Num: 191

Candidate Starts for Cintron_44:

(Start: 191 @31550 has 828 MA's), (208, 31502), (271, 31346), (307, 31274), (326, 31217), (328, 31208), (366, 31088), (372, 31064), (405, 31010), (420, 30971), (448, 30923), (458, 30902), (476, 30863), (490, 30818), (523, 30731), (526, 30722), (532, 30710), (556, 30665), (559, 30653), (609, 30500), (611, 30479), (646, 30356), (656, 30326), (666, 30287), (683, 30221), (685, 30218), (691, 30203), (698, 30179), (704, 30155), (775, 29948), (812, 29813), (816, 29801), (820, 29792),

Gene: Citius_45 Start: 31591, Stop: 29765, Start Num: 191

Candidate Starts for Citius_45:

(Start: 191 @31591 has 828 MA's), (201, 31570), (209, 31540), (221, 31510), (291, 31348), (300, 31330), (326, 31258), (328, 31249), (366, 31129), (372, 31105), (420, 31012), (448, 30964), (458, 30943), (476, 30904), (523, 30772), (532, 30751), (556, 30706), (559, 30694), (609, 30541), (611, 30520), (646, 30397), (656, 30367), (666, 30328), (683, 30262), (685, 30259), (691, 30244), (698, 30220), (704, 30196), (775, 29989), (812, 29854), (816, 29842), (820, 29833),

Gene: Clarenza_44 Start: 31567, Stop: 29741, Start Num: 191

Candidate Starts for Clarenza_44:

(Start: 191 @31567 has 828 MA's), (201, 31546), (209, 31516), (221, 31486), (291, 31324), (300, 31306), (326, 31234), (328, 31225), (366, 31105), (372, 31081), (420, 30988), (448, 30940), (458, 30919), (476, 30880), (523, 30748), (532, 30727), (556, 30682), (559, 30670), (609, 30517), (611, 30496), (646, 30373), (656, 30343), (666, 30304), (683, 30238), (685, 30235), (691, 30220), (698, 30196), (704, 30172), (775, 29965), (812, 29830), (816, 29818), (820, 29809),

Gene: Clayda5_41 Start: 27431, Stop: 29296, Start Num: 182

Candidate Starts for Clayda5_41:

(Start: 179 @27428 has 7 MA's), (Start: 182 @27431 has 49 MA's), (Start: 185 @27434 has 2 MA's), (216, 27503), (332, 27785), (340, 27812), (361, 27866), (441, 28031), (476, 28106), (483, 28127), (598, 28481), (611, 28541), (625, 28592), (644, 28658), (656, 28694), (680, 28787), (747, 28958), (770, 29030), (791, 29111), (811, 29186), (812, 29189), (820, 29210), (851, 29279),

Gene: CloudWang3_45 Start: 29424, Stop: 27583, Start Num: 191

Candidate Starts for CloudWang3_45:

(Start: 170 @29454 has 3 MA's), (Start: 191 @29424 has 828 MA's), (271, 29220), (307, 29145), (308, 29142), (314, 29115), (319, 29100), (326, 29088), (340, 29037), (368, 28947), (372, 28935), (420, 28842), (441, 28803), (451, 28785), (458, 28770), (484, 28704), (496, 28671), (498, 28668), (535, 28566), (565, 28506), (592, 28422), (611, 28341), (636, 28257), (637, 28254), (639, 28245), (646, 28218), (656, 28188), (676, 28128), (691, 28089), (770, 27873), (771, 27870), (775, 27849), (812, 27714), (816, 27702), (820, 27693), (821, 27690), (859, 27597),

Gene: CloverMinnie_53 Start: 47593, Stop: 45776, Start Num: 177

Candidate Starts for CloverMinnie_53:

(Start: 177 @47593 has 10 MA's), (Start: 186 @47584 has 3 MA's), (201, 47557), (204, 47545), (212, 47521), (216, 47512), (254, 47416), (272, 47374), (289, 47338), (316, 47263), (341, 47188), (372, 47110), (389, 47053), (400, 47017), (402, 47005), (410, 46981), (460, 46888), (471, 46864), (480, 46846), (589, 46573), (601, 46534), (608, 46504), (612, 46477), (645, 46369), (647, 46363), (651,

46354), (678, 46264), (683, 46255), (685, 46252), (691, 46237), (717, 46159), (722, 46147), (725, 46141), (730, 46126), (753, 46078), (768, 46030), (775, 45997), (781, 45973), (793, 45934), (795, 45919), (809, 45874), (840, 45802),

Gene: Cobra_62 Start: 54586, Stop: 52727, Start Num: 149

Candidate Starts for Cobra_62:

(Start: 133 @54610 has 1 MA's), (Start: 149 @54586 has 248 MA's), (Start: 174 @54562 has 5 MA's), (Start: 186 @54556 has 3 MA's), (205, 54514), (212, 54493), (254, 54379), (256, 54373), (269, 54343), (296, 54283), (306, 54262), (323, 54208), (327, 54196), (332, 54178), (335, 54166), (372, 54061), (389, 54004), (400, 53968), (410, 53932), (414, 53920), (421, 53902), (432, 53884), (442, 53866), (465, 53827), (469, 53818), (471, 53815), (473, 53812), (576, 53557), (607, 53455), (612, 53422), (617, 53401), (647, 53308), (651, 53299), (668, 53236), (683, 53200), (685, 53197), (691, 53182), (717, 53104), (722, 53092), (730, 53071), (748, 53032), (775, 52942), (779, 52924), (781, 52918), (785, 52903), (793, 52879), (795, 52864), (796, 52861), (799, 52849), (809, 52825), (830, 52777), (840, 52753),

Gene: Cocoaberry_45 Start: 31574, Stop: 29748, Start Num: 191

Candidate Starts for Cocoaberry_45:

(Start: 191 @31574 has 828 MA's), (201, 31553), (209, 31523), (221, 31493), (291, 31331), (300, 31313), (326, 31241), (328, 31232), (366, 31112), (372, 31088), (420, 30995), (448, 30947), (458, 30926), (476, 30887), (523, 30755), (532, 30734), (556, 30689), (559, 30677), (609, 30524), (611, 30503), (646, 30380), (656, 30350), (666, 30311), (683, 30245), (685, 30242), (691, 30227), (698, 30203), (704, 30179), (775, 29972), (812, 29837), (816, 29825), (820, 29816),

Gene: Coffee_57 Start: 52600, Stop: 50771, Start Num: 147

Candidate Starts for Coffee_57:

(Start: 147 @52600 has 31 MA's), (Start: 186 @52573 has 3 MA's), (202, 52543), (205, 52531), (215, 52504), (216, 52501), (221, 52492), (235, 52474), (272, 52378), (296, 52327), (307, 52303), (312, 52279), (358, 52141), (368, 52117), (372, 52105), (389, 52048), (400, 52012), (402, 52000), (410, 51976), (456, 51892), (469, 51862), (471, 51859), (483, 51829), (542, 51685), (565, 51619), (586, 51580), (589, 51568), (595, 51547), (601, 51529), (612, 51472), (633, 51415), (639, 51388), (647, 51358), (651, 51349), (668, 51283), (679, 51256), (683, 51247), (691, 51229), (698, 51205), (717, 51151), (722, 51139), (730, 51118), (760, 51049), (775, 50989), (779, 50971), (789, 50938), (793, 50926), (795, 50911), (796, 50908), (799, 50896), (809, 50872), (810, 50869), (830, 50821), (832, 50818), (840, 50797), (847, 50776),

Gene: Colbert_59 Start: 53606, Stop: 51747, Start Num: 149

Candidate Starts for Colbert_59:

(Start: 133 @53630 has 1 MA's), (Start: 149 @53606 has 248 MA's), (Start: 174 @53582 has 5 MA's), (Start: 186 @53576 has 3 MA's), (205, 53534), (212, 53513), (254, 53399), (256, 53393), (269, 53363), (296, 53303), (306, 53282), (323, 53228), (327, 53216), (332, 53198), (335, 53186), (372, 53081), (389, 53024), (400, 52988), (402, 52976), (411, 52949), (421, 52922), (432, 52904), (442, 52886), (465, 52847), (469, 52838), (471, 52835), (473, 52832), (607, 52475), (612, 52442), (617, 52421), (647, 52328), (651, 52319), (668, 52256), (683, 52220), (685, 52217), (691, 52202), (717, 52124), (722, 52112), (730, 52091), (748, 52052), (775, 51962), (779, 51944), (781, 51938), (785, 51923), (793, 51899), (795, 51884), (796, 51881), (799, 51869), (809, 51845), (830, 51797), (840, 51773),

Gene: Colbster_48 Start: 31856, Stop: 30042, Start Num: 191

Candidate Starts for Colbster_48:

(Start: 191 @31856 has 828 MA's), (206, 31817), (209, 31805), (271, 31652), (276, 31637), (307, 31580), (326, 31523), (328, 31514), (340, 31472), (355, 31421), (372, 31370), (420, 31277), (446, 31229), (451, 31220), (458, 31205), (476, 31166), (484, 31139), (494, 31109), (528, 31016), (558,

30956), (565, 30941), (611, 30785), (637, 30698), (656, 30632), (666, 30593), (685, 30521), (698, 30482), (704, 30458), (712, 30440), (726, 30407), (737, 30380), (760, 30326), (775, 30266), (795, 30188), (812, 30131), (816, 30119), (820, 30110),

Gene: Coletti_63 Start: 55108, Stop: 53249, Start Num: 149

Candidate Starts for Coletti_63:

(Start: 133 @55132 has 1 MA's), (Start: 149 @55108 has 248 MA's), (Start: 174 @55084 has 5 MA's), (Start: 186 @55078 has 3 MA's), (205, 55036), (212, 55015), (254, 54901), (256, 54895), (269, 54865), (296, 54805), (306, 54784), (323, 54730), (327, 54718), (332, 54700), (335, 54688), (372, 54583), (389, 54526), (400, 54490), (402, 54478), (410, 54454), (414, 54442), (421, 54424), (432, 54406), (442, 54388), (465, 54349), (469, 54340), (471, 54337), (473, 54334), (607, 53977), (612, 53944), (617, 53923), (647, 53830), (651, 53821), (668, 53758), (683, 53722), (685, 53719), (691, 53704), (717, 53626), (722, 53614), (730, 53593), (748, 53554), (775, 53464), (779, 53446), (781, 53440), (785, 53425), (793, 53401), (795, 53386), (796, 53383), (799, 53371), (809, 53347), (830, 53299), (840, 53275),

Gene: Colin_46 Start: 32075, Stop: 30288, Start Num: 191

Candidate Starts for Colin_46:

(Start: 191 @32075 has 828 MA's), (272, 31868), (274, 31862), (291, 31832), (308, 31796), (314, 31769), (326, 31742), (331, 31721), (372, 31589), (420, 31496), (446, 31448), (451, 31439), (458, 31424), (484, 31358), (515, 31277), (532, 31229), (611, 31004), (625, 30953), (636, 30920), (637, 30917), (656, 30851), (666, 30812), (676, 30791), (701, 30716), (704, 30704), (754, 30590), (768, 30545), (770, 30536), (775, 30512), (791, 30455), (795, 30434), (812, 30377), (816, 30365),

Gene: Coltrane_40 Start: 27441, Stop: 29309, Start Num: 179

Candidate Starts for Coltrane_40:

(Start: 179 @27441 has 7 MA's), (Start: 182 @27444 has 49 MA's), (Start: 185 @27447 has 2 MA's), (216, 27516), (340, 27825), (361, 27879), (441, 28044), (476, 28119), (483, 28140), (598, 28494), (611, 28554), (625, 28605), (644, 28671), (656, 28707), (680, 28800), (747, 28971), (770, 29043), (791, 29124), (811, 29199), (812, 29202), (820, 29223), (851, 29292),

Gene: Commander_45 Start: 31569, Stop: 29743, Start Num: 191

Candidate Starts for Commander_45:

(Start: 191 @31569 has 828 MA's), (201, 31548), (209, 31518), (221, 31488), (291, 31326), (300, 31308), (326, 31236), (328, 31227), (366, 31107), (372, 31083), (420, 30990), (448, 30942), (458, 30921), (476, 30882), (523, 30750), (532, 30729), (556, 30684), (559, 30672), (609, 30519), (611, 30498), (646, 30375), (656, 30345), (666, 30306), (683, 30240), (685, 30237), (691, 30222), (698, 30198), (704, 30174), (775, 29967), (812, 29832), (816, 29820), (820, 29811),

Gene: Community_43 Start: 31334, Stop: 33199, Start Num: 191

Candidate Starts for Community_43:

(Start: 191 @31334 has 828 MA's), (208, 31382), (293, 31571), (314, 31631), (343, 31721), (423, 31928), (472, 32027), (476, 32036), (481, 32051), (484, 32063), (515, 32141), (532, 32189), (559, 32246), (583, 32327), (611, 32447), (618, 32477), (637, 32534), (656, 32600), (680, 32693), (704, 32765), (752, 32873), (770, 32936), (812, 33095), (815, 33104), (850, 33182),

Gene: Compostia_58 Start: 54083, Stop: 52266, Start Num: 183

Candidate Starts for Compostia_58:

(80, 54266), (Start: 183 @54083 has 42 MA's), (201, 54053), (274, 53873), (331, 53720), (334, 53708), (343, 53678), (349, 53672), (372, 53609), (375, 53603), (389, 53552), (398, 53525), (400, 53516), (414, 53468), (471, 53363), (510, 53267), (533, 53216), (589, 53072), (601, 53033), (608, 53003), (612, 52976), (616, 52964), (645, 52868), (647, 52862), (651, 52853), (655, 52841), (674, 52769), (683, 52739), (691, 52721), (694, 52712), (717, 52643), (722, 52631), (730, 52610), (760,

52541), (765, 52526), (771, 52502), (775, 52481), (779, 52463), (781, 52457), (791, 52424), (793, 52418), (796, 52400), (799, 52388), (805, 52376), (809, 52364), (826, 52322), (840, 52292),

Gene: Conceptll_46 Start: 35338, Stop: 33512, Start Num: 191

Candidate Starts for Conceptll_46:

(Start: 191 @35338 has 828 MA's), (274, 35125), (307, 35062), (314, 35032), (322, 35011), (326, 35005), (328, 34996), (365, 34879), (372, 34852), (420, 34759), (428, 34744), (446, 34711), (470, 34660), (472, 34657), (494, 34591), (508, 34561), (518, 34531), (534, 34486), (556, 34447), (611, 34267), (623, 34219), (637, 34180), (656, 34114), (666, 34075), (676, 34054), (683, 34033), (691, 34015), (712, 33949), (770, 33799), (771, 33796), (778, 33760), (785, 33736), (788, 33727), (792, 33715), (812, 33640), (820, 33619),

Gene: Connomayer_45 Start: 31570, Stop: 29744, Start Num: 191

Candidate Starts for Connomayer_45:

(Start: 191 @31570 has 828 MA's), (201, 31549), (209, 31519), (221, 31489), (291, 31327), (300, 31309), (326, 31237), (328, 31228), (366, 31108), (372, 31084), (420, 30991), (448, 30943), (458, 30922), (476, 30883), (523, 30751), (532, 30730), (556, 30685), (559, 30673), (609, 30520), (611, 30499), (646, 30376), (656, 30346), (666, 30307), (683, 30241), (685, 30238), (691, 30223), (698, 30199), (704, 30175), (775, 29968), (812, 29833), (816, 29821), (820, 29812),

Gene: Conquerage_45 Start: 31513, Stop: 29720, Start Num: 191

Candidate Starts for Conquerage_45:

(Start: 191 @31513 has 828 MA's), (196, 31504), (209, 31462), (261, 31342), (262, 31339), (279, 31291), (308, 31231), (315, 31201), (319, 31189), (326, 31177), (372, 31024), (420, 30931), (484, 30793), (494, 30763), (559, 30604), (565, 30592), (579, 30565), (609, 30457), (611, 30436), (651, 30301), (656, 30283), (683, 30202), (698, 30160), (726, 30085), (733, 30064), (758, 30010), (770, 29968), (795, 29866), (812, 29809), (816, 29797), (820, 29788),

Gene: Conspiracy_38 Start: 30346, Stop: 28502, Start Num: 191

Candidate Starts for Conspiracy_38:

(Start: 191 @30346 has 828 MA's), (209, 30295), (235, 30235), (262, 30172), (271, 30142), (272, 30139), (302, 30082), (307, 30070), (314, 30040), (326, 30013), (355, 29911), (361, 29896), (372, 29860), (407, 29800), (420, 29764), (446, 29716), (483, 29632), (484, 29626), (513, 29554), (523, 29521), (528, 29506), (534, 29494), (576, 29395), (611, 29260), (618, 29230), (623, 29212), (625, 29209), (637, 29173), (639, 29164), (644, 29143), (647, 29134), (656, 29107), (657, 29104), (676, 29047), (683, 29026), (726, 28909), (750, 28855), (754, 28846), (760, 28828), (779, 28750), (794, 28693), (804, 28657), (812, 28633), (816, 28621),

Gene: Coog_38 Start: 30444, Stop: 28579, Start Num: 191

Candidate Starts for Coog_38:

(Start: 191 @30444 has 828 MA's), (209, 30393), (235, 30333), (262, 30270), (271, 30240), (272, 30237), (302, 30180), (307, 30168), (314, 30138), (326, 30111), (372, 29958), (420, 29862), (446, 29814), (483, 29730), (484, 29724), (496, 29691), (513, 29652), (523, 29619), (528, 29604), (534, 29592), (576, 29493), (611, 29358), (618, 29328), (623, 29310), (625, 29307), (637, 29271), (639, 29262), (646, 29235), (656, 29205), (666, 29166), (683, 29124), (691, 29106), (704, 29058), (726, 29007), (750, 28953), (754, 28944), (760, 28926), (775, 28866), (779, 28848), (804, 28755), (812, 28731), (816, 28719), (859, 28614),

Gene: Cookiedough_45 Start: 29639, Stop: 27798, Start Num: 191

Candidate Starts for Cookiedough_45:

(Start: 191 @29639 has 828 MA's), (271, 29435), (307, 29360), (308, 29357), (314, 29330), (319, 29315), (326, 29303), (340, 29252), (368, 29162), (372, 29150), (420, 29057), (441, 29018), (451, 29000), (458, 28985), (484, 28919), (496, 28886), (498, 28883), (535, 28781), (565, 28721), (592,

(28637), (611, 28556), (636, 28472), (637, 28469), (639, 28460), (646, 28433), (656, 28403), (676, 28343), (691, 28304), (770, 28088), (771, 28085), (775, 28064), (812, 27929), (816, 27917), (820, 27908), (821, 27905), (859, 27812),

Gene: Cooper_54 Start: 53229, Stop: 51376, Start Num: 141

Candidate Starts for Cooper_54:

(28, 53559), (55, 53439), (Start: 128 @53247 has 3 MA's), (Start: 141 @53229 has 23 MA's), (Start: 172 @53184 has 1 MA's), (Start: 186 @53175 has 3 MA's), (201, 53148), (205, 53133), (212, 53112), (246, 53025), (254, 53007), (293, 52920), (306, 52893), (310, 52878), (332, 52812), (341, 52782), (343, 52773), (347, 52770), (349, 52767), (358, 52740), (389, 52647), (395, 52629), (400, 52611), (402, 52599), (411, 52572), (465, 52470), (469, 52461), (471, 52458), (483, 52428), (589, 52167), (590, 52164), (601, 52128), (607, 52104), (612, 52071), (645, 51963), (647, 51957), (651, 51948), (683, 51849), (691, 51831), (717, 51753), (722, 51741), (730, 51720), (733, 51711), (760, 51651), (768, 51624), (775, 51591), (779, 51573), (781, 51567), (793, 51528), (795, 51513), (796, 51510), (799, 51498), (809, 51474), (826, 51432), (830, 51426), (840, 51402), (847, 51381),

Gene: Cornobble_60 Start: 54040, Stop: 52181, Start Num: 149

Candidate Starts for Cornobble_60:

(Start: 133 @54064 has 1 MA's), (Start: 149 @54040 has 248 MA's), (Start: 174 @54016 has 5 MA's), (Start: 186 @54010 has 3 MA's), (205, 53968), (212, 53947), (254, 53833), (256, 53827), (269, 53797), (296, 53737), (306, 53716), (323, 53662), (327, 53650), (332, 53632), (335, 53620), (372, 53515), (389, 53458), (400, 53422), (402, 53410), (410, 53386), (414, 53374), (421, 53356), (432, 53338), (442, 53320), (465, 53281), (469, 53272), (471, 53269), (473, 53266), (607, 52909), (612, 52876), (617, 52855), (647, 52762), (651, 52753), (668, 52690), (683, 52654), (685, 52651), (691, 52636), (717, 52558), (722, 52546), (730, 52525), (748, 52486), (775, 52396), (779, 52378), (781, 52372), (785, 52357), (793, 52333), (795, 52318), (796, 52315), (799, 52303), (809, 52279), (830, 52231), (840, 52207),

Gene: Corofin_58 Start: 53707, Stop: 51890, Start Num: 183

Candidate Starts for Corofin_58:

(80, 53890), (Start: 183 @53707 has 42 MA's), (201, 53677), (274, 53497), (331, 53344), (334, 53332), (343, 53302), (349, 53296), (372, 53233), (375, 53227), (389, 53176), (400, 53140), (414, 53092), (471, 52987), (510, 52891), (533, 52840), (589, 52696), (601, 52657), (608, 52627), (612, 52600), (616, 52588), (645, 52492), (647, 52486), (651, 52477), (655, 52465), (674, 52393), (683, 52363), (691, 52345), (694, 52336), (717, 52267), (722, 52255), (730, 52234), (760, 52165), (765, 52150), (771, 52126), (775, 52105), (779, 52087), (781, 52081), (791, 52048), (793, 52042), (796, 52024), (799, 52012), (805, 52000), (809, 51988), (826, 51946), (840, 51916),

Gene: Corvo_45 Start: 35201, Stop: 33375, Start Num: 191

Candidate Starts for Corvo_45:

(Start: 191 @35201 has 828 MA's), (274, 34988), (283, 34973), (314, 34895), (322, 34874), (326, 34868), (328, 34859), (365, 34742), (372, 34715), (420, 34622), (428, 34607), (439, 34586), (446, 34574), (470, 34523), (472, 34520), (494, 34454), (508, 34424), (518, 34394), (534, 34349), (556, 34310), (611, 34130), (623, 34082), (637, 34043), (656, 33977), (666, 33938), (676, 33917), (683, 33896), (691, 33878), (712, 33812), (770, 33662), (771, 33659), (778, 33623), (785, 33599), (788, 33590), (792, 33578), (812, 33503), (820, 33482),

Gene: CosmicSans_36 Start: 28113, Stop: 26329, Start Num: 191

Candidate Starts for CosmicSans_36:

(Start: 191 @28113 has 828 MA's), (288, 27879), (302, 27849), (306, 27840), (307, 27837), (319, 27792), (326, 27780), (340, 27729), (372, 27627), (380, 27606), (420, 27534), (444, 27489), (446, 27486), (466, 27444), (468, 27438), (476, 27423), (484, 27396), (523, 27291), (526, 27282), (534, 27264), (535, 27261), (556, 27225), (611, 27045), (623, 26997), (656, 26892), (657, 26889), (676,

26832), (683, 26811), (700, 26763), (727, 26688), (758, 26619), (770, 26577), (775, 26553), (795, 26475), (812, 26418), (816, 26406), (820, 26397), (834, 26367), (839, 26349),

Gene: Cosmolli16_61 Start: 54750, Stop: 52891, Start Num: 149

Candidate Starts for Cosmolli16_61:

(Start: 133 @54774 has 1 MA's), (Start: 149 @54750 has 248 MA's), (Start: 174 @54726 has 5 MA's), (Start: 186 @54720 has 3 MA's), (205, 54678), (212, 54657), (254, 54543), (256, 54537), (269, 54507), (296, 54447), (306, 54426), (323, 54372), (327, 54360), (332, 54342), (335, 54330), (372, 54225), (389, 54168), (400, 54132), (402, 54120), (411, 54093), (432, 54048), (442, 54030), (465, 53991), (469, 53982), (471, 53979), (473, 53976), (607, 53619), (612, 53586), (617, 53565), (647, 53472), (651, 53463), (668, 53400), (683, 53364), (685, 53361), (691, 53346), (717, 53268), (722, 53256), (730, 53235), (748, 53196), (775, 53106), (779, 53088), (781, 53082), (785, 53067), (793, 53043), (795, 53028), (796, 53025), (799, 53013), (809, 52989), (830, 52941), (840, 52917),

Gene: Craff_63 Start: 54995, Stop: 53136, Start Num: 149

Candidate Starts for Craff_63:

(Start: 133 @55019 has 1 MA's), (Start: 149 @54995 has 248 MA's), (Start: 174 @54971 has 5 MA's), (Start: 186 @54965 has 3 MA's), (205, 54923), (212, 54902), (254, 54788), (256, 54782), (269, 54752), (296, 54692), (306, 54671), (323, 54617), (327, 54605), (332, 54587), (335, 54575), (372, 54470), (389, 54413), (400, 54377), (402, 54365), (411, 54338), (421, 54311), (432, 54293), (442, 54275), (465, 54236), (469, 54227), (471, 54224), (607, 53864), (612, 53831), (617, 53810), (647, 53717), (651, 53708), (668, 53645), (685, 53606), (691, 53591), (717, 53513), (722, 53501), (730, 53480), (748, 53441), (771, 53372), (775, 53351), (779, 53333), (781, 53327), (785, 53312), (793, 53288), (795, 53273), (796, 53270), (799, 53258), (809, 53234), (830, 53186), (840, 53162),

Gene: Crewmate_46 Start: 30025, Stop: 31890, Start Num: 191

Candidate Starts for Crewmate_46:

(Start: 191 @30025 has 828 MA's), (208, 30073), (274, 30238), (290, 30256), (314, 30322), (322, 30343), (428, 30628), (476, 30727), (481, 30742), (484, 30754), (515, 30832), (532, 30880), (559, 30937), (583, 31018), (611, 31138), (637, 31225), (654, 31282), (656, 31291), (752, 31564), (812, 31786),

Gene: Crispicous1_43 Start: 33950, Stop: 32124, Start Num: 191

Candidate Starts for Crispicous1_43:

(Start: 191 @33950 has 828 MA's), (274, 33737), (283, 33722), (307, 33674), (314, 33644), (322, 33623), (326, 33617), (328, 33608), (365, 33491), (372, 33464), (420, 33371), (428, 33356), (446, 33323), (470, 33272), (472, 33269), (494, 33203), (508, 33173), (518, 33143), (534, 33098), (556, 33059), (611, 32879), (623, 32831), (637, 32792), (656, 32726), (666, 32687), (676, 32666), (683, 32645), (691, 32627), (712, 32561), (770, 32411), (771, 32408), (778, 32372), (785, 32348), (788, 32339), (792, 32327), (798, 32300), (812, 32252), (820, 32231),

Gene: CroZenni_42 Start: 29399, Stop: 31273, Start Num: 182

Candidate Starts for CroZenni_42:

(Start: 182 @29399 has 49 MA's), (216, 29468), (224, 29489), (283, 29621), (328, 29735), (332, 29750), (340, 29777), (476, 30071), (564, 30305), (598, 30428), (611, 30488), (614, 30494), (625, 30539), (632, 30554), (635, 30569), (644, 30605), (656, 30641), (680, 30734), (713, 30827), (747, 30905), (770, 30977), (778, 31016), (791, 31058), (794, 31076), (804, 31112), (812, 31136), (820, 31157),

Gene: Crownjwl_60 Start: 54069, Stop: 52210, Start Num: 149

Candidate Starts for Crownjwl_60:

(Start: 133 @54093 has 1 MA's), (Start: 149 @54069 has 248 MA's), (Start: 174 @54045 has 5 MA's), (Start: 186 @54039 has 3 MA's), (205, 53997), (212, 53976), (254, 53862), (256, 53856), (269,

53826), (296, 53766), (306, 53745), (323, 53691), (327, 53679), (332, 53661), (335, 53649), (372, 53544), (389, 53487), (400, 53451), (402, 53439), (410, 53415), (414, 53403), (421, 53385), (432, 53367), (465, 53310), (469, 53301), (471, 53298), (473, 53295), (576, 53040), (607, 52938), (612, 52905), (617, 52884), (647, 52791), (651, 52782), (668, 52719), (683, 52683), (685, 52680), (691, 52665), (717, 52587), (722, 52575), (730, 52554), (748, 52515), (775, 52425), (779, 52407), (781, 52401), (785, 52386), (793, 52362), (795, 52347), (796, 52344), (799, 52332), (809, 52308), (830, 52260), (840, 52236),

Gene: Crucio_44 Start: 31285, Stop: 29498, Start Num: 191

Candidate Starts for Crucio_44:

(61, 31540), (Start: 191 @31285 has 828 MA's), (271, 31081), (272, 31078), (274, 31072), (283, 31057), (291, 31042), (307, 31009), (308, 31006), (314, 30979), (326, 30952), (331, 30931), (340, 30901), (372, 30799), (420, 30706), (446, 30658), (451, 30649), (458, 30634), (484, 30568), (515, 30487), (532, 30439), (534, 30433), (565, 30370), (592, 30295), (611, 30214), (625, 30163), (636, 30130), (637, 30127), (656, 30061), (666, 30022), (676, 30001), (701, 29926), (706, 29908), (726, 29863), (737, 29836), (754, 29800), (758, 29788), (760, 29782), (770, 29746), (775, 29722), (795, 29644), (812, 29587), (816, 29575), (820, 29566),

Gene: Cuco_38 Start: 30397, Stop: 28532, Start Num: 191

Candidate Starts for Cuco_38:

(Start: 191 @30397 has 828 MA's), (209, 30346), (235, 30286), (262, 30223), (271, 30193), (272, 30190), (302, 30133), (307, 30121), (314, 30091), (326, 30064), (372, 29911), (420, 29815), (446, 29767), (483, 29683), (484, 29677), (496, 29644), (513, 29605), (528, 29557), (534, 29545), (576, 29446), (611, 29311), (618, 29281), (623, 29263), (632, 29245), (637, 29224), (639, 29215), (646, 29188), (656, 29158), (666, 29119), (683, 29077), (691, 29059), (704, 29011), (726, 28960), (750, 28906), (754, 28897), (760, 28879), (775, 28819), (779, 28801), (804, 28708), (812, 28684), (816, 28672), (859, 28567),

Gene: Cueyllyss_46 Start: 36237, Stop: 34411, Start Num: 191

Candidate Starts for Cueyllyss_46:

(Start: 191 @36237 has 828 MA's), (274, 36024), (283, 36009), (314, 35931), (322, 35910), (326, 35904), (328, 35895), (365, 35778), (372, 35751), (420, 35658), (428, 35643), (470, 35559), (472, 35556), (494, 35490), (508, 35460), (518, 35430), (534, 35385), (556, 35346), (611, 35166), (618, 35136), (623, 35118), (625, 35115), (637, 35079), (656, 35013), (683, 34932), (685, 34929), (712, 34848), (770, 34698), (771, 34695), (778, 34659), (785, 34635), (788, 34626), (792, 34614), (795, 34596), (798, 34587), (812, 34539), (820, 34518),

Gene: Cullens_48 Start: 31852, Stop: 30038, Start Num: 191

Candidate Starts for Cullens_48:

(Start: 191 @31852 has 828 MA's), (206, 31813), (209, 31801), (271, 31648), (276, 31633), (307, 31576), (326, 31519), (328, 31510), (340, 31468), (355, 31417), (372, 31366), (420, 31273), (446, 31225), (451, 31216), (458, 31201), (476, 31162), (484, 31135), (494, 31105), (528, 31012), (558, 30952), (565, 30937), (611, 30781), (637, 30694), (656, 30628), (666, 30589), (685, 30517), (698, 30478), (704, 30454), (712, 30436), (726, 30403), (737, 30376), (760, 30322), (775, 30262), (795, 30184), (812, 30127), (816, 30115), (820, 30106),

Gene: Cyan_40 Start: 29677, Stop: 31542, Start Num: 191

Candidate Starts for Cyan_40:

(Start: 191 @29677 has 828 MA's), (208, 29725), (314, 29974), (343, 30064), (423, 30271), (428, 30280), (472, 30370), (476, 30379), (481, 30394), (496, 30439), (515, 30484), (532, 30532), (559, 30589), (583, 30670), (606, 30757), (611, 30790), (618, 30820), (637, 30877), (656, 30943), (680, 31036), (704, 31108), (752, 31216), (770, 31279), (775, 31303), (804, 31414), (812, 31438), (815, 31447),

Gene: D29_44 Start: 31153, Stop: 29330, Start Num: 191

Candidate Starts for D29_44:

(Start: 191 @31153 has 828 MA's), (271, 30949), (283, 30925), (291, 30907), (300, 30889), (307, 30874), (308, 30871), (314, 30844), (326, 30817), (340, 30766), (372, 30664), (420, 30571), (446, 30523), (451, 30514), (457, 30502), (458, 30499), (484, 30433), (508, 30373), (556, 30259), (565, 30235), (581, 30196), (611, 30070), (625, 30019), (637, 29983), (656, 29917), (666, 29878), (685, 29809), (698, 29770), (713, 29725), (726, 29695), (754, 29632), (760, 29614), (775, 29554), (812, 29419), (816, 29407), (820, 29398),

Gene: D32_47 Start: 31153, Stop: 29330, Start Num: 191

Candidate Starts for D32_47:

(Start: 191 @31153 has 828 MA's), (271, 30949), (283, 30925), (291, 30907), (300, 30889), (307, 30874), (308, 30871), (314, 30844), (326, 30817), (340, 30766), (372, 30664), (420, 30571), (446, 30523), (451, 30514), (457, 30502), (458, 30499), (484, 30433), (508, 30373), (556, 30259), (565, 30235), (581, 30196), (611, 30070), (625, 30019), (637, 29983), (656, 29917), (666, 29878), (685, 29809), (698, 29770), (713, 29725), (726, 29695), (754, 29632), (760, 29614), (775, 29554), (812, 29419), (816, 29407), (820, 29398),

Gene: DBQu4n_47 Start: 31153, Stop: 29330, Start Num: 191

Candidate Starts for DBQu4n_47:

(Start: 191 @31153 has 828 MA's), (271, 30949), (283, 30925), (291, 30907), (300, 30889), (307, 30874), (308, 30871), (314, 30844), (326, 30817), (340, 30766), (372, 30664), (420, 30571), (446, 30523), (451, 30514), (457, 30502), (458, 30499), (484, 30433), (508, 30373), (556, 30259), (565, 30235), (581, 30196), (611, 30070), (625, 30019), (637, 29983), (656, 29917), (666, 29878), (685, 29809), (698, 29770), (713, 29725), (726, 29695), (754, 29632), (758, 29620), (760, 29614), (775, 29554), (812, 29419), (816, 29407), (820, 29398),

Gene: DD5_44 Start: 35207, Stop: 33381, Start Num: 191

Candidate Starts for DD5_44:

(Start: 191 @35207 has 828 MA's), (274, 34994), (307, 34931), (314, 34901), (326, 34874), (328, 34865), (365, 34748), (372, 34721), (420, 34628), (428, 34613), (470, 34529), (472, 34526), (494, 34460), (508, 34430), (518, 34400), (534, 34355), (556, 34316), (611, 34136), (623, 34088), (637, 34049), (656, 33983), (666, 33944), (676, 33923), (683, 33902), (691, 33884), (712, 33818), (770, 33668), (771, 33665), (778, 33629), (788, 33596), (792, 33584), (812, 33509), (820, 33488),

Gene: DaHudson_48 Start: 31845, Stop: 30031, Start Num: 191

Candidate Starts for DaHudson_48:

(111, 31971), (Start: 191 @31845 has 828 MA's), (206, 31806), (209, 31794), (271, 31641), (276, 31626), (307, 31569), (326, 31512), (328, 31503), (340, 31461), (355, 31410), (372, 31359), (420, 31266), (446, 31218), (451, 31209), (458, 31194), (476, 31155), (484, 31128), (494, 31098), (528, 31005), (534, 30993), (558, 30945), (565, 30930), (611, 30774), (637, 30687), (656, 30621), (666, 30582), (685, 30510), (698, 30471), (704, 30447), (712, 30429), (726, 30396), (737, 30369), (760, 30315), (775, 30255), (795, 30177), (812, 30120), (816, 30108), (820, 30099),

Gene: DaVinci_45 Start: 29628, Stop: 27787, Start Num: 191

Candidate Starts for DaVinci_45:

(Start: 191 @29628 has 828 MA's), (271, 29424), (307, 29349), (308, 29346), (314, 29319), (319, 29304), (326, 29292), (340, 29241), (368, 29151), (372, 29139), (420, 29046), (441, 29007), (451, 28989), (458, 28974), (484, 28908), (496, 28875), (498, 28872), (535, 28770), (565, 28710), (592, 28626), (611, 28545), (636, 28461), (637, 28458), (639, 28449), (646, 28422), (656, 28392), (676, 28332), (691, 28293), (770, 28077), (771, 28074), (775, 28053), (812, 27918), (816, 27906), (820, 27897), (821, 27894), (859, 27801),

Gene: DaddyDaniels_62 Start: 54528, Stop: 52669, Start Num: 149

Candidate Starts for DaddyDaniels_62:

(Start: 133 @54552 has 1 MA's), (Start: 149 @54528 has 248 MA's), (Start: 174 @54504 has 5 MA's), (Start: 186 @54498 has 3 MA's), (205, 54456), (212, 54435), (254, 54321), (256, 54315), (269, 54285), (296, 54225), (306, 54204), (323, 54150), (327, 54138), (332, 54120), (335, 54108), (372, 54003), (389, 53946), (400, 53910), (402, 53898), (411, 53871), (421, 53844), (432, 53826), (442, 53808), (465, 53769), (469, 53760), (471, 53757), (576, 53499), (607, 53397), (612, 53364), (617, 53343), (647, 53250), (651, 53241), (668, 53178), (683, 53142), (685, 53139), (691, 53124), (717, 53046), (722, 53034), (730, 53013), (748, 52974), (775, 52884), (779, 52866), (781, 52860), (785, 52845), (793, 52821), (795, 52806), (796, 52803), (799, 52791), (809, 52767), (830, 52719), (840, 52695),

Gene: Daffy_60 Start: 54033, Stop: 52174, Start Num: 149

Candidate Starts for Daffy_60:

(Start: 133 @54057 has 1 MA's), (Start: 149 @54033 has 248 MA's), (Start: 174 @54009 has 5 MA's), (Start: 186 @54003 has 3 MA's), (205, 53961), (212, 53940), (254, 53826), (256, 53820), (269, 53790), (296, 53730), (306, 53709), (323, 53655), (327, 53643), (332, 53625), (335, 53613), (372, 53508), (389, 53451), (400, 53415), (402, 53403), (411, 53376), (432, 53331), (465, 53274), (469, 53265), (471, 53262), (607, 52902), (612, 52869), (617, 52848), (647, 52755), (651, 52746), (668, 52683), (683, 52647), (685, 52644), (691, 52629), (717, 52551), (722, 52539), (730, 52518), (748, 52479), (775, 52389), (779, 52371), (781, 52365), (785, 52350), (793, 52326), (795, 52311), (796, 52308), (799, 52296), (809, 52272), (830, 52224), (840, 52200),

Gene: Daishi_47 Start: 30725, Stop: 28911, Start Num: 191

Candidate Starts for Daishi_47:

(Start: 191 @30725 has 828 MA's), (206, 30686), (209, 30674), (271, 30521), (276, 30506), (307, 30449), (326, 30392), (328, 30383), (340, 30341), (355, 30290), (372, 30239), (405, 30185), (420, 30146), (446, 30098), (458, 30074), (476, 30035), (484, 30008), (494, 29978), (528, 29885), (534, 29873), (558, 29825), (565, 29810), (611, 29654), (625, 29603), (636, 29570), (637, 29567), (656, 29501), (666, 29462), (685, 29390), (698, 29351), (704, 29327), (712, 29309), (726, 29276), (760, 29195), (775, 29135), (798, 29048), (812, 29000), (816, 28988), (820, 28979), (821, 28976),

Gene: Daisy_57 Start: 53240, Stop: 51423, Start Num: 183

Candidate Starts for Daisy_57:

(80, 53423), (Start: 183 @53240 has 42 MA's), (201, 53210), (274, 53030), (331, 52877), (334, 52865), (343, 52835), (349, 52829), (372, 52766), (375, 52760), (389, 52709), (398, 52682), (400, 52673), (414, 52625), (471, 52520), (510, 52424), (533, 52373), (589, 52229), (601, 52190), (608, 52160), (612, 52133), (616, 52121), (645, 52025), (647, 52019), (651, 52010), (655, 51998), (674, 51926), (683, 51896), (691, 51878), (694, 51869), (717, 51800), (722, 51788), (730, 51767), (760, 51698), (765, 51683), (771, 51659), (775, 51638), (781, 51614), (791, 51581), (793, 51575), (796, 51557), (799, 51545), (805, 51533), (809, 51521), (826, 51479), (840, 51449),

Gene: Daka_63 Start: 54549, Stop: 52690, Start Num: 149

Candidate Starts for Daka_63:

(Start: 133 @54573 has 1 MA's), (Start: 149 @54549 has 248 MA's), (Start: 174 @54525 has 5 MA's), (Start: 186 @54519 has 3 MA's), (205, 54477), (212, 54456), (254, 54342), (256, 54336), (269, 54306), (296, 54246), (306, 54225), (323, 54171), (327, 54159), (332, 54141), (335, 54129), (372, 54024), (389, 53967), (400, 53931), (402, 53919), (411, 53892), (432, 53847), (465, 53790), (469, 53781), (471, 53778), (473, 53775), (607, 53418), (612, 53385), (617, 53364), (647, 53271), (651, 53262), (668, 53199), (683, 53163), (685, 53160), (691, 53145), (717, 53067), (722, 53055), (730, 53034), (748, 52995), (775, 52905), (779, 52887), (781, 52881), (785, 52866), (793, 52842), (795, 52827), (796, 52824), (799, 52812), (809, 52788), (816, 52767), (830, 52740), (840, 52716), (845,

52701),

Gene: Dalmatian_45 Start: 31678, Stop: 29891, Start Num: 191

Candidate Starts for Dalmatian_45:

(Start: 191 @31678 has 828 MA's), (271, 31474), (272, 31471), (274, 31465), (283, 31450), (291, 31435), (307, 31402), (308, 31399), (314, 31372), (326, 31345), (331, 31324), (372, 31192), (420, 31099), (439, 31063), (446, 31051), (451, 31042), (458, 31027), (484, 30961), (515, 30880), (532, 30832), (534, 30826), (565, 30763), (611, 30607), (625, 30556), (636, 30523), (637, 30520), (656, 30454), (666, 30415), (676, 30394), (701, 30319), (704, 30307), (754, 30193), (760, 30175), (770, 30139), (775, 30115), (795, 30037), (812, 29980), (816, 29968), (820, 29959),

Gene: Danforth_42 Start: 30571, Stop: 28727, Start Num: 191

Candidate Starts for Danforth_42:

(95, 30736), (Start: 191 @30571 has 828 MA's), (209, 30520), (262, 30397), (271, 30367), (291, 30328), (307, 30295), (314, 30265), (322, 30244), (326, 30238), (328, 30229), (355, 30136), (366, 30109), (372, 30085), (420, 29989), (426, 29977), (435, 29962), (446, 29941), (451, 29932), (476, 29878), (484, 29851), (502, 29803), (523, 29746), (534, 29719), (559, 29668), (566, 29653), (609, 29506), (611, 29485), (618, 29455), (623, 29437), (625, 29434), (632, 29419), (637, 29398), (639, 29389), (646, 29362), (651, 29350), (656, 29332), (683, 29251), (689, 29239), (704, 29185), (719, 29149), (750, 29080), (758, 29059), (760, 29053), (771, 29014), (775, 28993), (779, 28975), (812, 28858), (816, 28846),

Gene: Darrell_45 Start: 31850, Stop: 30057, Start Num: 191

Candidate Starts for Darrell_45:

(Start: 191 @31850 has 828 MA's), (196, 31841), (209, 31799), (235, 31739), (245, 31712), (261, 31679), (262, 31676), (271, 31646), (274, 31637), (280, 31628), (308, 31568), (315, 31538), (319, 31526), (326, 31514), (340, 31463), (372, 31361), (420, 31268), (483, 31136), (494, 31100), (565, 30929), (579, 30902), (582, 30896), (611, 30773), (639, 30677), (646, 30650), (656, 30620), (666, 30581), (679, 30548), (683, 30539), (698, 30497), (726, 30422), (733, 30401), (770, 30305), (791, 30224), (812, 30146), (816, 30134), (820, 30125),

Gene: DARTHPhader_42 Start: 32266, Stop: 30422, Start Num: 191

Candidate Starts for DARTHPhader_42:

(102, 32410), (115, 32383), (Start: 191 @32266 has 828 MA's), (235, 32155), (262, 32092), (271, 32062), (274, 32053), (291, 32020), (307, 31987), (314, 31957), (326, 31930), (331, 31909), (372, 31777), (420, 31684), (451, 31627), (458, 31612), (484, 31546), (502, 31498), (526, 31429), (565, 31348), (581, 31306), (592, 31261), (597, 31243), (611, 31180), (625, 31129), (637, 31093), (656, 31027), (666, 30988), (676, 30967), (683, 30946), (754, 30766), (770, 30712), (771, 30709), (775, 30688), (791, 30631), (795, 30610), (812, 30553), (816, 30541), (839, 30484),

Gene: Dati_60 Start: 54564, Stop: 52705, Start Num: 149

Candidate Starts for Dati_60:

(Start: 133 @54588 has 1 MA's), (Start: 149 @54564 has 248 MA's), (Start: 174 @54540 has 5 MA's), (Start: 186 @54534 has 3 MA's), (205, 54492), (212, 54471), (254, 54357), (256, 54351), (269, 54321), (296, 54261), (306, 54240), (323, 54186), (327, 54174), (332, 54156), (335, 54144), (372, 54039), (389, 53982), (400, 53946), (402, 53934), (410, 53910), (414, 53898), (421, 53880), (432, 53862), (442, 53844), (465, 53805), (469, 53796), (471, 53793), (473, 53790), (607, 53433), (612, 53400), (617, 53379), (647, 53286), (651, 53277), (668, 53214), (683, 53178), (685, 53175), (691, 53160), (717, 53082), (722, 53070), (730, 53049), (748, 53010), (775, 52920), (779, 52902), (781, 52896), (785, 52881), (793, 52857), (795, 52842), (796, 52839), (799, 52827), (809, 52803), (830, 52755), (840, 52731),

Gene: Datway_44 Start: 31508, Stop: 29679, Start Num: 191

Candidate Starts for Datway_44:

(Start: 191 @31508 has 828 MA's), (209, 31457), (221, 31427), (291, 31265), (300, 31247), (307, 31232), (326, 31175), (328, 31166), (366, 31046), (372, 31022), (401, 30980), (420, 30929), (448, 30881), (458, 30860), (476, 30821), (490, 30776), (492, 30770), (523, 30689), (532, 30668), (556, 30623), (609, 30458), (611, 30437), (656, 30284), (666, 30245), (685, 30173), (691, 30158), (698, 30134), (702, 30116), (704, 30110), (706, 30104), (775, 29903), (812, 29768), (816, 29756), (820, 29747),

Gene: Deano_44 Start: 31578, Stop: 29752, Start Num: 191

Candidate Starts for Deano_44:

(Start: 191 @31578 has 828 MA's), (201, 31557), (209, 31527), (221, 31497), (291, 31335), (300, 31317), (326, 31245), (328, 31236), (366, 31116), (372, 31092), (420, 30999), (448, 30951), (458, 30930), (476, 30891), (523, 30759), (532, 30738), (556, 30693), (559, 30681), (609, 30528), (611, 30507), (646, 30384), (656, 30354), (666, 30315), (683, 30249), (685, 30246), (691, 30231), (698, 30207), (704, 30183), (775, 29976), (812, 29841), (816, 29829), (820, 29820),

Gene: Deenasa_58 Start: 54545, Stop: 52728, Start Num: 183

Candidate Starts for Deenasa_58:

(80, 54728), (Start: 183 @54545 has 42 MA's), (201, 54515), (274, 54335), (331, 54182), (334, 54170), (343, 54140), (349, 54134), (372, 54071), (375, 54065), (389, 54014), (398, 53987), (400, 53978), (414, 53930), (471, 53825), (510, 53729), (533, 53678), (589, 53534), (601, 53495), (608, 53465), (612, 53438), (616, 53426), (645, 53330), (647, 53324), (651, 53315), (655, 53303), (674, 53231), (683, 53201), (691, 53183), (694, 53174), (717, 53105), (722, 53093), (730, 53072), (760, 53003), (765, 52988), (771, 52964), (779, 52925), (781, 52919), (793, 52880), (796, 52862), (799, 52850), (809, 52826), (840, 52754),

Gene: DekHockey33_47 Start: 30182, Stop: 28392, Start Num: 191

Candidate Starts for DekHockey33_47:

(Start: 191 @30182 has 828 MA's), (262, 30008), (307, 29903), (308, 29900), (314, 29873), (326, 29846), (340, 29795), (372, 29693), (420, 29600), (444, 29555), (446, 29552), (451, 29543), (515, 29381), (523, 29354), (532, 29333), (534, 29327), (583, 29228), (592, 29189), (607, 29138), (611, 29108), (625, 29057), (636, 29024), (644, 28991), (646, 28985), (656, 28955), (676, 28895), (683, 28874), (698, 28832), (705, 28805), (712, 28790), (750, 28703), (770, 28640), (771, 28637), (812, 28481), (816, 28469), (821, 28457),

Gene: DelRivs_59 Start: 54011, Stop: 52152, Start Num: 149

Candidate Starts for DelRivs_59:

(Start: 133 @54035 has 1 MA's), (Start: 149 @54011 has 248 MA's), (Start: 174 @53987 has 5 MA's), (Start: 186 @53981 has 3 MA's), (205, 53939), (212, 53918), (254, 53804), (256, 53798), (269, 53768), (296, 53708), (306, 53687), (323, 53633), (327, 53621), (332, 53603), (335, 53591), (372, 53486), (389, 53429), (400, 53393), (402, 53381), (410, 53357), (414, 53345), (421, 53327), (432, 53309), (442, 53291), (465, 53252), (469, 53243), (471, 53240), (473, 53237), (607, 52880), (612, 52847), (617, 52826), (647, 52733), (651, 52724), (668, 52661), (683, 52625), (685, 52622), (691, 52607), (717, 52529), (722, 52517), (730, 52496), (748, 52457), (775, 52367), (779, 52349), (781, 52343), (785, 52328), (793, 52304), (795, 52289), (796, 52286), (799, 52274), (809, 52250), (830, 52202), (840, 52178),

Gene: Deloris_43 Start: 30897, Stop: 29110, Start Num: 191

Candidate Starts for Deloris_43:

(Start: 191 @30897 has 828 MA's), (271, 30693), (272, 30690), (274, 30684), (283, 30669), (291, 30654), (307, 30621), (308, 30618), (314, 30591), (326, 30564), (331, 30543), (340, 30513), (372, 30411), (420, 30318), (425, 30309), (446, 30270), (451, 30261), (458, 30246), (484, 30180), (515, 30099), (532, 30051), (534, 30045), (592, 29907), (611, 29826), (625, 29775), (636, 29742), (637,

29739), (656, 29673), (666, 29634), (676, 29613), (701, 29538), (706, 29520), (726, 29475), (737, 29448), (754, 29412), (760, 29394), (770, 29358), (775, 29334), (791, 29277), (812, 29199), (816, 29187),

Gene: Derpp_60 Start: 54131, Stop: 52272, Start Num: 149

Candidate Starts for Derpp_60:

(Start: 133 @54155 has 1 MA's), (Start: 149 @54131 has 248 MA's), (Start: 174 @54107 has 5 MA's), (Start: 186 @54101 has 3 MA's), (205, 54059), (212, 54038), (254, 53924), (256, 53918), (269, 53888), (296, 53828), (306, 53807), (323, 53753), (327, 53741), (332, 53723), (335, 53711), (372, 53606), (389, 53549), (400, 53513), (402, 53501), (410, 53477), (414, 53465), (421, 53447), (432, 53429), (442, 53411), (465, 53372), (469, 53363), (471, 53360), (473, 53357), (576, 53102), (607, 53000), (612, 52967), (617, 52946), (647, 52853), (651, 52844), (668, 52781), (683, 52745), (685, 52742), (691, 52727), (717, 52649), (722, 52637), (730, 52616), (748, 52577), (775, 52487), (779, 52469), (781, 52463), (785, 52448), (793, 52424), (795, 52409), (796, 52406), (799, 52394), (809, 52370), (816, 52349), (830, 52322), (840, 52298), (845, 52283),

Gene: Devonte_57 Start: 53319, Stop: 51502, Start Num: 183

Candidate Starts for Devonte_57:

(80, 53502), (Start: 183 @53319 has 42 MA's), (201, 53289), (274, 53109), (331, 52956), (334, 52944), (343, 52914), (349, 52908), (372, 52845), (375, 52839), (389, 52788), (398, 52761), (400, 52752), (414, 52704), (471, 52599), (510, 52503), (533, 52452), (589, 52308), (601, 52269), (608, 52239), (612, 52212), (616, 52200), (645, 52104), (647, 52098), (651, 52089), (655, 52077), (674, 52005), (683, 51975), (691, 51957), (694, 51948), (717, 51879), (722, 51867), (730, 51846), (760, 51777), (765, 51762), (771, 51738), (775, 51717), (779, 51699), (781, 51693), (791, 51660), (793, 51654), (796, 51636), (799, 51624), (805, 51612), (809, 51600), (826, 51558), (840, 51528),

Gene: Dexes_45 Start: 35367, Stop: 33580, Start Num: 191

Candidate Starts for Dexes_45:

(Start: 191 @35367 has 828 MA's), (274, 35154), (283, 35139), (307, 35091), (314, 35061), (322, 35040), (326, 35034), (328, 35025), (365, 34908), (372, 34881), (420, 34788), (428, 34773), (446, 34740), (470, 34689), (472, 34686), (494, 34620), (508, 34590), (518, 34560), (534, 34515), (556, 34476), (611, 34296), (623, 34248), (625, 34245), (637, 34209), (656, 34143), (679, 34071), (683, 34062), (712, 33978), (750, 33891), (785, 33765), (789, 33753), (812, 33669), (814, 33663),

Gene: Dhanush_45 Start: 31573, Stop: 29747, Start Num: 191

Candidate Starts for Dhanush_45:

(Start: 191 @31573 has 828 MA's), (201, 31552), (209, 31522), (221, 31492), (291, 31330), (300, 31312), (326, 31240), (328, 31231), (366, 31111), (372, 31087), (420, 30994), (448, 30946), (458, 30925), (476, 30886), (523, 30754), (532, 30733), (556, 30688), (559, 30676), (609, 30523), (611, 30502), (646, 30379), (656, 30349), (666, 30310), (683, 30244), (685, 30241), (691, 30226), (698, 30202), (704, 30178), (775, 29971), (812, 29836), (816, 29824), (820, 29815),

Gene: Dice_62 Start: 54016, Stop: 52157, Start Num: 149

Candidate Starts for Dice_62:

(Start: 133 @54040 has 1 MA's), (Start: 149 @54016 has 248 MA's), (Start: 174 @53992 has 5 MA's), (Start: 186 @53986 has 3 MA's), (205, 53944), (212, 53923), (254, 53809), (256, 53803), (269, 53773), (296, 53713), (306, 53692), (323, 53638), (327, 53626), (332, 53608), (335, 53596), (372, 53491), (389, 53434), (400, 53398), (402, 53386), (411, 53359), (421, 53332), (432, 53314), (442, 53296), (465, 53257), (469, 53248), (471, 53245), (607, 52885), (612, 52852), (617, 52831), (647, 52738), (651, 52729), (668, 52666), (683, 52630), (685, 52627), (691, 52612), (717, 52534), (722, 52522), (730, 52501), (748, 52462), (775, 52372), (779, 52354), (781, 52348), (785, 52333), (793, 52309), (795, 52294), (796, 52291), (799, 52279), (809, 52255), (830, 52207), (840, 52183),

Gene: DickRichards_41 Start: 29838, Stop: 31712, Start Num: 182

Candidate Starts for DickRichards_41:

(Start: 182 @29838 has 49 MA's), (216, 29907), (224, 29928), (328, 30174), (332, 30189), (340, 30216), (476, 30510), (523, 30645), (564, 30744), (598, 30867), (611, 30927), (614, 30933), (625, 30978), (632, 30993), (635, 31008), (644, 31044), (656, 31080), (680, 31173), (713, 31266), (747, 31344), (770, 31416), (778, 31455), (791, 31497), (794, 31515), (804, 31551), (812, 31575), (820, 31596),

Gene: Didgeridoo_45 Start: 30205, Stop: 32079, Start Num: 182

Candidate Starts for Didgeridoo_45:

(Start: 182 @30205 has 49 MA's), (216, 30274), (224, 30295), (328, 30541), (332, 30556), (361, 30637), (476, 30877), (564, 31111), (597, 31231), (598, 31234), (611, 31294), (632, 31360), (635, 31375), (644, 31411), (656, 31447), (680, 31540), (747, 31711), (748, 31714), (770, 31783), (778, 31822), (791, 31864), (794, 31882), (804, 31918), (812, 31942), (820, 31963),

Gene: Dieselweasel_49 Start: 31855, Stop: 30041, Start Num: 191

Candidate Starts for Dieselweasel_49:

(Start: 191 @31855 has 828 MA's), (206, 31816), (209, 31804), (271, 31651), (276, 31636), (307, 31579), (326, 31522), (328, 31513), (340, 31471), (355, 31420), (372, 31369), (420, 31276), (446, 31228), (451, 31219), (458, 31204), (476, 31165), (484, 31138), (494, 31108), (528, 31015), (558, 30955), (565, 30940), (611, 30784), (637, 30697), (656, 30631), (666, 30592), (685, 30520), (698, 30481), (704, 30457), (712, 30439), (726, 30406), (737, 30379), (760, 30325), (775, 30265), (795, 30187), (812, 30130), (816, 30118), (820, 30109),

Gene: DigitDog_58 Start: 54425, Stop: 52578, Start Num: 136

Candidate Starts for DigitDog_58:

(Start: 9 @54914 has 1 MA's), (10, 54908), (16, 54857), (17, 54839), (34, 54701), (98, 54491), (136, 54425), (184, 54377), (201, 54350), (220, 54299), (273, 54179), (296, 54131), (332, 54029), (347, 53987), (363, 53951), (372, 53921), (400, 53828), (410, 53792), (414, 53780), (421, 53762), (471, 53675), (515, 53570), (559, 53447), (590, 53381), (595, 53363), (608, 53315), (612, 53288), (645, 53180), (647, 53174), (651, 53165), (657, 53144), (674, 53081), (685, 53048), (691, 53033), (710, 52973), (717, 52955), (722, 52943), (730, 52922), (733, 52913), (735, 52910), (742, 52898), (775, 52793), (779, 52775), (781, 52769), (793, 52730), (795, 52715), (796, 52712), (805, 52688), (809, 52676), (810, 52673), (840, 52604),

Gene: Dignity_46 Start: 31741, Stop: 29954, Start Num: 191

Candidate Starts for Dignity_46:

(Start: 191 @31741 has 828 MA's), (272, 31534), (274, 31528), (283, 31513), (291, 31498), (308, 31462), (314, 31435), (326, 31408), (331, 31387), (372, 31255), (420, 31162), (446, 31114), (451, 31105), (458, 31090), (484, 31024), (515, 30943), (532, 30895), (534, 30889), (611, 30670), (625, 30619), (636, 30586), (637, 30583), (656, 30517), (666, 30478), (676, 30457), (701, 30382), (704, 30370), (726, 30319), (754, 30256), (760, 30238), (770, 30202), (775, 30178), (795, 30100), (812, 30043), (816, 30031), (820, 30022),

Gene: Dinger_36 Start: 28097, Stop: 26313, Start Num: 191

Candidate Starts for Dinger_36:

(Start: 191 @28097 has 828 MA's), (261, 27926), (288, 27863), (306, 27824), (307, 27821), (319, 27776), (326, 27764), (328, 27755), (372, 27611), (420, 27518), (476, 27407), (484, 27380), (523, 27275), (534, 27248), (556, 27209), (611, 27029), (623, 26981), (656, 26876), (657, 26873), (676, 26816), (683, 26795), (700, 26747), (727, 26672), (758, 26603), (770, 26561), (771, 26558), (775, 26537), (778, 26522), (795, 26459), (812, 26402), (816, 26390), (834, 26351), (839, 26333),

Gene: Dingo_59 Start: 53575, Stop: 51716, Start Num: 149

Candidate Starts for Dingo_59:

(Start: 133 @53599 has 1 MA's), (Start: 149 @53575 has 248 MA's), (Start: 174 @53551 has 5 MA's), (Start: 186 @53545 has 3 MA's), (201, 53518), (205, 53503), (212, 53482), (254, 53368), (256, 53362), (269, 53332), (296, 53272), (306, 53251), (323, 53197), (327, 53185), (332, 53167), (335, 53155), (372, 53050), (389, 52993), (400, 52957), (402, 52945), (411, 52918), (414, 52909), (432, 52873), (465, 52816), (469, 52807), (471, 52804), (473, 52801), (607, 52444), (612, 52411), (617, 52390), (647, 52297), (651, 52288), (668, 52225), (683, 52189), (685, 52186), (691, 52171), (717, 52093), (722, 52081), (730, 52060), (748, 52021), (775, 51931), (779, 51913), (781, 51907), (785, 51892), (793, 51868), (795, 51853), (796, 51850), (799, 51838), (809, 51814), (830, 51766), (840, 51742),

Gene: Dione_58 Start: 53747, Stop: 51888, Start Num: 149

Candidate Starts for Dione_58:

(Start: 133 @53771 has 1 MA's), (Start: 149 @53747 has 248 MA's), (Start: 174 @53723 has 5 MA's), (Start: 186 @53717 has 3 MA's), (205, 53675), (212, 53654), (254, 53540), (256, 53534), (269, 53504), (296, 53444), (306, 53423), (323, 53369), (327, 53357), (332, 53339), (335, 53327), (372, 53222), (389, 53165), (400, 53129), (402, 53117), (410, 53093), (414, 53081), (421, 53063), (432, 53045), (442, 53027), (465, 52988), (469, 52979), (471, 52976), (473, 52973), (607, 52616), (612, 52583), (617, 52562), (647, 52469), (651, 52460), (668, 52397), (683, 52361), (685, 52358), (691, 52343), (717, 52265), (722, 52253), (730, 52232), (748, 52193), (775, 52103), (779, 52085), (781, 52079), (785, 52064), (793, 52040), (795, 52025), (796, 52022), (799, 52010), (809, 51986), (830, 51938), (840, 51914),

Gene: DirtJuice_61 Start: 54337, Stop: 52478, Start Num: 149

Candidate Starts for DirtJuice_61:

(Start: 133 @54361 has 1 MA's), (Start: 149 @54337 has 248 MA's), (Start: 174 @54313 has 5 MA's), (Start: 186 @54307 has 3 MA's), (205, 54265), (212, 54244), (254, 54130), (256, 54124), (269, 54094), (296, 54034), (306, 54013), (323, 53959), (327, 53947), (332, 53929), (335, 53917), (372, 53812), (389, 53755), (400, 53719), (402, 53707), (410, 53683), (414, 53671), (421, 53653), (432, 53635), (442, 53617), (465, 53578), (469, 53569), (471, 53566), (473, 53563), (576, 53308), (607, 53206), (612, 53173), (617, 53152), (647, 53059), (651, 53050), (668, 52987), (685, 52948), (691, 52933), (717, 52855), (722, 52843), (730, 52822), (748, 52783), (775, 52693), (779, 52675), (781, 52669), (785, 52654), (793, 52630), (795, 52615), (796, 52612), (799, 52600), (809, 52576), (830, 52528), (840, 52504),

Gene: DirtyBubble_42 Start: 30299, Stop: 32173, Start Num: 182

Candidate Starts for DirtyBubble_42:

(Start: 182 @30299 has 49 MA's), (216, 30368), (224, 30389), (328, 30635), (332, 30650), (340, 30677), (438, 30890), (446, 30905), (476, 30971), (564, 31205), (597, 31325), (598, 31328), (611, 31388), (614, 31394), (625, 31439), (635, 31469), (644, 31505), (656, 31541), (680, 31634), (713, 31727), (747, 31805), (748, 31808), (770, 31877), (775, 31901), (778, 31916), (791, 31958), (794, 31976), (812, 32036), (820, 32057),

Gene: DirtyDunning_44 Start: 31567, Stop: 29741, Start Num: 191

Candidate Starts for DirtyDunning_44:

(Start: 191 @31567 has 828 MA's), (201, 31546), (209, 31516), (221, 31486), (291, 31324), (300, 31306), (326, 31234), (328, 31225), (366, 31105), (372, 31081), (420, 30988), (448, 30940), (476, 30880), (523, 30748), (532, 30727), (556, 30682), (559, 30670), (609, 30517), (611, 30496), (646, 30373), (656, 30343), (666, 30304), (683, 30238), (685, 30235), (691, 30220), (698, 30196), (704, 30172), (775, 29965), (812, 29830), (816, 29818), (820, 29809),

Gene: Discoknowium_37 Start: 30143, Stop: 28284, Start Num: 191

Candidate Starts for Discoknowium_37:

(Start: 191 @30143 has 828 MA's), (209, 30092), (235, 30032), (262, 29969), (271, 29939), (272, 29936), (302, 29879), (307, 29867), (314, 29837), (326, 29810), (372, 29657), (420, 29561), (446, 29513), (457, 29492), (483, 29429), (484, 29423), (513, 29351), (523, 29318), (528, 29303), (534, 29291), (576, 29192), (611, 29057), (618, 29027), (623, 29009), (632, 28991), (637, 28970), (639, 28961), (656, 28904), (666, 28865), (683, 28823), (691, 28805), (704, 28757), (726, 28706), (750, 28652), (754, 28643), (760, 28625), (775, 28565), (779, 28547), (804, 28454), (812, 28430), (816, 28418), (865, 28301), (866, 28298),

Gene: Dismas_40 Start: 29921, Stop: 31792, Start Num: 182

Candidate Starts for Dismas_40:

(Start: 182 @29921 has 49 MA's), (264, 30104), (283, 30143), (293, 30161), (318, 30233), (328, 30257), (331, 30269), (332, 30272), (361, 30353), (455, 30545), (476, 30593), (509, 30683), (564, 30824), (598, 30947), (611, 31007), (632, 31073), (635, 31088), (644, 31124), (647, 31133), (656, 31160), (680, 31253), (713, 31346), (747, 31424), (770, 31496), (778, 31535), (791, 31577), (804, 31631), (812, 31655), (820, 31676), (831, 31700),

Gene: Dixon_43 Start: 30751, Stop: 28907, Start Num: 191

Candidate Starts for Dixon_43:

(Start: 191 @30751 has 828 MA's), (209, 30700), (271, 30547), (291, 30508), (307, 30475), (314, 30445), (322, 30424), (326, 30418), (328, 30409), (355, 30316), (372, 30265), (420, 30169), (435, 30142), (444, 30124), (446, 30121), (451, 30112), (476, 30058), (484, 30031), (502, 29983), (523, 29926), (534, 29899), (559, 29848), (566, 29833), (609, 29686), (611, 29665), (618, 29635), (623, 29617), (625, 29614), (632, 29599), (637, 29578), (639, 29569), (646, 29542), (651, 29530), (656, 29512), (683, 29431), (689, 29419), (704, 29365), (719, 29329), (750, 29260), (758, 29239), (760, 29233), (771, 29194), (775, 29173), (779, 29155), (812, 29038), (816, 29026),

Gene: Doddsville_61 Start: 54283, Stop: 52424, Start Num: 149

Candidate Starts for Doddsville_61:

(Start: 133 @54307 has 1 MA's), (Start: 149 @54283 has 248 MA's), (Start: 174 @54259 has 5 MA's), (Start: 186 @54253 has 3 MA's), (205, 54211), (212, 54190), (254, 54076), (256, 54070), (269, 54040), (296, 53980), (306, 53959), (323, 53905), (327, 53893), (332, 53875), (335, 53863), (372, 53758), (389, 53701), (400, 53665), (402, 53653), (410, 53629), (414, 53617), (421, 53599), (432, 53581), (442, 53563), (465, 53524), (469, 53515), (471, 53512), (473, 53509), (607, 53152), (612, 53119), (617, 53098), (647, 53005), (651, 52996), (668, 52933), (683, 52897), (685, 52894), (691, 52879), (717, 52801), (722, 52789), (730, 52768), (748, 52729), (775, 52639), (779, 52621), (781, 52615), (785, 52600), (793, 52576), (795, 52561), (796, 52558), (799, 52546), (809, 52522), (830, 52474), (840, 52450),

Gene: DoesntMatter_58 Start: 54040, Stop: 52181, Start Num: 149

Candidate Starts for DoesntMatter_58:

(Start: 133 @54064 has 1 MA's), (Start: 149 @54040 has 248 MA's), (Start: 174 @54016 has 5 MA's), (Start: 186 @54010 has 3 MA's), (205, 53968), (212, 53947), (254, 53833), (256, 53827), (269, 53797), (296, 53737), (306, 53716), (323, 53662), (327, 53650), (332, 53632), (335, 53620), (372, 53515), (389, 53458), (400, 53422), (402, 53410), (411, 53383), (421, 53356), (432, 53338), (442, 53320), (465, 53281), (469, 53272), (471, 53269), (473, 53266), (607, 52909), (612, 52876), (617, 52855), (647, 52762), (651, 52753), (668, 52690), (683, 52654), (685, 52651), (691, 52636), (717, 52558), (722, 52546), (730, 52525), (748, 52486), (775, 52396), (779, 52378), (781, 52372), (785, 52357), (793, 52333), (795, 52318), (796, 52315), (799, 52303), (809, 52279), (830, 52231), (840, 52207),

Gene: DonSanchon_58 Start: 53730, Stop: 51871, Start Num: 149

Candidate Starts for DonSanchon_58:

(Start: 133 @53754 has 1 MA's), (Start: 149 @53730 has 248 MA's), (Start: 174 @53706 has 5 MA's), (Start: 186 @53700 has 3 MA's), (205, 53658), (212, 53637), (254, 53523), (256, 53517), (269, 53487), (296, 53427), (306, 53406), (323, 53352), (327, 53340), (332, 53322), (335, 53310), (372, 53205), (389, 53148), (400, 53112), (402, 53100), (411, 53073), (432, 53028), (465, 52971), (469, 52962), (471, 52959), (607, 52599), (612, 52566), (617, 52545), (647, 52452), (651, 52443), (668, 52380), (683, 52344), (685, 52341), (691, 52326), (717, 52248), (722, 52236), (730, 52215), (748, 52176), (775, 52086), (779, 52068), (781, 52062), (785, 52047), (793, 52023), (795, 52008), (796, 52005), (799, 51993), (809, 51969), (830, 51921), (840, 51897),

Gene: Donny_59 Start: 54516, Stop: 52690, Start Num: 141

Candidate Starts for Donny_59:

(Start: 141 @54516 has 23 MA's), (201, 54462), (227, 54402), (273, 54291), (296, 54243), (332, 54141), (341, 54111), (347, 54099), (363, 54063), (372, 54033), (400, 53940), (402, 53928), (410, 53904), (414, 53892), (421, 53874), (460, 53811), (471, 53787), (473, 53784), (515, 53682), (590, 53493), (595, 53475), (601, 53457), (608, 53427), (612, 53400), (645, 53292), (647, 53286), (651, 53277), (657, 53256), (674, 53193), (685, 53160), (691, 53145), (710, 53085), (717, 53067), (722, 53055), (730, 53034), (733, 53025), (735, 53022), (775, 52905), (781, 52881), (793, 52842), (795, 52827), (796, 52824), (805, 52800), (809, 52788), (810, 52785), (816, 52767), (832, 52737), (840, 52716), (847, 52695),

Gene: Doobus_41 Start: 29222, Stop: 31096, Start Num: 182

Candidate Starts for Doobus_41:

(Start: 179 @29219 has 7 MA's), (Start: 182 @29222 has 49 MA's), (216, 29291), (224, 29312), (328, 29558), (340, 29600), (438, 29813), (476, 29894), (564, 30128), (598, 30251), (611, 30311), (614, 30317), (625, 30362), (632, 30377), (635, 30392), (644, 30428), (656, 30464), (680, 30557), (713, 30650), (747, 30728), (770, 30800), (778, 30839), (791, 30881), (794, 30899), (804, 30935), (812, 30959), (820, 30980),

Gene: Doom_45 Start: 35111, Stop: 33285, Start Num: 191

Candidate Starts for Doom_45:

(Start: 191 @35111 has 828 MA's), (274, 34898), (314, 34805), (322, 34784), (326, 34778), (328, 34769), (365, 34652), (372, 34625), (420, 34532), (428, 34517), (470, 34433), (472, 34430), (494, 34364), (508, 34334), (518, 34304), (534, 34259), (556, 34220), (611, 34040), (618, 34010), (623, 33992), (625, 33989), (637, 33953), (656, 33887), (683, 33806), (685, 33803), (712, 33722), (770, 33572), (771, 33569), (778, 33533), (785, 33509), (788, 33500), (792, 33488), (798, 33461), (812, 33413), (820, 33392),

Gene: Dorothea_44 Start: 29646, Stop: 27805, Start Num: 191

Candidate Starts for Dorothea_44:

(Start: 191 @29646 has 828 MA's), (271, 29442), (307, 29367), (308, 29364), (314, 29337), (319, 29322), (326, 29310), (340, 29259), (368, 29169), (372, 29157), (420, 29064), (441, 29025), (451, 29007), (458, 28992), (484, 28926), (496, 28893), (498, 28890), (535, 28788), (565, 28728), (592, 28644), (611, 28563), (636, 28479), (637, 28476), (639, 28467), (646, 28440), (656, 28410), (676, 28350), (691, 28311), (770, 28095), (771, 28092), (775, 28071), (812, 27936), (816, 27924), (820, 27915), (821, 27912), (859, 27819),

Gene: DrFeelGood_43 Start: 34795, Stop: 32969, Start Num: 191

Candidate Starts for DrFeelGood_43:

(Start: 191 @34795 has 828 MA's), (274, 34582), (283, 34567), (314, 34489), (322, 34468), (326, 34462), (328, 34453), (365, 34336), (372, 34309), (376, 34300), (420, 34216), (428, 34201), (446, 34168), (470, 34117), (472, 34114), (494, 34048), (508, 34018), (518, 33988), (534, 33943), (556, 33904), (611, 33724), (618, 33694), (623, 33676), (625, 33673), (637, 33637), (656, 33571), (683, 33490), (685, 33487), (712, 33406), (770, 33256), (771, 33253), (778, 33217), (785, 33193), (788,

33184), (792, 33172), (798, 33145), (812, 33097), (820, 33076),

Gene: DrManhattan_40 Start: 27782, Stop: 29692, Start Num: 191

Candidate Starts for DrManhattan_40:

(101, 27644), (Start: 191 @27782 has 828 MA's), (208, 27830), (314, 28079), (343, 28169), (423, 28421), (428, 28430), (476, 28529), (481, 28544), (507, 28613), (532, 28682), (583, 28820), (611, 28940), (618, 28970), (631, 29003), (637, 29027), (656, 29093), (697, 29228), (704, 29258), (770, 29429), (779, 29471), (789, 29504), (812, 29588), (815, 29597), (820, 29609),

Gene: DrSierra_39 Start: 27819, Stop: 29663, Start Num: 191

Candidate Starts for DrSierra_39:

(Start: 191 @27819 has 828 MA's), (271, 28023), (290, 28050), (314, 28116), (343, 28206), (423, 28392), (428, 28401), (444, 28431), (476, 28500), (481, 28515), (532, 28653), (583, 28791), (611, 28911), (618, 28941), (637, 28998), (656, 29064), (704, 29229), (770, 29400), (812, 29559), (815, 29568), (850, 29646),

Gene: Drake55_46 Start: 31661, Stop: 29874, Start Num: 191

Candidate Starts for Drake55_46:

(Start: 191 @31661 has 828 MA's), (271, 31457), (272, 31454), (274, 31448), (291, 31418), (307, 31385), (308, 31382), (314, 31355), (326, 31328), (340, 31277), (372, 31175), (420, 31082), (446, 31034), (451, 31025), (458, 31010), (484, 30944), (515, 30863), (532, 30815), (592, 30671), (611, 30590), (625, 30539), (636, 30506), (656, 30437), (666, 30398), (676, 30377), (683, 30356), (689, 30344), (758, 30164), (760, 30158), (770, 30122), (775, 30098), (795, 30020), (812, 29963), (816, 29951),

Gene: Drake94_42 Start: 30378, Stop: 28546, Start Num: 191

Candidate Starts for Drake94_42:

(Start: 191 @30378 has 828 MA's), (209, 30327), (236, 30261), (271, 30174), (274, 30165), (302, 30114), (307, 30102), (326, 30045), (347, 29964), (351, 29952), (355, 29943), (366, 29916), (372, 29892), (420, 29799), (441, 29760), (476, 29691), (484, 29664), (534, 29532), (611, 29304), (632, 29238), (646, 29181), (656, 29151), (666, 29112), (685, 29040), (691, 29025), (698, 29001), (712, 28959), (726, 28926), (775, 28770), (781, 28746), (798, 28683), (812, 28635), (816, 28623), (820, 28614),

Gene: DreamCatcher_47 Start: 35708, Stop: 33882, Start Num: 191

Candidate Starts for DreamCatcher_47:

(Start: 191 @35708 has 828 MA's), (274, 35495), (283, 35480), (307, 35432), (314, 35402), (322, 35381), (326, 35375), (328, 35366), (340, 35324), (365, 35249), (372, 35222), (420, 35129), (428, 35114), (446, 35081), (470, 35030), (472, 35027), (494, 34961), (508, 34931), (518, 34901), (534, 34856), (556, 34817), (611, 34637), (618, 34607), (623, 34589), (637, 34550), (656, 34484), (666, 34445), (676, 34424), (683, 34403), (691, 34385), (712, 34319), (770, 34169), (771, 34166), (778, 34130), (785, 34106), (788, 34097), (792, 34085), (812, 34010), (820, 33989),

Gene: DreamTeam1_42 Start: 30708, Stop: 28915, Start Num: 191

Candidate Starts for DreamTeam1_42:

(Start: 191 @30708 has 828 MA's), (196, 30699), (261, 30537), (262, 30534), (271, 30504), (293, 30459), (308, 30426), (314, 30399), (319, 30384), (326, 30372), (328, 30363), (340, 30321), (366, 30243), (372, 30219), (420, 30126), (433, 30102), (444, 30081), (494, 29958), (559, 29799), (560, 29796), (579, 29760), (582, 29754), (611, 29631), (632, 29565), (651, 29496), (656, 29478), (676, 29418), (683, 29397), (726, 29280), (758, 29205), (770, 29163), (795, 29061), (812, 29004), (816, 28992), (820, 28983),

Gene: Dreamboat_46 Start: 34398, Stop: 32569, Start Num: 191

Candidate Starts for Dreamboat_46:

(Start: 191 @34398 has 828 MA's), (274, 34185), (283, 34170), (307, 34122), (314, 34092), (322, 34071), (326, 34065), (328, 34056), (365, 33939), (372, 33912), (420, 33819), (428, 33804), (439, 33783), (446, 33771), (470, 33720), (472, 33717), (494, 33651), (508, 33621), (518, 33591), (534, 33546), (556, 33507), (611, 33327), (623, 33279), (639, 33231), (651, 33192), (656, 33174), (666, 33135), (676, 33114), (683, 33093), (690, 33078), (733, 32955), (789, 32784), (794, 32760), (808, 32712), (812, 32700), (820, 32679), (823, 32673), (842, 32625), (849, 32610),

Gene: DroogsArmy_41 Start: 33073, Stop: 31238, Start Num: 191

Candidate Starts for DroogsArmy_41:

(Start: 191 @33073 has 828 MA's), (235, 32962), (274, 32860), (306, 32800), (322, 32746), (326, 32740), (331, 32719), (355, 32638), (372, 32587), (415, 32506), (420, 32491), (435, 32464), (444, 32446), (448, 32443), (458, 32422), (476, 32383), (498, 32320), (522, 32254), (523, 32251), (532, 32230), (572, 32140), (582, 32119), (592, 32077), (611, 31996), (623, 31948), (639, 31900), (646, 31873), (656, 31843), (666, 31804), (683, 31735), (685, 31732), (691, 31717), (698, 31693), (712, 31651), (760, 31522), (768, 31495), (775, 31462), (779, 31444), (789, 31411), (812, 31327), (816, 31315), (820, 31306),

Gene: Druantia_45 Start: 31573, Stop: 29747, Start Num: 191

Candidate Starts for Druantia_45:

(Start: 191 @31573 has 828 MA's), (201, 31552), (209, 31522), (221, 31492), (291, 31330), (300, 31312), (326, 31240), (328, 31231), (366, 31111), (372, 31087), (420, 30994), (448, 30946), (458, 30925), (476, 30886), (523, 30754), (532, 30733), (556, 30688), (559, 30676), (609, 30523), (611, 30502), (646, 30379), (656, 30349), (666, 30310), (683, 30244), (685, 30241), (691, 30226), (698, 30202), (704, 30178), (775, 29971), (812, 29836), (816, 29824), (820, 29815),

Gene: Dublin_37 Start: 30165, Stop: 28306, Start Num: 191

Candidate Starts for Dublin_37:

(Start: 191 @30165 has 828 MA's), (209, 30114), (235, 30054), (262, 29991), (271, 29961), (272, 29958), (302, 29901), (314, 29859), (326, 29832), (372, 29679), (420, 29583), (446, 29535), (483, 29451), (484, 29445), (513, 29373), (523, 29340), (528, 29325), (534, 29313), (576, 29214), (611, 29079), (618, 29049), (623, 29031), (625, 29028), (637, 28992), (639, 28983), (644, 28962), (647, 28953), (656, 28926), (657, 28923), (676, 28866), (683, 28845), (726, 28728), (750, 28674), (754, 28665), (760, 28647), (779, 28569), (804, 28476), (812, 28452), (816, 28440), (865, 28323), (866, 28320),

Gene: Dubu_35 Start: 27275, Stop: 29131, Start Num: 191

Candidate Starts for Dubu_35:

(Start: 191 @27275 has 828 MA's), (208, 27323), (235, 27395), (314, 27596), (345, 27692), (371, 27773), (409, 27833), (466, 27962), (476, 27983), (481, 27998), (515, 28088), (518, 28097), (532, 28136), (556, 28181), (561, 28199), (609, 28373), (611, 28394), (614, 28400), (623, 28442), (637, 28481), (638, 28484), (642, 28505), (654, 28538), (656, 28547), (669, 28601), (698, 28688), (713, 28733), (720, 28751), (726, 28763), (747, 28811), (748, 28814), (781, 28931), (798, 28994), (812, 29042), (817, 29057), (831, 29087),

Gene: DuchessDung_62 Start: 53800, Stop: 51941, Start Num: 149

Candidate Starts for DuchessDung_62:

(Start: 133 @53824 has 1 MA's), (Start: 149 @53800 has 248 MA's), (Start: 174 @53776 has 5 MA's), (Start: 186 @53770 has 3 MA's), (205, 53728), (212, 53707), (254, 53593), (256, 53587), (269, 53557), (296, 53497), (306, 53476), (323, 53422), (327, 53410), (332, 53392), (335, 53380), (372, 53275), (389, 53218), (400, 53182), (402, 53170), (411, 53143), (432, 53098), (465, 53041), (469, 53032), (471, 53029), (607, 52669), (612, 52636), (617, 52615), (647, 52522), (651, 52513), (668, 52450), (683, 52414), (685, 52411), (691, 52396), (717, 52318), (722, 52306), (730, 52285), (748,

52246), (775, 52156), (779, 52138), (781, 52132), (785, 52117), (793, 52093), (795, 52078), (796, 52075), (799, 52063), (809, 52039), (830, 51991), (840, 51967),

Gene: DudeLittle_43 Start: 31344, Stop: 29557, Start Num: 191

Candidate Starts for DudeLittle_43:

(Start: 191 @31344 has 828 MA's), (271, 31140), (272, 31137), (283, 31116), (291, 31101), (307, 31068), (308, 31065), (314, 31038), (326, 31011), (331, 30990), (372, 30858), (420, 30765), (439, 30729), (446, 30717), (451, 30708), (458, 30693), (484, 30627), (515, 30546), (532, 30498), (534, 30492), (565, 30429), (611, 30273), (625, 30222), (636, 30189), (637, 30186), (656, 30120), (666, 30081), (676, 30060), (701, 29985), (704, 29973), (754, 29859), (760, 29841), (770, 29805), (775, 29781), (795, 29703), (812, 29646), (816, 29634), (820, 29625),

Gene: Duggie_61 Start: 54284, Stop: 52425, Start Num: 149

Candidate Starts for Duggie_61:

(Start: 133 @54308 has 1 MA's), (Start: 149 @54284 has 248 MA's), (Start: 174 @54260 has 5 MA's), (Start: 186 @54254 has 3 MA's), (205, 54212), (212, 54191), (254, 54077), (256, 54071), (269, 54041), (296, 53981), (306, 53960), (323, 53906), (327, 53894), (332, 53876), (335, 53864), (372, 53759), (389, 53702), (400, 53666), (402, 53654), (410, 53630), (414, 53618), (421, 53600), (432, 53582), (442, 53564), (465, 53525), (469, 53516), (471, 53513), (473, 53510), (607, 53153), (612, 53120), (617, 53099), (647, 53006), (651, 52997), (668, 52934), (683, 52898), (685, 52895), (691, 52880), (717, 52802), (722, 52790), (730, 52769), (748, 52730), (775, 52640), (779, 52622), (781, 52616), (785, 52601), (793, 52577), (795, 52562), (796, 52559), (799, 52547), (809, 52523), (816, 52502), (830, 52475), (840, 52451), (845, 52436),

Gene: Dulcie_45 Start: 34631, Stop: 32805, Start Num: 191

Candidate Starts for Dulcie_45:

(Start: 191 @34631 has 828 MA's), (274, 34418), (283, 34403), (307, 34355), (314, 34325), (322, 34304), (326, 34298), (328, 34289), (365, 34172), (372, 34145), (420, 34052), (428, 34037), (446, 34004), (470, 33953), (472, 33950), (494, 33884), (508, 33854), (518, 33824), (534, 33779), (556, 33740), (611, 33560), (623, 33512), (637, 33473), (656, 33407), (666, 33368), (676, 33347), (683, 33326), (691, 33308), (712, 33242), (770, 33092), (771, 33089), (778, 33053), (785, 33029), (788, 33020), (792, 33008), (798, 32981), (812, 32933), (820, 32912),

Gene: DunneganBoMo_92 Start: 74359, Stop: 76077, Start Num: 221

Candidate Starts for DunneganBoMo_92:

(195, 74284), (206, 74317), (212, 74338), (216, 74347), (221, 74359), (327, 74596), (334, 74623), (336, 74629), (405, 74764), (464, 74881), (476, 74908), (479, 74914), (481, 74923), (500, 74977), (556, 75109), (562, 75130), (573, 75157), (588, 75205), (597, 75238), (609, 75277), (611, 75298), (614, 75304), (644, 75421), (665, 75505), (666, 75508), (680, 75571), (686, 75583), (698, 75619), (708, 75652), (730, 75706), (738, 75724), (765, 75808), (770, 75829), (776, 75856), (789, 75904), (791, 75910), (794, 75928), (798, 75940), (800, 75952), (801, 75955), (812, 75988), (823, 76015), (836, 76039),

Gene: Duplo_47 Start: 31191, Stop: 29368, Start Num: 191

Candidate Starts for Duplo_47:

(Start: 191 @31191 has 828 MA's), (271, 30987), (283, 30963), (291, 30945), (300, 30927), (307, 30912), (308, 30909), (314, 30882), (326, 30855), (340, 30804), (372, 30702), (420, 30609), (446, 30561), (451, 30552), (457, 30540), (458, 30537), (484, 30471), (508, 30411), (556, 30297), (565, 30273), (581, 30234), (611, 30108), (625, 30057), (637, 30021), (656, 29955), (666, 29916), (685, 29847), (698, 29808), (713, 29763), (726, 29733), (754, 29670), (758, 29658), (760, 29652), (775, 29592), (812, 29457), (816, 29445), (820, 29436),

Gene: Durga_63 Start: 54780, Stop: 52921, Start Num: 149

Candidate Starts for Durga_63:

(Start: 133 @54804 has 1 MA's), (Start: 149 @54780 has 248 MA's), (Start: 174 @54756 has 5 MA's), (Start: 186 @54750 has 3 MA's), (205, 54708), (212, 54687), (254, 54573), (256, 54567), (269, 54537), (296, 54477), (306, 54456), (323, 54402), (327, 54390), (332, 54372), (335, 54360), (372, 54255), (389, 54198), (400, 54162), (402, 54150), (410, 54126), (414, 54114), (421, 54096), (432, 54078), (442, 54060), (465, 54021), (469, 54012), (471, 54009), (473, 54006), (576, 53751), (607, 53649), (612, 53616), (617, 53595), (647, 53502), (651, 53493), (668, 53430), (683, 53394), (685, 53391), (691, 53376), (717, 53298), (722, 53286), (730, 53265), (748, 53226), (775, 53136), (779, 53118), (781, 53112), (785, 53097), (793, 53073), (795, 53058), (796, 53055), (799, 53043), (809, 53019), (816, 52998), (830, 52971), (840, 52947),

Gene: Dussy_46 Start: 34786, Stop: 32957, Start Num: 191

Candidate Starts for Dussy_46:

(Start: 191 @34786 has 828 MA's), (274, 34573), (283, 34558), (307, 34510), (314, 34480), (322, 34459), (326, 34453), (328, 34444), (365, 34327), (372, 34300), (420, 34207), (428, 34192), (470, 34108), (472, 34105), (494, 34039), (508, 34009), (518, 33979), (534, 33934), (556, 33895), (611, 33715), (623, 33667), (639, 33619), (651, 33580), (656, 33562), (666, 33523), (676, 33502), (683, 33481), (690, 33466), (733, 33343), (789, 33172), (794, 33148), (808, 33100), (812, 33088), (820, 33067), (823, 33061), (842, 33013), (849, 32998),

Gene: Dynamix_45 Start: 34393, Stop: 32567, Start Num: 191

Candidate Starts for Dynamix_45:

(Start: 191 @34393 has 828 MA's), (274, 34180), (307, 34117), (314, 34087), (322, 34066), (326, 34060), (328, 34051), (365, 33934), (372, 33907), (420, 33814), (428, 33799), (470, 33715), (472, 33712), (494, 33646), (508, 33616), (518, 33586), (534, 33541), (556, 33502), (611, 33322), (623, 33274), (637, 33235), (656, 33169), (666, 33130), (676, 33109), (683, 33088), (691, 33070), (712, 33004), (770, 32854), (771, 32851), (778, 32815), (788, 32782), (792, 32770), (798, 32743), (812, 32695), (820, 32674),

Gene: EZMoney23_43 Start: 31302, Stop: 29515, Start Num: 190

Candidate Starts for EZMoney23_43:

(Start: 190 @31302 has 8 MA's), (271, 31098), (272, 31095), (274, 31089), (283, 31074), (291, 31059), (307, 31026), (308, 31023), (314, 30996), (326, 30969), (331, 30948), (340, 30918), (372, 30816), (420, 30723), (446, 30675), (451, 30666), (458, 30651), (484, 30585), (515, 30504), (532, 30456), (534, 30450), (592, 30312), (611, 30231), (625, 30180), (636, 30147), (637, 30144), (656, 30078), (666, 30039), (676, 30018), (701, 29943), (726, 29880), (737, 29853), (754, 29817), (760, 29799), (770, 29763), (775, 29739), (791, 29682), (795, 29661), (812, 29604), (816, 29592), (820, 29583),

Gene: Eagle_45 Start: 31595, Stop: 29769, Start Num: 191

Candidate Starts for Eagle_45:

(Start: 191 @31595 has 828 MA's), (201, 31574), (209, 31544), (221, 31514), (291, 31352), (300, 31334), (326, 31262), (328, 31253), (366, 31133), (372, 31109), (420, 31016), (448, 30968), (458, 30947), (476, 30908), (523, 30776), (532, 30755), (556, 30710), (559, 30698), (609, 30545), (611, 30524), (646, 30401), (656, 30371), (666, 30332), (683, 30266), (685, 30263), (691, 30248), (698, 30224), (704, 30200), (775, 29993), (812, 29858), (816, 29846), (820, 29837),

Gene: EagleEye_46 Start: 30777, Stop: 28945, Start Num: 191

Candidate Starts for EagleEye_46:

(Start: 191 @30777 has 828 MA's), (271, 30573), (272, 30570), (307, 30501), (308, 30498), (314, 30471), (322, 30450), (326, 30444), (328, 30435), (340, 30393), (366, 30315), (372, 30291), (420, 30198), (494, 30030), (579, 29832), (611, 29703), (639, 29607), (651, 29568), (656, 29550), (679, 29478), (683, 29469), (733, 29331), (768, 29244), (770, 29235), (795, 29133), (812, 29076), (816,

29064), (859, 28959),

Gene: Eaglehorse_57 Start: 52538, Stop: 50709, Start Num: 147

Candidate Starts for Eaglehorse_57:

(Start: 147 @52538 has 31 MA's), (Start: 186 @52511 has 3 MA's), (202, 52481), (205, 52469), (215, 52442), (216, 52439), (221, 52430), (235, 52412), (272, 52316), (296, 52265), (307, 52241), (358, 52079), (368, 52055), (372, 52043), (389, 51986), (400, 51950), (402, 51938), (410, 51914), (456, 51830), (469, 51800), (471, 51797), (483, 51767), (542, 51623), (565, 51557), (586, 51518), (589, 51506), (595, 51485), (601, 51467), (612, 51410), (639, 51326), (647, 51296), (651, 51287), (668, 51221), (679, 51194), (683, 51185), (691, 51167), (698, 51143), (717, 51089), (722, 51077), (730, 51056), (760, 50987), (775, 50927), (779, 50909), (789, 50876), (793, 50864), (795, 50849), (796, 50846), (799, 50834), (809, 50810), (810, 50807), (830, 50759), (832, 50756), (840, 50735), (847, 50714),

Gene: Eaglepride_45 Start: 31205, Stop: 29382, Start Num: 191

Candidate Starts for Eaglepride_45:

(Start: 191 @31205 has 828 MA's), (209, 31154), (221, 31124), (291, 30962), (300, 30944), (307, 30929), (326, 30872), (328, 30863), (347, 30791), (355, 30770), (366, 30743), (372, 30719), (420, 30626), (441, 30587), (448, 30578), (476, 30518), (484, 30491), (518, 30404), (534, 30359), (556, 30320), (582, 30263), (592, 30221), (611, 30140), (632, 30074), (646, 30017), (651, 30005), (656, 29987), (666, 29948), (685, 29876), (691, 29861), (698, 29837), (712, 29795), (760, 29666), (775, 29606), (778, 29591), (781, 29582), (812, 29471), (816, 29459), (820, 29450),

Gene: Eapen_45 Start: 31565, Stop: 29739, Start Num: 191

Candidate Starts for Eapen_45:

(Start: 191 @31565 has 828 MA's), (201, 31544), (209, 31514), (221, 31484), (291, 31322), (300, 31304), (326, 31232), (328, 31223), (366, 31103), (372, 31079), (420, 30986), (448, 30938), (458, 30917), (476, 30878), (523, 30746), (532, 30725), (556, 30680), (559, 30668), (609, 30515), (611, 30494), (646, 30371), (656, 30341), (666, 30302), (683, 30236), (685, 30233), (691, 30218), (698, 30194), (704, 30170), (775, 29963), (812, 29828), (816, 29816), (820, 29807),

Gene: EastView9101_59 Start: 54337, Stop: 52511, Start Num: 141

Candidate Starts for EastView9101_59:

(67, 54496), (98, 54415), (Start: 141 @54337 has 23 MA's), (201, 54283), (227, 54223), (273, 54112), (296, 54064), (332, 53962), (347, 53920), (363, 53884), (372, 53854), (400, 53761), (402, 53749), (410, 53725), (414, 53713), (421, 53695), (460, 53632), (471, 53608), (515, 53503), (590, 53314), (595, 53296), (608, 53248), (612, 53221), (645, 53113), (647, 53107), (651, 53098), (657, 53077), (674, 53014), (685, 52981), (691, 52966), (710, 52906), (717, 52888), (722, 52876), (730, 52855), (733, 52846), (735, 52843), (775, 52726), (781, 52702), (793, 52663), (795, 52648), (796, 52645), (805, 52621), (809, 52609), (810, 52606), (832, 52558), (840, 52537), (847, 52516),

Gene: Ebony_45 Start: 30738, Stop: 28951, Start Num: 191

Candidate Starts for Ebony_45:

(Start: 191 @30738 has 828 MA's), (271, 30534), (307, 30462), (314, 30432), (326, 30405), (423, 30153), (451, 30102), (484, 30021), (501, 29976), (532, 29892), (559, 29835), (581, 29793), (592, 29748), (611, 29667), (625, 29616), (637, 29580), (656, 29514), (676, 29454), (679, 29442), (716, 29340), (726, 29316), (732, 29298), (760, 29235), (768, 29208), (770, 29199), (775, 29175), (812, 29040), (816, 29028), (820, 29019),

Gene: Echild_44 Start: 30778, Stop: 28991, Start Num: 191

Candidate Starts for Echild_44:

(Start: 191 @30778 has 828 MA's), (272, 30571), (274, 30565), (291, 30535), (307, 30502), (308, 30499), (314, 30472), (326, 30445), (331, 30424), (372, 30292), (420, 30199), (446, 30151), (451,

30142), (458, 30127), (484, 30061), (515, 29980), (532, 29932), (534, 29926), (565, 29863), (592, 29788), (611, 29707), (625, 29656), (636, 29623), (637, 29620), (656, 29554), (666, 29515), (676, 29494), (701, 29419), (706, 29401), (712, 29389), (726, 29356), (737, 29329), (754, 29293), (770, 29239), (775, 29215), (791, 29158), (795, 29137), (812, 29080), (816, 29068), (820, 29059),

Gene: Eden_40 Start: 28150, Stop: 30027, Start Num: 182

Candidate Starts for Eden_40:

(Start: 182 @28150 has 49 MA's), (216, 28219), (271, 28357), (318, 28462), (331, 28498), (332, 28501), (365, 28591), (423, 28714), (476, 28822), (481, 28837), (490, 28867), (575, 29131), (582, 29146), (598, 29209), (611, 29269), (632, 29335), (647, 29398), (656, 29425), (680, 29518), (704, 29590), (747, 29689), (748, 29692), (750, 29695), (775, 29785), (791, 29842), (812, 29920), (820, 29941), (851, 30010),

Gene: Edison31_42 Start: 31140, Stop: 29305, Start Num: 191

Candidate Starts for Edison31_42:

(Start: 191 @31140 has 828 MA's), (209, 31089), (236, 31023), (271, 30936), (283, 30912), (291, 30897), (302, 30876), (307, 30864), (326, 30807), (328, 30798), (351, 30714), (366, 30678), (368, 30666), (372, 30654), (420, 30561), (448, 30513), (476, 30453), (484, 30426), (522, 30324), (523, 30321), (532, 30300), (534, 30294), (582, 30186), (611, 30063), (623, 30015), (646, 29940), (656, 29910), (666, 29871), (683, 29802), (685, 29799), (698, 29760), (704, 29736), (706, 29730), (712, 29718), (775, 29529), (781, 29505), (798, 29442), (812, 29394), (816, 29382), (820, 29373),

Gene: Edtherson_45 Start: 35275, Stop: 33449, Start Num: 191

Candidate Starts for Edtherson_45:

(Start: 191 @35275 has 828 MA's), (274, 35062), (283, 35047), (307, 34999), (314, 34969), (322, 34948), (326, 34942), (328, 34933), (365, 34816), (372, 34789), (420, 34696), (428, 34681), (470, 34597), (472, 34594), (494, 34528), (508, 34498), (518, 34468), (534, 34423), (556, 34384), (611, 34204), (618, 34174), (623, 34156), (637, 34117), (656, 34051), (683, 33970), (685, 33967), (712, 33886), (770, 33736), (771, 33733), (778, 33697), (785, 33673), (788, 33664), (792, 33652), (812, 33577), (820, 33556),

Gene: EhyElimayoE_67 Start: 46750, Stop: 44786, Start Num: 92

Candidate Starts for EhyElimayoE_67:

(Start: 92 @46750 has 10 MA's), (143, 46654), (209, 46546), (214, 46534), (235, 46480), (262, 46396), (314, 46261), (342, 46162), (345, 46150), (351, 46123), (358, 46108), (399, 45970), (430, 45883), (480, 45787), (516, 45679), (517, 45676), (525, 45649), (536, 45622), (547, 45592), (557, 45562), (598, 45457), (622, 45349), (627, 45340), (634, 45334), (697, 45190), (701, 45172), (707, 45154), (748, 45100), (781, 44983), (784, 44971), (788, 44962), (792, 44950), (795, 44932), (801, 44908), (810, 44884), (818, 44866),

Gene: Eidsmoe_45 Start: 31547, Stop: 29754, Start Num: 191

Candidate Starts for Eidsmoe_45:

(Start: 191 @31547 has 828 MA's), (196, 31538), (209, 31496), (261, 31376), (262, 31373), (279, 31325), (308, 31265), (315, 31235), (319, 31223), (326, 31211), (372, 31058), (420, 30965), (484, 30827), (494, 30797), (559, 30638), (565, 30626), (579, 30599), (609, 30491), (611, 30470), (651, 30335), (656, 30317), (683, 30236), (698, 30194), (726, 30119), (758, 30044), (770, 30002), (795, 29900), (812, 29843), (816, 29831), (820, 29822),

Gene: EITiger69_39 Start: 30184, Stop: 28286, Start Num: 164

Candidate Starts for EITiger69_39:

(Start: 164 @30184 has 2 MA's), (Start: 191 @30151 has 828 MA's), (235, 30040), (271, 29947), (272, 29944), (307, 29875), (308, 29872), (314, 29845), (326, 29818), (328, 29809), (351, 29725), (361, 29701), (372, 29665), (407, 29605), (420, 29569), (444, 29524), (446, 29521), (457, 29500), (458,

29497), (483, 29437), (513, 29359), (528, 29311), (534, 29299), (558, 29251), (576, 29200), (611, 29065), (623, 29017), (632, 28999), (637, 28978), (639, 28969), (647, 28939), (656, 28912), (657, 28909), (683, 28831), (691, 28813), (704, 28765), (726, 28714), (750, 28660), (754, 28651), (760, 28633), (779, 28555), (781, 28549), (804, 28462), (812, 28438), (816, 28426), (859, 28321),

Gene: Elephantoon_44 Start: 30830, Stop: 29037, Start Num: 191

Candidate Starts for Elephantoon_44:

(Start: 191 @30830 has 828 MA's), (196, 30821), (209, 30779), (245, 30692), (261, 30659), (262, 30656), (271, 30626), (279, 30608), (308, 30548), (314, 30521), (319, 30506), (326, 30494), (371, 30344), (372, 30341), (376, 30332), (415, 30263), (420, 30248), (494, 30080), (559, 29921), (565, 29909), (579, 29882), (609, 29774), (611, 29753), (646, 29630), (656, 29600), (666, 29561), (679, 29528), (683, 29519), (726, 29402), (733, 29381), (758, 29327), (770, 29285), (775, 29261), (795, 29183), (812, 29126), (816, 29114), (820, 29105),

Gene: Elezi_39 Start: 30351, Stop: 32216, Start Num: 191

Candidate Starts for Elezi_39:

(Start: 191 @30351 has 828 MA's), (208, 30399), (290, 30582), (293, 30588), (314, 30648), (322, 30669), (343, 30738), (428, 30954), (472, 31044), (476, 31053), (481, 31068), (496, 31113), (532, 31206), (583, 31344), (611, 31464), (618, 31494), (637, 31551), (654, 31608), (656, 31617), (663, 31641), (680, 31710), (704, 31782), (708, 31791), (752, 31890), (770, 31953), (812, 32112), (815, 32121),

Gene: Elva_44 Start: 30530, Stop: 32404, Start Num: 182

Candidate Starts for Elva_44:

(Start: 179 @30527 has 7 MA's), (Start: 182 @30530 has 49 MA's), (216, 30599), (224, 30620), (307, 30800), (328, 30866), (340, 30908), (436, 31118), (446, 31136), (476, 31202), (508, 31289), (564, 31436), (597, 31556), (598, 31559), (611, 31619), (614, 31625), (625, 31670), (632, 31685), (635, 31700), (644, 31736), (656, 31772), (680, 31865), (713, 31958), (747, 32036), (748, 32039), (758, 32066), (770, 32108), (778, 32147), (780, 32153), (791, 32189), (794, 32207), (804, 32243), (812, 32267), (820, 32288),

Gene: EmiRose_34 Start: 30392, Stop: 28503, Start Num: 142

Candidate Starts for EmiRose_34:

(Start: 142 @30392 has 1 MA's), (212, 30284), (214, 30281), (215, 30278), (236, 30221), (273, 30110), (316, 30005), (329, 29975), (336, 29948), (339, 29939), (366, 29870), (372, 29849), (389, 29792), (400, 29756), (402, 29744), (410, 29720), (419, 29693), (432, 29669), (471, 29612), (527, 29477), (542, 29435), (549, 29417), (560, 29378), (587, 29324), (604, 29264), (612, 29219), (615, 29213), (630, 29162), (668, 29027), (685, 28988), (686, 28985), (691, 28973), (717, 28895), (722, 28883), (750, 28820), (775, 28718), (793, 28655), (805, 28613), (809, 28601), (822, 28571), (832, 28550), (847, 28508),

Gene: Emiris_63 Start: 54747, Stop: 52888, Start Num: 149

Candidate Starts for Emiris_63:

(Start: 133 @54771 has 1 MA's), (Start: 149 @54747 has 248 MA's), (Start: 174 @54723 has 5 MA's), (Start: 186 @54717 has 3 MA's), (205, 54675), (212, 54654), (254, 54540), (256, 54534), (269, 54504), (296, 54444), (306, 54423), (323, 54369), (327, 54357), (332, 54339), (335, 54327), (372, 54222), (389, 54165), (400, 54129), (402, 54117), (411, 54090), (421, 54063), (432, 54045), (442, 54027), (465, 53988), (469, 53979), (471, 53976), (576, 53718), (607, 53616), (612, 53583), (617, 53562), (647, 53469), (651, 53460), (668, 53397), (683, 53361), (685, 53358), (691, 53343), (717, 53265), (722, 53253), (730, 53232), (748, 53193), (775, 53103), (779, 53085), (781, 53079), (785, 53064), (793, 53040), (795, 53025), (796, 53022), (799, 53010), (809, 52986), (830, 52938), (840, 52914),

Gene: Emotion_46 Start: 31321, Stop: 33183, Start Num: 191

Candidate Starts for Emotion_46:

(136, 31249), (Start: 191 @31321 has 828 MA's), (308, 31591), (476, 32020), (528, 32167), (532, 32173), (583, 32311), (611, 32431), (625, 32482), (644, 32548), (680, 32677), (685, 32686), (691, 32701), (720, 32788), (750, 32854), (752, 32857), (795, 33022), (812, 33079),

Gene: EmpTee_60 Start: 54256, Stop: 52397, Start Num: 149

Candidate Starts for EmpTee_60:

(Start: 133 @54280 has 1 MA's), (Start: 149 @54256 has 248 MA's), (Start: 174 @54232 has 5 MA's), (Start: 186 @54226 has 3 MA's), (205, 54184), (212, 54163), (254, 54049), (256, 54043), (269, 54013), (296, 53953), (306, 53932), (323, 53878), (327, 53866), (332, 53848), (335, 53836), (372, 53731), (389, 53674), (400, 53638), (402, 53626), (410, 53602), (414, 53590), (421, 53572), (432, 53554), (442, 53536), (465, 53497), (469, 53488), (471, 53485), (473, 53482), (607, 53125), (612, 53092), (617, 53071), (647, 52978), (651, 52969), (668, 52906), (683, 52870), (685, 52867), (691, 52852), (717, 52774), (722, 52762), (730, 52741), (748, 52702), (775, 52612), (779, 52594), (781, 52588), (785, 52573), (793, 52549), (795, 52534), (796, 52531), (799, 52519), (809, 52495), (830, 52447), (840, 52423),

Gene: EmyBug_42 Start: 31549, Stop: 29756, Start Num: 191

Candidate Starts for EmyBug_42:

(Start: 191 @31549 has 828 MA's), (196, 31540), (209, 31498), (261, 31378), (262, 31375), (279, 31327), (308, 31267), (315, 31237), (319, 31225), (326, 31213), (372, 31060), (420, 30967), (484, 30829), (494, 30799), (559, 30640), (565, 30628), (579, 30601), (609, 30493), (611, 30472), (651, 30337), (656, 30319), (683, 30238), (698, 30196), (726, 30121), (758, 30046), (770, 30004), (795, 29902), (812, 29845), (816, 29833), (820, 29824),

Gene: EpicPhail_49 Start: 31856, Stop: 30042, Start Num: 191

Candidate Starts for EpicPhail_49:

(Start: 191 @31856 has 828 MA's), (206, 31817), (209, 31805), (271, 31652), (276, 31637), (307, 31580), (326, 31523), (328, 31514), (340, 31472), (355, 31421), (372, 31370), (420, 31277), (446, 31229), (451, 31220), (458, 31205), (476, 31166), (484, 31139), (494, 31109), (528, 31016), (558, 30956), (565, 30941), (611, 30785), (637, 30698), (656, 30632), (666, 30593), (685, 30521), (698, 30482), (704, 30458), (712, 30440), (726, 30407), (737, 30380), (760, 30326), (775, 30266), (795, 30188), (812, 30131), (816, 30119), (820, 30110),

Gene: Epsocamisio_46 Start: 29741, Stop: 27951, Start Num: 191

Candidate Starts for Epsocamisio_46:

(Start: 191 @29741 has 828 MA's), (262, 29567), (307, 29462), (308, 29459), (314, 29432), (326, 29405), (340, 29354), (372, 29252), (420, 29159), (444, 29114), (446, 29111), (451, 29102), (515, 28940), (523, 28913), (532, 28892), (534, 28886), (583, 28787), (592, 28748), (607, 28697), (611, 28667), (625, 28616), (636, 28583), (644, 28550), (646, 28544), (656, 28514), (676, 28454), (683, 28433), (698, 28391), (705, 28364), (712, 28349), (750, 28262), (770, 28199), (771, 28196), (812, 28040), (816, 28028), (821, 28016),

Gene: Equemioh13_45 Start: 31601, Stop: 29814, Start Num: 191

Candidate Starts for Equemioh13_45:

(Start: 191 @31601 has 828 MA's), (271, 31397), (272, 31394), (274, 31388), (291, 31358), (307, 31325), (308, 31322), (314, 31295), (326, 31268), (340, 31217), (372, 31115), (420, 31022), (446, 30974), (451, 30965), (458, 30950), (484, 30884), (515, 30803), (532, 30755), (592, 30611), (611, 30530), (625, 30479), (636, 30446), (656, 30377), (666, 30338), (676, 30317), (683, 30296), (689, 30284), (758, 30104), (760, 30098), (770, 30062), (775, 30038), (795, 29960), (812, 29903), (816, 29891),

Gene: Eraser_39 Start: 30361, Stop: 32226, Start Num: 191

Candidate Starts for Eraser_39:

(Start: 191 @30361 has 828 MA's), (208, 30409), (290, 30592), (293, 30598), (314, 30658), (322, 30679), (343, 30748), (428, 30964), (472, 31054), (476, 31063), (481, 31078), (496, 31123), (532, 31216), (583, 31354), (611, 31474), (618, 31504), (637, 31561), (654, 31618), (656, 31627), (663, 31651), (680, 31720), (704, 31792), (708, 31801), (752, 31900), (770, 31963), (812, 32122), (815, 32131),

Gene: Eremos_60 Start: 54246, Stop: 52387, Start Num: 149

Candidate Starts for Eremos_60:

(Start: 133 @54270 has 1 MA's), (Start: 149 @54246 has 248 MA's), (Start: 174 @54222 has 5 MA's), (Start: 186 @54216 has 3 MA's), (205, 54174), (212, 54153), (254, 54039), (256, 54033), (269, 54003), (296, 53943), (306, 53922), (323, 53868), (327, 53856), (332, 53838), (335, 53826), (372, 53721), (389, 53664), (400, 53628), (402, 53616), (410, 53592), (414, 53580), (421, 53562), (432, 53544), (442, 53526), (465, 53487), (469, 53478), (471, 53475), (473, 53472), (607, 53115), (612, 53082), (617, 53061), (647, 52968), (651, 52959), (668, 52896), (683, 52860), (685, 52857), (691, 52842), (717, 52764), (722, 52752), (730, 52731), (748, 52692), (775, 52602), (779, 52584), (781, 52578), (785, 52563), (793, 52539), (795, 52524), (796, 52521), (799, 52509), (809, 52485), (830, 52437), (840, 52413),

Gene: EricB_45 Start: 29620, Stop: 27779, Start Num: 191

Candidate Starts for EricB_45:

(Start: 191 @29620 has 828 MA's), (271, 29416), (307, 29341), (308, 29338), (314, 29311), (319, 29296), (326, 29284), (340, 29233), (368, 29143), (372, 29131), (420, 29038), (441, 28999), (451, 28981), (458, 28966), (484, 28900), (496, 28867), (498, 28864), (535, 28762), (565, 28702), (592, 28618), (611, 28537), (636, 28453), (637, 28450), (639, 28441), (646, 28414), (656, 28384), (676, 28324), (691, 28285), (770, 28069), (771, 28066), (775, 28045), (812, 27910), (816, 27898), (820, 27889), (821, 27886), (859, 27793),

Gene: Erik_36 Start: 28111, Stop: 26327, Start Num: 191

Candidate Starts for Erik_36:

(Start: 191 @28111 has 828 MA's), (288, 27877), (302, 27847), (306, 27838), (307, 27835), (319, 27790), (326, 27778), (340, 27727), (372, 27625), (380, 27604), (420, 27532), (444, 27487), (446, 27484), (466, 27442), (468, 27436), (476, 27421), (484, 27394), (523, 27289), (526, 27280), (534, 27262), (556, 27223), (582, 27166), (611, 27043), (623, 26995), (656, 26890), (657, 26887), (676, 26830), (683, 26809), (700, 26761), (727, 26686), (758, 26617), (770, 26575), (775, 26551), (795, 26473), (812, 26416), (816, 26404), (820, 26395), (834, 26365), (839, 26347),

Gene: Eris_44 Start: 31570, Stop: 29744, Start Num: 191

Candidate Starts for Eris_44:

(Start: 191 @31570 has 828 MA's), (201, 31549), (209, 31519), (221, 31489), (291, 31327), (300, 31309), (326, 31237), (328, 31228), (366, 31108), (372, 31084), (420, 30991), (448, 30943), (458, 30922), (476, 30883), (490, 30838), (492, 30832), (523, 30751), (532, 30730), (556, 30685), (559, 30673), (609, 30520), (611, 30499), (646, 30376), (656, 30346), (666, 30307), (683, 30241), (685, 30238), (691, 30223), (698, 30199), (704, 30175), (775, 29968), (812, 29833), (816, 29821), (820, 29812),

Gene: Eros_45 Start: 31572, Stop: 29746, Start Num: 191

Candidate Starts for Eros_45:

(Start: 191 @31572 has 828 MA's), (201, 31551), (209, 31521), (221, 31491), (291, 31329), (300, 31311), (326, 31239), (328, 31230), (366, 31110), (372, 31086), (420, 30993), (448, 30945), (458, 30924), (476, 30885), (523, 30753), (532, 30732), (556, 30687), (559, 30675), (609, 30522), (611, 30501), (646, 30378), (656, 30348), (666, 30309), (683, 30243), (685, 30240), (691, 30225), (698,

30201), (704, 30177), (775, 29970), (812, 29835), (816, 29823), (820, 29814),

Gene: Espica_36 Start: 28114, Stop: 26330, Start Num: 191

Candidate Starts for Espica_36:

(Start: 191 @28114 has 828 MA's), (288, 27880), (302, 27850), (306, 27841), (307, 27838), (319, 27793), (326, 27781), (340, 27730), (372, 27628), (380, 27607), (420, 27535), (444, 27490), (446, 27487), (466, 27445), (468, 27439), (476, 27424), (484, 27397), (523, 27292), (526, 27283), (534, 27265), (556, 27226), (582, 27169), (611, 27046), (623, 26998), (656, 26893), (657, 26890), (676, 26833), (683, 26812), (700, 26764), (727, 26689), (758, 26620), (770, 26578), (775, 26554), (795, 26476), (812, 26419), (816, 26407), (820, 26398), (834, 26368), (839, 26350),

Gene: Espresso_44 Start: 34640, Stop: 32814, Start Num: 191

Candidate Starts for Espresso_44:

(Start: 191 @34640 has 828 MA's), (274, 34427), (307, 34364), (314, 34334), (322, 34313), (326, 34307), (328, 34298), (365, 34181), (372, 34154), (420, 34061), (428, 34046), (470, 33962), (472, 33959), (494, 33893), (508, 33863), (518, 33833), (534, 33788), (556, 33749), (611, 33569), (618, 33539), (623, 33521), (625, 33518), (637, 33482), (656, 33416), (683, 33335), (685, 33332), (712, 33251), (770, 33101), (771, 33098), (778, 33062), (785, 33038), (788, 33029), (792, 33017), (812, 32942), (820, 32921),

Gene: Et2Brutus_44 Start: 30698, Stop: 28911, Start Num: 191

Candidate Starts for Et2Brutus_44:

(Start: 191 @30698 has 828 MA's), (271, 30494), (307, 30422), (314, 30392), (326, 30365), (423, 30113), (451, 30062), (484, 29981), (501, 29936), (502, 29933), (532, 29852), (559, 29795), (581, 29753), (592, 29708), (611, 29627), (625, 29576), (637, 29540), (656, 29474), (676, 29414), (679, 29402), (716, 29300), (726, 29276), (732, 29258), (760, 29195), (768, 29168), (770, 29159), (775, 29135), (812, 29000), (816, 28988), (820, 28979),

Gene: Etaye_62 Start: 55077, Stop: 53218, Start Num: 149

Candidate Starts for Etaye_62:

(Start: 133 @55101 has 1 MA's), (Start: 149 @55077 has 248 MA's), (Start: 174 @55053 has 5 MA's), (Start: 186 @55047 has 3 MA's), (205, 55005), (212, 54984), (254, 54870), (256, 54864), (269, 54834), (296, 54774), (306, 54753), (323, 54699), (327, 54687), (332, 54669), (335, 54657), (372, 54552), (389, 54495), (400, 54459), (402, 54447), (410, 54423), (414, 54411), (421, 54393), (432, 54375), (442, 54357), (465, 54318), (469, 54309), (471, 54306), (473, 54303), (607, 53946), (612, 53913), (617, 53892), (647, 53799), (651, 53790), (668, 53727), (683, 53691), (685, 53688), (691, 53673), (717, 53595), (722, 53583), (730, 53562), (748, 53523), (775, 53433), (779, 53415), (781, 53409), (785, 53394), (793, 53370), (795, 53355), (796, 53352), (799, 53340), (809, 53316), (830, 53268), (840, 53244),

Gene: Eugenia_60 Start: 54399, Stop: 52540, Start Num: 149

Candidate Starts for Eugenia_60:

(Start: 133 @54423 has 1 MA's), (Start: 149 @54399 has 248 MA's), (Start: 174 @54375 has 5 MA's), (Start: 186 @54369 has 3 MA's), (205, 54327), (212, 54306), (254, 54192), (256, 54186), (269, 54156), (296, 54096), (306, 54075), (323, 54021), (327, 54009), (332, 53991), (335, 53979), (372, 53874), (389, 53817), (400, 53781), (402, 53769), (411, 53742), (421, 53715), (432, 53697), (442, 53679), (465, 53640), (469, 53631), (471, 53628), (607, 53268), (612, 53235), (617, 53214), (647, 53121), (651, 53112), (668, 53049), (683, 53013), (685, 53010), (691, 52995), (717, 52917), (722, 52905), (730, 52884), (748, 52845), (775, 52755), (779, 52737), (781, 52731), (785, 52716), (793, 52692), (795, 52677), (796, 52674), (799, 52662), (809, 52638), (830, 52590), (840, 52566),

Gene: Eula_43 Start: 29571, Stop: 31445, Start Num: 182

Candidate Starts for Eula_43:

(Start: 179 @29568 has 7 MA's), (Start: 182 @29571 has 49 MA's), (216, 29640), (224, 29661), (307, 29841), (328, 29907), (340, 29949), (476, 30243), (523, 30378), (564, 30477), (598, 30600), (611, 30660), (614, 30666), (625, 30711), (635, 30741), (644, 30777), (656, 30813), (680, 30906), (713, 30999), (747, 31077), (770, 31149), (778, 31188), (791, 31230), (794, 31248), (812, 31308), (820, 31329),

Gene: Euphoria_43 Start: 34128, Stop: 32302, Start Num: 191

Candidate Starts for Euphoria_43:

(Start: 191 @34128 has 828 MA's), (274, 33915), (283, 33900), (307, 33852), (314, 33822), (322, 33801), (326, 33795), (328, 33786), (365, 33669), (372, 33642), (420, 33549), (428, 33534), (446, 33501), (470, 33450), (472, 33447), (494, 33381), (508, 33351), (518, 33321), (534, 33276), (556, 33237), (611, 33057), (618, 33027), (623, 33009), (625, 33006), (637, 32970), (656, 32904), (683, 32823), (685, 32820), (712, 32739), (770, 32589), (771, 32586), (778, 32550), (785, 32526), (788, 32517), (792, 32505), (795, 32487), (798, 32478), (812, 32430), (820, 32409),

Gene: Euratis_35 Start: 26897, Stop: 28750, Start Num: 191

Candidate Starts for Euratis_35:

(Start: 191 @26897 has 828 MA's), (201, 26918), (221, 26978), (236, 27011), (271, 27098), (296, 27146), (314, 27200), (315, 27203), (322, 27221), (326, 27227), (339, 27275), (361, 27344), (371, 27377), (423, 27476), (454, 27533), (458, 27548), (470, 27575), (476, 27587), (482, 27605), (493, 27641), (512, 27683), (515, 27692), (528, 27734), (532, 27740), (560, 27800), (563, 27809), (598, 27938), (611, 27998), (623, 28049), (631, 28064), (644, 28121), (646, 28127), (647, 28130), (651, 28139), (656, 28157), (661, 28172), (665, 28202), (679, 28256), (713, 28352), (752, 28439), (765, 28481), (775, 28526), (778, 28541), (781, 28550), (789, 28577), (795, 28604), (812, 28661), (814, 28667), (820, 28682), (824, 28691),

Gene: Eurydice_46 Start: 31567, Stop: 29741, Start Num: 191

Candidate Starts for Eurydice_46:

(Start: 191 @31567 has 828 MA's), (201, 31546), (209, 31516), (221, 31486), (291, 31324), (300, 31306), (326, 31234), (328, 31225), (366, 31105), (372, 31081), (420, 30988), (448, 30940), (458, 30919), (476, 30880), (523, 30748), (532, 30727), (556, 30682), (559, 30670), (609, 30517), (611, 30496), (646, 30373), (656, 30343), (666, 30304), (683, 30238), (685, 30235), (691, 30220), (698, 30196), (704, 30172), (775, 29965), (812, 29830), (816, 29818), (820, 29809),

Gene: Evaa_50 Start: 46072, Stop: 44267, Start Num: 177

Candidate Starts for Evaa_50:

(154, 46111), (Start: 177 @46072 has 10 MA's), (201, 46036), (233, 45955), (235, 45949), (254, 45895), (272, 45853), (347, 45658), (357, 45631), (372, 45592), (389, 45535), (400, 45499), (410, 45463), (471, 45346), (589, 45055), (601, 45016), (607, 44992), (608, 44986), (612, 44959), (616, 44947), (645, 44854), (647, 44848), (651, 44839), (668, 44776), (683, 44740), (691, 44722), (717, 44644), (722, 44632), (730, 44611), (748, 44572), (765, 44527), (771, 44503), (781, 44458), (793, 44419), (795, 44404), (809, 44365), (840, 44293),

Gene: EvilGenius_47 Start: 33208, Stop: 31421, Start Num: 191

Candidate Starts for EvilGenius_47:

(Start: 191 @33208 has 828 MA's), (272, 33001), (274, 32995), (283, 32980), (291, 32965), (308, 32929), (314, 32902), (326, 32875), (331, 32854), (355, 32773), (372, 32722), (420, 32629), (446, 32581), (451, 32572), (458, 32557), (484, 32491), (532, 32362), (534, 32356), (611, 32137), (625, 32086), (636, 32053), (637, 32050), (656, 31984), (666, 31945), (676, 31924), (701, 31849), (704, 31837), (726, 31786), (754, 31723), (760, 31705), (770, 31669), (775, 31645), (795, 31567), (812, 31510), (816, 31498), (820, 31489),

Gene: Exile_36 Start: 30877, Stop: 32721, Start Num: 191

Candidate Starts for Exile_36:

(Start: 191 @30877 has 828 MA's), (297, 31123), (457, 31516), (476, 31558), (481, 31573), (484, 31585), (515, 31663), (523, 31690), (527, 31702), (532, 31711), (583, 31849), (611, 31969), (618, 31999), (656, 32122), (664, 32152), (680, 32215), (685, 32224), (775, 32482), (789, 32533), (791, 32539), (794, 32557), (812, 32617),

Gene: Expelliarmus_42 Start: 30600, Stop: 28756, Start Num: 191

Candidate Starts for Expelliarmus_42:

(95, 30765), (Start: 191 @30600 has 828 MA's), (209, 30549), (262, 30426), (271, 30396), (291, 30357), (307, 30324), (314, 30294), (322, 30273), (326, 30267), (328, 30258), (355, 30165), (372, 30114), (420, 30018), (435, 29991), (444, 29973), (446, 29970), (451, 29961), (476, 29907), (484, 29880), (502, 29832), (523, 29775), (534, 29748), (559, 29697), (566, 29682), (609, 29535), (611, 29514), (618, 29484), (623, 29466), (625, 29463), (632, 29448), (637, 29427), (639, 29418), (646, 29391), (651, 29379), (656, 29361), (683, 29280), (689, 29268), (704, 29214), (719, 29178), (733, 29142), (750, 29109), (758, 29088), (760, 29082), (771, 29043), (775, 29022), (779, 29004), (812, 28887), (816, 28875),

Gene: ExplosioNervosa_45 Start: 31573, Stop: 29780, Start Num: 191

Candidate Starts for ExplosioNervosa_45:

(Start: 191 @31573 has 828 MA's), (196, 31564), (209, 31522), (261, 31402), (262, 31399), (279, 31351), (308, 31291), (315, 31261), (319, 31249), (326, 31237), (372, 31084), (420, 30991), (484, 30853), (494, 30823), (559, 30664), (565, 30652), (579, 30625), (609, 30517), (611, 30496), (651, 30361), (656, 30343), (683, 30262), (698, 30220), (726, 30145), (758, 30070), (770, 30028), (795, 29926), (812, 29869), (816, 29857), (820, 29848),

Gene: Eyeball_46 Start: 35014, Stop: 33227, Start Num: 191

Candidate Starts for Eyeball_46:

(Start: 191 @35014 has 828 MA's), (274, 34801), (283, 34786), (314, 34708), (322, 34687), (326, 34681), (328, 34672), (365, 34555), (372, 34528), (420, 34435), (428, 34420), (470, 34336), (472, 34333), (494, 34267), (508, 34237), (518, 34207), (534, 34162), (556, 34123), (611, 33943), (623, 33895), (637, 33856), (656, 33790), (679, 33718), (683, 33709), (712, 33625), (750, 33538), (785, 33412), (789, 33400), (812, 33316), (814, 33310),

Gene: Fajezeel_47 Start: 35124, Stop: 33337, Start Num: 191

Candidate Starts for Fajezeel_47:

(Start: 191 @35124 has 828 MA's), (274, 34911), (283, 34896), (307, 34848), (314, 34818), (322, 34797), (326, 34791), (328, 34782), (365, 34665), (372, 34638), (420, 34545), (428, 34530), (446, 34497), (470, 34446), (472, 34443), (494, 34377), (508, 34347), (518, 34317), (534, 34272), (556, 34233), (611, 34053), (623, 34005), (637, 33966), (656, 33900), (679, 33828), (683, 33819), (712, 33735), (750, 33648), (785, 33522), (789, 33510), (812, 33426), (814, 33420),

Gene: Fameo_44 Start: 31472, Stop: 29685, Start Num: 191

Candidate Starts for Fameo_44:

(27, 31850), (74, 31661), (89, 31622), (Start: 191 @31472 has 828 MA's), (271, 31268), (272, 31265), (274, 31259), (283, 31244), (291, 31229), (307, 31196), (308, 31193), (314, 31166), (326, 31139), (331, 31118), (372, 30986), (420, 30893), (439, 30857), (446, 30845), (451, 30836), (458, 30821), (484, 30755), (515, 30674), (532, 30626), (534, 30620), (565, 30557), (611, 30401), (625, 30350), (636, 30317), (637, 30314), (656, 30248), (666, 30209), (676, 30188), (701, 30113), (704, 30101), (754, 29987), (760, 29969), (768, 29942), (770, 29933), (775, 29909), (795, 29831), (812, 29774), (816, 29762), (820, 29753),

Gene: Fang_62 Start: 54292, Stop: 52433, Start Num: 149

Candidate Starts for Fang_62:

(Start: 133 @54316 has 1 MA's), (Start: 149 @54292 has 248 MA's), (Start: 174 @54268 has 5 MA's), (Start: 186 @54262 has 3 MA's), (205, 54220), (212, 54199), (254, 54085), (256, 54079), (269, 54049), (296, 53989), (306, 53968), (323, 53914), (327, 53902), (332, 53884), (335, 53872), (372, 53767), (389, 53710), (400, 53674), (402, 53662), (411, 53635), (421, 53608), (432, 53590), (442, 53572), (465, 53533), (469, 53524), (471, 53521), (576, 53263), (607, 53161), (612, 53128), (617, 53107), (647, 53014), (651, 53005), (668, 52942), (683, 52906), (685, 52903), (691, 52888), (717, 52810), (722, 52798), (730, 52777), (748, 52738), (775, 52648), (779, 52630), (781, 52624), (785, 52609), (793, 52585), (795, 52570), (796, 52567), (799, 52555), (809, 52531), (830, 52483), (840, 52459),

Gene: Farber_48 Start: 31846, Stop: 30032, Start Num: 191

Candidate Starts for Farber_48:

(Start: 191 @31846 has 828 MA's), (206, 31807), (209, 31795), (271, 31642), (276, 31627), (307, 31570), (326, 31513), (328, 31504), (340, 31462), (355, 31411), (372, 31360), (405, 31306), (420, 31267), (446, 31219), (458, 31195), (476, 31156), (484, 31129), (494, 31099), (528, 31006), (534, 30994), (558, 30946), (565, 30931), (611, 30775), (625, 30724), (636, 30691), (637, 30688), (656, 30622), (666, 30583), (685, 30511), (698, 30472), (704, 30448), (712, 30430), (726, 30397), (737, 30370), (760, 30316), (775, 30256), (795, 30178), (812, 30121), (816, 30109), (820, 30100),

Gene: Fascinus_41 Start: 33978, Stop: 32152, Start Num: 191

Candidate Starts for Fascinus_41:

(Start: 191 @33978 has 828 MA's), (274, 33765), (283, 33750), (307, 33702), (314, 33672), (322, 33651), (326, 33645), (328, 33636), (365, 33519), (372, 33492), (420, 33399), (428, 33384), (446, 33351), (470, 33300), (472, 33297), (494, 33231), (518, 33171), (534, 33126), (556, 33087), (611, 32907), (623, 32859), (637, 32820), (656, 32754), (666, 32715), (676, 32694), (683, 32673), (691, 32655), (712, 32589), (770, 32439), (771, 32436), (778, 32400), (785, 32376), (788, 32367), (792, 32355), (798, 32328), (812, 32280), (820, 32259),

Gene: Fayely_45 Start: 31516, Stop: 29723, Start Num: 191

Candidate Starts for Fayely_45:

(Start: 191 @31516 has 828 MA's), (196, 31507), (209, 31465), (261, 31345), (262, 31342), (279, 31294), (308, 31234), (315, 31204), (319, 31192), (326, 31180), (372, 31027), (420, 30934), (484, 30796), (494, 30766), (559, 30607), (565, 30595), (579, 30568), (609, 30460), (611, 30439), (651, 30304), (656, 30286), (683, 30205), (698, 30163), (726, 30088), (758, 30013), (770, 29971), (795, 29869), (812, 29812), (816, 29800), (820, 29791),

Gene: Faze9_56 Start: 52623, Stop: 50794, Start Num: 147

Candidate Starts for Faze9_56:

(Start: 147 @52623 has 31 MA's), (Start: 186 @52596 has 3 MA's), (202, 52566), (205, 52554), (215, 52527), (216, 52524), (221, 52515), (235, 52497), (272, 52401), (296, 52350), (307, 52326), (312, 52302), (358, 52164), (366, 52149), (368, 52140), (372, 52128), (389, 52071), (400, 52035), (402, 52023), (410, 51999), (456, 51915), (469, 51885), (471, 51882), (483, 51852), (542, 51708), (565, 51642), (589, 51591), (595, 51570), (601, 51552), (612, 51495), (633, 51438), (639, 51411), (647, 51381), (651, 51372), (668, 51306), (679, 51279), (683, 51270), (691, 51252), (698, 51228), (717, 51174), (722, 51162), (730, 51141), (760, 51072), (775, 51012), (779, 50994), (789, 50961), (793, 50949), (795, 50934), (796, 50931), (799, 50919), (809, 50895), (810, 50892), (830, 50844), (832, 50841), (840, 50820), (847, 50799),

Gene: Fenn_46 Start: 36445, Stop: 34658, Start Num: 191

Candidate Starts for Fenn_46:

(Start: 191 @36445 has 828 MA's), (274, 36232), (283, 36217), (307, 36169), (314, 36139), (326, 36112), (328, 36103), (365, 35986), (372, 35959), (420, 35866), (428, 35851), (446, 35818), (470, 35767), (472, 35764), (494, 35698), (518, 35638), (534, 35593), (556, 35554), (611, 35374), (623,

35326), (637, 35287), (656, 35221), (679, 35149), (683, 35140), (712, 35056), (750, 34969), (785, 34843), (789, 34831), (812, 34747), (814, 34741),

Gene: Fernando_48 Start: 31852, Stop: 30038, Start Num: 191

Candidate Starts for Fernando_48:

(Start: 191 @31852 has 828 MA's), (206, 31813), (209, 31801), (271, 31648), (276, 31633), (307, 31576), (326, 31519), (328, 31510), (340, 31468), (355, 31417), (372, 31366), (420, 31273), (446, 31225), (451, 31216), (458, 31201), (476, 31162), (484, 31135), (494, 31105), (528, 31012), (558, 30952), (565, 30937), (611, 30781), (637, 30694), (656, 30628), (666, 30589), (685, 30517), (698, 30478), (704, 30454), (712, 30436), (726, 30403), (737, 30376), (760, 30322), (775, 30262), (795, 30184), (812, 30127), (816, 30115), (820, 30106),

Gene: Fibonacci_44 Start: 30330, Stop: 28543, Start Num: 191

Candidate Starts for Fibonacci_44:

(Start: 191 @30330 has 828 MA's), (271, 30126), (307, 30054), (314, 30024), (326, 29997), (423, 29745), (451, 29694), (484, 29613), (501, 29568), (502, 29565), (532, 29484), (559, 29427), (581, 29385), (592, 29340), (611, 29259), (625, 29208), (637, 29172), (656, 29106), (676, 29046), (679, 29034), (716, 28932), (726, 28908), (732, 28890), (760, 28827), (768, 28800), (770, 28791), (775, 28767), (812, 28632), (816, 28620), (820, 28611),

Gene: Finalfrontier_43 Start: 30430, Stop: 32304, Start Num: 182

Candidate Starts for Finalfrontier_43:

(Start: 179 @30427 has 7 MA's), (Start: 182 @30430 has 49 MA's), (216, 30499), (224, 30520), (307, 30700), (328, 30766), (340, 30808), (476, 31102), (523, 31237), (564, 31336), (598, 31459), (611, 31519), (614, 31525), (625, 31570), (632, 31585), (635, 31600), (644, 31636), (656, 31672), (680, 31765), (713, 31858), (747, 31936), (770, 32008), (778, 32047), (791, 32089), (794, 32107), (812, 32167), (820, 32188),

Gene: FiringLine_44 Start: 31266, Stop: 29479, Start Num: 191

Candidate Starts for FiringLine_44:

(61, 31521), (Start: 191 @31266 has 828 MA's), (271, 31062), (272, 31059), (274, 31053), (283, 31038), (291, 31023), (307, 30990), (308, 30987), (314, 30960), (326, 30933), (331, 30912), (340, 30882), (372, 30780), (420, 30687), (446, 30639), (451, 30630), (458, 30615), (484, 30549), (515, 30468), (532, 30420), (534, 30414), (565, 30351), (592, 30276), (611, 30195), (625, 30144), (636, 30111), (637, 30108), (656, 30042), (666, 30003), (676, 29982), (701, 29907), (706, 29889), (726, 29844), (737, 29817), (754, 29781), (758, 29769), (760, 29763), (770, 29727), (775, 29703), (795, 29625), (812, 29568), (816, 29556), (820, 29547),

Gene: First_0044 Start: 31142, Stop: 29355, Start Num: 191

Candidate Starts for First_0044:

(26, 31559), (Start: 191 @31142 has 828 MA's), (271, 30938), (272, 30935), (274, 30929), (283, 30914), (291, 30899), (307, 30866), (308, 30863), (314, 30836), (326, 30809), (331, 30788), (340, 30758), (372, 30656), (420, 30563), (425, 30554), (446, 30515), (451, 30506), (458, 30491), (484, 30425), (515, 30344), (532, 30296), (534, 30290), (565, 30227), (592, 30152), (611, 30071), (636, 29987), (637, 29984), (656, 29918), (666, 29879), (676, 29858), (701, 29783), (706, 29765), (712, 29753), (726, 29720), (737, 29693), (754, 29657), (760, 29639), (770, 29603), (775, 29579), (791, 29522), (795, 29501), (812, 29444), (816, 29432), (820, 29423),

Gene: FlameThrower_40 Start: 29788, Stop: 31659, Start Num: 182

Candidate Starts for FlameThrower_40:

(Start: 182 @29788 has 49 MA's), (216, 29857), (261, 29962), (264, 29971), (328, 30124), (361, 30220), (365, 30229), (381, 30274), (438, 30379), (456, 30415), (476, 30460), (481, 30475), (515, 30568), (611, 30874), (625, 30925), (632, 30940), (644, 30991), (656, 31027), (680, 31120), (704,

31192), (747, 31291), (770, 31363), (775, 31387), (791, 31444), (804, 31498), (812, 31522), (820, 31543),

Gene: Flare16_44 Start: 31360, Stop: 29573, Start Num: 191

Candidate Starts for Flare16_44:

(Start: 191 @31360 has 828 MA's), (271, 31156), (272, 31153), (274, 31147), (291, 31117), (307, 31084), (308, 31081), (314, 31054), (326, 31027), (340, 30976), (372, 30874), (420, 30781), (446, 30733), (451, 30724), (458, 30709), (484, 30643), (515, 30562), (532, 30514), (592, 30370), (611, 30289), (625, 30238), (636, 30205), (656, 30136), (666, 30097), (676, 30076), (683, 30055), (689, 30043), (758, 29863), (760, 29857), (770, 29821), (775, 29797), (795, 29719), (812, 29662), (816, 29650),

Gene: Flaverint_45 Start: 30777, Stop: 28990, Start Num: 191

Candidate Starts for Flaverint_45:

(Start: 191 @30777 has 828 MA's), (271, 30573), (307, 30501), (314, 30471), (326, 30444), (423, 30192), (451, 30141), (484, 30060), (501, 30015), (559, 29874), (581, 29832), (592, 29787), (611, 29706), (625, 29655), (637, 29619), (656, 29553), (676, 29493), (679, 29481), (716, 29379), (726, 29355), (732, 29337), (760, 29274), (768, 29247), (770, 29238), (775, 29214), (812, 29079), (816, 29067), (820, 29058),

Gene: Floof_49 Start: 32023, Stop: 33888, Start Num: 189

Candidate Starts for Floof_49:

(Start: 189 @32023 has 7 MA's), (314, 32320), (361, 32464), (423, 32617), (451, 32668), (476, 32725), (528, 32872), (532, 32878), (559, 32935), (561, 32941), (592, 33055), (611, 33136), (631, 33199), (642, 33247), (644, 33253), (657, 33292), (700, 33436), (702, 33448), (708, 33463), (713, 33475), (750, 33559), (779, 33667), (793, 33712), (812, 33784), (856, 33883),

Gene: Florean_45 Start: 31569, Stop: 29743, Start Num: 191

Candidate Starts for Florean_45:

(Start: 191 @31569 has 828 MA's), (201, 31548), (209, 31518), (221, 31488), (291, 31326), (300, 31308), (326, 31236), (328, 31227), (366, 31107), (372, 31083), (420, 30990), (448, 30942), (458, 30921), (476, 30882), (523, 30750), (532, 30729), (556, 30684), (559, 30672), (609, 30519), (611, 30498), (646, 30375), (656, 30345), (666, 30306), (683, 30240), (685, 30237), (691, 30222), (698, 30198), (704, 30174), (775, 29967), (812, 29832), (816, 29820), (820, 29811),

Gene: FluffyNinja_62 Start: 54312, Stop: 52453, Start Num: 149

Candidate Starts for FluffyNinja_62:

(Start: 133 @54336 has 1 MA's), (Start: 149 @54312 has 248 MA's), (Start: 174 @54288 has 5 MA's), (Start: 186 @54282 has 3 MA's), (205, 54240), (212, 54219), (254, 54105), (256, 54099), (269, 54069), (296, 54009), (306, 53988), (323, 53934), (327, 53922), (332, 53904), (335, 53892), (372, 53787), (389, 53730), (400, 53694), (402, 53682), (410, 53658), (414, 53646), (421, 53628), (432, 53610), (442, 53592), (465, 53553), (469, 53544), (471, 53541), (473, 53538), (607, 53181), (612, 53148), (617, 53127), (647, 53034), (651, 53025), (668, 52962), (683, 52926), (685, 52923), (691, 52908), (717, 52830), (722, 52818), (730, 52797), (748, 52758), (775, 52668), (779, 52650), (781, 52644), (785, 52629), (793, 52605), (795, 52590), (796, 52587), (799, 52575), (809, 52551), (830, 52503), (840, 52479),

Gene: Flux_45 Start: 31569, Stop: 29743, Start Num: 191

Candidate Starts for Flux_45:

(Start: 191 @31569 has 828 MA's), (201, 31548), (209, 31518), (221, 31488), (291, 31326), (300, 31308), (326, 31236), (328, 31227), (366, 31107), (372, 31083), (420, 30990), (448, 30942), (458, 30921), (476, 30882), (523, 30750), (532, 30729), (556, 30684), (559, 30672), (609, 30519), (611, 30498), (646, 30375), (656, 30345), (666, 30306), (683, 30240), (685, 30237), (691, 30222), (698, 30198),

30198), (704, 30174), (775, 29967), (812, 29832), (816, 29820), (820, 29811),

Gene: ForGetIt_38 Start: 30371, Stop: 28527, Start Num: 191

Candidate Starts for ForGetIt_38:

(Start: 191 @30371 has 828 MA's), (209, 30320), (235, 30260), (262, 30197), (271, 30167), (272, 30164), (302, 30107), (307, 30095), (314, 30065), (326, 30038), (355, 29936), (361, 29921), (372, 29885), (407, 29825), (420, 29789), (446, 29741), (483, 29657), (484, 29651), (513, 29579), (523, 29546), (528, 29531), (534, 29519), (576, 29420), (611, 29285), (618, 29255), (623, 29237), (625, 29234), (637, 29198), (639, 29189), (644, 29168), (647, 29159), (656, 29132), (657, 29129), (676, 29072), (683, 29051), (726, 28934), (750, 28880), (754, 28871), (760, 28853), (779, 28775), (794, 28718), (804, 28682), (812, 28658), (816, 28646),

Gene: Forsytheast_44 Start: 34479, Stop: 32653, Start Num: 191

Candidate Starts for Forsytheast_44:

(Start: 191 @34479 has 828 MA's), (274, 34266), (283, 34251), (314, 34173), (322, 34152), (326, 34146), (328, 34137), (365, 34020), (372, 33993), (420, 33900), (428, 33885), (439, 33864), (446, 33852), (470, 33801), (472, 33798), (494, 33732), (508, 33702), (518, 33672), (534, 33627), (556, 33588), (611, 33408), (623, 33360), (637, 33321), (656, 33255), (666, 33216), (676, 33195), (683, 33174), (691, 33156), (712, 33090), (770, 32940), (771, 32937), (778, 32901), (785, 32877), (788, 32868), (792, 32856), (812, 32781), (820, 32760),

Gene: Fortunato_54 Start: 54011, Stop: 52170, Start Num: 128

Candidate Starts for Fortunato_54:

(Start: 128 @54011 has 3 MA's), (Start: 141 @53993 has 23 MA's), (Start: 186 @53969 has 3 MA's), (201, 53942), (205, 53927), (212, 53906), (246, 53819), (293, 53714), (306, 53687), (310, 53672), (332, 53606), (341, 53576), (343, 53567), (347, 53564), (349, 53561), (389, 53441), (395, 53423), (400, 53405), (402, 53393), (411, 53366), (442, 53303), (465, 53264), (469, 53255), (471, 53252), (483, 53222), (494, 53186), (589, 52961), (590, 52958), (601, 52922), (612, 52865), (645, 52757), (647, 52751), (651, 52742), (683, 52643), (685, 52640), (691, 52625), (717, 52547), (722, 52535), (730, 52514), (733, 52505), (748, 52475), (760, 52445), (768, 52418), (775, 52385), (781, 52361), (793, 52322), (796, 52304), (799, 52292), (809, 52268), (826, 52226), (830, 52220), (840, 52196),

Gene: Forza_174 Start: 99637, Stop: 97856, Start Num: 188

Candidate Starts for Forza_174:

(Start: 188 @99637 has 4 MA's), (207, 99592), (216, 99565), (261, 99472), (284, 99412), (288, 99409), (291, 99400), (306, 99376), (317, 99334), (318, 99331), (334, 99286), (351, 99244), (370, 99190), (420, 99106), (464, 99022), (476, 98995), (481, 98980), (539, 98821), (556, 98797), (560, 98782), (565, 98773), (595, 98686), (603, 98659), (604, 98656), (609, 98635), (611, 98614), (624, 98563), (651, 98479), (658, 98452), (664, 98419), (670, 98377), (708, 98266), (719, 98239), (734, 98203), (739, 98194), (740, 98191), (745, 98182), (776, 98062), (781, 98041), (782, 98035), (793, 98002), (796, 97984), (798, 97978), (807, 97945), (812, 97930), (823, 97906), (824, 97903), (838, 97879),

Gene: Fozzie_61 Start: 54537, Stop: 52678, Start Num: 149

Candidate Starts for Fozzie_61:

(Start: 133 @54561 has 1 MA's), (Start: 149 @54537 has 248 MA's), (Start: 174 @54513 has 5 MA's), (Start: 186 @54507 has 3 MA's), (205, 54465), (212, 54444), (254, 54330), (256, 54324), (269, 54294), (296, 54234), (306, 54213), (323, 54159), (327, 54147), (332, 54129), (335, 54117), (372, 54012), (389, 53955), (400, 53919), (402, 53907), (410, 53883), (414, 53871), (421, 53853), (432, 53835), (442, 53817), (465, 53778), (469, 53769), (471, 53766), (473, 53763), (607, 53406), (612, 53373), (617, 53352), (647, 53259), (651, 53250), (668, 53187), (683, 53151), (685, 53148), (691, 53133), (717, 53055), (722, 53043), (730, 53022), (748, 52983), (775, 52893), (779, 52875), (781, 52869), (785, 52854), (793, 52830), (795, 52815), (796, 52812), (799, 52800), (809, 52776), (830,

52728), (840, 52704),

Gene: Francis47_44 Start: 35450, Stop: 33624, Start Num: 191

Candidate Starts for Francis47_44:

(Start: 191 @35450 has 828 MA's), (274, 35237), (283, 35222), (314, 35144), (322, 35123), (326, 35117), (328, 35108), (365, 34991), (372, 34964), (420, 34871), (428, 34856), (446, 34823), (470, 34772), (472, 34769), (494, 34703), (508, 34673), (518, 34643), (534, 34598), (556, 34559), (611, 34379), (618, 34349), (623, 34331), (625, 34328), (637, 34292), (656, 34226), (683, 34145), (685, 34142), (712, 34061), (766, 33926), (770, 33911), (771, 33908), (778, 33872), (785, 33848), (788, 33839), (792, 33827), (798, 33800), (812, 33752), (820, 33731),

Gene: Frankenweenie_74 Start: 49485, Stop: 47518, Start Num: 92

Candidate Starts for Frankenweenie_74:

(69, 49545), (Start: 92 @49485 has 10 MA's), (143, 49389), (197, 49317), (209, 49281), (214, 49269), (235, 49215), (250, 49167), (275, 49089), (299, 49041), (328, 48948), (331, 48936), (341, 48900), (345, 48885), (351, 48858), (363, 48831), (387, 48750), (399, 48705), (408, 48669), (430, 48618), (524, 48384), (535, 48357), (557, 48294), (585, 48234), (598, 48189), (613, 48123), (619, 48093), (627, 48072), (634, 48066), (701, 47904), (707, 47886), (748, 47832), (781, 47715), (784, 47703), (788, 47694), (792, 47682), (795, 47664), (810, 47616),

Gene: Frankicide_59 Start: 54077, Stop: 52218, Start Num: 149

Candidate Starts for Frankicide_59:

(Start: 133 @54101 has 1 MA's), (Start: 149 @54077 has 248 MA's), (Start: 174 @54053 has 5 MA's), (Start: 186 @54047 has 3 MA's), (205, 54005), (212, 53984), (254, 53870), (256, 53864), (269, 53834), (296, 53774), (306, 53753), (323, 53699), (327, 53687), (332, 53669), (335, 53657), (372, 53552), (389, 53495), (400, 53459), (402, 53447), (411, 53420), (414, 53411), (432, 53375), (465, 53318), (469, 53309), (471, 53306), (473, 53303), (607, 52946), (612, 52913), (617, 52892), (647, 52799), (651, 52790), (668, 52727), (683, 52691), (685, 52688), (691, 52673), (717, 52595), (722, 52583), (730, 52562), (748, 52523), (775, 52433), (779, 52415), (781, 52409), (785, 52394), (793, 52370), (795, 52355), (796, 52352), (799, 52340), (809, 52316), (830, 52268), (840, 52244),

Gene: Franklin22_41 Start: 28031, Stop: 29905, Start Num: 182

Candidate Starts for Franklin22_41:

(Start: 179 @28028 has 7 MA's), (Start: 182 @28031 has 49 MA's), (216, 28100), (271, 28238), (328, 28367), (332, 28382), (361, 28463), (476, 28703), (481, 28718), (490, 28748), (523, 28838), (575, 29012), (598, 29090), (611, 29150), (647, 29276), (656, 29303), (680, 29396), (704, 29468), (747, 29567), (748, 29570), (750, 29573), (791, 29720), (794, 29738), (812, 29798), (820, 29819), (831, 29843), (851, 29888),

Gene: Fred313_45 Start: 31127, Stop: 29289, Start Num: 191

Candidate Starts for Fred313_45:

(Start: 141 @31199 has 23 MA's), (Start: 191 @31127 has 828 MA's), (209, 31076), (271, 30923), (302, 30863), (307, 30851), (326, 30794), (328, 30785), (331, 30773), (366, 30665), (372, 30641), (420, 30545), (448, 30497), (476, 30437), (498, 30374), (523, 30305), (532, 30284), (565, 30215), (568, 30209), (582, 30170), (611, 30047), (637, 29960), (646, 29924), (656, 29894), (664, 29864), (685, 29783), (698, 29744), (704, 29720), (712, 29702), (760, 29573), (775, 29513), (812, 29378), (816, 29366), (820, 29357),

Gene: Frederick_53 Start: 53857, Stop: 52085, Start Num: 201

Candidate Starts for Frederick_53:

(Start: 128 @53929 has 3 MA's), (Start: 141 @53911 has 23 MA's), (Start: 186 @53884 has 3 MA's), (201, 53857), (205, 53842), (212, 53821), (246, 53734), (293, 53629), (306, 53602), (310, 53587), (332, 53521), (341, 53491), (343, 53482), (347, 53479), (349, 53476), (358, 53449), (372, 53413),

(389, 53356), (395, 53338), (400, 53320), (402, 53308), (411, 53281), (442, 53218), (465, 53179), (469, 53170), (471, 53167), (483, 53137), (494, 53101), (589, 52876), (590, 52873), (601, 52837), (612, 52780), (645, 52672), (647, 52666), (651, 52657), (683, 52558), (685, 52555), (691, 52540), (717, 52462), (722, 52450), (730, 52429), (733, 52420), (748, 52390), (760, 52360), (768, 52333), (775, 52300), (781, 52276), (793, 52237), (796, 52219), (799, 52207), (809, 52183), (826, 52141), (830, 52135), (840, 52111),

Gene: FrenchFry_57 Start: 52599, Stop: 50770, Start Num: 147

Candidate Starts for FrenchFry_57:

(Start: 147 @52599 has 31 MA's), (Start: 186 @52572 has 3 MA's), (202, 52542), (205, 52530), (215, 52503), (216, 52500), (221, 52491), (235, 52473), (272, 52377), (296, 52326), (307, 52302), (312, 52278), (358, 52140), (368, 52116), (372, 52104), (389, 52047), (400, 52011), (402, 51999), (410, 51975), (456, 51891), (469, 51861), (471, 51858), (483, 51828), (542, 51684), (565, 51618), (586, 51579), (589, 51567), (595, 51546), (601, 51528), (612, 51471), (639, 51387), (647, 51357), (651, 51348), (668, 51282), (679, 51255), (683, 51246), (691, 51228), (698, 51204), (717, 51150), (722, 51138), (730, 51117), (760, 51048), (775, 50988), (779, 50970), (789, 50937), (793, 50925), (795, 50910), (796, 50907), (799, 50895), (809, 50871), (810, 50868), (830, 50820), (832, 50817), (840, 50796), (847, 50775),

Gene: Fresco_51 Start: 45981, Stop: 44164, Start Num: 177

Candidate Starts for Fresco_51:

(34, 46302), (41, 46278), (Start: 177 @45981 has 10 MA's), (201, 45945), (205, 45930), (216, 45900), (265, 45774), (316, 45651), (324, 45636), (335, 45594), (372, 45498), (400, 45405), (460, 45276), (471, 45252), (595, 44940), (601, 44922), (612, 44865), (647, 44751), (651, 44742), (668, 44679), (685, 44640), (691, 44625), (717, 44547), (722, 44535), (730, 44514), (733, 44505), (768, 44418), (776, 44382), (778, 44370), (790, 44331), (793, 44322), (795, 44307), (809, 44262), (830, 44214), (840, 44190),

Gene: Freya_58 Start: 53738, Stop: 51879, Start Num: 149

Candidate Starts for Freya_58:

(Start: 133 @53762 has 1 MA's), (Start: 149 @53738 has 248 MA's), (Start: 174 @53714 has 5 MA's), (Start: 186 @53708 has 3 MA's), (205, 53666), (212, 53645), (254, 53531), (256, 53525), (269, 53495), (296, 53435), (306, 53414), (323, 53360), (327, 53348), (332, 53330), (335, 53318), (372, 53213), (389, 53156), (400, 53120), (402, 53108), (411, 53081), (421, 53054), (432, 53036), (442, 53018), (465, 52979), (469, 52970), (471, 52967), (576, 52709), (607, 52607), (612, 52574), (617, 52553), (647, 52460), (651, 52451), (668, 52388), (683, 52352), (685, 52349), (691, 52334), (717, 52256), (722, 52244), (730, 52223), (748, 52184), (775, 52094), (779, 52076), (781, 52070), (785, 52055), (793, 52031), (795, 52016), (796, 52013), (799, 52001), (809, 51977), (830, 51929), (840, 51905),

Gene: FriarPreacher_60 Start: 54124, Stop: 52265, Start Num: 149

Candidate Starts for FriarPreacher_60:

(Start: 133 @54148 has 1 MA's), (Start: 149 @54124 has 248 MA's), (Start: 174 @54100 has 5 MA's), (Start: 186 @54094 has 3 MA's), (205, 54052), (212, 54031), (254, 53917), (256, 53911), (269, 53881), (296, 53821), (306, 53800), (323, 53746), (327, 53734), (332, 53716), (335, 53704), (372, 53599), (389, 53542), (400, 53506), (402, 53494), (410, 53470), (414, 53458), (421, 53440), (432, 53422), (442, 53404), (465, 53365), (469, 53356), (471, 53353), (473, 53350), (607, 52993), (612, 52960), (617, 52939), (647, 52846), (651, 52837), (668, 52774), (683, 52738), (685, 52735), (691, 52720), (717, 52642), (722, 52630), (730, 52609), (748, 52570), (775, 52480), (779, 52462), (781, 52456), (785, 52441), (793, 52417), (795, 52402), (796, 52399), (799, 52387), (809, 52363), (830, 52315), (840, 52291),

Gene: Fringe_64 Start: 54914, Stop: 53055, Start Num: 149

Candidate Starts for Fringe_64:

(Start: 133 @54938 has 1 MA's), (Start: 149 @54914 has 248 MA's), (Start: 174 @54890 has 5 MA's), (Start: 186 @54884 has 3 MA's), (205, 54842), (212, 54821), (254, 54707), (256, 54701), (269, 54671), (296, 54611), (306, 54590), (323, 54536), (327, 54524), (332, 54506), (335, 54494), (372, 54389), (389, 54332), (400, 54296), (402, 54284), (410, 54260), (414, 54248), (421, 54230), (432, 54212), (442, 54194), (465, 54155), (469, 54146), (471, 54143), (473, 54140), (607, 53783), (612, 53750), (617, 53729), (647, 53636), (651, 53627), (668, 53564), (683, 53528), (685, 53525), (691, 53510), (717, 53432), (722, 53420), (730, 53399), (748, 53360), (775, 53270), (779, 53252), (781, 53246), (785, 53231), (793, 53207), (795, 53192), (796, 53189), (799, 53177), (809, 53153), (830, 53105), (840, 53081),

Gene: Froghopper_43 Start: 34120, Stop: 32291, Start Num: 191

Candidate Starts for Froghopper_43:

(Start: 191 @34120 has 828 MA's), (274, 33907), (283, 33892), (307, 33844), (314, 33814), (322, 33793), (326, 33787), (328, 33778), (365, 33661), (372, 33634), (420, 33541), (428, 33526), (470, 33442), (472, 33439), (494, 33373), (508, 33343), (518, 33313), (534, 33268), (556, 33229), (611, 33049), (623, 33001), (639, 32953), (651, 32914), (656, 32896), (666, 32857), (676, 32836), (683, 32815), (690, 32800), (733, 32677), (789, 32506), (794, 32482), (808, 32434), (812, 32422), (820, 32401), (823, 32395), (842, 32347), (849, 32332),

Gene: FugateOSU_61 Start: 55083, Stop: 53224, Start Num: 149

Candidate Starts for FugateOSU_61:

(Start: 133 @55107 has 1 MA's), (Start: 149 @55083 has 248 MA's), (Start: 174 @55059 has 5 MA's), (Start: 186 @55053 has 3 MA's), (205, 55011), (212, 54990), (254, 54876), (256, 54870), (269, 54840), (296, 54780), (306, 54759), (323, 54705), (327, 54693), (332, 54675), (335, 54663), (372, 54558), (389, 54501), (400, 54465), (402, 54453), (411, 54426), (421, 54399), (432, 54381), (442, 54363), (465, 54324), (469, 54315), (471, 54312), (576, 54054), (607, 53952), (612, 53919), (617, 53898), (647, 53805), (651, 53796), (668, 53733), (683, 53697), (685, 53694), (691, 53679), (717, 53601), (722, 53589), (730, 53568), (748, 53529), (775, 53439), (779, 53421), (781, 53415), (785, 53400), (793, 53376), (795, 53361), (796, 53358), (799, 53346), (809, 53322), (830, 53274), (840, 53250),

Gene: Funsized_59 Start: 56200, Stop: 54350, Start Num: 149

Candidate Starts for Funsized_59:

(11, 56692), (18, 56611), (29, 56536), (36, 56497), (37, 56494), (135, 56221), (Start: 149 @56200 has 248 MA's), (Start: 156 @56191 has 1 MA's), (201, 56143), (204, 56131), (272, 55960), (307, 55885), (312, 55861), (332, 55807), (334, 55798), (335, 55795), (339, 55783), (341, 55777), (372, 55690), (389, 55633), (393, 55621), (400, 55597), (402, 55585), (405, 55576), (410, 55561), (411, 55558), (414, 55549), (460, 55462), (465, 55450), (471, 55438), (481, 55414), (483, 55408), (520, 55324), (555, 55228), (589, 55141), (590, 55138), (601, 55102), (608, 55072), (612, 55045), (617, 55024), (626, 54994), (645, 54937), (647, 54931), (651, 54922), (668, 54859), (683, 54823), (685, 54820), (691, 54805), (712, 54739), (717, 54727), (722, 54715), (730, 54694), (733, 54685), (738, 54676), (760, 54625), (775, 54565), (781, 54541), (785, 54526), (793, 54502), (794, 54490), (795, 54487), (796, 54484), (799, 54472), (809, 54448), (817, 54424), (819, 54421), (826, 54406), (830, 54400), (840, 54376),

Gene: Funston_44 Start: 31570, Stop: 29744, Start Num: 191

Candidate Starts for Funston_44:

(Start: 191 @31570 has 828 MA's), (201, 31549), (209, 31519), (221, 31489), (291, 31327), (300, 31309), (326, 31237), (328, 31228), (366, 31108), (372, 31084), (420, 30991), (448, 30943), (458, 30922), (476, 30883), (523, 30751), (532, 30730), (556, 30685), (559, 30673), (609, 30520), (611, 30499), (646, 30376), (656, 30346), (666, 30307), (683, 30241), (685, 30238), (691, 30223), (698, 30199), (704, 30175), (775, 29968), (812, 29833), (816, 29821), (820, 29812),

Gene: Fushigi_43 Start: 32768, Stop: 30939, Start Num: 191

Candidate Starts for Fushigi_43:

(Start: 191 @32768 has 828 MA's), (274, 32555), (283, 32540), (314, 32462), (322, 32441), (326, 32435), (328, 32426), (365, 32309), (372, 32282), (420, 32189), (428, 32174), (446, 32141), (470, 32090), (472, 32087), (490, 32033), (494, 32021), (508, 31991), (518, 31961), (534, 31916), (556, 31877), (611, 31697), (623, 31649), (639, 31601), (651, 31562), (656, 31544), (666, 31505), (676, 31484), (683, 31463), (690, 31448), (733, 31325), (789, 31154), (794, 31130), (808, 31082), (812, 31070), (820, 31049), (823, 31043), (842, 30995), (849, 30980),

Gene: GMA2_66 Start: 70128, Stop: 68344, Start Num: 185

Candidate Starts for GMA2_66:

(Start: 185 @70128 has 2 MA's), (199, 70104), (236, 70014), (271, 69927), (288, 69897), (293, 69885), (317, 69822), (318, 69819), (334, 69774), (335, 69771), (336, 69768), (370, 69678), (376, 69663), (405, 69633), (420, 69594), (440, 69558), (464, 69510), (476, 69483), (481, 69468), (516, 69375), (539, 69309), (556, 69285), (609, 69126), (611, 69105), (655, 68958), (658, 68943), (663, 68913), (670, 68865), (671, 68862), (685, 68826), (700, 68781), (702, 68769), (708, 68754), (726, 68712), (740, 68679), (760, 68613), (770, 68577), (782, 68523), (785, 68514), (793, 68490), (812, 68418), (824, 68391), (838, 68367),

Gene: Gack_40 Start: 28093, Stop: 29955, Start Num: 182

Candidate Starts for Gack_40:

(Start: 147 @28039 has 31 MA's), (Start: 182 @28093 has 49 MA's), (201, 28114), (216, 28162), (328, 28429), (332, 28444), (361, 28525), (476, 28765), (564, 29017), (598, 29140), (611, 29200), (625, 29251), (647, 29326), (656, 29353), (680, 29446), (747, 29617), (748, 29620), (750, 29623), (771, 29692), (791, 29770), (812, 29848), (820, 29869), (831, 29893), (851, 29938),

Gene: Gadjet_59 Start: 54012, Stop: 52195, Start Num: 183

Candidate Starts for Gadjet_59:

(80, 54195), (Start: 183 @54012 has 42 MA's), (201, 53982), (274, 53802), (316, 53697), (331, 53649), (334, 53637), (343, 53607), (349, 53601), (372, 53538), (389, 53481), (400, 53445), (414, 53397), (471, 53292), (510, 53196), (533, 53145), (589, 53001), (601, 52962), (608, 52932), (612, 52905), (616, 52893), (645, 52797), (647, 52791), (651, 52782), (655, 52770), (674, 52698), (683, 52668), (691, 52650), (694, 52641), (717, 52572), (722, 52560), (730, 52539), (760, 52470), (765, 52455), (771, 52431), (775, 52410), (781, 52386), (793, 52347), (796, 52329), (799, 52317), (805, 52305), (809, 52293), (840, 52221),

Gene: Gadost_45 Start: 31574, Stop: 29748, Start Num: 191

Candidate Starts for Gadost_45:

(Start: 191 @31574 has 828 MA's), (201, 31553), (209, 31523), (221, 31493), (291, 31331), (300, 31313), (326, 31241), (328, 31232), (366, 31112), (372, 31088), (420, 30995), (448, 30947), (458, 30926), (476, 30887), (523, 30755), (532, 30734), (556, 30689), (559, 30677), (609, 30524), (611, 30503), (646, 30380), (656, 30350), (666, 30311), (683, 30245), (685, 30242), (691, 30227), (698, 30203), (704, 30179), (775, 29972), (812, 29837), (816, 29825), (820, 29816),

Gene: GageAP_45 Start: 34414, Stop: 32588, Start Num: 191

Candidate Starts for GageAP_45:

(Start: 191 @34414 has 828 MA's), (208, 34366), (274, 34201), (283, 34186), (314, 34108), (322, 34087), (326, 34081), (328, 34072), (365, 33955), (372, 33928), (420, 33835), (428, 33820), (470, 33736), (472, 33733), (494, 33667), (508, 33637), (518, 33607), (534, 33562), (556, 33523), (611, 33343), (618, 33313), (623, 33295), (625, 33292), (637, 33256), (656, 33190), (683, 33109), (685, 33106), (712, 33025), (770, 32875), (771, 32872), (778, 32836), (785, 32812), (788, 32803), (792, 32791), (812, 32716), (820, 32695),

Gene: Gail_49 Start: 33012, Stop: 31219, Start Num: 191

Candidate Starts for Gail_49:

(122, 33114), (Start: 191 @33012 has 828 MA's), (196, 33003), (207, 32970), (235, 32901), (271, 32808), (307, 32733), (308, 32730), (314, 32703), (326, 32676), (340, 32625), (366, 32547), (372, 32523), (420, 32430), (444, 32385), (484, 32292), (494, 32262), (556, 32115), (579, 32064), (592, 32016), (611, 31935), (632, 31869), (646, 31812), (656, 31782), (683, 31701), (726, 31584), (737, 31557), (770, 31467), (791, 31386), (795, 31365), (798, 31356), (812, 31308), (816, 31296), (820, 31287), (821, 31284),

Gene: Gandalf20_46 Start: 35478, Stop: 33652, Start Num: 191

Candidate Starts for Gandalf20_46:

(Start: 191 @35478 has 828 MA's), (274, 35265), (307, 35202), (314, 35172), (322, 35151), (326, 35145), (328, 35136), (365, 35019), (372, 34992), (420, 34899), (428, 34884), (439, 34863), (446, 34851), (470, 34800), (472, 34797), (494, 34731), (508, 34701), (518, 34671), (534, 34626), (556, 34587), (611, 34407), (623, 34359), (637, 34320), (656, 34254), (666, 34215), (676, 34194), (683, 34173), (691, 34155), (712, 34089), (770, 33939), (771, 33936), (778, 33900), (785, 33876), (788, 33867), (792, 33855), (798, 33828), (812, 33780), (820, 33759),

Gene: Garak_47 Start: 29791, Stop: 27950, Start Num: 191

Candidate Starts for Garak_47:

(Start: 191 @29791 has 828 MA's), (271, 29587), (307, 29512), (308, 29509), (314, 29482), (319, 29467), (326, 29455), (340, 29404), (368, 29314), (372, 29302), (420, 29209), (441, 29170), (451, 29152), (458, 29137), (484, 29071), (496, 29038), (498, 29035), (535, 28933), (565, 28873), (592, 28789), (611, 28708), (636, 28624), (637, 28621), (639, 28612), (646, 28585), (656, 28555), (676, 28495), (691, 28456), (770, 28240), (771, 28237), (775, 28216), (812, 28081), (816, 28069), (820, 28060), (821, 28057), (859, 27964),

Gene: GardenState_48 Start: 31425, Stop: 33290, Start Num: 189

Candidate Starts for GardenState_48:

(Start: 189 @31425 has 7 MA's), (314, 31722), (343, 31812), (476, 32127), (515, 32232), (518, 32241), (532, 32280), (561, 32343), (611, 32538), (631, 32601), (644, 32655), (646, 32661), (657, 32694), (679, 32781), (702, 32850), (713, 32877), (812, 33186),

Gene: Gareth_60 Start: 54536, Stop: 52677, Start Num: 149

Candidate Starts for Gareth_60:

(Start: 133 @54560 has 1 MA's), (Start: 149 @54536 has 248 MA's), (Start: 174 @54512 has 5 MA's), (Start: 186 @54506 has 3 MA's), (205, 54464), (212, 54443), (254, 54329), (256, 54323), (269, 54293), (296, 54233), (306, 54212), (323, 54158), (327, 54146), (332, 54128), (335, 54116), (372, 54011), (389, 53954), (400, 53918), (402, 53906), (411, 53879), (421, 53852), (432, 53834), (442, 53816), (465, 53777), (469, 53768), (471, 53765), (576, 53507), (607, 53405), (612, 53372), (617, 53351), (647, 53258), (651, 53249), (668, 53186), (683, 53150), (685, 53147), (691, 53132), (717, 53054), (722, 53042), (730, 53021), (748, 52982), (775, 52892), (779, 52874), (781, 52868), (785, 52853), (793, 52829), (795, 52814), (796, 52811), (799, 52799), (809, 52775), (830, 52727), (840, 52703),

Gene: GaugeLDP_43 Start: 31738, Stop: 29948, Start Num: 191

Candidate Starts for GaugeLDP_43:

(Start: 191 @31738 has 828 MA's), (271, 31534), (307, 31459), (308, 31456), (314, 31429), (319, 31414), (326, 31402), (368, 31261), (372, 31249), (420, 31156), (423, 31150), (446, 31108), (451, 31099), (458, 31084), (484, 31018), (515, 30937), (523, 30910), (532, 30889), (556, 30844), (582, 30787), (611, 30664), (636, 30580), (646, 30541), (656, 30511), (666, 30472), (683, 30430), (770, 30196), (795, 30094), (812, 30037), (816, 30025), (820, 30016),

Gene: Gemma_47 Start: 31749, Stop: 29935, Start Num: 191

Candidate Starts for Gemma_47:

(Start: 191 @31749 has 828 MA's), (206, 31710), (209, 31698), (271, 31545), (276, 31530), (307, 31473), (326, 31416), (328, 31407), (340, 31365), (355, 31314), (372, 31263), (420, 31170), (446, 31122), (458, 31098), (476, 31059), (484, 31032), (494, 31002), (528, 30909), (534, 30897), (558, 30849), (565, 30834), (611, 30678), (625, 30627), (636, 30594), (637, 30591), (656, 30525), (666, 30486), (685, 30414), (698, 30375), (704, 30351), (712, 30333), (726, 30300), (760, 30219), (775, 30159), (779, 30141), (795, 30081), (798, 30072), (812, 30024), (816, 30012), (820, 30003),

Gene: GeneCoco_61 Start: 54579, Stop: 52720, Start Num: 149

Candidate Starts for GeneCoco_61:

(Start: 133 @54603 has 1 MA's), (Start: 149 @54579 has 248 MA's), (Start: 174 @54555 has 5 MA's), (Start: 186 @54549 has 3 MA's), (205, 54507), (212, 54486), (254, 54372), (256, 54366), (269, 54336), (296, 54276), (306, 54255), (323, 54201), (327, 54189), (332, 54171), (335, 54159), (372, 54054), (389, 53997), (400, 53961), (402, 53949), (410, 53925), (414, 53913), (421, 53895), (432, 53877), (442, 53859), (465, 53820), (469, 53811), (471, 53808), (473, 53805), (576, 53550), (607, 53448), (612, 53415), (617, 53394), (647, 53301), (651, 53292), (668, 53229), (683, 53193), (685, 53190), (691, 53175), (717, 53097), (722, 53085), (730, 53064), (748, 53025), (775, 52935), (779, 52917), (781, 52911), (785, 52896), (793, 52872), (795, 52857), (796, 52854), (799, 52842), (809, 52818), (816, 52797), (830, 52770), (840, 52746), (845, 52731),

Gene: George_38 Start: 30595, Stop: 28730, Start Num: 191

Candidate Starts for George_38:

(Start: 191 @30595 has 828 MA's), (209, 30544), (235, 30484), (262, 30421), (271, 30391), (272, 30388), (302, 30331), (307, 30319), (314, 30289), (326, 30262), (372, 30109), (420, 30013), (446, 29965), (483, 29881), (484, 29875), (513, 29803), (523, 29770), (528, 29755), (534, 29743), (576, 29644), (611, 29509), (618, 29479), (623, 29461), (632, 29443), (637, 29422), (639, 29413), (656, 29356), (666, 29317), (676, 29296), (683, 29275), (704, 29209), (726, 29158), (750, 29104), (754, 29095), (760, 29077), (775, 29017), (779, 28999), (804, 28906), (812, 28882), (816, 28870), (859, 28765),

Gene: Georgie2_45 Start: 31311, Stop: 29524, Start Num: 191

Candidate Starts for Georgie2_45:

(61, 31566), (Start: 191 @31311 has 828 MA's), (271, 31107), (272, 31104), (274, 31098), (283, 31083), (291, 31068), (307, 31035), (308, 31032), (314, 31005), (326, 30978), (331, 30957), (340, 30927), (372, 30825), (420, 30732), (446, 30684), (451, 30675), (458, 30660), (484, 30594), (515, 30513), (532, 30465), (534, 30459), (565, 30396), (592, 30321), (611, 30240), (625, 30189), (636, 30156), (637, 30153), (656, 30087), (666, 30048), (676, 30027), (701, 29952), (706, 29934), (726, 29889), (737, 29862), (754, 29826), (758, 29814), (760, 29808), (770, 29772), (775, 29748), (795, 29670), (812, 29613), (816, 29601), (820, 29592),

Gene: Gervas_59 Start: 54101, Stop: 52284, Start Num: 183

Candidate Starts for Gervas_59:

(80, 54284), (Start: 183 @54101 has 42 MA's), (201, 54071), (274, 53891), (331, 53738), (334, 53726), (343, 53696), (349, 53690), (372, 53627), (375, 53621), (389, 53570), (400, 53534), (414, 53486), (471, 53381), (510, 53285), (533, 53234), (589, 53090), (601, 53051), (608, 53021), (612, 52994), (616, 52982), (645, 52886), (647, 52880), (651, 52871), (655, 52859), (674, 52787), (683, 52757), (691, 52739), (694, 52730), (717, 52661), (722, 52649), (730, 52628), (760, 52559), (765, 52544), (771, 52520), (775, 52499), (781, 52475), (793, 52436), (796, 52418), (799, 52406), (805, 52394), (809, 52382), (826, 52340), (840, 52310),

Gene: Ghoulboy_40 Start: 31108, Stop: 29243, Start Num: 191

Candidate Starts for Ghoulboy_40:

(Start: 191 @31108 has 828 MA's), (209, 31057), (235, 30997), (262, 30934), (271, 30904), (272, 30901), (302, 30844), (314, 30802), (326, 30775), (372, 30622), (420, 30526), (438, 30493), (446, 30478), (483, 30394), (484, 30388), (496, 30355), (528, 30268), (534, 30256), (556, 30217), (576, 30157), (611, 30022), (618, 29992), (623, 29974), (636, 29938), (637, 29935), (656, 29869), (666, 29830), (683, 29788), (691, 29770), (704, 29722), (706, 29716), (726, 29671), (750, 29617), (754, 29608), (760, 29590), (779, 29512), (794, 29455), (804, 29419), (812, 29395), (816, 29383), (867, 29251),

Gene: GiJojo_132 Start: 75350, Stop: 77386, Start Num: 100

Candidate Starts for GiJojo_132:

(48, 75179), (Start: 100 @75350 has 4 MA's), (139, 75416), (Start: 156 @75440 has 1 MA's), (Start: 194 @75494 has 1 MA's), (198, 75506), (209, 75539), (236, 75608), (298, 75770), (304, 75779), (339, 75899), (354, 75953), (356, 75956), (374, 76007), (378, 76019), (390, 76067), (396, 76088), (401, 76109), (413, 76157), (419, 76175), (544, 76481), (570, 76544), (607, 76661), (610, 76679), (653, 76799), (656, 76811), (669, 76871), (672, 76880), (675, 76889), (729, 77033), (736, 77048), (744, 77063), (772, 77147), (773, 77150), (776, 77168), (813, 77294), (837, 77354),

Gene: Gilberta_45 Start: 30767, Stop: 28980, Start Num: 191

Candidate Starts for Gilberta_45:

(Start: 191 @30767 has 828 MA's), (271, 30563), (307, 30491), (314, 30461), (326, 30434), (423, 30182), (451, 30131), (484, 30050), (501, 30005), (559, 29864), (581, 29822), (592, 29777), (611, 29696), (625, 29645), (637, 29609), (656, 29543), (676, 29483), (679, 29471), (716, 29369), (726, 29345), (732, 29327), (760, 29264), (768, 29237), (770, 29228), (775, 29204), (812, 29069), (816, 29057), (820, 29048),

Gene: GingkoMaracino_48 Start: 31739, Stop: 29925, Start Num: 191

Candidate Starts for GingkoMaracino_48:

(Start: 191 @31739 has 828 MA's), (206, 31700), (209, 31688), (271, 31535), (276, 31520), (307, 31463), (326, 31406), (328, 31397), (340, 31355), (355, 31304), (372, 31253), (420, 31160), (446, 31112), (451, 31103), (458, 31088), (476, 31049), (484, 31022), (494, 30992), (528, 30899), (534, 30887), (558, 30839), (565, 30824), (611, 30668), (623, 30620), (637, 30581), (656, 30515), (666, 30476), (685, 30404), (698, 30365), (704, 30341), (712, 30323), (726, 30290), (737, 30263), (760, 30209), (775, 30149), (795, 30071), (812, 30014), (816, 30002), (820, 29993),

Gene: Giraffe_61 Start: 54531, Stop: 52672, Start Num: 149

Candidate Starts for Giraffe_61:

(Start: 133 @54555 has 1 MA's), (Start: 149 @54531 has 248 MA's), (Start: 174 @54507 has 5 MA's), (Start: 186 @54501 has 3 MA's), (205, 54459), (212, 54438), (254, 54324), (256, 54318), (269, 54288), (296, 54228), (306, 54207), (323, 54153), (327, 54141), (332, 54123), (335, 54111), (372, 54006), (389, 53949), (400, 53913), (402, 53901), (411, 53874), (421, 53847), (432, 53829), (442, 53811), (465, 53772), (469, 53763), (471, 53760), (576, 53502), (607, 53400), (612, 53367), (617, 53346), (647, 53253), (651, 53244), (668, 53181), (683, 53145), (685, 53142), (691, 53127), (717, 53049), (722, 53037), (730, 53016), (748, 52977), (775, 52887), (779, 52869), (781, 52863), (785, 52848), (793, 52824), (795, 52809), (796, 52806), (799, 52794), (809, 52770), (830, 52722), (840, 52698),

Gene: Giroux_46 Start: 31554, Stop: 29716, Start Num: 191

Candidate Starts for Giroux_46:

(Start: 191 @31554 has 828 MA's), (209, 31503), (236, 31437), (271, 31350), (302, 31290), (307, 31278), (326, 31221), (328, 31212), (366, 31092), (372, 31068), (420, 30972), (448, 30924), (476, 30864), (498, 30801), (523, 30732), (532, 30711), (566, 30639), (582, 30597), (592, 30555), (611, 30474), (623, 30426), (646, 30351), (656, 30321), (664, 30291), (685, 30210), (698, 30171), (704,

30147), (712, 30129), (760, 30000), (775, 29940), (812, 29805), (816, 29793), (820, 29784),

Gene: Gladiator_45 Start: 29628, Stop: 27787, Start Num: 191

Candidate Starts for Gladiator_45:

(Start: 191 @29628 has 828 MA's), (271, 29424), (307, 29349), (308, 29346), (314, 29319), (319, 29304), (326, 29292), (340, 29241), (368, 29151), (372, 29139), (420, 29046), (441, 29007), (451, 28989), (458, 28974), (484, 28908), (496, 28875), (498, 28872), (535, 28770), (565, 28710), (592, 28626), (611, 28545), (636, 28461), (637, 28458), (639, 28449), (646, 28422), (651, 28410), (656, 28392), (676, 28332), (691, 28293), (770, 28077), (771, 28074), (775, 28053), (812, 27918), (816, 27906), (820, 27897), (821, 27894), (859, 27801),

Gene: Glass_57 Start: 52601, Stop: 50772, Start Num: 147

Candidate Starts for Glass_57:

(Start: 147 @52601 has 31 MA's), (Start: 186 @52574 has 3 MA's), (202, 52544), (205, 52532), (215, 52505), (216, 52502), (221, 52493), (235, 52475), (272, 52379), (296, 52328), (307, 52304), (358, 52142), (368, 52118), (372, 52106), (389, 52049), (400, 52013), (402, 52001), (410, 51977), (456, 51893), (469, 51863), (471, 51860), (483, 51830), (542, 51686), (565, 51620), (586, 51581), (589, 51569), (595, 51548), (601, 51530), (612, 51473), (633, 51416), (639, 51389), (647, 51359), (651, 51350), (668, 51284), (679, 51257), (683, 51248), (691, 51230), (698, 51206), (717, 51152), (722, 51140), (730, 51119), (760, 51050), (775, 50990), (779, 50972), (789, 50939), (793, 50927), (795, 50912), (796, 50909), (799, 50897), (809, 50873), (810, 50870), (830, 50822), (832, 50819), (840, 50798), (847, 50777),

Gene: GlenHope_59 Start: 53675, Stop: 51858, Start Num: 183

Candidate Starts for GlenHope_59:

(Start: 183 @53675 has 42 MA's), (201, 53645), (274, 53465), (331, 53312), (334, 53300), (343, 53270), (349, 53264), (372, 53201), (375, 53195), (389, 53144), (398, 53117), (400, 53108), (414, 53060), (471, 52955), (510, 52859), (533, 52808), (589, 52664), (601, 52625), (608, 52595), (612, 52568), (616, 52556), (645, 52460), (647, 52454), (651, 52445), (655, 52433), (674, 52361), (683, 52331), (691, 52313), (694, 52304), (717, 52235), (722, 52223), (730, 52202), (760, 52133), (765, 52118), (771, 52094), (775, 52073), (779, 52055), (781, 52049), (791, 52016), (793, 52010), (796, 51992), (799, 51980), (805, 51968), (809, 51956), (826, 51914), (840, 51884),

Gene: Godines_58 Start: 52884, Stop: 51055, Start Num: 147

Candidate Starts for Godines_58:

(Start: 147 @52884 has 31 MA's), (Start: 186 @52857 has 3 MA's), (205, 52815), (215, 52788), (216, 52785), (221, 52776), (235, 52758), (272, 52662), (296, 52611), (307, 52587), (312, 52563), (358, 52425), (368, 52401), (372, 52389), (389, 52332), (400, 52296), (402, 52284), (410, 52260), (456, 52176), (469, 52146), (471, 52143), (483, 52113), (542, 51969), (565, 51903), (586, 51864), (589, 51852), (595, 51831), (601, 51813), (612, 51756), (633, 51699), (639, 51672), (647, 51642), (651, 51633), (668, 51567), (679, 51540), (683, 51531), (691, 51513), (698, 51489), (717, 51435), (722, 51423), (730, 51402), (760, 51333), (775, 51273), (779, 51255), (789, 51222), (793, 51210), (795, 51195), (796, 51192), (799, 51180), (809, 51156), (810, 51153), (830, 51105), (832, 51102), (840, 51081), (847, 51060),

Gene: GodonK_188 Start: 97693, Stop: 95903, Start Num: 185

Candidate Starts for GodonK_188:

(Start: 185 @97693 has 2 MA's), (217, 97615), (230, 97588), (235, 97585), (265, 97507), (288, 97462), (291, 97453), (315, 97393), (317, 97387), (319, 97381), (334, 97339), (355, 97288), (370, 97243), (407, 97192), (423, 97153), (440, 97123), (447, 97114), (464, 97075), (476, 97048), (481, 97033), (504, 96967), (556, 96850), (583, 96790), (589, 96763), (592, 96751), (604, 96709), (611, 96667), (618, 96637), (636, 96580), (637, 96577), (670, 96427), (671, 96424), (680, 96397), (708, 96316), (734, 96253), (740, 96241), (745, 96232), (776, 96112), (782, 96085), (789, 96064), (793,

96052), (812, 95977), (821, 95956), (838, 95926),

Gene: Gollum_36 Start: 28113, Stop: 26329, Start Num: 191

Candidate Starts for Gollum_36:

(Start: 191 @28113 has 828 MA's), (288, 27879), (302, 27849), (306, 27840), (307, 27837), (319, 27792), (326, 27780), (340, 27729), (372, 27627), (380, 27606), (420, 27534), (444, 27489), (446, 27486), (466, 27444), (468, 27438), (476, 27423), (484, 27396), (523, 27291), (526, 27282), (534, 27264), (535, 27261), (556, 27225), (582, 27168), (611, 27045), (623, 26997), (656, 26892), (657, 26889), (676, 26832), (683, 26811), (700, 26763), (727, 26688), (758, 26619), (770, 26577), (775, 26553), (795, 26475), (812, 26418), (816, 26406), (820, 26397), (834, 26367), (839, 26349),

Gene: Gompeii16_44 Start: 35183, Stop: 33354, Start Num: 191

Candidate Starts for Gompeii16_44:

(Start: 191 @35183 has 828 MA's), (274, 34970), (283, 34955), (307, 34907), (314, 34877), (318, 34865), (322, 34856), (326, 34850), (328, 34841), (365, 34724), (372, 34697), (420, 34604), (428, 34589), (439, 34568), (446, 34556), (470, 34505), (472, 34502), (494, 34436), (508, 34406), (518, 34376), (534, 34331), (556, 34292), (611, 34112), (623, 34064), (639, 34016), (651, 33977), (656, 33959), (666, 33920), (676, 33899), (683, 33878), (690, 33863), (733, 33740), (789, 33569), (794, 33545), (808, 33497), (812, 33485), (820, 33464), (823, 33458), (842, 33410), (849, 33395),

Gene: Goose_44 Start: 30924, Stop: 29089, Start Num: 191

Candidate Starts for Goose_44:

(Start: 191 @30924 has 828 MA's), (209, 30873), (271, 30720), (283, 30696), (302, 30660), (307, 30648), (322, 30597), (326, 30591), (328, 30582), (351, 30498), (366, 30462), (368, 30450), (371, 30441), (372, 30438), (420, 30345), (448, 30297), (476, 30237), (484, 30210), (492, 30186), (522, 30108), (523, 30105), (532, 30084), (534, 30078), (566, 30012), (582, 29970), (611, 29847), (623, 29799), (646, 29724), (656, 29694), (666, 29655), (685, 29583), (698, 29544), (704, 29520), (706, 29514), (712, 29502), (756, 29394), (775, 29313), (781, 29289), (798, 29226), (812, 29178), (816, 29166), (820, 29157),

Gene: Gophee_62 Start: 54522, Stop: 52663, Start Num: 149

Candidate Starts for Gophee_62:

(Start: 133 @54546 has 1 MA's), (Start: 149 @54522 has 248 MA's), (Start: 174 @54498 has 5 MA's), (Start: 186 @54492 has 3 MA's), (205, 54450), (212, 54429), (254, 54315), (256, 54309), (269, 54279), (296, 54219), (306, 54198), (323, 54144), (327, 54132), (332, 54114), (335, 54102), (372, 53997), (389, 53940), (400, 53904), (402, 53892), (410, 53868), (414, 53856), (421, 53838), (432, 53820), (442, 53802), (465, 53763), (469, 53754), (471, 53751), (473, 53748), (607, 53391), (612, 53358), (617, 53337), (647, 53244), (651, 53235), (668, 53172), (683, 53136), (685, 53133), (691, 53118), (717, 53040), (722, 53028), (730, 53007), (748, 52968), (775, 52878), (779, 52860), (781, 52854), (785, 52839), (793, 52815), (795, 52800), (796, 52797), (799, 52785), (809, 52761), (816, 52740), (830, 52713), (840, 52689),

Gene: Gorgeous_54 Start: 36486, Stop: 34318, Start Num: 86

Candidate Starts for Gorgeous_54:

(85, 36489), (Start: 86 @36486 has 11 MA's), (106, 36432), (160, 36348), (235, 36195), (237, 36186), (253, 36141), (278, 36063), (287, 36054), (294, 36039), (301, 36024), (303, 36021), (323, 35964), (346, 35871), (362, 35829), (422, 35634), (430, 35622), (434, 35616), (449, 35592), (459, 35571), (468, 35550), (476, 35535), (479, 35529), (500, 35466), (517, 35415), (550, 35328), (571, 35268), (591, 35220), (615, 35118), (616, 35112), (620, 35085), (621, 35082), (629, 35061), (641, 35019), (643, 35013), (650, 34989), (659, 34947), (660, 34944), (665, 34917), (674, 34884), (677, 34872), (692, 34836), (698, 34812), (700, 34806), (701, 34800), (723, 34746), (744, 34698), (746, 34695), (764, 34635), (770, 34611), (777, 34581), (790, 34527), (809, 34458), (813, 34446), (828, 34407),

Gene: Graduation_48 Start: 36333, Stop: 34516, Start Num: 191

Candidate Starts for Graduation_48:

(Start: 191 @36333 has 828 MA's), (274, 36120), (283, 36105), (314, 36027), (322, 36006), (326, 36000), (328, 35991), (365, 35874), (372, 35847), (420, 35754), (428, 35739), (446, 35706), (470, 35655), (472, 35652), (494, 35586), (508, 35556), (518, 35526), (534, 35481), (556, 35442), (611, 35262), (623, 35214), (637, 35175), (656, 35109), (666, 35070), (676, 35049), (683, 35028), (691, 35010), (712, 34944), (770, 34794), (771, 34791), (778, 34755), (785, 34731), (788, 34722), (792, 34710), (812, 34635), (820, 34614),

Gene: Grand2040_60 Start: 54525, Stop: 52666, Start Num: 149

Candidate Starts for Grand2040_60:

(Start: 133 @54549 has 1 MA's), (Start: 149 @54525 has 248 MA's), (Start: 174 @54501 has 5 MA's), (Start: 186 @54495 has 3 MA's), (205, 54453), (212, 54432), (254, 54318), (256, 54312), (269, 54282), (296, 54222), (306, 54201), (323, 54147), (327, 54135), (332, 54117), (335, 54105), (372, 54000), (389, 53943), (400, 53907), (402, 53895), (410, 53871), (414, 53859), (421, 53841), (432, 53823), (442, 53805), (465, 53766), (469, 53757), (471, 53754), (473, 53751), (576, 53496), (607, 53394), (612, 53361), (617, 53340), (647, 53247), (651, 53238), (668, 53175), (683, 53139), (685, 53136), (691, 53121), (717, 53043), (722, 53031), (730, 53010), (748, 52971), (775, 52881), (779, 52863), (781, 52857), (785, 52842), (793, 52818), (795, 52803), (796, 52800), (799, 52788), (809, 52764), (816, 52743), (830, 52716), (840, 52692),

Gene: GrecoEtereo_45 Start: 34806, Stop: 32980, Start Num: 191

Candidate Starts for GrecoEtereo_45:

(Start: 191 @34806 has 828 MA's), (274, 34593), (283, 34578), (307, 34530), (314, 34500), (322, 34479), (326, 34473), (328, 34464), (365, 34347), (372, 34320), (420, 34227), (428, 34212), (446, 34179), (470, 34128), (472, 34125), (494, 34059), (508, 34029), (518, 33999), (534, 33954), (556, 33915), (611, 33735), (623, 33687), (637, 33648), (656, 33582), (666, 33543), (676, 33522), (683, 33501), (691, 33483), (712, 33417), (770, 33267), (771, 33264), (778, 33228), (785, 33204), (788, 33195), (792, 33183), (812, 33108), (820, 33087),

Gene: GreedyLawyer_45 Start: 29627, Stop: 27786, Start Num: 191

Candidate Starts for GreedyLawyer_45:

(Start: 191 @29627 has 828 MA's), (271, 29423), (307, 29348), (308, 29345), (314, 29318), (319, 29303), (326, 29291), (340, 29240), (368, 29150), (372, 29138), (420, 29045), (441, 29006), (451, 28988), (458, 28973), (484, 28907), (496, 28874), (498, 28871), (535, 28769), (565, 28709), (592, 28625), (611, 28544), (636, 28460), (637, 28457), (639, 28448), (646, 28421), (656, 28391), (676, 28331), (691, 28292), (770, 28076), (771, 28073), (775, 28052), (812, 27917), (816, 27905), (820, 27896), (821, 27893), (859, 27800),

Gene: Greg_47 Start: 35124, Stop: 33337, Start Num: 191

Candidate Starts for Greg_47:

(Start: 191 @35124 has 828 MA's), (274, 34911), (283, 34896), (307, 34848), (314, 34818), (322, 34797), (326, 34791), (328, 34782), (365, 34665), (372, 34638), (420, 34545), (428, 34530), (446, 34497), (470, 34446), (472, 34443), (494, 34377), (508, 34347), (518, 34317), (534, 34272), (556, 34233), (611, 34053), (623, 34005), (637, 33966), (656, 33900), (679, 33828), (683, 33819), (712, 33735), (750, 33648), (785, 33522), (789, 33510), (812, 33426), (814, 33420),

Gene: Gretchen_48 Start: 32640, Stop: 34505, Start Num: 189

Candidate Starts for Gretchen_48:

(110, 32514), (Start: 151 @32583 has 3 MA's), (Start: 189 @32640 has 7 MA's), (314, 32937), (361, 33081), (423, 33234), (476, 33342), (484, 33369), (508, 33429), (528, 33489), (532, 33495), (559, 33552), (561, 33558), (592, 33672), (611, 33753), (631, 33816), (644, 33870), (646, 33876), (700, 34053), (704, 34071), (708, 34080), (713, 34092), (750, 34176), (779, 34284), (793, 34329), (812,

34401), (844, 34479), (856, 34500),

Gene: Grif_48 Start: 31927, Stop: 30113, Start Num: 191

Candidate Starts for Grif_48:

(Start: 191 @31927 has 828 MA's), (206, 31888), (209, 31876), (271, 31723), (276, 31708), (307, 31651), (326, 31594), (328, 31585), (340, 31543), (355, 31492), (372, 31441), (420, 31348), (446, 31300), (451, 31291), (458, 31276), (476, 31237), (484, 31210), (494, 31180), (528, 31087), (534, 31075), (558, 31027), (565, 31012), (611, 30856), (637, 30769), (651, 30721), (656, 30703), (666, 30664), (685, 30592), (698, 30553), (704, 30529), (712, 30511), (726, 30478), (737, 30451), (760, 30397), (775, 30337), (795, 30259), (812, 30202), (816, 30190), (820, 30181),

Gene: Groundhog_41 Start: 30507, Stop: 28663, Start Num: 191

Candidate Starts for Groundhog_41:

(95, 30672), (Start: 191 @30507 has 828 MA's), (209, 30456), (262, 30333), (271, 30303), (291, 30264), (307, 30231), (314, 30201), (322, 30180), (326, 30174), (328, 30165), (340, 30123), (355, 30072), (371, 30024), (372, 30021), (420, 29925), (435, 29898), (444, 29880), (446, 29877), (451, 29868), (476, 29814), (484, 29787), (502, 29739), (523, 29682), (534, 29655), (559, 29604), (566, 29589), (609, 29442), (611, 29421), (618, 29391), (623, 29373), (625, 29370), (632, 29355), (637, 29334), (639, 29325), (646, 29298), (651, 29286), (656, 29268), (683, 29187), (689, 29175), (704, 29121), (719, 29085), (750, 29016), (758, 28995), (760, 28989), (771, 28950), (775, 28929), (779, 28911), (812, 28794), (816, 28782),

Gene: Groupthink_49 Start: 31753, Stop: 29939, Start Num: 191

Candidate Starts for Groupthink_49:

(Start: 191 @31753 has 828 MA's), (206, 31714), (209, 31702), (271, 31549), (276, 31534), (307, 31477), (326, 31420), (328, 31411), (340, 31369), (355, 31318), (372, 31267), (420, 31174), (446, 31126), (458, 31102), (476, 31063), (484, 31036), (494, 31006), (528, 30913), (534, 30901), (558, 30853), (565, 30838), (611, 30682), (625, 30631), (636, 30598), (637, 30595), (656, 30529), (666, 30490), (685, 30418), (698, 30379), (704, 30355), (712, 30337), (726, 30304), (760, 30223), (775, 30163), (779, 30145), (795, 30085), (798, 30076), (812, 30028), (816, 30016), (820, 30007),

Gene: Grub_48 Start: 31845, Stop: 30031, Start Num: 191

Candidate Starts for Grub_48:

(Start: 191 @31845 has 828 MA's), (206, 31806), (209, 31794), (271, 31641), (276, 31626), (307, 31569), (326, 31512), (328, 31503), (340, 31461), (355, 31410), (372, 31359), (420, 31266), (446, 31218), (451, 31209), (458, 31194), (476, 31155), (484, 31128), (494, 31098), (528, 31005), (534, 30993), (558, 30945), (565, 30930), (611, 30774), (637, 30687), (656, 30621), (666, 30582), (685, 30510), (698, 30471), (704, 30447), (712, 30429), (726, 30396), (737, 30369), (760, 30315), (775, 30255), (795, 30177), (812, 30120), (816, 30108), (820, 30099),

Gene: Grum1_48 Start: 31852, Stop: 30038, Start Num: 191

Candidate Starts for Grum1_48:

(Start: 191 @31852 has 828 MA's), (206, 31813), (209, 31801), (271, 31648), (276, 31633), (307, 31576), (326, 31519), (328, 31510), (340, 31468), (355, 31417), (372, 31366), (420, 31273), (446, 31225), (451, 31216), (458, 31201), (476, 31162), (484, 31135), (494, 31105), (528, 31012), (565, 30937), (611, 30781), (637, 30694), (656, 30628), (666, 30589), (685, 30517), (698, 30478), (704, 30454), (712, 30436), (726, 30403), (737, 30376), (760, 30322), (775, 30262), (795, 30184), (812, 30127), (816, 30115), (820, 30106),

Gene: Gruunaga_45 Start: 29627, Stop: 27786, Start Num: 191

Candidate Starts for Gruunaga_45:

(Start: 170 @29657 has 3 MA's), (Start: 191 @29627 has 828 MA's), (271, 29423), (307, 29348), (308, 29345), (314, 29318), (319, 29303), (326, 29291), (340, 29240), (368, 29150), (372, 29138), (420,

29045), (441, 29006), (451, 28988), (458, 28973), (484, 28907), (496, 28874), (498, 28871), (535, 28769), (565, 28709), (592, 28625), (611, 28544), (636, 28460), (637, 28457), (639, 28448), (646, 28421), (651, 28409), (656, 28391), (676, 28331), (691, 28292), (770, 28076), (771, 28073), (775, 28052), (812, 27917), (816, 27905), (820, 27896), (821, 27893), (859, 27800),

Gene: GtownJaz_48 Start: 31854, Stop: 30040, Start Num: 191

Candidate Starts for GtownJaz_48:

(Start: 191 @31854 has 828 MA's), (206, 31815), (209, 31803), (271, 31650), (276, 31635), (307, 31578), (326, 31521), (328, 31512), (340, 31470), (355, 31419), (372, 31368), (420, 31275), (446, 31227), (451, 31218), (458, 31203), (476, 31164), (484, 31137), (494, 31107), (528, 31014), (534, 31002), (558, 30954), (565, 30939), (611, 30783), (637, 30696), (651, 30648), (656, 30630), (666, 30591), (685, 30519), (698, 30480), (704, 30456), (712, 30438), (726, 30405), (737, 30378), (760, 30324), (775, 30264), (795, 30186), (812, 30129), (816, 30117), (820, 30108),

Gene: Gustav_47 Start: 36228, Stop: 33886, Start Num: 3

Candidate Starts for Gustav_47:

(1, 36366), (Start: 3 @36228 has 5 MA's), (12, 36123), (13, 36099), (19, 36045), (23, 36018), (25, 36006), (30, 35973), (35, 35946), (46, 35904), (50, 35886), (56, 35862), (64, 35823), (73, 35808), (78, 35784), (120, 35772), (216, 35610), (236, 35577), (239, 35562), (312, 35388), (323, 35361), (325, 35355), (339, 35310), (349, 35289), (370, 35232), (372, 35226), (376, 35217), (382, 35199), (384, 35193), (400, 35136), (453, 35022), (456, 35016), (457, 35013), (471, 34983), (483, 34953), (533, 34833), (584, 34707), (589, 34689), (598, 34659), (601, 34650), (612, 34593), (633, 34536), (639, 34512), (645, 34488), (647, 34482), (668, 34410), (678, 34383), (683, 34374), (685, 34371), (691, 34356), (698, 34332), (704, 34308), (717, 34278), (722, 34266), (730, 34245), (757, 34185), (764, 34152), (768, 34137), (781, 34080), (795, 34026), (796, 34023), (805, 33999), (809, 33987), (830, 33936), (840, 33912),

Gene: Gwendoluna_48 Start: 36544, Stop: 34718, Start Num: 191

Candidate Starts for Gwendoluna_48:

(Start: 191 @36544 has 828 MA's), (274, 36331), (283, 36316), (307, 36268), (314, 36238), (322, 36217), (326, 36211), (328, 36202), (365, 36085), (372, 36058), (420, 35965), (428, 35950), (446, 35917), (470, 35866), (472, 35863), (494, 35797), (508, 35767), (518, 35737), (534, 35692), (556, 35653), (611, 35473), (623, 35425), (637, 35386), (656, 35320), (666, 35281), (676, 35260), (683, 35239), (691, 35221), (712, 35155), (770, 35005), (771, 35002), (778, 34966), (785, 34942), (788, 34933), (792, 34921), (812, 34846), (820, 34825),

Gene: Gwilliam_62 Start: 54930, Stop: 53071, Start Num: 149

Candidate Starts for Gwilliam_62:

(Start: 133 @54954 has 1 MA's), (Start: 149 @54930 has 248 MA's), (Start: 174 @54906 has 5 MA's), (Start: 186 @54900 has 3 MA's), (205, 54858), (212, 54837), (254, 54723), (256, 54717), (269, 54687), (296, 54627), (306, 54606), (323, 54552), (327, 54540), (332, 54522), (335, 54510), (372, 54405), (389, 54348), (400, 54312), (402, 54300), (411, 54273), (421, 54246), (432, 54228), (442, 54210), (465, 54171), (469, 54162), (471, 54159), (607, 53799), (612, 53766), (617, 53745), (647, 53652), (651, 53643), (668, 53580), (683, 53544), (685, 53541), (691, 53526), (717, 53448), (722, 53436), (730, 53415), (748, 53376), (775, 53286), (779, 53268), (781, 53262), (785, 53247), (793, 53223), (795, 53208), (796, 53205), (799, 53193), (809, 53169), (830, 53121), (840, 53097),

Gene: Gyarad_0059 Start: 53612, Stop: 51753, Start Num: 149

Candidate Starts for Gyarad_0059:

(Start: 133 @53636 has 1 MA's), (Start: 149 @53612 has 248 MA's), (Start: 174 @53588 has 5 MA's), (Start: 186 @53582 has 3 MA's), (205, 53540), (212, 53519), (254, 53405), (256, 53399), (269, 53369), (296, 53309), (306, 53288), (323, 53234), (327, 53222), (332, 53204), (335, 53192), (372, 53087), (389, 53030), (400, 52994), (402, 52982), (411, 52955), (414, 52946), (432, 52910), (465,

52853), (469, 52844), (471, 52841), (473, 52838), (607, 52481), (612, 52448), (617, 52427), (647, 52334), (651, 52325), (668, 52262), (683, 52226), (685, 52223), (691, 52208), (717, 52130), (722, 52118), (730, 52097), (748, 52058), (775, 51968), (779, 51950), (781, 51944), (785, 51929), (793, 51905), (795, 51890), (796, 51887), (799, 51875), (809, 51851), (830, 51803), (840, 51779),

Gene: Gyzlar_41 Start: 32798, Stop: 30972, Start Num: 191

Candidate Starts for Gyzlar_41:

(Start: 191 @32798 has 828 MA's), (274, 32585), (283, 32570), (307, 32522), (314, 32492), (322, 32471), (326, 32465), (328, 32456), (365, 32339), (372, 32312), (420, 32219), (428, 32204), (446, 32171), (470, 32120), (472, 32117), (494, 32051), (508, 32021), (518, 31991), (534, 31946), (556, 31907), (611, 31727), (623, 31679), (637, 31640), (656, 31574), (666, 31535), (676, 31514), (683, 31493), (691, 31475), (712, 31409), (770, 31259), (771, 31256), (778, 31220), (785, 31196), (788, 31187), (792, 31175), (798, 31148), (812, 31100), (820, 31079),

Gene: HINdeR_41 Start: 32902, Stop: 31064, Start Num: 191

Candidate Starts for HINdeR_41:

(Start: 191 @32902 has 828 MA's), (201, 32881), (235, 32791), (262, 32728), (274, 32689), (295, 32653), (326, 32569), (331, 32548), (355, 32467), (368, 32428), (372, 32416), (416, 32332), (420, 32320), (435, 32293), (444, 32275), (448, 32272), (458, 32251), (476, 32212), (511, 32119), (522, 32083), (523, 32080), (532, 32059), (566, 31987), (573, 31966), (611, 31822), (623, 31774), (632, 31756), (639, 31726), (651, 31687), (656, 31669), (666, 31630), (683, 31561), (685, 31558), (698, 31519), (712, 31477), (713, 31474), (726, 31444), (758, 31354), (760, 31348), (775, 31288), (779, 31270), (789, 31237), (795, 31210), (812, 31153), (816, 31141), (820, 31132),

Gene: HSavage_59 Start: 54056, Stop: 52197, Start Num: 149

Candidate Starts for HSavage_59:

(Start: 133 @54080 has 1 MA's), (Start: 149 @54056 has 248 MA's), (Start: 174 @54032 has 5 MA's), (Start: 186 @54026 has 3 MA's), (205, 53984), (212, 53963), (254, 53849), (256, 53843), (269, 53813), (296, 53753), (306, 53732), (323, 53678), (327, 53666), (332, 53648), (335, 53636), (372, 53531), (389, 53474), (400, 53438), (402, 53426), (411, 53399), (432, 53354), (465, 53297), (469, 53288), (471, 53285), (473, 53282), (576, 53027), (607, 52925), (612, 52892), (617, 52871), (647, 52778), (651, 52769), (668, 52706), (683, 52670), (685, 52667), (691, 52652), (717, 52574), (722, 52562), (730, 52541), (748, 52502), (775, 52412), (779, 52394), (781, 52388), (785, 52373), (793, 52349), (795, 52334), (796, 52331), (799, 52319), (809, 52295), (830, 52247), (840, 52223),

Gene: Haimas_59 Start: 53973, Stop: 52114, Start Num: 149

Candidate Starts for Haimas_59:

(Start: 133 @53997 has 1 MA's), (Start: 149 @53973 has 248 MA's), (Start: 174 @53949 has 5 MA's), (Start: 186 @53943 has 3 MA's), (205, 53901), (212, 53880), (254, 53766), (256, 53760), (269, 53730), (296, 53670), (306, 53649), (323, 53595), (327, 53583), (332, 53565), (335, 53553), (372, 53448), (389, 53391), (400, 53355), (402, 53343), (411, 53316), (421, 53289), (432, 53271), (442, 53253), (465, 53214), (469, 53205), (471, 53202), (473, 53199), (576, 52944), (607, 52842), (612, 52809), (617, 52788), (647, 52695), (651, 52686), (668, 52623), (683, 52587), (685, 52584), (691, 52569), (717, 52491), (722, 52479), (730, 52458), (748, 52419), (775, 52329), (779, 52311), (781, 52305), (785, 52290), (793, 52266), (795, 52251), (796, 52248), (799, 52236), (809, 52212), (830, 52164), (840, 52140),

Gene: Haleema_59 Start: 54071, Stop: 52212, Start Num: 149

Candidate Starts for Haleema_59:

(Start: 133 @54095 has 1 MA's), (Start: 149 @54071 has 248 MA's), (Start: 174 @54047 has 5 MA's), (Start: 186 @54041 has 3 MA's), (205, 53999), (212, 53978), (254, 53864), (256, 53858), (269, 53828), (296, 53768), (306, 53747), (323, 53693), (327, 53681), (332, 53663), (335, 53651), (372, 53546), (389, 53489), (400, 53453), (402, 53441), (410, 53417), (414, 53405), (421, 53387), (432,

53369), (442, 53351), (465, 53312), (469, 53303), (471, 53300), (473, 53297), (607, 52940), (612, 52907), (617, 52886), (647, 52793), (651, 52784), (668, 52721), (683, 52685), (685, 52682), (691, 52667), (717, 52589), (722, 52577), (730, 52556), (748, 52517), (775, 52427), (779, 52409), (781, 52403), (785, 52388), (793, 52364), (795, 52349), (796, 52346), (799, 52334), (809, 52310), (830, 52262), (840, 52238),

Gene: Halfpint_57 Start: 53415, Stop: 51598, Start Num: 183

Candidate Starts for Halfpint_57:

(80, 53598), (Start: 183 @53415 has 42 MA's), (201, 53385), (274, 53205), (331, 53052), (334, 53040), (343, 53010), (349, 53004), (372, 52941), (375, 52935), (389, 52884), (400, 52848), (414, 52800), (471, 52695), (510, 52599), (533, 52548), (589, 52404), (601, 52365), (608, 52335), (612, 52308), (616, 52296), (645, 52200), (647, 52194), (651, 52185), (655, 52173), (674, 52101), (683, 52071), (691, 52053), (694, 52044), (717, 51975), (722, 51963), (730, 51942), (760, 51873), (765, 51858), (771, 51834), (775, 51813), (779, 51795), (781, 51789), (793, 51750), (796, 51732), (799, 51720), (809, 51696), (826, 51654), (840, 51624),

Gene: HamSlice_44 Start: 31568, Stop: 29742, Start Num: 191

Candidate Starts for HamSlice_44:

(Start: 191 @31568 has 828 MA's), (201, 31547), (209, 31517), (221, 31487), (291, 31325), (300, 31307), (326, 31235), (328, 31226), (366, 31106), (372, 31082), (420, 30989), (448, 30941), (458, 30920), (476, 30881), (523, 30749), (532, 30728), (556, 30683), (559, 30671), (609, 30518), (611, 30497), (646, 30374), (656, 30344), (666, 30305), (683, 30239), (685, 30236), (691, 30221), (698, 30197), (704, 30173), (775, 29966), (812, 29831), (816, 29819), (820, 29810),

Gene: Hami1_38 Start: 29239, Stop: 27413, Start Num: 191

Candidate Starts for Hami1_38:

(Start: 191 @29239 has 828 MA's), (274, 29026), (283, 29011), (307, 28963), (314, 28933), (322, 28912), (326, 28906), (328, 28897), (365, 28780), (372, 28753), (420, 28660), (428, 28645), (446, 28612), (470, 28561), (472, 28558), (494, 28492), (508, 28462), (518, 28432), (534, 28387), (556, 28348), (611, 28168), (618, 28138), (623, 28120), (637, 28081), (656, 28015), (683, 27934), (685, 27931), (712, 27850), (770, 27700), (771, 27697), (778, 27661), (785, 27637), (788, 27628), (792, 27616), (812, 27541), (820, 27520),

Gene: Hamish_59 Start: 53967, Stop: 52108, Start Num: 149

Candidate Starts for Hamish_59:

(Start: 133 @53991 has 1 MA's), (Start: 149 @53967 has 248 MA's), (Start: 174 @53943 has 5 MA's), (Start: 186 @53937 has 3 MA's), (205, 53895), (212, 53874), (254, 53760), (256, 53754), (269, 53724), (296, 53664), (306, 53643), (323, 53589), (327, 53577), (332, 53559), (335, 53547), (372, 53442), (389, 53385), (400, 53349), (402, 53337), (411, 53310), (421, 53283), (432, 53265), (442, 53247), (465, 53208), (469, 53199), (471, 53196), (473, 53193), (576, 52938), (607, 52836), (612, 52803), (617, 52782), (647, 52689), (651, 52680), (668, 52617), (683, 52581), (685, 52578), (691, 52563), (717, 52485), (722, 52473), (730, 52452), (748, 52413), (775, 52323), (779, 52305), (781, 52299), (785, 52284), (793, 52260), (795, 52245), (796, 52242), (799, 52230), (809, 52206), (830, 52158), (840, 52134),

Gene: Hammer_47 Start: 29790, Stop: 27991, Start Num: 191

Candidate Starts for Hammer_47:

(Start: 191 @29790 has 828 MA's), (271, 29586), (274, 29577), (307, 29511), (308, 29508), (314, 29481), (319, 29466), (326, 29454), (340, 29403), (368, 29313), (372, 29301), (420, 29208), (446, 29160), (451, 29151), (521, 28968), (586, 28818), (611, 28713), (625, 28656), (637, 28620), (639, 28611), (646, 28584), (656, 28554), (666, 28515), (676, 28494), (689, 28461), (691, 28455), (726, 28356), (754, 28293), (770, 28239), (775, 28215), (791, 28158), (812, 28080), (816, 28068), (820, 28059), (821, 28056),

Gene: HanShotFirst_43 Start: 33831, Stop: 32005, Start Num: 191

Candidate Starts for HanShotFirst_43:

(Start: 191 @33831 has 828 MA's), (274, 33618), (283, 33603), (307, 33555), (314, 33525), (322, 33504), (326, 33498), (328, 33489), (365, 33372), (372, 33345), (420, 33252), (428, 33237), (446, 33204), (470, 33153), (472, 33150), (494, 33084), (508, 33054), (518, 33024), (534, 32979), (556, 32940), (611, 32760), (623, 32712), (637, 32673), (656, 32607), (666, 32568), (676, 32547), (683, 32526), (691, 32508), (712, 32442), (770, 32292), (771, 32289), (778, 32253), (785, 32229), (788, 32220), (792, 32208), (812, 32133), (820, 32112),

Gene: Hangman_53 Start: 54053, Stop: 52230, Start Num: 141

Candidate Starts for Hangman_53:

(Start: 128 @54071 has 3 MA's), (Start: 141 @54053 has 23 MA's), (Start: 186 @54029 has 3 MA's), (201, 54002), (205, 53987), (212, 53966), (246, 53879), (293, 53774), (306, 53747), (310, 53732), (332, 53666), (341, 53636), (343, 53627), (347, 53624), (349, 53621), (358, 53594), (389, 53501), (395, 53483), (400, 53465), (402, 53453), (411, 53426), (442, 53363), (465, 53324), (469, 53315), (471, 53312), (483, 53282), (494, 53246), (589, 53021), (590, 53018), (601, 52982), (607, 52958), (612, 52925), (645, 52817), (647, 52811), (651, 52802), (683, 52703), (685, 52700), (691, 52685), (717, 52607), (722, 52595), (730, 52574), (733, 52565), (748, 52535), (768, 52478), (775, 52445), (781, 52421), (793, 52382), (796, 52364), (799, 52352), (809, 52328), (826, 52286), (830, 52280), (840, 52256),

Gene: Happiness_44 Start: 31575, Stop: 29749, Start Num: 191

Candidate Starts for Happiness_44:

(Start: 191 @31575 has 828 MA's), (201, 31554), (209, 31524), (221, 31494), (291, 31332), (300, 31314), (326, 31242), (328, 31233), (366, 31113), (372, 31089), (420, 30996), (448, 30948), (458, 30927), (476, 30888), (523, 30756), (532, 30735), (556, 30690), (559, 30678), (609, 30525), (611, 30504), (646, 30381), (656, 30351), (666, 30312), (683, 30246), (685, 30243), (691, 30228), (698, 30204), (704, 30180), (775, 29973), (812, 29838), (816, 29826), (820, 29817),

Gene: Harlequin_36 Start: 28118, Stop: 26334, Start Num: 191

Candidate Starts for Harlequin_36:

(Start: 191 @28118 has 828 MA's), (288, 27884), (302, 27854), (306, 27845), (307, 27842), (319, 27797), (326, 27785), (340, 27734), (372, 27632), (380, 27611), (420, 27539), (446, 27491), (476, 27428), (484, 27401), (523, 27296), (534, 27269), (556, 27230), (611, 27050), (623, 27002), (656, 26897), (657, 26894), (676, 26837), (683, 26816), (727, 26693), (758, 26624), (770, 26582), (775, 26558), (795, 26480), (812, 26423), (816, 26411), (839, 26354),

Gene: HarryHoudini_45 Start: 31805, Stop: 30018, Start Num: 191

Candidate Starts for HarryHoudini_45:

(Start: 191 @31805 has 828 MA's), (271, 31601), (272, 31598), (274, 31592), (291, 31562), (307, 31529), (308, 31526), (314, 31499), (326, 31472), (331, 31451), (340, 31421), (372, 31319), (420, 31226), (446, 31178), (451, 31169), (458, 31154), (484, 31088), (515, 31007), (532, 30959), (592, 30815), (611, 30734), (625, 30683), (636, 30650), (656, 30581), (666, 30542), (676, 30521), (683, 30500), (689, 30488), (758, 30308), (760, 30302), (770, 30266), (775, 30242), (795, 30164), (812, 30107), (816, 30095),

Gene: HarryOW_43 Start: 33978, Stop: 32152, Start Num: 191

Candidate Starts for HarryOW_43:

(Start: 191 @33978 has 828 MA's), (274, 33765), (283, 33750), (307, 33702), (314, 33672), (322, 33651), (326, 33645), (328, 33636), (365, 33519), (372, 33492), (420, 33399), (428, 33384), (446, 33351), (470, 33300), (472, 33297), (494, 33231), (508, 33201), (518, 33171), (534, 33126), (556, 33087), (611, 32907), (623, 32859), (637, 32820), (656, 32754), (666, 32715), (676, 32694), (683,

32673), (691, 32655), (712, 32589), (770, 32439), (771, 32436), (778, 32400), (785, 32376), (788, 32367), (792, 32355), (812, 32280), (820, 32259),

Gene: Hartsy_60 Start: 54405, Stop: 52546, Start Num: 149

Candidate Starts for Hartsy_60:

(Start: 133 @54429 has 1 MA's), (Start: 149 @54405 has 248 MA's), (Start: 174 @54381 has 5 MA's), (Start: 186 @54375 has 3 MA's), (205, 54333), (212, 54312), (254, 54198), (256, 54192), (269, 54162), (296, 54102), (306, 54081), (323, 54027), (327, 54015), (332, 53997), (335, 53985), (372, 53880), (389, 53823), (400, 53787), (402, 53775), (410, 53751), (414, 53739), (421, 53721), (432, 53703), (442, 53685), (465, 53646), (469, 53637), (471, 53634), (473, 53631), (607, 53274), (612, 53241), (617, 53220), (647, 53127), (651, 53118), (668, 53055), (683, 53019), (685, 53016), (691, 53001), (717, 52923), (722, 52911), (730, 52890), (748, 52851), (775, 52761), (779, 52743), (781, 52737), (785, 52722), (793, 52698), (795, 52683), (796, 52680), (799, 52668), (809, 52644), (830, 52596), (840, 52572),

Gene: Harvey_59 Start: 54060, Stop: 52201, Start Num: 149

Candidate Starts for Harvey_59:

(Start: 133 @54084 has 1 MA's), (Start: 149 @54060 has 248 MA's), (Start: 174 @54036 has 5 MA's), (Start: 186 @54030 has 3 MA's), (205, 53988), (212, 53967), (254, 53853), (256, 53847), (269, 53817), (296, 53757), (306, 53736), (323, 53682), (327, 53670), (332, 53652), (335, 53640), (372, 53535), (389, 53478), (400, 53442), (402, 53430), (411, 53403), (421, 53376), (432, 53358), (442, 53340), (465, 53301), (469, 53292), (471, 53289), (576, 53031), (607, 52929), (612, 52896), (617, 52875), (647, 52782), (651, 52773), (668, 52710), (685, 52671), (691, 52656), (717, 52578), (722, 52566), (730, 52545), (748, 52506), (775, 52416), (779, 52398), (781, 52392), (785, 52377), (793, 52353), (795, 52338), (796, 52335), (799, 52323), (809, 52299), (830, 52251), (840, 52227),

Gene: HarveySr_57 Start: 53268, Stop: 51448, Start Num: 180

Candidate Starts for HarveySr_57:

(80, 53448), (Start: 180 @53268 has 7 MA's), (201, 53235), (274, 53055), (316, 52950), (331, 52902), (334, 52890), (343, 52860), (349, 52854), (372, 52791), (375, 52785), (389, 52734), (398, 52707), (400, 52698), (414, 52650), (471, 52545), (510, 52449), (533, 52398), (589, 52254), (601, 52215), (608, 52185), (612, 52158), (616, 52146), (645, 52050), (647, 52044), (651, 52035), (655, 52023), (674, 51951), (683, 51921), (691, 51903), (694, 51894), (717, 51825), (722, 51813), (730, 51792), (760, 51723), (765, 51708), (771, 51684), (779, 51645), (781, 51639), (791, 51606), (793, 51600), (796, 51582), (799, 51570), (805, 51558), (809, 51546), (840, 51474),

Gene: HashRod_49 Start: 31884, Stop: 30070, Start Num: 191

Candidate Starts for HashRod_49:

(Start: 191 @31884 has 828 MA's), (206, 31845), (209, 31833), (271, 31680), (276, 31665), (307, 31608), (326, 31551), (328, 31542), (340, 31500), (355, 31449), (372, 31398), (405, 31344), (420, 31305), (446, 31257), (458, 31233), (476, 31194), (484, 31167), (494, 31137), (528, 31044), (534, 31032), (558, 30984), (565, 30969), (611, 30813), (625, 30762), (636, 30729), (637, 30726), (656, 30660), (666, 30621), (685, 30549), (698, 30510), (704, 30486), (712, 30468), (726, 30435), (760, 30354), (775, 30294), (798, 30207), (812, 30159), (816, 30147), (820, 30138), (821, 30135),

Gene: Hashim76_62 Start: 54527, Stop: 52683, Start Num: 170

Candidate Starts for Hashim76_62:

(Start: 170 @54527 has 3 MA's), (205, 54470), (215, 54443), (256, 54341), (296, 54254), (307, 54230), (314, 54200), (323, 54179), (331, 54155), (335, 54140), (341, 54122), (372, 54035), (400, 53942), (402, 53930), (414, 53894), (471, 53789), (533, 53642), (560, 53558), (562, 53552), (589, 53492), (590, 53489), (601, 53453), (607, 53429), (612, 53396), (645, 53288), (647, 53282), (651, 53273), (683, 53159), (691, 53141), (717, 53063), (722, 53051), (730, 53030), (760, 52961), (765, 52946), (775, 52901), (781, 52877), (793, 52838), (795, 52823), (799, 52808), (809, 52784), (826,

52739), (840, 52709),

Gene: HaveUMetTed_49 Start: 31735, Stop: 29921, Start Num: 191

Candidate Starts for HaveUMetTed_49:

(Start: 191 @31735 has 828 MA's), (206, 31696), (209, 31684), (271, 31531), (276, 31516), (307, 31459), (326, 31402), (328, 31393), (340, 31351), (355, 31300), (372, 31249), (420, 31156), (446, 31108), (458, 31084), (476, 31045), (484, 31018), (494, 30988), (528, 30895), (534, 30883), (558, 30835), (565, 30820), (611, 30664), (625, 30613), (636, 30580), (637, 30577), (656, 30511), (666, 30472), (685, 30400), (698, 30361), (704, 30337), (712, 30319), (726, 30286), (760, 30205), (775, 30145), (779, 30127), (795, 30067), (798, 30058), (812, 30010), (816, 29998), (820, 29989),

Gene: Heath_52 Start: 53664, Stop: 51841, Start Num: 141

Candidate Starts for Heath_52:

(Start: 128 @53682 has 3 MA's), (Start: 141 @53664 has 23 MA's), (Start: 186 @53640 has 3 MA's), (201, 53613), (205, 53598), (212, 53577), (246, 53490), (293, 53385), (310, 53343), (332, 53277), (341, 53247), (343, 53238), (347, 53235), (349, 53232), (389, 53112), (395, 53094), (400, 53076), (402, 53064), (407, 53049), (411, 53037), (469, 52926), (471, 52923), (483, 52893), (494, 52857), (589, 52632), (590, 52629), (601, 52593), (607, 52569), (612, 52536), (645, 52428), (647, 52422), (651, 52413), (683, 52314), (685, 52311), (691, 52296), (717, 52218), (722, 52206), (730, 52185), (733, 52176), (748, 52146), (768, 52089), (775, 52056), (779, 52038), (781, 52032), (793, 51993), (796, 51975), (799, 51963), (809, 51939), (826, 51897), (830, 51891), (840, 51867),

Gene: Heathcliff_58 Start: 53642, Stop: 51825, Start Num: 183

Candidate Starts for Heathcliff_58:

(80, 53825), (Start: 183 @53642 has 42 MA's), (201, 53612), (274, 53432), (331, 53279), (334, 53267), (343, 53237), (349, 53231), (372, 53168), (375, 53162), (389, 53111), (400, 53075), (414, 53027), (471, 52922), (510, 52826), (533, 52775), (589, 52631), (601, 52592), (608, 52562), (612, 52535), (616, 52523), (645, 52427), (647, 52421), (651, 52412), (655, 52400), (674, 52328), (683, 52298), (691, 52280), (694, 52271), (717, 52202), (722, 52190), (730, 52169), (760, 52100), (765, 52085), (771, 52061), (775, 52040), (781, 52016), (793, 51977), (796, 51959), (799, 51947), (805, 51935), (809, 51923), (826, 51881), (840, 51851),

Gene: Heathen_45 Start: 31183, Stop: 29345, Start Num: 191

Candidate Starts for Heathen_45:

(Start: 141 @31255 has 23 MA's), (Start: 191 @31183 has 828 MA's), (209, 31132), (271, 30979), (302, 30919), (307, 30907), (326, 30850), (328, 30841), (331, 30829), (366, 30721), (372, 30697), (420, 30601), (448, 30553), (476, 30493), (498, 30430), (523, 30361), (532, 30340), (565, 30271), (568, 30265), (582, 30226), (611, 30103), (637, 30016), (646, 29980), (656, 29950), (664, 29920), (685, 29839), (698, 29800), (704, 29776), (712, 29758), (760, 29629), (775, 29569), (812, 29434), (816, 29422), (820, 29413),

Gene: Heather_37 Start: 27927, Stop: 29858, Start Num: 191

Candidate Starts for Heather_37:

(Start: 191 @27927 has 828 MA's), (201, 27948), (221, 28008), (271, 28137), (296, 28185), (300, 28194), (314, 28239), (409, 28476), (416, 28497), (423, 28515), (454, 28572), (458, 28587), (470, 28614), (476, 28626), (478, 28629), (482, 28644), (532, 28779), (556, 28824), (598, 28977), (611, 29037), (623, 29085), (631, 29100), (637, 29124), (644, 29154), (654, 29181), (656, 29190), (664, 29220), (669, 29244), (708, 29364), (752, 29463), (768, 29517), (775, 29550), (776, 29553), (778, 29565), (779, 29568), (781, 29574), (789, 29601), (812, 29685), (816, 29697), (842, 29760),

Gene: Hedgerow_57 Start: 52616, Stop: 50787, Start Num: 147

Candidate Starts for Hedgerow_57:

(Start: 147 @52616 has 31 MA's), (Start: 186 @52589 has 3 MA's), (202, 52559), (205, 52547), (215, 52520), (216, 52517), (221, 52508), (235, 52490), (272, 52394), (296, 52343), (307, 52319), (358, 52157), (368, 52133), (372, 52121), (389, 52064), (400, 52028), (402, 52016), (410, 51992), (456, 51908), (469, 51878), (471, 51875), (483, 51845), (542, 51701), (565, 51635), (586, 51596), (589, 51584), (595, 51563), (601, 51545), (612, 51488), (633, 51431), (639, 51404), (647, 51374), (651, 51365), (668, 51299), (679, 51272), (683, 51263), (691, 51245), (698, 51221), (717, 51167), (722, 51155), (730, 51134), (760, 51065), (775, 51005), (779, 50987), (789, 50954), (793, 50942), (795, 50927), (796, 50924), (799, 50912), (809, 50888), (810, 50885), (830, 50837), (832, 50834), (840, 50813), (847, 50792),

Gene: Heffalump_43 Start: 31940, Stop: 30153, Start Num: 191

Candidate Starts for Heffalump_43:

(27, 32318), (74, 32129), (89, 32090), (Start: 191 @31940 has 828 MA's), (271, 31736), (272, 31733), (274, 31727), (283, 31712), (291, 31697), (307, 31664), (308, 31661), (314, 31634), (326, 31607), (331, 31586), (372, 31454), (420, 31361), (439, 31325), (446, 31313), (451, 31304), (458, 31289), (484, 31223), (515, 31142), (532, 31094), (534, 31088), (565, 31025), (611, 30869), (625, 30818), (636, 30785), (637, 30782), (656, 30716), (666, 30677), (676, 30656), (701, 30581), (704, 30569), (754, 30455), (760, 30437), (768, 30410), (770, 30401), (775, 30377), (795, 30299), (812, 30242), (816, 30230), (820, 30221),

Gene: HelDan_45 Start: 31435, Stop: 29597, Start Num: 191

Candidate Starts for HelDan_45:

(Start: 141 @31507 has 23 MA's), (Start: 191 @31435 has 828 MA's), (209, 31384), (271, 31231), (302, 31171), (307, 31159), (326, 31102), (328, 31093), (331, 31081), (366, 30973), (372, 30949), (420, 30853), (448, 30805), (476, 30745), (498, 30682), (523, 30613), (532, 30592), (565, 30523), (568, 30517), (582, 30478), (611, 30355), (637, 30268), (646, 30232), (656, 30202), (664, 30172), (685, 30091), (698, 30052), (704, 30028), (712, 30010), (760, 29881), (775, 29821), (812, 29686), (816, 29674), (820, 29665),

Gene: Held_60 Start: 54034, Stop: 52175, Start Num: 149

Candidate Starts for Held_60:

(Start: 133 @54058 has 1 MA's), (Start: 149 @54034 has 248 MA's), (Start: 174 @54010 has 5 MA's), (Start: 186 @54004 has 3 MA's), (205, 53962), (212, 53941), (254, 53827), (256, 53821), (269, 53791), (296, 53731), (306, 53710), (323, 53656), (327, 53644), (332, 53626), (335, 53614), (372, 53509), (389, 53452), (400, 53416), (402, 53404), (411, 53377), (432, 53332), (465, 53275), (469, 53266), (471, 53263), (607, 52903), (612, 52870), (617, 52849), (647, 52756), (651, 52747), (668, 52684), (683, 52648), (685, 52645), (691, 52630), (717, 52552), (722, 52540), (730, 52519), (748, 52480), (775, 52390), (779, 52372), (781, 52366), (785, 52351), (793, 52327), (795, 52312), (796, 52309), (799, 52297), (809, 52273), (830, 52225), (840, 52201),

Gene: Heliosoles_47 Start: 31756, Stop: 29942, Start Num: 191

Candidate Starts for Heliosoles_47:

(Start: 191 @31756 has 828 MA's), (206, 31717), (209, 31705), (271, 31552), (276, 31537), (307, 31480), (326, 31423), (328, 31414), (340, 31372), (355, 31321), (372, 31270), (420, 31177), (446, 31129), (458, 31105), (476, 31066), (484, 31039), (494, 31009), (528, 30916), (534, 30904), (558, 30856), (565, 30841), (611, 30685), (625, 30634), (636, 30601), (637, 30598), (656, 30532), (666, 30493), (685, 30421), (698, 30382), (704, 30358), (712, 30340), (726, 30307), (760, 30226), (775, 30166), (779, 30148), (795, 30088), (798, 30079), (812, 30031), (816, 30019), (820, 30010),

Gene: Helmet_47 Start: 29791, Stop: 27950, Start Num: 191

Candidate Starts for Helmet_47:

(Start: 191 @29791 has 828 MA's), (271, 29587), (307, 29512), (308, 29509), (314, 29482), (319, 29467), (326, 29455), (340, 29404), (368, 29314), (372, 29302), (420, 29209), (441, 29170), (451,

29152), (458, 29137), (484, 29071), (496, 29038), (498, 29035), (535, 28933), (565, 28873), (592, 28789), (611, 28708), (636, 28624), (637, 28621), (639, 28612), (646, 28585), (656, 28555), (676, 28495), (691, 28456), (770, 28240), (771, 28237), (775, 28216), (812, 28081), (816, 28069), (820, 28060), (821, 28057), (859, 27964),

Gene: HenryJackson_60 Start: 54560, Stop: 52701, Start Num: 149

Candidate Starts for HenryJackson_60:

(Start: 133 @54584 has 1 MA's), (Start: 149 @54560 has 248 MA's), (Start: 174 @54536 has 5 MA's), (Start: 186 @54530 has 3 MA's), (205, 54488), (212, 54467), (254, 54353), (256, 54347), (269, 54317), (296, 54257), (306, 54236), (323, 54182), (327, 54170), (332, 54152), (335, 54140), (372, 54035), (389, 53978), (400, 53942), (402, 53930), (411, 53903), (421, 53876), (432, 53858), (442, 53840), (465, 53801), (469, 53792), (471, 53789), (576, 53531), (607, 53429), (612, 53396), (617, 53375), (647, 53282), (651, 53273), (668, 53210), (683, 53174), (685, 53171), (691, 53156), (717, 53078), (722, 53066), (730, 53045), (748, 53006), (775, 52916), (779, 52898), (781, 52892), (785, 52877), (793, 52853), (795, 52838), (796, 52835), (799, 52823), (809, 52799), (816, 52778), (830, 52751), (840, 52727),

Gene: Herbertwm_42 Start: 30692, Stop: 28857, Start Num: 191

Candidate Starts for Herbertwm_42:

(Start: 191 @30692 has 828 MA's), (271, 30488), (272, 30485), (308, 30410), (314, 30383), (319, 30368), (326, 30356), (331, 30335), (372, 30203), (420, 30110), (451, 30053), (519, 29882), (592, 29693), (611, 29612), (625, 29561), (637, 29525), (646, 29489), (656, 29459), (666, 29420), (676, 29399), (683, 29378), (726, 29261), (737, 29234), (754, 29198), (760, 29180), (770, 29144), (771, 29141), (775, 29120), (795, 29042), (812, 28985), (820, 28964), (861, 28865),

Gene: Hercules11_48 Start: 31861, Stop: 30047, Start Num: 191

Candidate Starts for Hercules11_48:

(Start: 191 @31861 has 828 MA's), (206, 31822), (209, 31810), (271, 31657), (276, 31642), (307, 31585), (326, 31528), (328, 31519), (340, 31477), (355, 31426), (372, 31375), (420, 31282), (446, 31234), (451, 31225), (458, 31210), (476, 31171), (484, 31144), (494, 31114), (528, 31021), (558, 30961), (565, 30946), (611, 30790), (637, 30703), (656, 30637), (666, 30598), (685, 30526), (698, 30487), (704, 30463), (712, 30445), (726, 30412), (737, 30385), (760, 30331), (775, 30271), (795, 30193), (812, 30136), (816, 30124), (820, 30115),

Gene: Hermia_46 Start: 35549, Stop: 33723, Start Num: 191

Candidate Starts for Hermia_46:

(Start: 191 @35549 has 828 MA's), (274, 35336), (283, 35321), (314, 35243), (322, 35222), (326, 35216), (328, 35207), (365, 35090), (372, 35063), (420, 34970), (428, 34955), (470, 34871), (472, 34868), (494, 34802), (518, 34742), (534, 34697), (556, 34658), (611, 34478), (623, 34430), (637, 34391), (656, 34325), (666, 34286), (676, 34265), (683, 34244), (691, 34226), (712, 34160), (768, 34019), (770, 34010), (771, 34007), (778, 33971), (785, 33947), (788, 33938), (792, 33926), (812, 33851), (820, 33830),

Gene: HermioneGrange_44 Start: 34683, Stop: 32854, Start Num: 191

Candidate Starts for HermioneGrange_44:

(Start: 191 @34683 has 828 MA's), (274, 34470), (283, 34455), (307, 34407), (314, 34377), (322, 34356), (326, 34350), (328, 34341), (365, 34224), (372, 34197), (420, 34104), (428, 34089), (470, 34005), (472, 34002), (494, 33936), (508, 33906), (518, 33876), (534, 33831), (556, 33792), (611, 33612), (623, 33564), (639, 33516), (651, 33477), (656, 33459), (666, 33420), (676, 33399), (683, 33378), (733, 33240), (789, 33069), (794, 33045), (803, 33012), (808, 32997), (812, 32985), (820, 32964), (823, 32958), (842, 32910), (849, 32895),

Gene: Hertubise_60 Start: 54326, Stop: 52467, Start Num: 149

Candidate Starts for Hertubise_60:

(Start: 133 @54350 has 1 MA's), (Start: 149 @54326 has 248 MA's), (Start: 174 @54302 has 5 MA's), (Start: 186 @54296 has 3 MA's), (205, 54254), (212, 54233), (254, 54119), (256, 54113), (269, 54083), (296, 54023), (306, 54002), (323, 53948), (327, 53936), (332, 53918), (335, 53906), (372, 53801), (389, 53744), (400, 53708), (402, 53696), (411, 53669), (421, 53642), (432, 53624), (442, 53606), (465, 53567), (469, 53558), (471, 53555), (576, 53297), (607, 53195), (612, 53162), (617, 53141), (647, 53048), (651, 53039), (668, 52976), (683, 52940), (685, 52937), (691, 52922), (717, 52844), (722, 52832), (730, 52811), (748, 52772), (775, 52682), (779, 52664), (781, 52658), (785, 52643), (793, 52619), (795, 52604), (796, 52601), (799, 52589), (809, 52565), (830, 52517), (840, 52493),

Gene: Hetaeria_60 Start: 54265, Stop: 52406, Start Num: 149

Candidate Starts for Hetaeria_60:

(Start: 133 @54289 has 1 MA's), (Start: 149 @54265 has 248 MA's), (Start: 174 @54241 has 5 MA's), (Start: 186 @54235 has 3 MA's), (205, 54193), (212, 54172), (254, 54058), (256, 54052), (269, 54022), (296, 53962), (306, 53941), (323, 53887), (327, 53875), (332, 53857), (335, 53845), (372, 53740), (389, 53683), (400, 53647), (402, 53635), (410, 53611), (414, 53599), (421, 53581), (432, 53563), (442, 53545), (465, 53506), (469, 53497), (471, 53494), (473, 53491), (607, 53134), (612, 53101), (617, 53080), (647, 52987), (651, 52978), (668, 52915), (683, 52879), (685, 52876), (691, 52861), (717, 52783), (722, 52771), (730, 52750), (748, 52711), (775, 52621), (779, 52603), (781, 52597), (785, 52582), (793, 52558), (795, 52543), (796, 52540), (799, 52528), (809, 52504), (830, 52456), (840, 52432),

Gene: Hexamo_45 Start: 29412, Stop: 27571, Start Num: 191

Candidate Starts for Hexamo_45:

(Start: 170 @29442 has 3 MA's), (Start: 191 @29412 has 828 MA's), (271, 29208), (307, 29133), (308, 29130), (314, 29103), (319, 29088), (326, 29076), (340, 29025), (368, 28935), (372, 28923), (420, 28830), (441, 28791), (451, 28773), (458, 28758), (484, 28692), (496, 28659), (498, 28656), (535, 28554), (565, 28494), (592, 28410), (611, 28329), (636, 28245), (637, 28242), (639, 28233), (646, 28206), (656, 28176), (676, 28116), (691, 28077), (770, 27861), (771, 27858), (775, 27837), (812, 27702), (816, 27690), (820, 27681), (821, 27678), (859, 27585),

Gene: Heylee_53 Start: 36664, Stop: 34496, Start Num: 86

Candidate Starts for Heylee_53:

(85, 36667), (Start: 86 @36664 has 11 MA's), (106, 36610), (160, 36526), (235, 36373), (237, 36364), (253, 36319), (278, 36241), (287, 36232), (294, 36217), (301, 36202), (303, 36199), (323, 36142), (346, 36049), (362, 36007), (422, 35812), (430, 35800), (434, 35794), (449, 35770), (459, 35749), (468, 35728), (476, 35713), (479, 35707), (500, 35644), (517, 35593), (550, 35506), (571, 35446), (591, 35398), (615, 35296), (616, 35290), (620, 35263), (621, 35260), (629, 35239), (641, 35197), (643, 35191), (650, 35167), (659, 35125), (660, 35122), (665, 35095), (674, 35062), (677, 35050), (692, 35014), (698, 34990), (700, 34984), (701, 34978), (723, 34924), (744, 34876), (746, 34873), (764, 34813), (770, 34789), (777, 34759), (790, 34705), (793, 34696), (809, 34636), (813, 34624), (828, 34585),

Gene: HighStump_62 Start: 54537, Stop: 52678, Start Num: 149

Candidate Starts for HighStump_62:

(Start: 133 @54561 has 1 MA's), (Start: 149 @54537 has 248 MA's), (Start: 174 @54513 has 5 MA's), (Start: 186 @54507 has 3 MA's), (205, 54465), (212, 54444), (254, 54330), (256, 54324), (269, 54294), (296, 54234), (306, 54213), (323, 54159), (327, 54147), (332, 54129), (372, 54012), (389, 53955), (400, 53919), (402, 53907), (411, 53880), (421, 53853), (432, 53835), (442, 53817), (465, 53778), (469, 53769), (471, 53766), (607, 53406), (612, 53373), (617, 53352), (647, 53259), (651, 53250), (668, 53187), (685, 53148), (691, 53133), (717, 53055), (722, 53043), (730, 53022), (748, 52983), (771, 52914), (775, 52893), (779, 52875), (781, 52869), (785, 52854), (793, 52830), (795,

52815), (796, 52812), (799, 52800), (809, 52776), (830, 52728), (840, 52704),

Gene: Hiro_36 Start: 28373, Stop: 26589, Start Num: 191

Candidate Starts for Hiro_36:

(Start: 191 @28373 has 828 MA's), (288, 28139), (302, 28109), (306, 28100), (307, 28097), (319, 28052), (326, 28040), (328, 28031), (340, 27989), (372, 27887), (380, 27866), (420, 27794), (444, 27749), (446, 27746), (466, 27704), (468, 27698), (476, 27683), (484, 27656), (523, 27551), (534, 27524), (556, 27485), (611, 27305), (623, 27257), (656, 27152), (657, 27149), (676, 27092), (683, 27071), (700, 27023), (727, 26948), (758, 26879), (770, 26837), (775, 26813), (795, 26735), (812, 26678), (816, 26666), (839, 26609),

Gene: Hocus_60 Start: 54021, Stop: 52162, Start Num: 149

Candidate Starts for Hocus_60:

(Start: 133 @54045 has 1 MA's), (Start: 149 @54021 has 248 MA's), (Start: 174 @53997 has 5 MA's), (Start: 186 @53991 has 3 MA's), (205, 53949), (212, 53928), (254, 53814), (256, 53808), (269, 53778), (296, 53718), (306, 53697), (323, 53643), (327, 53631), (332, 53613), (335, 53601), (372, 53496), (389, 53439), (400, 53403), (402, 53391), (411, 53364), (432, 53319), (465, 53262), (469, 53253), (471, 53250), (607, 52890), (612, 52857), (617, 52836), (647, 52743), (651, 52734), (668, 52671), (683, 52635), (685, 52632), (691, 52617), (717, 52539), (722, 52527), (730, 52506), (748, 52467), (775, 52377), (779, 52359), (781, 52353), (785, 52338), (793, 52314), (795, 52299), (796, 52296), (799, 52284), (809, 52260), (830, 52212), (840, 52188),

Gene: Holeinone_57 Start: 52455, Stop: 50626, Start Num: 147

Candidate Starts for Holeinone_57:

(Start: 147 @52455 has 31 MA's), (Start: 186 @52428 has 3 MA's), (202, 52398), (205, 52386), (215, 52359), (216, 52356), (221, 52347), (235, 52329), (272, 52233), (296, 52182), (307, 52158), (358, 51996), (366, 51981), (368, 51972), (372, 51960), (389, 51903), (400, 51867), (402, 51855), (410, 51831), (456, 51747), (469, 51717), (471, 51714), (483, 51684), (542, 51540), (565, 51474), (589, 51423), (595, 51402), (601, 51384), (612, 51327), (639, 51243), (647, 51213), (651, 51204), (668, 51138), (679, 51111), (683, 51102), (691, 51084), (698, 51060), (717, 51006), (722, 50994), (730, 50973), (760, 50904), (775, 50844), (779, 50826), (789, 50793), (793, 50781), (795, 50766), (796, 50763), (799, 50751), (809, 50727), (810, 50724), (830, 50676), (832, 50673), (840, 50652), (847, 50631),

Gene: Holli_44 Start: 31360, Stop: 29534, Start Num: 191

Candidate Starts for Holli_44:

(Start: 191 @31360 has 828 MA's), (201, 31339), (209, 31309), (221, 31279), (291, 31117), (300, 31099), (326, 31027), (328, 31018), (366, 30898), (372, 30874), (420, 30781), (448, 30733), (458, 30712), (476, 30673), (523, 30541), (532, 30520), (556, 30475), (559, 30463), (609, 30310), (611, 30289), (646, 30166), (656, 30136), (666, 30097), (683, 30031), (685, 30028), (691, 30013), (698, 29989), (704, 29965), (775, 29758), (812, 29623), (816, 29611), (820, 29602),

Gene: Homines_37 Start: 30760, Stop: 28934, Start Num: 191

Candidate Starts for Homines_37:

(Start: 191 @30760 has 828 MA's), (274, 30547), (283, 30532), (307, 30484), (314, 30454), (322, 30433), (326, 30427), (328, 30418), (365, 30301), (372, 30274), (420, 30181), (428, 30166), (446, 30133), (470, 30082), (472, 30079), (494, 30013), (508, 29983), (518, 29953), (534, 29908), (556, 29869), (611, 29689), (618, 29659), (623, 29641), (625, 29638), (637, 29602), (656, 29536), (683, 29455), (685, 29452), (712, 29371), (770, 29221), (771, 29218), (778, 29182), (785, 29158), (788, 29149), (792, 29137), (812, 29062), (820, 29041),

Gene: Honk_44 Start: 28246, Stop: 30111, Start Num: 189

Candidate Starts for Honk_44:

(Start: 189 @28246 has 7 MA's), (208, 28294), (234, 28354), (271, 28450), (322, 28567), (423, 28840), (446, 28882), (476, 28948), (518, 29062), (532, 29101), (561, 29164), (590, 29269), (592, 29278), (611, 29359), (625, 29410), (644, 29476), (646, 29482), (657, 29515), (702, 29671), (713, 29698), (752, 29785), (785, 29911), (788, 29920), (793, 29935), (812, 30007), (817, 30022), (824, 30037),

Gene: Hookmount_44 Start: 31598, Stop: 29760, Start Num: 191

Candidate Starts for Hookmount_44:

(Start: 191 @31598 has 828 MA's), (209, 31547), (271, 31394), (307, 31322), (314, 31292), (326, 31265), (328, 31256), (372, 31112), (420, 31016), (448, 30968), (476, 30908), (509, 30821), (523, 30776), (532, 30755), (566, 30683), (582, 30641), (592, 30599), (611, 30518), (623, 30470), (637, 30431), (646, 30395), (656, 30365), (664, 30335), (685, 30254), (698, 30215), (704, 30191), (712, 30173), (713, 30170), (760, 30044), (775, 29984), (798, 29897), (812, 29849), (816, 29837), (820, 29828),

Gene: Hoot_45 Start: 29605, Stop: 27764, Start Num: 191

Candidate Starts for Hoot_45:

(Start: 191 @29605 has 828 MA's), (271, 29401), (307, 29326), (308, 29323), (314, 29296), (319, 29281), (326, 29269), (340, 29218), (368, 29128), (372, 29116), (420, 29023), (441, 28984), (451, 28966), (458, 28951), (484, 28885), (496, 28852), (498, 28849), (535, 28747), (565, 28687), (592, 28603), (611, 28522), (636, 28438), (637, 28435), (639, 28426), (646, 28399), (656, 28369), (676, 28309), (691, 28270), (770, 28054), (771, 28051), (775, 28030), (812, 27895), (816, 27883), (820, 27874), (821, 27871), (859, 27778),

Gene: Hope4ever_46 Start: 35139, Stop: 33313, Start Num: 191

Candidate Starts for Hope4ever_46:

(Start: 191 @35139 has 828 MA's), (274, 34926), (307, 34863), (314, 34833), (322, 34812), (326, 34806), (328, 34797), (365, 34680), (372, 34653), (420, 34560), (428, 34545), (470, 34461), (472, 34458), (494, 34392), (508, 34362), (518, 34332), (534, 34287), (556, 34248), (611, 34068), (623, 34020), (637, 33981), (656, 33915), (666, 33876), (676, 33855), (683, 33834), (691, 33816), (712, 33750), (770, 33600), (771, 33597), (778, 33561), (785, 33537), (788, 33528), (792, 33516), (812, 33441), (820, 33420),

Gene: Horchata_59 Start: 54056, Stop: 52197, Start Num: 149

Candidate Starts for Horchata_59:

(Start: 133 @54080 has 1 MA's), (Start: 149 @54056 has 248 MA's), (Start: 174 @54032 has 5 MA's), (Start: 186 @54026 has 3 MA's), (205, 53984), (212, 53963), (254, 53849), (256, 53843), (269, 53813), (296, 53753), (306, 53732), (323, 53678), (327, 53666), (332, 53648), (335, 53636), (372, 53531), (389, 53474), (400, 53438), (402, 53426), (411, 53399), (414, 53390), (432, 53354), (465, 53297), (469, 53288), (471, 53285), (473, 53282), (607, 52925), (612, 52892), (617, 52871), (647, 52778), (651, 52769), (668, 52706), (683, 52670), (685, 52667), (691, 52652), (717, 52574), (722, 52562), (730, 52541), (748, 52502), (775, 52412), (779, 52394), (781, 52388), (785, 52373), (793, 52349), (795, 52334), (796, 52331), (799, 52319), (809, 52295), (830, 52247), (840, 52223),

Gene: HortumSL17_45 Start: 31483, Stop: 29690, Start Num: 191

Candidate Starts for HortumSL17_45:

(Start: 191 @31483 has 828 MA's), (196, 31474), (209, 31432), (261, 31312), (262, 31309), (279, 31261), (308, 31201), (315, 31171), (319, 31159), (326, 31147), (372, 30994), (420, 30901), (484, 30763), (494, 30733), (559, 30574), (565, 30562), (579, 30535), (609, 30427), (611, 30406), (651, 30271), (656, 30253), (683, 30172), (698, 30130), (726, 30055), (758, 29980), (770, 29938), (795, 29836), (812, 29779), (816, 29767), (820, 29758),

Gene: Hosp_050 Start: 50681, Stop: 48840, Start Num: 144

Candidate Starts for Hosp_050:

(44, 50945), (47, 50930), (Start: 144 @50681 has 3 MA's), (201, 50624), (205, 50609), (272, 50435), (296, 50384), (297, 50381), (307, 50360), (323, 50309), (325, 50303), (331, 50285), (343, 50243), (347, 50240), (358, 50210), (389, 50117), (400, 50081), (402, 50069), (458, 49955), (469, 49931), (471, 49928), (560, 49697), (590, 49628), (595, 49610), (601, 49592), (612, 49535), (645, 49427), (647, 49421), (651, 49412), (668, 49349), (683, 49313), (685, 49310), (691, 49295), (717, 49217), (722, 49205), (730, 49184), (732, 49178), (748, 49145), (760, 49115), (765, 49100), (770, 49079), (775, 49055), (781, 49031), (793, 48992), (794, 48980), (795, 48977), (796, 48974), (799, 48962), (809, 48938), (840, 48866), (847, 48845),

Gene: Houdini22_45 Start: 31574, Stop: 29748, Start Num: 191

Candidate Starts for Houdini22_45:

(Start: 191 @31574 has 828 MA's), (201, 31553), (209, 31523), (221, 31493), (291, 31331), (300, 31313), (326, 31241), (328, 31232), (366, 31112), (372, 31088), (420, 30995), (448, 30947), (458, 30926), (476, 30887), (523, 30755), (532, 30734), (556, 30689), (559, 30677), (609, 30524), (611, 30503), (646, 30380), (656, 30350), (666, 30311), (683, 30245), (685, 30242), (691, 30227), (698, 30203), (704, 30179), (775, 29972), (812, 29837), (816, 29825), (820, 29816),

Gene: HuhtaEnerson15_39 Start: 30586, Stop: 28721, Start Num: 191

Candidate Starts for HuhtaEnerson15_39:

(Start: 191 @30586 has 828 MA's), (209, 30535), (235, 30475), (262, 30412), (271, 30382), (272, 30379), (302, 30322), (307, 30310), (314, 30280), (326, 30253), (372, 30100), (420, 30004), (446, 29956), (483, 29872), (484, 29866), (513, 29794), (523, 29761), (528, 29746), (534, 29734), (576, 29635), (611, 29500), (618, 29470), (623, 29452), (632, 29434), (637, 29413), (639, 29404), (656, 29347), (666, 29308), (683, 29266), (691, 29248), (704, 29200), (726, 29149), (750, 29095), (754, 29086), (760, 29068), (775, 29008), (779, 28990), (804, 28897), (812, 28873), (816, 28861), (859, 28756),

Gene: Hutc2_44 Start: 30330, Stop: 28543, Start Num: 191

Candidate Starts for Hutc2_44:

(Start: 191 @30330 has 828 MA's), (271, 30126), (307, 30054), (314, 30024), (326, 29997), (423, 29745), (451, 29694), (484, 29613), (501, 29568), (502, 29565), (532, 29484), (559, 29427), (581, 29385), (592, 29340), (611, 29259), (625, 29208), (637, 29172), (656, 29106), (676, 29046), (679, 29034), (716, 28932), (726, 28908), (732, 28890), (760, 28827), (768, 28800), (770, 28791), (775, 28767), (812, 28632), (816, 28620), (820, 28611),

Gene: Hydro_53 Start: 54045, Stop: 52222, Start Num: 141

Candidate Starts for Hydro_53:

(Start: 128 @54063 has 3 MA's), (Start: 141 @54045 has 23 MA's), (Start: 186 @54021 has 3 MA's), (201, 53994), (205, 53979), (212, 53958), (246, 53871), (293, 53766), (310, 53724), (332, 53658), (341, 53628), (343, 53619), (347, 53616), (349, 53613), (389, 53493), (395, 53475), (400, 53457), (402, 53445), (407, 53430), (411, 53418), (469, 53307), (471, 53304), (483, 53274), (494, 53238), (589, 53013), (590, 53010), (601, 52974), (607, 52950), (612, 52917), (645, 52809), (647, 52803), (651, 52794), (683, 52695), (685, 52692), (691, 52677), (717, 52599), (722, 52587), (730, 52566), (733, 52557), (748, 52527), (768, 52470), (775, 52437), (779, 52419), (781, 52413), (793, 52374), (796, 52356), (799, 52344), (809, 52320), (826, 52278), (830, 52272), (840, 52248),

Gene: IAmGroot_48 Start: 31892, Stop: 33757, Start Num: 189

Candidate Starts for IAmGroot_48:

(Start: 189 @31892 has 7 MA's), (314, 32189), (343, 32279), (476, 32594), (515, 32699), (518, 32708), (532, 32747), (561, 32810), (611, 33005), (631, 33068), (644, 33122), (646, 33128), (657, 33161), (679, 33248), (702, 33317), (713, 33344), (812, 33653),

Gene: ICleared_45 Start: 31599, Stop: 29773, Start Num: 191

Candidate Starts for ICleared_45:

(Start: 191 @31599 has 828 MA's), (201, 31578), (209, 31548), (221, 31518), (291, 31356), (300, 31338), (326, 31266), (328, 31257), (366, 31137), (372, 31113), (420, 31020), (448, 30972), (458, 30951), (476, 30912), (523, 30780), (532, 30759), (556, 30714), (559, 30702), (609, 30549), (611, 30528), (646, 30405), (656, 30375), (666, 30336), (683, 30270), (685, 30267), (698, 30228), (704, 30204), (775, 29997), (812, 29862), (816, 29850), (820, 29841),

Gene: ILeeKay_49 Start: 35713, Stop: 33884, Start Num: 191

Candidate Starts for ILeeKay_49:

(Start: 191 @35713 has 828 MA's), (274, 35500), (283, 35485), (314, 35407), (322, 35386), (326, 35380), (328, 35371), (365, 35254), (372, 35227), (420, 35134), (428, 35119), (446, 35086), (470, 35035), (472, 35032), (490, 34978), (494, 34966), (508, 34936), (518, 34906), (534, 34861), (556, 34822), (611, 34642), (623, 34594), (639, 34546), (651, 34507), (656, 34489), (666, 34450), (676, 34429), (683, 34408), (690, 34393), (733, 34270), (789, 34099), (794, 34075), (808, 34027), (812, 34015), (820, 33994), (823, 33988), (842, 33940), (849, 33925),

Gene: Ibantik_18 Start: 8692, Stop: 6680, Start Num: 193

Candidate Starts for Ibantik_18:

(Start: 193 @8692 has 1 MA's), (274, 8473), (291, 8443), (357, 8248), (361, 8236), (372, 8200), (379, 8179), (389, 8122), (420, 7954), (470, 7849), (476, 7837), (488, 7795), (576, 7585), (611, 7450), (642, 7336), (645, 7327), (656, 7294), (666, 7228), (704, 7105), (768, 6946), (789, 6862), (791, 6856), (793, 6850), (796, 6832), (804, 6802), (812, 6778),

Gene: Icarian_47 Start: 30940, Stop: 32814, Start Num: 182

Candidate Starts for Icarian_47:

(Start: 182 @30940 has 49 MA's), (216, 31009), (224, 31030), (307, 31210), (328, 31276), (332, 31291), (340, 31318), (476, 31612), (564, 31846), (597, 31966), (598, 31969), (611, 32029), (614, 32035), (625, 32080), (632, 32095), (635, 32110), (644, 32146), (656, 32182), (680, 32275), (713, 32368), (747, 32446), (748, 32449), (770, 32518), (775, 32542), (778, 32557), (791, 32599), (794, 32617), (812, 32677), (820, 32698),

Gene: Iceman_45 Start: 31856, Stop: 30030, Start Num: 191

Candidate Starts for Iceman_45:

(Start: 191 @31856 has 828 MA's), (201, 31835), (209, 31805), (221, 31775), (291, 31613), (300, 31595), (326, 31523), (328, 31514), (366, 31394), (372, 31370), (420, 31277), (448, 31229), (458, 31208), (476, 31169), (523, 31037), (532, 31016), (556, 30971), (559, 30959), (609, 30806), (611, 30785), (646, 30662), (656, 30632), (666, 30593), (683, 30527), (685, 30524), (691, 30509), (698, 30485), (704, 30461), (775, 30254), (812, 30119), (816, 30107), (820, 30098),

Gene: Ichabod_46 Start: 34837, Stop: 33011, Start Num: 191

Candidate Starts for Ichabod_46:

(Start: 191 @34837 has 828 MA's), (274, 34624), (307, 34561), (314, 34531), (322, 34510), (326, 34504), (328, 34495), (365, 34378), (372, 34351), (420, 34258), (428, 34243), (446, 34210), (470, 34159), (472, 34156), (494, 34090), (508, 34060), (518, 34030), (534, 33985), (556, 33946), (611, 33766), (623, 33718), (637, 33679), (656, 33613), (666, 33574), (676, 33553), (683, 33532), (691, 33514), (712, 33448), (770, 33298), (771, 33295), (785, 33235), (788, 33226), (792, 33214), (812, 33139), (820, 33118),

Gene: Ichor_55 Start: 36879, Stop: 34711, Start Num: 86

Candidate Starts for Ichor_55:

(85, 36882), (Start: 86 @36879 has 11 MA's), (106, 36825), (160, 36741), (235, 36588), (237, 36579), (253, 36534), (278, 36456), (287, 36447), (294, 36432), (301, 36417), (303, 36414), (323, 36357),

(346, 36264), (362, 36222), (422, 36027), (430, 36015), (434, 36009), (449, 35985), (459, 35964), (468, 35943), (476, 35928), (479, 35922), (500, 35859), (517, 35808), (550, 35721), (571, 35661), (591, 35613), (615, 35511), (616, 35505), (620, 35478), (621, 35475), (629, 35454), (641, 35412), (643, 35406), (650, 35382), (659, 35340), (660, 35337), (665, 35310), (674, 35277), (677, 35265), (692, 35229), (698, 35205), (700, 35199), (701, 35193), (723, 35139), (744, 35091), (746, 35088), (764, 35028), (770, 35004), (777, 34974), (790, 34920), (809, 34851), (813, 34839), (828, 34800),

Gene: Idleandcovert_46 Start: 31555, Stop: 29717, Start Num: 191

Candidate Starts for Idleandcovert_46:

(Start: 191 @31555 has 828 MA's), (209, 31504), (236, 31438), (271, 31351), (302, 31291), (307, 31279), (326, 31222), (328, 31213), (366, 31093), (372, 31069), (420, 30973), (448, 30925), (476, 30865), (498, 30802), (523, 30733), (532, 30712), (566, 30640), (582, 30598), (592, 30556), (611, 30475), (623, 30427), (646, 30352), (656, 30322), (664, 30292), (685, 30211), (698, 30172), (704, 30148), (712, 30130), (760, 30001), (775, 29941), (812, 29806), (816, 29794), (820, 29785),

Gene: IgnatiusPatJac_44 Start: 34736, Stop: 32907, Start Num: 191

Candidate Starts for IgnatiusPatJac_44:

(Start: 191 @34736 has 828 MA's), (274, 34523), (307, 34460), (314, 34430), (322, 34409), (326, 34403), (328, 34394), (365, 34277), (372, 34250), (420, 34157), (428, 34142), (446, 34109), (470, 34058), (472, 34055), (494, 33989), (518, 33929), (534, 33884), (556, 33845), (611, 33665), (623, 33617), (639, 33569), (651, 33530), (656, 33512), (666, 33473), (676, 33452), (683, 33431), (690, 33416), (733, 33293), (789, 33122), (794, 33098), (808, 33050), (812, 33038), (820, 33017), (823, 33011), (842, 32963), (849, 32948),

Gene: ImtiyazSitla_62 Start: 54257, Stop: 52398, Start Num: 149

Candidate Starts for ImtiyazSitla_62:

(Start: 133 @54281 has 1 MA's), (Start: 149 @54257 has 248 MA's), (Start: 174 @54233 has 5 MA's), (Start: 186 @54227 has 3 MA's), (205, 54185), (212, 54164), (254, 54050), (256, 54044), (269, 54014), (296, 53954), (306, 53933), (323, 53879), (327, 53867), (332, 53849), (335, 53837), (372, 53732), (389, 53675), (400, 53639), (402, 53627), (410, 53603), (414, 53591), (421, 53573), (432, 53555), (442, 53537), (465, 53498), (469, 53489), (471, 53486), (473, 53483), (576, 53228), (607, 53126), (612, 53093), (617, 53072), (647, 52979), (651, 52970), (668, 52907), (683, 52871), (685, 52868), (691, 52853), (717, 52775), (722, 52763), (730, 52742), (748, 52703), (775, 52613), (779, 52595), (781, 52589), (785, 52574), (793, 52550), (795, 52535), (796, 52532), (799, 52520), (809, 52496), (816, 52475), (830, 52448), (840, 52424),

Gene: Imvubu_52 Start: 51848, Stop: 49983, Start Num: 138

Candidate Starts for Imvubu_52:

(62, 52028), (127, 51866), (Start: 128 @51863 has 3 MA's), (Start: 138 @51848 has 1 MA's), (Start: 186 @51803 has 3 MA's), (201, 51776), (216, 51731), (307, 51518), (334, 51431), (372, 51323), (389, 51266), (400, 51230), (402, 51218), (410, 51194), (411, 51191), (414, 51182), (417, 51176), (471, 51071), (483, 51041), (494, 51005), (498, 50999), (590, 50771), (612, 50678), (647, 50564), (651, 50555), (668, 50492), (683, 50456), (685, 50453), (691, 50438), (717, 50360), (722, 50348), (730, 50327), (733, 50318), (743, 50300), (760, 50258), (765, 50243), (775, 50198), (781, 50174), (785, 50159), (793, 50135), (794, 50123), (795, 50120), (796, 50117), (799, 50105), (805, 50093), (809, 50081), (817, 50057), (840, 50009),

Gene: Inchworm_62 Start: 54408, Stop: 52549, Start Num: 149

Candidate Starts for Inchworm_62:

(Start: 133 @54432 has 1 MA's), (Start: 149 @54408 has 248 MA's), (Start: 174 @54384 has 5 MA's), (Start: 186 @54378 has 3 MA's), (205, 54336), (212, 54315), (254, 54201), (256, 54195), (269, 54165), (296, 54105), (306, 54084), (323, 54030), (327, 54018), (332, 54000), (335, 53988), (372, 53883), (389, 53826), (400, 53790), (402, 53778), (411, 53751), (421, 53724), (432, 53706), (442,

53688), (465, 53649), (469, 53640), (471, 53637), (473, 53634), (607, 53277), (612, 53244), (617, 53223), (647, 53130), (651, 53121), (668, 53058), (683, 53022), (685, 53019), (691, 53004), (717, 52926), (722, 52914), (730, 52893), (748, 52854), (775, 52764), (779, 52746), (781, 52740), (785, 52725), (793, 52701), (795, 52686), (796, 52683), (799, 52671), (809, 52647), (830, 52599), (840, 52575),

Gene: Indlovu_55 Start: 54200, Stop: 52356, Start Num: 144

Candidate Starts for Indlovu_55:

(Start: 144 @54200 has 3 MA's), (212, 54098), (269, 53960), (307, 53876), (343, 53759), (347, 53756), (372, 53690), (389, 53633), (400, 53597), (402, 53585), (410, 53561), (469, 53447), (471, 53444), (473, 53441), (494, 53378), (560, 53213), (565, 53204), (601, 53108), (612, 53051), (626, 53000), (647, 52937), (651, 52928), (668, 52865), (691, 52811), (698, 52787), (717, 52733), (722, 52721), (730, 52700), (733, 52691), (738, 52682), (758, 52637), (760, 52631), (765, 52616), (775, 52571), (779, 52553), (781, 52547), (793, 52508), (794, 52496), (795, 52493), (796, 52490), (805, 52466), (809, 52454), (840, 52382),

Gene: Indra_48 Start: 29792, Stop: 27951, Start Num: 191

Candidate Starts for Indra_48:

(Start: 191 @29792 has 828 MA's), (271, 29588), (307, 29513), (308, 29510), (314, 29483), (319, 29468), (326, 29456), (340, 29405), (368, 29315), (372, 29303), (420, 29210), (441, 29171), (451, 29153), (458, 29138), (484, 29072), (496, 29039), (498, 29036), (535, 28934), (565, 28874), (592, 28790), (611, 28709), (636, 28625), (637, 28622), (639, 28613), (646, 28586), (656, 28556), (676, 28496), (691, 28457), (770, 28241), (771, 28238), (775, 28217), (812, 28082), (816, 28070), (820, 28061), (821, 28058), (859, 27965),

Gene: IndyLu_42 Start: 29805, Stop: 31679, Start Num: 182

Candidate Starts for IndyLu_42:

(Start: 182 @29805 has 49 MA's), (216, 29874), (224, 29895), (328, 30141), (332, 30156), (361, 30237), (476, 30477), (564, 30711), (597, 30831), (598, 30834), (611, 30894), (632, 30960), (635, 30975), (644, 31011), (656, 31047), (680, 31140), (747, 31311), (748, 31314), (770, 31383), (778, 31422), (791, 31464), (794, 31482), (812, 31542), (820, 31563),

Gene: Insomnia_44 Start: 30835, Stop: 29048, Start Num: 191

Candidate Starts for Insomnia_44:

(Start: 191 @30835 has 828 MA's), (271, 30631), (307, 30559), (314, 30529), (326, 30502), (423, 30250), (451, 30199), (484, 30118), (501, 30073), (532, 29989), (559, 29932), (581, 29890), (592, 29845), (611, 29764), (625, 29713), (637, 29677), (656, 29611), (676, 29551), (679, 29539), (716, 29437), (726, 29413), (732, 29395), (760, 29332), (768, 29305), (770, 29296), (775, 29272), (812, 29137), (816, 29125), (820, 29116),

Gene: Inverness_59 Start: 54064, Stop: 52205, Start Num: 149

Candidate Starts for Inverness_59:

(Start: 133 @54088 has 1 MA's), (Start: 149 @54064 has 248 MA's), (Start: 174 @54040 has 5 MA's), (Start: 186 @54034 has 3 MA's), (205, 53992), (212, 53971), (254, 53857), (256, 53851), (269, 53821), (296, 53761), (306, 53740), (323, 53686), (327, 53674), (332, 53656), (335, 53644), (372, 53539), (389, 53482), (400, 53446), (402, 53434), (410, 53410), (414, 53398), (421, 53380), (432, 53362), (442, 53344), (465, 53305), (469, 53296), (471, 53293), (473, 53290), (607, 52933), (612, 52900), (617, 52879), (647, 52786), (651, 52777), (668, 52714), (685, 52675), (691, 52660), (717, 52582), (722, 52570), (730, 52549), (748, 52510), (775, 52420), (779, 52402), (781, 52396), (785, 52381), (793, 52357), (795, 52342), (796, 52339), (799, 52327), (809, 52303), (830, 52255), (840, 52231),

Gene: Iracema64_46 Start: 31834, Stop: 30008, Start Num: 191

Candidate Starts for Iracema64_46:

(Start: 191 @31834 has 828 MA's), (201, 31813), (209, 31783), (221, 31753), (291, 31591), (300, 31573), (326, 31501), (328, 31492), (366, 31372), (372, 31348), (420, 31255), (448, 31207), (458, 31186), (476, 31147), (523, 31015), (532, 30994), (556, 30949), (559, 30937), (609, 30784), (611, 30763), (646, 30640), (656, 30610), (666, 30571), (683, 30505), (685, 30502), (691, 30487), (698, 30463), (704, 30439), (775, 30232), (812, 30097), (816, 30085), (820, 30076),

Gene: Iridoclysis_61 Start: 54348, Stop: 52489, Start Num: 149

Candidate Starts for Iridoclysis_61:

(Start: 133 @54372 has 1 MA's), (Start: 149 @54348 has 248 MA's), (Start: 174 @54324 has 5 MA's), (Start: 186 @54318 has 3 MA's), (205, 54276), (212, 54255), (254, 54141), (256, 54135), (269, 54105), (296, 54045), (306, 54024), (323, 53970), (327, 53958), (332, 53940), (335, 53928), (372, 53823), (389, 53766), (400, 53730), (402, 53718), (411, 53691), (421, 53664), (432, 53646), (442, 53628), (465, 53589), (469, 53580), (471, 53577), (576, 53319), (607, 53217), (612, 53184), (617, 53163), (647, 53070), (651, 53061), (668, 52998), (683, 52962), (685, 52959), (691, 52944), (717, 52866), (722, 52854), (730, 52833), (748, 52794), (775, 52704), (779, 52686), (781, 52680), (785, 52665), (793, 52641), (795, 52626), (796, 52623), (799, 52611), (809, 52587), (830, 52539), (840, 52515),

Gene: IronMan_44 Start: 32460, Stop: 30670, Start Num: 191

Candidate Starts for IronMan_44:

(Start: 191 @32460 has 828 MA's), (271, 32256), (274, 32247), (308, 32178), (314, 32151), (326, 32124), (372, 31971), (420, 31878), (446, 31830), (451, 31821), (458, 31806), (484, 31740), (496, 31707), (526, 31623), (565, 31542), (581, 31512), (611, 31386), (618, 31356), (625, 31335), (646, 31263), (651, 31251), (656, 31233), (666, 31194), (676, 31173), (683, 31152), (689, 31140), (754, 30972), (770, 30918), (775, 30894), (791, 30837), (795, 30816), (812, 30759), (816, 30747), (820, 30738),

Gene: IsaacEli_62 Start: 54547, Stop: 52688, Start Num: 149

Candidate Starts for IsaacEli_62:

(Start: 133 @54571 has 1 MA's), (Start: 149 @54547 has 248 MA's), (Start: 174 @54523 has 5 MA's), (Start: 186 @54517 has 3 MA's), (205, 54475), (212, 54454), (254, 54340), (256, 54334), (269, 54304), (296, 54244), (306, 54223), (323, 54169), (327, 54157), (332, 54139), (335, 54127), (372, 54022), (389, 53965), (400, 53929), (402, 53917), (405, 53908), (411, 53890), (421, 53863), (432, 53845), (442, 53827), (465, 53788), (469, 53779), (471, 53776), (473, 53773), (576, 53518), (607, 53416), (612, 53383), (617, 53362), (647, 53269), (651, 53260), (668, 53197), (683, 53161), (685, 53158), (691, 53143), (717, 53065), (722, 53053), (730, 53032), (748, 52993), (775, 52903), (779, 52885), (781, 52879), (785, 52864), (793, 52840), (795, 52825), (796, 52822), (799, 52810), (809, 52786), (830, 52738), (840, 52714),

Gene: Isca_44 Start: 30978, Stop: 29140, Start Num: 191

Candidate Starts for Isca_44:

(Start: 141 @31050 has 23 MA's), (Start: 191 @30978 has 828 MA's), (209, 30927), (271, 30774), (291, 30735), (307, 30702), (326, 30645), (328, 30636), (331, 30624), (366, 30516), (372, 30492), (420, 30396), (448, 30348), (476, 30288), (523, 30156), (532, 30135), (568, 30060), (582, 30021), (592, 29979), (611, 29898), (637, 29811), (646, 29775), (656, 29745), (685, 29634), (698, 29595), (704, 29571), (712, 29553), (713, 29550), (758, 29430), (760, 29424), (775, 29364), (812, 29229), (816, 29217), (820, 29208),

Gene: Isiphiwo_43 Start: 29164, Stop: 27323, Start Num: 191

Candidate Starts for Isiphiwo_43:

(Start: 191 @29164 has 828 MA's), (271, 28960), (307, 28885), (308, 28882), (314, 28855), (319, 28840), (326, 28828), (340, 28777), (368, 28687), (372, 28675), (420, 28582), (441, 28543), (451,

28525), (458, 28510), (484, 28444), (496, 28411), (498, 28408), (535, 28306), (565, 28246), (592, 28162), (611, 28081), (636, 27997), (637, 27994), (639, 27985), (646, 27958), (656, 27928), (676, 27868), (691, 27829), (698, 27805), (770, 27613), (771, 27610), (775, 27589), (812, 27454), (816, 27442), (820, 27433), (821, 27430), (859, 27337),

Gene: Iter_41 Start: 29603, Stop: 31468, Start Num: 191

Candidate Starts for Iter_41:

(Start: 191 @29603 has 828 MA's), (208, 29651), (274, 29816), (314, 29900), (343, 29990), (423, 30197), (428, 30206), (472, 30296), (476, 30305), (481, 30320), (532, 30458), (583, 30596), (611, 30716), (618, 30746), (637, 30803), (656, 30869), (680, 30962), (704, 31034), (812, 31364), (815, 31373),

Gene: ItsyBitsy1_57 Start: 52478, Stop: 50649, Start Num: 147

Candidate Starts for ItsyBitsy1_57:

(Start: 147 @52478 has 31 MA's), (Start: 186 @52451 has 3 MA's), (202, 52421), (205, 52409), (215, 52382), (216, 52379), (221, 52370), (235, 52352), (272, 52256), (296, 52205), (307, 52181), (312, 52157), (358, 52019), (368, 51995), (372, 51983), (389, 51926), (400, 51890), (402, 51878), (410, 51854), (456, 51770), (469, 51740), (471, 51737), (483, 51707), (542, 51563), (565, 51497), (589, 51446), (595, 51425), (601, 51407), (612, 51350), (639, 51266), (651, 51227), (668, 51161), (679, 51134), (683, 51125), (691, 51107), (698, 51083), (717, 51029), (722, 51017), (730, 50996), (760, 50927), (775, 50867), (779, 50849), (789, 50816), (793, 50804), (795, 50789), (796, 50786), (799, 50774), (809, 50750), (810, 50747), (830, 50699), (832, 50696), (840, 50675), (847, 50654),

Gene: IttyBittyPiggy_40 Start: 29144, Stop: 31009, Start Num: 191

Candidate Starts for IttyBittyPiggy_40:

(Start: 191 @29144 has 828 MA's), (208, 29192), (351, 29561), (423, 29738), (476, 29846), (481, 29861), (532, 29999), (583, 30137), (611, 30257), (637, 30344), (656, 30410), (680, 30503), (812, 30905), (815, 30914),

Gene: Iwokeuplikedis_47 Start: 31404, Stop: 29578, Start Num: 191

Candidate Starts for Iwokeuplikedis_47:

(Start: 191 @31404 has 828 MA's), (271, 31200), (274, 31191), (283, 31176), (291, 31161), (308, 31125), (314, 31098), (326, 31071), (331, 31050), (372, 30918), (420, 30825), (451, 30768), (458, 30753), (484, 30687), (515, 30606), (532, 30558), (534, 30552), (566, 30486), (592, 30414), (611, 30333), (625, 30282), (636, 30249), (637, 30246), (656, 30180), (666, 30141), (676, 30120), (701, 30045), (706, 30027), (726, 29982), (737, 29955), (754, 29919), (770, 29865), (775, 29841), (791, 29784), (795, 29763), (812, 29706), (816, 29694), (821, 29682), (859, 29589),

Gene: JAMaL_53 Start: 54192, Stop: 52339, Start Num: 124

Candidate Starts for JAMaL_53:

(114, 54210), (Start: 124 @54192 has 2 MA's), (Start: 186 @54138 has 3 MA's), (201, 54111), (205, 54096), (235, 54024), (236, 54018), (263, 53955), (269, 53937), (272, 53928), (291, 53886), (296, 53877), (297, 53874), (307, 53853), (329, 53787), (341, 53745), (343, 53736), (347, 53733), (358, 53703), (389, 53610), (395, 53592), (400, 53574), (402, 53562), (410, 53538), (411, 53535), (469, 53424), (471, 53421), (473, 53418), (483, 53391), (494, 53355), (589, 53130), (590, 53127), (601, 53091), (608, 53061), (609, 53058), (612, 53034), (645, 52926), (647, 52920), (651, 52911), (683, 52812), (685, 52809), (691, 52794), (717, 52716), (722, 52704), (730, 52683), (733, 52674), (748, 52644), (760, 52614), (768, 52587), (775, 52554), (781, 52530), (793, 52491), (795, 52476), (796, 52473), (799, 52461), (809, 52437), (826, 52395), (830, 52389), (840, 52365),

Gene: JC27_45 Start: 34894, Stop: 33068, Start Num: 191

Candidate Starts for JC27_45:

(Start: 191 @34894 has 828 MA's), (274, 34681), (314, 34588), (322, 34567), (326, 34561), (328, 34552), (365, 34435), (372, 34408), (420, 34315), (428, 34300), (446, 34267), (470, 34216), (472, 34213), (494, 34147), (508, 34117), (518, 34087), (534, 34042), (556, 34003), (611, 33823), (623, 33775), (637, 33736), (656, 33670), (666, 33631), (676, 33610), (683, 33589), (691, 33571), (712, 33505), (770, 33355), (771, 33352), (778, 33316), (785, 33292), (788, 33283), (792, 33271), (798, 33244), (812, 33196), (820, 33175),

Gene: JDog_61 Start: 54563, Stop: 52704, Start Num: 149

Candidate Starts for JDog_61:

(Start: 133 @54587 has 1 MA's), (Start: 149 @54563 has 248 MA's), (Start: 174 @54539 has 5 MA's), (Start: 186 @54533 has 3 MA's), (205, 54491), (212, 54470), (254, 54356), (256, 54350), (269, 54320), (296, 54260), (306, 54239), (323, 54185), (327, 54173), (332, 54155), (335, 54143), (372, 54038), (389, 53981), (400, 53945), (402, 53933), (410, 53909), (414, 53897), (421, 53879), (432, 53861), (442, 53843), (465, 53804), (469, 53795), (471, 53792), (576, 53534), (607, 53432), (612, 53399), (617, 53378), (647, 53285), (651, 53276), (668, 53213), (683, 53177), (685, 53174), (691, 53159), (717, 53081), (722, 53069), (730, 53048), (748, 53009), (775, 52919), (779, 52901), (781, 52895), (785, 52880), (793, 52856), (795, 52841), (796, 52838), (799, 52826), (809, 52802), (830, 52754), (840, 52730),

Gene: JF2_45 Start: 30729, Stop: 28891, Start Num: 191

Candidate Starts for JF2_45:

(Start: 141 @30801 has 23 MA's), (Start: 191 @30729 has 828 MA's), (209, 30678), (271, 30525), (291, 30486), (307, 30453), (326, 30396), (328, 30387), (331, 30375), (366, 30267), (372, 30243), (420, 30147), (448, 30099), (476, 30039), (523, 29907), (532, 29886), (565, 29817), (582, 29772), (592, 29730), (611, 29649), (637, 29562), (646, 29526), (656, 29496), (685, 29385), (698, 29346), (704, 29322), (712, 29304), (758, 29181), (760, 29175), (775, 29115), (811, 28983), (812, 28980), (816, 28968), (820, 28959),

Gene: JF4_45 Start: 30729, Stop: 28891, Start Num: 191

Candidate Starts for JF4_45:

(Start: 141 @30801 has 23 MA's), (Start: 191 @30729 has 828 MA's), (209, 30678), (271, 30525), (291, 30486), (307, 30453), (326, 30396), (328, 30387), (331, 30375), (366, 30267), (372, 30243), (420, 30147), (448, 30099), (476, 30039), (523, 29907), (532, 29886), (565, 29817), (582, 29772), (592, 29730), (611, 29649), (637, 29562), (646, 29526), (656, 29496), (685, 29385), (698, 29346), (704, 29322), (712, 29304), (758, 29181), (760, 29175), (775, 29115), (811, 28983), (812, 28980), (816, 28968), (820, 28959),

Gene: JHC117_48 Start: 31851, Stop: 30037, Start Num: 191

Candidate Starts for JHC117_48:

(Start: 191 @31851 has 828 MA's), (206, 31812), (209, 31800), (271, 31647), (276, 31632), (307, 31575), (326, 31518), (328, 31509), (340, 31467), (355, 31416), (372, 31365), (420, 31272), (446, 31224), (451, 31215), (458, 31200), (476, 31161), (484, 31134), (494, 31104), (528, 31011), (558, 30951), (565, 30936), (611, 30780), (637, 30693), (656, 30627), (666, 30588), (685, 30516), (698, 30477), (704, 30453), (712, 30435), (726, 30402), (737, 30375), (760, 30321), (775, 30261), (795, 30183), (812, 30126), (816, 30114), (820, 30105),

Gene: JSwag_46 Start: 29679, Stop: 27889, Start Num: 191

Candidate Starts for JSwag_46:

(Start: 191 @29679 has 828 MA's), (262, 29505), (307, 29400), (308, 29397), (314, 29370), (326, 29343), (340, 29292), (372, 29190), (420, 29097), (444, 29052), (446, 29049), (451, 29040), (515, 28878), (523, 28851), (532, 28830), (534, 28824), (583, 28725), (592, 28686), (607, 28635), (611, 28605), (625, 28554), (636, 28521), (644, 28488), (646, 28482), (656, 28452), (676, 28392), (683, 28371), (698, 28329), (705, 28302), (712, 28287), (750, 28200), (770, 28137), (771, 28134), (812,

27978), (816, 27966), (821, 27954),

Gene: Jaan_45 Start: 32749, Stop: 30959, Start Num: 191

Candidate Starts for Jaan_45:

(Start: 191 @32749 has 828 MA's), (271, 32545), (274, 32536), (308, 32467), (314, 32440), (326, 32413), (372, 32260), (420, 32167), (446, 32119), (451, 32110), (458, 32095), (484, 32029), (496, 31996), (526, 31912), (565, 31831), (581, 31801), (611, 31675), (625, 31624), (646, 31552), (656, 31522), (666, 31483), (676, 31462), (683, 31441), (689, 31429), (754, 31261), (770, 31207), (775, 31183), (791, 31126), (795, 31105), (812, 31048), (816, 31036), (820, 31027),

Gene: Jabiru_39 Start: 30201, Stop: 28336, Start Num: 191

Candidate Starts for Jabiru_39:

(Start: 191 @30201 has 828 MA's), (235, 30090), (271, 29997), (272, 29994), (307, 29925), (314, 29895), (326, 29868), (328, 29859), (355, 29766), (361, 29751), (372, 29715), (407, 29655), (420, 29619), (446, 29571), (457, 29550), (458, 29547), (483, 29487), (513, 29409), (528, 29361), (534, 29349), (558, 29301), (576, 29250), (611, 29115), (623, 29067), (632, 29049), (637, 29028), (639, 29019), (647, 28989), (656, 28962), (657, 28959), (683, 28881), (691, 28863), (704, 28815), (726, 28764), (750, 28710), (754, 28701), (760, 28683), (779, 28605), (812, 28488), (816, 28476), (859, 28371),

Gene: Jabith_45 Start: 30836, Stop: 29049, Start Num: 191

Candidate Starts for Jabith_45:

(Start: 191 @30836 has 828 MA's), (271, 30632), (307, 30560), (314, 30530), (326, 30503), (423, 30251), (451, 30200), (484, 30119), (501, 30074), (502, 30071), (532, 29990), (559, 29933), (581, 29891), (592, 29846), (611, 29765), (625, 29714), (637, 29678), (656, 29612), (676, 29552), (716, 29438), (726, 29414), (732, 29396), (760, 29333), (768, 29306), (770, 29297), (775, 29273), (812, 29138), (816, 29126), (820, 29117),

Gene: JacAttac_62 Start: 54010, Stop: 52151, Start Num: 149

Candidate Starts for JacAttac_62:

(Start: 133 @54034 has 1 MA's), (Start: 149 @54010 has 248 MA's), (Start: 174 @53986 has 5 MA's), (Start: 186 @53980 has 3 MA's), (205, 53938), (212, 53917), (254, 53803), (256, 53797), (269, 53767), (296, 53707), (306, 53686), (323, 53632), (327, 53620), (332, 53602), (335, 53590), (372, 53485), (389, 53428), (400, 53392), (402, 53380), (410, 53356), (414, 53344), (421, 53326), (432, 53308), (442, 53290), (465, 53251), (469, 53242), (471, 53239), (473, 53236), (607, 52879), (612, 52846), (617, 52825), (647, 52732), (651, 52723), (668, 52660), (683, 52624), (685, 52621), (691, 52606), (717, 52528), (722, 52516), (730, 52495), (748, 52456), (775, 52366), (779, 52348), (781, 52342), (785, 52327), (793, 52303), (795, 52288), (796, 52285), (799, 52273), (809, 52249), (830, 52201), (840, 52177),

Gene: JackSparrow_46 Start: 35167, Stop: 33338, Start Num: 191

Candidate Starts for JackSparrow_46:

(Start: 191 @35167 has 828 MA's), (274, 34954), (314, 34861), (322, 34840), (326, 34834), (328, 34825), (365, 34708), (372, 34681), (420, 34588), (428, 34573), (446, 34540), (470, 34489), (472, 34486), (494, 34420), (508, 34390), (518, 34360), (534, 34315), (556, 34276), (611, 34096), (623, 34048), (639, 34000), (651, 33961), (656, 33943), (666, 33904), (676, 33883), (683, 33862), (690, 33847), (733, 33724), (789, 33553), (794, 33529), (808, 33481), (812, 33469), (820, 33448), (823, 33442), (842, 33394), (849, 33379),

Gene: Jackstina_54 Start: 53566, Stop: 51749, Start Num: 183

Candidate Starts for Jackstina_54:

(Start: 183 @53566 has 42 MA's), (201, 53536), (274, 53356), (331, 53203), (334, 53191), (343, 53161), (349, 53155), (372, 53092), (375, 53086), (389, 53035), (400, 52999), (414, 52951), (471,

(52846), (510, 52750), (533, 52699), (589, 52555), (601, 52516), (608, 52486), (612, 52459), (616, 52447), (645, 52351), (647, 52345), (651, 52336), (655, 52324), (674, 52252), (683, 52222), (691, 52204), (694, 52195), (717, 52126), (722, 52114), (730, 52093), (760, 52024), (765, 52009), (771, 51985), (775, 51964), (781, 51940), (793, 51901), (796, 51883), (799, 51871), (805, 51859), (809, 51847), (826, 51805), (840, 51775),

Gene: Jaek_55 Start: 36879, Stop: 34711, Start Num: 86

Candidate Starts for Jaek_55:

(85, 36882), (Start: 86 @36879 has 11 MA's), (106, 36825), (160, 36741), (235, 36588), (237, 36579), (253, 36534), (278, 36456), (287, 36447), (294, 36432), (301, 36417), (303, 36414), (323, 36357), (346, 36264), (362, 36222), (422, 36027), (430, 36015), (434, 36009), (449, 35985), (459, 35964), (468, 35943), (476, 35928), (479, 35922), (500, 35859), (517, 35808), (550, 35721), (571, 35661), (591, 35613), (615, 35511), (616, 35505), (620, 35478), (621, 35475), (629, 35454), (641, 35412), (643, 35406), (650, 35382), (659, 35340), (660, 35337), (665, 35310), (674, 35277), (677, 35265), (692, 35229), (698, 35205), (700, 35199), (701, 35193), (723, 35139), (744, 35091), (746, 35088), (764, 35028), (770, 35004), (777, 34974), (790, 34920), (809, 34851), (813, 34839), (828, 34800),

Gene: JaguarMi_55 Start: 55103, Stop: 53277, Start Num: 141

Candidate Starts for JaguarMi_55:

(Start: 128 @55121 has 3 MA's), (Start: 141 @55103 has 23 MA's), (Start: 186 @55076 has 3 MA's), (201, 55049), (205, 55034), (212, 55013), (246, 54926), (254, 54908), (293, 54821), (306, 54794), (310, 54779), (332, 54713), (341, 54683), (343, 54674), (347, 54671), (349, 54668), (358, 54641), (389, 54548), (395, 54530), (400, 54512), (402, 54500), (411, 54473), (442, 54410), (465, 54371), (469, 54362), (471, 54359), (483, 54329), (494, 54293), (589, 54068), (590, 54065), (601, 54029), (607, 54005), (612, 53972), (645, 53864), (647, 53858), (651, 53849), (683, 53750), (685, 53747), (691, 53732), (717, 53654), (722, 53642), (730, 53621), (733, 53612), (748, 53582), (760, 53552), (768, 53525), (775, 53492), (779, 53474), (781, 53468), (793, 53429), (796, 53411), (799, 53399), (809, 53375), (826, 53333), (830, 53327), (840, 53303),

Gene: JakeO_61 Start: 54286, Stop: 52427, Start Num: 149

Candidate Starts for JakeO_61:

(Start: 133 @54310 has 1 MA's), (Start: 149 @54286 has 248 MA's), (Start: 174 @54262 has 5 MA's), (Start: 186 @54256 has 3 MA's), (205, 54214), (212, 54193), (254, 54079), (256, 54073), (269, 54043), (296, 53983), (306, 53962), (323, 53908), (327, 53896), (332, 53878), (335, 53866), (372, 53761), (389, 53704), (400, 53668), (402, 53656), (410, 53632), (414, 53620), (421, 53602), (432, 53584), (442, 53566), (465, 53527), (469, 53518), (471, 53515), (473, 53512), (607, 53155), (612, 53122), (617, 53101), (647, 53008), (651, 52999), (668, 52936), (683, 52900), (685, 52897), (691, 52882), (717, 52804), (722, 52792), (730, 52771), (748, 52732), (775, 52642), (779, 52624), (781, 52618), (785, 52603), (793, 52579), (795, 52564), (796, 52561), (799, 52549), (809, 52525), (816, 52504), (830, 52477), (840, 52453), (845, 52438),

Gene: Janeemi_43 Start: 31325, Stop: 33190, Start Num: 191

Candidate Starts for Janeemi_43:

(Start: 191 @31325 has 828 MA's), (208, 31373), (271, 31529), (314, 31622), (322, 31643), (343, 31712), (428, 31928), (472, 32018), (476, 32027), (481, 32042), (484, 32054), (515, 32132), (532, 32180), (559, 32237), (583, 32318), (611, 32438), (637, 32525), (656, 32591), (680, 32684), (704, 32756), (752, 32864), (765, 32906), (775, 32951), (808, 33074), (812, 33086), (815, 33095), (850, 33173),

Gene: JangoPhett_60 Start: 54351, Stop: 52492, Start Num: 149

Candidate Starts for JangoPhett_60:

(Start: 133 @54375 has 1 MA's), (Start: 149 @54351 has 248 MA's), (Start: 174 @54327 has 5 MA's), (Start: 186 @54321 has 3 MA's), (205, 54279), (212, 54258), (254, 54144), (256, 54138), (269,

54108), (296, 54048), (306, 54027), (323, 53973), (327, 53961), (332, 53943), (335, 53931), (372, 53826), (389, 53769), (400, 53733), (402, 53721), (410, 53697), (414, 53685), (421, 53667), (432, 53649), (442, 53631), (465, 53592), (469, 53583), (471, 53580), (473, 53577), (607, 53220), (612, 53187), (617, 53166), (647, 53073), (651, 53064), (668, 53001), (683, 52965), (685, 52962), (691, 52947), (717, 52869), (722, 52857), (730, 52836), (748, 52797), (775, 52707), (779, 52689), (781, 52683), (785, 52668), (793, 52644), (795, 52629), (796, 52626), (799, 52614), (809, 52590), (830, 52542), (840, 52518),

Gene: JasmineDragon_47 Start: 30557, Stop: 32419, Start Num: 191

Candidate Starts for JasmineDragon_47:

(121, 30458), (130, 30476), (Start: 191 @30557 has 828 MA's), (208, 30605), (272, 30764), (274, 30770), (322, 30875), (336, 30920), (415, 31127), (476, 31256), (515, 31361), (532, 31409), (567, 31493), (611, 31667), (636, 31751), (644, 31784), (647, 31793), (663, 31844), (680, 31913), (720, 32024), (752, 32093), (754, 32099), (781, 32204), (812, 32315),

Gene: Jasper_46 Start: 34284, Stop: 32455, Start Num: 191

Candidate Starts for Jasper_46:

(Start: 191 @34284 has 828 MA's), (274, 34071), (283, 34056), (307, 34008), (314, 33978), (322, 33957), (326, 33951), (328, 33942), (365, 33825), (372, 33798), (420, 33705), (428, 33690), (439, 33669), (446, 33657), (470, 33606), (472, 33603), (494, 33537), (508, 33507), (518, 33477), (534, 33432), (556, 33393), (611, 33213), (623, 33165), (639, 33117), (651, 33078), (656, 33060), (666, 33021), (676, 33000), (683, 32979), (690, 32964), (733, 32841), (789, 32670), (794, 32646), (808, 32598), (812, 32586), (820, 32565), (823, 32559), (842, 32511), (849, 32496),

Gene: Jaykayelowell_43 Start: 31563, Stop: 29737, Start Num: 191

Candidate Starts for Jaykayelowell_43:

(Start: 191 @31563 has 828 MA's), (201, 31542), (209, 31512), (221, 31482), (291, 31320), (300, 31302), (326, 31230), (328, 31221), (366, 31101), (372, 31077), (420, 30984), (448, 30936), (458, 30915), (476, 30876), (523, 30744), (532, 30723), (556, 30678), (559, 30666), (609, 30513), (611, 30492), (646, 30369), (656, 30339), (666, 30300), (683, 30234), (685, 30231), (691, 30216), (698, 30192), (704, 30168), (775, 29961), (812, 29826), (816, 29814), (820, 29805),

Gene: Jeeves_50 Start: 31954, Stop: 30161, Start Num: 191

Candidate Starts for Jeeves_50:

(Start: 191 @31954 has 828 MA's), (196, 31945), (235, 31843), (271, 31750), (307, 31675), (308, 31672), (326, 31618), (366, 31489), (372, 31465), (420, 31372), (444, 31327), (484, 31234), (494, 31204), (556, 31057), (579, 31006), (592, 30958), (611, 30877), (632, 30811), (646, 30754), (656, 30724), (676, 30664), (683, 30643), (726, 30526), (737, 30499), (768, 30418), (770, 30409), (791, 30328), (795, 30307), (798, 30298), (812, 30250), (816, 30238), (820, 30229), (821, 30226),

Gene: Jeffabunny_45 Start: 29478, Stop: 27607, Start Num: 170

Candidate Starts for Jeffabunny_45:

(Start: 170 @29478 has 3 MA's), (Start: 191 @29448 has 828 MA's), (271, 29244), (307, 29169), (308, 29166), (314, 29139), (319, 29124), (326, 29112), (340, 29061), (368, 28971), (372, 28959), (420, 28866), (441, 28827), (451, 28809), (458, 28794), (484, 28728), (496, 28695), (498, 28692), (535, 28590), (565, 28530), (592, 28446), (611, 28365), (636, 28281), (637, 28278), (639, 28269), (646, 28242), (656, 28212), (676, 28152), (691, 28113), (770, 27897), (771, 27894), (775, 27873), (812, 27738), (816, 27726), (820, 27717), (821, 27714), (859, 27621),

Gene: JenCasNa_49 Start: 31852, Stop: 30038, Start Num: 191

Candidate Starts for JenCasNa_49:

(Start: 191 @31852 has 828 MA's), (206, 31813), (209, 31801), (271, 31648), (276, 31633), (307, 31576), (326, 31519), (328, 31510), (340, 31468), (355, 31417), (372, 31366), (420, 31273), (446,

31225), (451, 31216), (458, 31201), (476, 31162), (484, 31135), (494, 31105), (528, 31012), (558, 30952), (565, 30937), (611, 30781), (637, 30694), (656, 30628), (666, 30589), (685, 30517), (698, 30478), (704, 30454), (712, 30436), (726, 30403), (737, 30376), (760, 30322), (775, 30262), (795, 30184), (812, 30127), (816, 30115), (820, 30106),

Gene: JeppNRM_49 Start: 31754, Stop: 29940, Start Num: 191

Candidate Starts for JeppNRM_49:

(Start: 191 @31754 has 828 MA's), (206, 31715), (209, 31703), (271, 31550), (276, 31535), (307, 31478), (326, 31421), (328, 31412), (340, 31370), (355, 31319), (372, 31268), (420, 31175), (446, 31127), (458, 31103), (476, 31064), (484, 31037), (494, 31007), (527, 30917), (528, 30914), (534, 30902), (558, 30854), (565, 30839), (611, 30683), (625, 30632), (636, 30599), (637, 30596), (656, 30530), (666, 30491), (685, 30419), (698, 30380), (704, 30356), (712, 30338), (726, 30305), (760, 30224), (775, 30164), (779, 30146), (795, 30086), (798, 30077), (812, 30029), (816, 30017), (820, 30008),

Gene: Jerm_46 Start: 31734, Stop: 29947, Start Num: 191

Candidate Starts for Jerm_46:

(118, 31821), (Start: 191 @31734 has 828 MA's), (272, 31527), (274, 31521), (283, 31506), (291, 31491), (308, 31455), (314, 31428), (326, 31401), (331, 31380), (372, 31248), (420, 31155), (446, 31107), (451, 31098), (458, 31083), (484, 31017), (515, 30936), (532, 30888), (534, 30882), (565, 30819), (611, 30663), (625, 30612), (636, 30579), (637, 30576), (656, 30510), (666, 30471), (676, 30450), (701, 30375), (704, 30363), (726, 30312), (754, 30249), (760, 30231), (770, 30195), (775, 30171), (795, 30093), (812, 30036), (816, 30024), (820, 30015),

Gene: Jerm2_45 Start: 34938, Stop: 33109, Start Num: 191

Candidate Starts for Jerm2_45:

(Start: 191 @34938 has 828 MA's), (274, 34725), (283, 34710), (307, 34662), (314, 34632), (322, 34611), (326, 34605), (328, 34596), (365, 34479), (372, 34452), (420, 34359), (428, 34344), (470, 34260), (472, 34257), (494, 34191), (508, 34161), (518, 34131), (534, 34086), (556, 34047), (611, 33867), (623, 33819), (639, 33771), (651, 33732), (656, 33714), (666, 33675), (676, 33654), (683, 33633), (733, 33495), (789, 33324), (794, 33300), (803, 33267), (808, 33252), (812, 33240), (820, 33219), (823, 33213), (842, 33165), (849, 33150),

Gene: Jester_36 Start: 28049, Stop: 26265, Start Num: 191

Candidate Starts for Jester_36:

(Start: 191 @28049 has 828 MA's), (288, 27815), (302, 27785), (306, 27776), (307, 27773), (319, 27728), (326, 27716), (340, 27665), (372, 27563), (380, 27542), (420, 27470), (446, 27422), (476, 27359), (484, 27332), (523, 27227), (534, 27200), (556, 27161), (611, 26981), (623, 26933), (656, 26828), (657, 26825), (676, 26768), (683, 26747), (727, 26624), (758, 26555), (770, 26513), (775, 26489), (795, 26411), (812, 26354), (816, 26342), (839, 26285),

Gene: JetBlade_45 Start: 31564, Stop: 29738, Start Num: 191

Candidate Starts for JetBlade_45:

(Start: 191 @31564 has 828 MA's), (201, 31543), (209, 31513), (221, 31483), (291, 31321), (300, 31303), (326, 31231), (328, 31222), (366, 31102), (372, 31078), (420, 30985), (448, 30937), (458, 30916), (476, 30877), (523, 30745), (532, 30724), (556, 30679), (559, 30667), (609, 30514), (611, 30493), (646, 30370), (656, 30340), (666, 30301), (683, 30235), (685, 30232), (691, 30217), (698, 30193), (704, 30169), (775, 29962), (779, 29944), (812, 29827), (816, 29815), (820, 29806),

Gene: JewelBug_47 Start: 29796, Stop: 27955, Start Num: 191

Candidate Starts for JewelBug_47:

(Start: 191 @29796 has 828 MA's), (271, 29592), (307, 29517), (308, 29514), (314, 29487), (319, 29472), (326, 29460), (340, 29409), (368, 29319), (372, 29307), (420, 29214), (441, 29175), (451,

29157), (458, 29142), (484, 29076), (496, 29043), (498, 29040), (535, 28938), (565, 28878), (592, 28794), (611, 28713), (636, 28629), (637, 28626), (639, 28617), (646, 28590), (656, 28560), (676, 28500), (691, 28461), (770, 28245), (771, 28242), (775, 28221), (812, 28086), (816, 28074), (820, 28065), (821, 28062), (859, 27969),

Gene: Jillium_60 Start: 54555, Stop: 52696, Start Num: 149

Candidate Starts for Jillium_60:

(Start: 133 @54579 has 1 MA's), (Start: 149 @54555 has 248 MA's), (Start: 174 @54531 has 5 MA's), (Start: 186 @54525 has 3 MA's), (205, 54483), (212, 54462), (254, 54348), (256, 54342), (269, 54312), (296, 54252), (306, 54231), (323, 54177), (327, 54165), (332, 54147), (335, 54135), (372, 54030), (389, 53973), (400, 53937), (402, 53925), (410, 53901), (414, 53889), (421, 53871), (432, 53853), (442, 53835), (465, 53796), (469, 53787), (471, 53784), (473, 53781), (607, 53424), (612, 53391), (617, 53370), (647, 53277), (651, 53268), (668, 53205), (683, 53169), (685, 53166), (691, 53151), (717, 53073), (722, 53061), (730, 53040), (748, 53001), (775, 52911), (779, 52893), (781, 52887), (785, 52872), (793, 52848), (795, 52833), (796, 52830), (799, 52818), (809, 52794), (830, 52746), (840, 52722),

Gene: Jiminy_61 Start: 54122, Stop: 52263, Start Num: 149

Candidate Starts for Jiminy_61:

(Start: 133 @54146 has 1 MA's), (Start: 149 @54122 has 248 MA's), (Start: 174 @54098 has 5 MA's), (Start: 186 @54092 has 3 MA's), (205, 54050), (212, 54029), (254, 53915), (256, 53909), (269, 53879), (296, 53819), (306, 53798), (323, 53744), (327, 53732), (332, 53714), (335, 53702), (372, 53597), (389, 53540), (400, 53504), (402, 53492), (410, 53468), (414, 53456), (421, 53438), (432, 53420), (442, 53402), (465, 53363), (469, 53354), (471, 53351), (473, 53348), (576, 53093), (607, 52991), (612, 52958), (617, 52937), (647, 52844), (651, 52835), (668, 52772), (683, 52736), (685, 52733), (691, 52718), (717, 52640), (722, 52628), (730, 52607), (748, 52568), (775, 52478), (779, 52460), (781, 52454), (785, 52439), (793, 52415), (795, 52400), (796, 52397), (799, 52385), (809, 52361), (816, 52340), (830, 52313), (840, 52289), (845, 52274),

Gene: Jiraiya_64 Start: 54320, Stop: 52461, Start Num: 149

Candidate Starts for Jiraiya_64:

(Start: 133 @54344 has 1 MA's), (Start: 149 @54320 has 248 MA's), (Start: 174 @54296 has 5 MA's), (Start: 186 @54290 has 3 MA's), (205, 54248), (212, 54227), (254, 54113), (256, 54107), (269, 54077), (296, 54017), (306, 53996), (323, 53942), (327, 53930), (332, 53912), (335, 53900), (372, 53795), (389, 53738), (400, 53702), (402, 53690), (411, 53663), (432, 53618), (465, 53561), (469, 53552), (471, 53549), (607, 53189), (612, 53156), (617, 53135), (647, 53042), (651, 53033), (668, 52970), (683, 52934), (685, 52931), (691, 52916), (717, 52838), (722, 52826), (730, 52805), (748, 52766), (775, 52676), (779, 52658), (781, 52652), (785, 52637), (793, 52613), (795, 52598), (796, 52595), (799, 52583), (809, 52559), (830, 52511), (840, 52487), (845, 52472),

Gene: Jobu08_47 Start: 31685, Stop: 29871, Start Num: 191

Candidate Starts for Jobu08_47:

(Start: 191 @31685 has 828 MA's), (206, 31646), (209, 31634), (271, 31481), (276, 31466), (307, 31409), (326, 31352), (328, 31343), (340, 31301), (355, 31250), (372, 31199), (420, 31106), (446, 31058), (451, 31049), (458, 31034), (476, 30995), (484, 30968), (494, 30938), (528, 30845), (534, 30833), (558, 30785), (565, 30770), (611, 30614), (637, 30527), (656, 30461), (666, 30422), (685, 30350), (698, 30311), (704, 30287), (712, 30269), (726, 30236), (737, 30209), (760, 30155), (775, 30095), (795, 30017), (812, 29960), (816, 29948), (820, 29939),

Gene: Joemato_43 Start: 29704, Stop: 31569, Start Num: 191

Candidate Starts for Joemato_43:

(96, 29560), (105, 29587), (107, 29590), (123, 29617), (Start: 191 @29704 has 828 MA's), (208, 29752), (314, 30001), (331, 30049), (343, 30091), (423, 30298), (428, 30307), (472, 30397), (476,

30406), (481, 30421), (496, 30466), (515, 30511), (532, 30559), (559, 30616), (583, 30697), (606, 30784), (611, 30817), (618, 30847), (637, 30904), (656, 30970), (680, 31063), (704, 31135), (752, 31243), (770, 31306), (775, 31330), (804, 31441), (812, 31465), (815, 31474),

Gene: JohnDoe_41 Start: 29700, Stop: 31565, Start Num: 191

Candidate Starts for JohnDoe_41:

(Start: 191 @29700 has 828 MA's), (208, 29748), (314, 29997), (331, 30045), (343, 30087), (423, 30294), (428, 30303), (472, 30393), (476, 30402), (481, 30417), (496, 30462), (515, 30507), (532, 30555), (559, 30612), (583, 30693), (606, 30780), (611, 30813), (618, 30843), (637, 30900), (656, 30966), (663, 30990), (680, 31059), (704, 31131), (752, 31239), (770, 31302), (775, 31326), (804, 31437), (811, 31458), (812, 31461), (815, 31470), (831, 31506),

Gene: Johnathan_41 Start: 28861, Stop: 30735, Start Num: 182

Candidate Starts for Johnathan_41:

(Start: 179 @28858 has 7 MA's), (Start: 182 @28861 has 49 MA's), (216, 28930), (224, 28951), (328, 29197), (340, 29239), (438, 29452), (476, 29533), (564, 29767), (598, 29890), (611, 29950), (614, 29956), (625, 30001), (632, 30016), (635, 30031), (644, 30067), (656, 30103), (680, 30196), (713, 30289), (747, 30367), (770, 30439), (778, 30478), (791, 30520), (794, 30538), (804, 30574), (812, 30598), (820, 30619),

Gene: Jolie1_052 Start: 52581, Stop: 50743, Start Num: 144

Candidate Starts for Jolie1_052:

(33, 52887), (44, 52845), (47, 52830), (Start: 144 @52581 has 3 MA's), (201, 52524), (205, 52509), (233, 52443), (234, 52440), (296, 52287), (297, 52284), (307, 52263), (323, 52212), (325, 52206), (331, 52188), (343, 52146), (347, 52143), (358, 52113), (389, 52020), (400, 51984), (402, 51972), (421, 51918), (458, 51858), (469, 51834), (471, 51831), (494, 51765), (590, 51531), (595, 51513), (601, 51495), (612, 51438), (645, 51330), (647, 51324), (651, 51315), (668, 51252), (683, 51216), (685, 51213), (691, 51198), (717, 51120), (722, 51108), (730, 51087), (732, 51081), (748, 51048), (760, 51018), (765, 51003), (770, 50982), (775, 50958), (781, 50934), (793, 50895), (794, 50883), (795, 50880), (796, 50877), (799, 50865), (809, 50841), (840, 50769), (847, 50748),

Gene: JoongJeon_44 Start: 31567, Stop: 29741, Start Num: 191

Candidate Starts for JoongJeon_44:

(Start: 191 @31567 has 828 MA's), (201, 31546), (209, 31516), (221, 31486), (291, 31324), (300, 31306), (326, 31234), (328, 31225), (366, 31105), (372, 31081), (420, 30988), (448, 30940), (458, 30919), (476, 30880), (523, 30748), (532, 30727), (556, 30682), (559, 30670), (609, 30517), (611, 30496), (646, 30373), (656, 30343), (666, 30304), (683, 30238), (685, 30235), (691, 30220), (698, 30196), (704, 30172), (775, 29965), (812, 29830), (816, 29818), (820, 29809),

Gene: Jordennis_45 Start: 29635, Stop: 27794, Start Num: 191

Candidate Starts for Jordennis_45:

(Start: 191 @29635 has 828 MA's), (271, 29431), (307, 29356), (308, 29353), (314, 29326), (319, 29311), (326, 29299), (340, 29248), (368, 29158), (372, 29146), (420, 29053), (441, 29014), (451, 28996), (458, 28981), (484, 28915), (496, 28882), (498, 28879), (535, 28777), (565, 28717), (592, 28633), (611, 28552), (636, 28468), (637, 28465), (639, 28456), (646, 28429), (651, 28417), (656, 28399), (676, 28339), (691, 28300), (770, 28084), (771, 28081), (775, 28060), (812, 27925), (816, 27913), (820, 27904), (821, 27901), (859, 27808),

Gene: Jorgensen_45 Start: 34588, Stop: 32762, Start Num: 191

Candidate Starts for Jorgensen_45:

(Start: 191 @34588 has 828 MA's), (274, 34375), (283, 34360), (307, 34312), (314, 34282), (322, 34261), (326, 34255), (328, 34246), (365, 34129), (372, 34102), (420, 34009), (428, 33994), (470, 33910), (472, 33907), (494, 33841), (508, 33811), (518, 33781), (534, 33736), (556, 33697), (611,

33517), (618, 33487), (623, 33469), (637, 33430), (656, 33364), (683, 33283), (685, 33280), (712, 33199), (770, 33049), (771, 33046), (778, 33010), (785, 32986), (788, 32977), (792, 32965), (812, 32890), (820, 32869),

Gene: Joselito_45 Start: 30776, Stop: 28989, Start Num: 191

Candidate Starts for Joselito_45:

(Start: 191 @30776 has 828 MA's), (271, 30572), (307, 30500), (314, 30470), (326, 30443), (423, 30191), (451, 30140), (484, 30059), (501, 30014), (559, 29873), (581, 29831), (592, 29786), (611, 29705), (625, 29654), (637, 29618), (656, 29552), (676, 29492), (679, 29480), (716, 29378), (726, 29354), (732, 29336), (760, 29273), (768, 29246), (770, 29237), (775, 29213), (812, 29078), (816, 29066), (820, 29057),

Gene: JoshKayV_46 Start: 31792, Stop: 30005, Start Num: 191

Candidate Starts for JoshKayV_46:

(Start: 191 @31792 has 828 MA's), (272, 31585), (274, 31579), (283, 31564), (291, 31549), (308, 31513), (314, 31486), (326, 31459), (331, 31438), (372, 31306), (420, 31213), (446, 31165), (451, 31156), (458, 31141), (484, 31075), (515, 30994), (532, 30946), (534, 30940), (565, 30877), (611, 30721), (636, 30637), (637, 30634), (656, 30568), (666, 30529), (676, 30508), (701, 30433), (704, 30421), (737, 30343), (754, 30307), (760, 30289), (770, 30253), (775, 30229), (795, 30151), (812, 30094), (816, 30082), (820, 30073),

Gene: Journey13_40 Start: 30167, Stop: 28380, Start Num: 191

Candidate Starts for Journey13_40:

(Start: 191 @30167 has 828 MA's), (271, 29963), (272, 29960), (274, 29954), (291, 29924), (302, 29903), (306, 29894), (307, 29891), (314, 29861), (326, 29834), (331, 29813), (370, 29687), (372, 29681), (420, 29588), (425, 29579), (446, 29540), (458, 29516), (484, 29450), (523, 29342), (532, 29321), (611, 29096), (625, 29045), (639, 29000), (646, 28973), (656, 28943), (666, 28904), (676, 28883), (701, 28808), (706, 28790), (726, 28745), (737, 28718), (754, 28682), (760, 28664), (770, 28628), (775, 28604), (812, 28469), (816, 28457), (820, 28448),

Gene: Jovita_43 Start: 29600, Stop: 31474, Start Num: 182

Candidate Starts for Jovita_43:

(Start: 179 @29597 has 7 MA's), (Start: 182 @29600 has 49 MA's), (216, 29669), (224, 29690), (307, 29870), (340, 29978), (476, 30272), (523, 30407), (564, 30506), (598, 30629), (611, 30689), (614, 30695), (625, 30740), (632, 30755), (635, 30770), (644, 30806), (656, 30842), (680, 30935), (713, 31028), (747, 31106), (748, 31109), (770, 31178), (771, 31181), (778, 31217), (791, 31259), (794, 31277), (812, 31337), (820, 31358),

Gene: Jovo_38 Start: 30627, Stop: 28783, Start Num: 191

Candidate Starts for Jovo_38:

(Start: 191 @30627 has 828 MA's), (209, 30576), (235, 30516), (262, 30453), (271, 30423), (272, 30420), (302, 30363), (307, 30351), (314, 30321), (326, 30294), (355, 30192), (361, 30177), (372, 30141), (407, 30081), (420, 30045), (446, 29997), (483, 29913), (484, 29907), (513, 29835), (523, 29802), (528, 29787), (534, 29775), (576, 29676), (611, 29541), (618, 29511), (623, 29493), (625, 29490), (637, 29454), (639, 29445), (644, 29424), (647, 29415), (656, 29388), (657, 29385), (676, 29328), (683, 29307), (726, 29190), (750, 29136), (754, 29127), (760, 29109), (779, 29031), (794, 28974), (804, 28938), (812, 28914), (816, 28902),

Gene: Jsquared_43 Start: 30314, Stop: 28527, Start Num: 190

Candidate Starts for Jsquared_43:

(99, 30455), (Start: 190 @30314 has 8 MA's), (271, 30110), (272, 30107), (274, 30101), (283, 30086), (291, 30071), (306, 30041), (307, 30038), (314, 30008), (326, 29981), (331, 29960), (340, 29930), (372, 29828), (420, 29735), (446, 29687), (451, 29678), (458, 29663), (484, 29597), (515, 29516),

(532, 29468), (556, 29423), (611, 29243), (623, 29195), (625, 29192), (637, 29156), (656, 29090), (666, 29051), (676, 29030), (701, 28955), (706, 28937), (726, 28892), (737, 28865), (754, 28829), (760, 28811), (770, 28775), (775, 28751), (812, 28616), (816, 28604), (820, 28595), (821, 28592),

Gene: Jstan_41 Start: 30355, Stop: 32220, Start Num: 191

Candidate Starts for Jstan_41:

(Start: 191 @30355 has 828 MA's), (208, 30403), (290, 30586), (293, 30592), (314, 30652), (322, 30673), (343, 30742), (428, 30958), (472, 31048), (476, 31057), (481, 31072), (496, 31117), (532, 31210), (583, 31348), (611, 31468), (618, 31498), (637, 31555), (654, 31612), (656, 31621), (663, 31645), (680, 31714), (704, 31786), (708, 31795), (752, 31894), (770, 31957), (812, 32116), (815, 32125),

Gene: JuliaChild_45 Start: 34674, Stop: 32845, Start Num: 191

Candidate Starts for JuliaChild_45:

(Start: 191 @34674 has 828 MA's), (274, 34461), (283, 34446), (307, 34398), (314, 34368), (322, 34347), (326, 34341), (328, 34332), (365, 34215), (372, 34188), (420, 34095), (428, 34080), (439, 34059), (470, 33996), (472, 33993), (494, 33927), (508, 33897), (518, 33867), (534, 33822), (556, 33783), (611, 33603), (623, 33555), (639, 33507), (651, 33468), (656, 33450), (666, 33411), (676, 33390), (683, 33369), (690, 33354), (733, 33231), (789, 33060), (794, 33036), (808, 32988), (812, 32976), (820, 32955), (823, 32949), (842, 32901), (849, 32886),

Gene: JuneStar_42 Start: 31105, Stop: 33111, Start Num: 96

Candidate Starts for JuneStar_42:

(81, 31072), (96, 31105), (105, 31132), (107, 31135), (123, 31162), (Start: 191 @31246 has 828 MA's), (208, 31294), (314, 31543), (343, 31633), (351, 31663), (423, 31840), (428, 31849), (476, 31948), (481, 31963), (484, 31975), (532, 32101), (583, 32239), (611, 32359), (637, 32446), (656, 32512), (680, 32605), (775, 32872), (789, 32923), (812, 33007),

Gene: JustBecause_62 Start: 44100, Stop: 42133, Start Num: 92

Candidate Starts for JustBecause_62:

(Start: 92 @44100 has 10 MA's), (Start: 132 @44022 has 1 MA's), (143, 44004), (Start: 145 @44001 has 1 MA's), (197, 43932), (235, 43830), (250, 43782), (275, 43704), (299, 43656), (331, 43551), (342, 43512), (345, 43500), (351, 43473), (366, 43437), (387, 43365), (399, 43320), (443, 43209), (480, 43137), (524, 42999), (535, 42972), (547, 42939), (557, 42909), (585, 42849), (598, 42804), (613, 42738), (619, 42708), (627, 42687), (634, 42681), (701, 42519), (707, 42501), (709, 42498), (769, 42378), (781, 42330), (784, 42318), (788, 42309), (792, 42297), (795, 42279), (798, 42270), (801, 42255), (810, 42231),

Gene: KADY_48 Start: 31884, Stop: 30070, Start Num: 191

Candidate Starts for KADY_48:

(Start: 191 @31884 has 828 MA's), (206, 31845), (209, 31833), (271, 31680), (276, 31665), (307, 31608), (326, 31551), (328, 31542), (340, 31500), (355, 31449), (372, 31398), (405, 31344), (420, 31305), (446, 31257), (458, 31233), (476, 31194), (484, 31167), (494, 31137), (528, 31044), (534, 31032), (558, 30984), (565, 30969), (611, 30813), (625, 30762), (636, 30729), (637, 30726), (656, 30660), (666, 30621), (685, 30549), (698, 30510), (704, 30486), (712, 30468), (726, 30435), (760, 30354), (775, 30294), (798, 30207), (812, 30159), (816, 30147), (820, 30138), (821, 30135),

Gene: KBG_46 Start: 35895, Stop: 34069, Start Num: 191

Candidate Starts for KBG_46:

(Start: 191 @35895 has 828 MA's), (274, 35682), (283, 35667), (307, 35619), (314, 35589), (318, 35577), (322, 35568), (326, 35562), (328, 35553), (365, 35436), (372, 35409), (420, 35316), (428, 35301), (446, 35268), (470, 35217), (472, 35214), (494, 35148), (508, 35118), (518, 35088), (534, 35043), (556, 35004), (611, 34824), (618, 34794), (623, 34776), (625, 34773), (637, 34737), (656,

34671), (683, 34590), (685, 34587), (712, 34506), (770, 34356), (771, 34353), (778, 34317), (785, 34293), (788, 34284), (792, 34272), (798, 34245), (812, 34197), (820, 34176),

Gene: KFPoly_44 Start: 31564, Stop: 29738, Start Num: 191

Candidate Starts for KFPoly_44:

(Start: 191 @31564 has 828 MA's), (201, 31543), (209, 31513), (221, 31483), (291, 31321), (300, 31303), (326, 31231), (328, 31222), (366, 31102), (372, 31078), (420, 30985), (448, 30937), (458, 30916), (476, 30877), (523, 30745), (532, 30724), (556, 30679), (559, 30667), (609, 30514), (611, 30493), (646, 30370), (656, 30340), (666, 30301), (683, 30235), (685, 30232), (691, 30217), (698, 30193), (704, 30169), (775, 29962), (812, 29827), (816, 29815), (820, 29806),

Gene: KLucky39_59 Start: 53611, Stop: 51752, Start Num: 149

Candidate Starts for KLucky39_59:

(Start: 133 @53635 has 1 MA's), (Start: 149 @53611 has 248 MA's), (Start: 174 @53587 has 5 MA's), (Start: 186 @53581 has 3 MA's), (205, 53539), (212, 53518), (254, 53404), (256, 53398), (269, 53368), (296, 53308), (306, 53287), (323, 53233), (327, 53221), (332, 53203), (335, 53191), (372, 53086), (389, 53029), (400, 52993), (402, 52981), (411, 52954), (421, 52927), (432, 52909), (442, 52891), (465, 52852), (469, 52843), (471, 52840), (576, 52582), (607, 52480), (612, 52447), (617, 52426), (647, 52333), (651, 52324), (668, 52261), (683, 52225), (685, 52222), (691, 52207), (717, 52129), (722, 52117), (730, 52096), (748, 52057), (775, 51967), (779, 51949), (781, 51943), (785, 51928), (793, 51904), (795, 51889), (796, 51886), (799, 51874), (809, 51850), (830, 51802), (840, 51778),

Gene: KSSJEB_43 Start: 34167, Stop: 32338, Start Num: 191

Candidate Starts for KSSJEB_43:

(Start: 191 @34167 has 828 MA's), (274, 33954), (283, 33939), (307, 33891), (314, 33861), (322, 33840), (326, 33834), (328, 33825), (365, 33708), (372, 33681), (420, 33588), (428, 33573), (446, 33540), (470, 33489), (472, 33486), (494, 33420), (518, 33360), (534, 33315), (556, 33276), (611, 33096), (623, 33048), (639, 33000), (651, 32961), (656, 32943), (666, 32904), (676, 32883), (683, 32862), (690, 32847), (733, 32724), (789, 32553), (794, 32529), (808, 32481), (812, 32469), (820, 32448), (823, 32442), (842, 32394), (849, 32379),

Gene: Kahve_60 Start: 54557, Stop: 52698, Start Num: 149

Candidate Starts for Kahve_60:

(Start: 133 @54581 has 1 MA's), (Start: 149 @54557 has 248 MA's), (Start: 174 @54533 has 5 MA's), (Start: 186 @54527 has 3 MA's), (205, 54485), (212, 54464), (254, 54350), (256, 54344), (269, 54314), (296, 54254), (306, 54233), (323, 54179), (327, 54167), (332, 54149), (335, 54137), (372, 54032), (389, 53975), (400, 53939), (402, 53927), (411, 53900), (421, 53873), (432, 53855), (442, 53837), (465, 53798), (469, 53789), (471, 53786), (576, 53528), (607, 53426), (612, 53393), (617, 53372), (647, 53279), (651, 53270), (668, 53207), (683, 53171), (685, 53168), (691, 53153), (717, 53075), (722, 53063), (730, 53042), (748, 53003), (775, 52913), (779, 52895), (781, 52889), (785, 52874), (793, 52850), (795, 52835), (796, 52832), (799, 52820), (809, 52796), (816, 52775), (830, 52748), (840, 52724),

Gene: Kailash_61 Start: 54637, Stop: 52778, Start Num: 149

Candidate Starts for Kailash_61:

(Start: 133 @54661 has 1 MA's), (Start: 149 @54637 has 248 MA's), (Start: 174 @54613 has 5 MA's), (Start: 186 @54607 has 3 MA's), (205, 54565), (212, 54544), (254, 54430), (256, 54424), (269, 54394), (296, 54334), (306, 54313), (323, 54259), (327, 54247), (332, 54229), (335, 54217), (372, 54112), (389, 54055), (400, 54019), (402, 54007), (410, 53983), (414, 53971), (421, 53953), (432, 53935), (442, 53917), (465, 53878), (469, 53869), (471, 53866), (473, 53863), (607, 53506), (612, 53473), (617, 53452), (647, 53359), (651, 53350), (668, 53287), (683, 53251), (685, 53248), (691, 53233), (717, 53155), (722, 53143), (730, 53122), (748, 53083), (775, 52993), (779, 52975), (781,

52969), (785, 52954), (793, 52930), (795, 52915), (796, 52912), (799, 52900), (809, 52876), (830, 52828), (840, 52804),

Gene: Kalb97_49 Start: 31752, Stop: 29938, Start Num: 191

Candidate Starts for Kalb97_49:

(Start: 191 @31752 has 828 MA's), (206, 31713), (209, 31701), (271, 31548), (276, 31533), (307, 31476), (326, 31419), (328, 31410), (340, 31368), (355, 31317), (372, 31266), (420, 31173), (446, 31125), (458, 31101), (476, 31062), (484, 31035), (494, 31005), (528, 30912), (534, 30900), (558, 30852), (565, 30837), (611, 30681), (625, 30630), (636, 30597), (637, 30594), (656, 30528), (666, 30489), (685, 30417), (698, 30378), (704, 30354), (712, 30336), (726, 30303), (760, 30222), (775, 30162), (779, 30144), (795, 30084), (798, 30075), (812, 30027), (816, 30015), (820, 30006),

Gene: Kaleb_57 Start: 52637, Stop: 50808, Start Num: 147

Candidate Starts for Kaleb_57:

(Start: 147 @52637 has 31 MA's), (Start: 186 @52610 has 3 MA's), (202, 52580), (205, 52568), (215, 52541), (216, 52538), (221, 52529), (235, 52511), (272, 52415), (296, 52364), (307, 52340), (358, 52178), (368, 52154), (372, 52142), (389, 52085), (400, 52049), (402, 52037), (410, 52013), (456, 51929), (469, 51899), (471, 51896), (483, 51866), (542, 51722), (565, 51656), (589, 51605), (595, 51584), (601, 51566), (612, 51509), (639, 51425), (647, 51395), (651, 51386), (668, 51320), (679, 51293), (683, 51284), (688, 51275), (691, 51266), (698, 51242), (717, 51188), (722, 51176), (730, 51155), (760, 51086), (775, 51026), (779, 51008), (789, 50975), (793, 50963), (795, 50948), (796, 50945), (799, 50933), (809, 50909), (810, 50906), (830, 50858), (832, 50855), (840, 50834), (847, 50813),

Gene: Kalnoky_49 Start: 31750, Stop: 29936, Start Num: 191

Candidate Starts for Kalnoky_49:

(Start: 191 @31750 has 828 MA's), (206, 31711), (209, 31699), (271, 31546), (276, 31531), (307, 31474), (326, 31417), (328, 31408), (340, 31366), (355, 31315), (372, 31264), (420, 31171), (446, 31123), (458, 31099), (476, 31060), (484, 31033), (494, 31003), (528, 30910), (534, 30898), (558, 30850), (565, 30835), (611, 30679), (625, 30628), (636, 30595), (637, 30592), (656, 30526), (666, 30487), (685, 30415), (698, 30376), (704, 30352), (712, 30334), (726, 30301), (760, 30220), (775, 30160), (779, 30142), (795, 30082), (798, 30073), (812, 30025), (816, 30013), (820, 30004),

Gene: Kalpine_44 Start: 31973, Stop: 30186, Start Num: 191

Candidate Starts for Kalpine_44:

(Start: 191 @31973 has 828 MA's), (272, 31766), (274, 31760), (291, 31730), (306, 31700), (308, 31694), (314, 31667), (326, 31640), (331, 31619), (340, 31589), (372, 31487), (420, 31394), (446, 31346), (451, 31337), (458, 31322), (484, 31256), (515, 31175), (532, 31127), (595, 30971), (611, 30902), (625, 30851), (636, 30818), (637, 30815), (656, 30749), (666, 30710), (676, 30689), (701, 30614), (704, 30602), (706, 30596), (754, 30488), (770, 30434), (775, 30410), (791, 30353), (795, 30332), (812, 30275), (816, 30263),

Gene: Kamiyu_58 Start: 53644, Stop: 51827, Start Num: 183

Candidate Starts for Kamiyu_58:

(80, 53827), (Start: 183 @53644 has 42 MA's), (201, 53614), (274, 53434), (331, 53281), (334, 53269), (343, 53239), (349, 53233), (372, 53170), (375, 53164), (389, 53113), (400, 53077), (414, 53029), (471, 52924), (510, 52828), (533, 52777), (589, 52633), (601, 52594), (608, 52564), (612, 52537), (616, 52525), (645, 52429), (647, 52423), (651, 52414), (655, 52402), (674, 52330), (683, 52300), (691, 52282), (694, 52273), (717, 52204), (722, 52192), (730, 52171), (760, 52102), (765, 52087), (771, 52063), (775, 52042), (781, 52018), (793, 51979), (796, 51961), (799, 51949), (805, 51937), (809, 51925), (826, 51883), (840, 51853),

Gene: Kampy_45 Start: 31572, Stop: 29746, Start Num: 191

Candidate Starts for Kampy_45:

(Start: 191 @31572 has 828 MA's), (201, 31551), (209, 31521), (221, 31491), (291, 31329), (300, 31311), (326, 31239), (328, 31230), (366, 31110), (372, 31086), (420, 30993), (448, 30945), (458, 30924), (476, 30885), (523, 30753), (532, 30732), (556, 30687), (559, 30675), (609, 30522), (611, 30501), (646, 30378), (656, 30348), (666, 30309), (683, 30243), (685, 30240), (691, 30225), (698, 30201), (704, 30177), (775, 29970), (812, 29835), (816, 29823), (820, 29814),

Gene: Kanely_45 Start: 34951, Stop: 33125, Start Num: 191

Candidate Starts for Kanely_45:

(Start: 191 @34951 has 828 MA's), (274, 34738), (307, 34675), (314, 34645), (322, 34624), (326, 34618), (328, 34609), (365, 34492), (372, 34465), (420, 34372), (428, 34357), (470, 34273), (472, 34270), (494, 34204), (508, 34174), (518, 34144), (534, 34099), (556, 34060), (611, 33880), (623, 33832), (637, 33793), (656, 33727), (666, 33688), (676, 33667), (683, 33646), (691, 33628), (712, 33562), (770, 33412), (771, 33409), (778, 33373), (785, 33349), (788, 33340), (792, 33328), (812, 33253), (820, 33232),

Gene: Katalie136_44 Start: 31522, Stop: 29693, Start Num: 191

Candidate Starts for Katalie136_44:

(Start: 191 @31522 has 828 MA's), (209, 31471), (221, 31441), (291, 31279), (300, 31261), (307, 31246), (326, 31189), (328, 31180), (366, 31060), (372, 31036), (401, 30994), (420, 30943), (448, 30895), (458, 30874), (476, 30835), (490, 30790), (492, 30784), (523, 30703), (532, 30682), (556, 30637), (609, 30472), (611, 30451), (656, 30298), (666, 30259), (685, 30187), (691, 30172), (698, 30148), (702, 30130), (704, 30124), (706, 30118), (775, 29917), (812, 29782), (816, 29770), (820, 29761),

Gene: KatherineG_48 Start: 30182, Stop: 28392, Start Num: 191

Candidate Starts for KatherineG_48:

(Start: 191 @30182 has 828 MA's), (262, 30008), (307, 29903), (308, 29900), (314, 29873), (326, 29846), (340, 29795), (372, 29693), (420, 29600), (444, 29555), (446, 29552), (451, 29543), (515, 29381), (523, 29354), (532, 29333), (534, 29327), (583, 29228), (592, 29189), (607, 29138), (611, 29108), (625, 29057), (636, 29024), (644, 28991), (646, 28985), (656, 28955), (676, 28895), (683, 28874), (698, 28832), (705, 28805), (712, 28790), (750, 28703), (770, 28640), (771, 28637), (812, 28481), (816, 28469), (821, 28457),

Gene: Katniss_61 Start: 53995, Stop: 52136, Start Num: 149

Candidate Starts for Katniss_61:

(Start: 133 @54019 has 1 MA's), (Start: 149 @53995 has 248 MA's), (Start: 174 @53971 has 5 MA's), (Start: 186 @53965 has 3 MA's), (205, 53923), (212, 53902), (254, 53788), (256, 53782), (269, 53752), (296, 53692), (306, 53671), (323, 53617), (327, 53605), (332, 53587), (335, 53575), (372, 53470), (389, 53413), (400, 53377), (402, 53365), (411, 53338), (421, 53311), (432, 53293), (442, 53275), (465, 53236), (469, 53227), (471, 53224), (473, 53221), (576, 52966), (607, 52864), (612, 52831), (617, 52810), (647, 52717), (651, 52708), (668, 52645), (683, 52609), (685, 52606), (691, 52591), (717, 52513), (722, 52501), (730, 52480), (748, 52441), (775, 52351), (779, 52333), (781, 52327), (785, 52312), (793, 52288), (795, 52273), (796, 52270), (799, 52258), (809, 52234), (830, 52186), (840, 52162),

Gene: Katzastrophic_41 Start: 29917, Stop: 31788, Start Num: 182

Candidate Starts for Katzastrophic_41:

(Start: 182 @29917 has 49 MA's), (216, 29986), (261, 30091), (264, 30100), (328, 30253), (361, 30349), (365, 30358), (476, 30589), (481, 30604), (515, 30697), (556, 30787), (611, 31003), (625, 31054), (632, 31069), (644, 31120), (656, 31156), (680, 31249), (704, 31321), (747, 31420), (770, 31492), (775, 31516), (791, 31573), (804, 31627), (812, 31651), (820, 31672),

Gene: KayaCho_51 Start: 52386, Stop: 50545, Start Num: 144

Candidate Starts for KayaCho_51:

(80, 52506), (Start: 144 @52386 has 3 MA's), (201, 52329), (205, 52314), (272, 52140), (291, 52098), (296, 52089), (297, 52086), (307, 52065), (323, 52014), (325, 52008), (331, 51990), (341, 51957), (343, 51948), (347, 51945), (349, 51942), (358, 51915), (389, 51822), (400, 51786), (402, 51774), (469, 51636), (471, 51633), (504, 51543), (560, 51402), (586, 51348), (590, 51333), (595, 51315), (601, 51297), (607, 51273), (612, 51240), (645, 51132), (647, 51126), (651, 51117), (668, 51054), (673, 51039), (679, 51027), (683, 51018), (691, 51000), (696, 50985), (717, 50922), (722, 50910), (730, 50889), (732, 50883), (748, 50850), (760, 50820), (765, 50805), (775, 50760), (779, 50742), (781, 50736), (793, 50697), (794, 50685), (795, 50682), (796, 50679), (799, 50667), (809, 50643), (840, 50571),

Gene: Kaylissa_42 Start: 30090, Stop: 31955, Start Num: 191

Candidate Starts for Kaylissa_42:

(Start: 191 @30090 has 828 MA's), (208, 30138), (245, 30228), (247, 30234), (314, 30387), (331, 30435), (343, 30477), (423, 30684), (428, 30693), (472, 30783), (476, 30792), (481, 30807), (496, 30852), (515, 30897), (532, 30945), (559, 31002), (583, 31083), (606, 31170), (611, 31203), (618, 31233), (637, 31290), (656, 31356), (663, 31380), (680, 31449), (704, 31521), (752, 31629), (770, 31692), (775, 31716), (804, 31827), (812, 31851), (815, 31860),

Gene: Kazan_46 Start: 29633, Stop: 27792, Start Num: 191

Candidate Starts for Kazan_46:

(Start: 191 @29633 has 828 MA's), (271, 29429), (307, 29354), (308, 29351), (314, 29324), (319, 29309), (326, 29297), (340, 29246), (368, 29156), (372, 29144), (420, 29051), (441, 29012), (451, 28994), (458, 28979), (484, 28913), (496, 28880), (498, 28877), (535, 28775), (565, 28715), (592, 28631), (611, 28550), (636, 28466), (637, 28463), (639, 28454), (646, 28427), (656, 28397), (676, 28337), (691, 28298), (770, 28082), (771, 28079), (775, 28058), (812, 27923), (816, 27911), (820, 27902), (821, 27899), (859, 27806),

Gene: KeAlii_40 Start: 29667, Stop: 31577, Start Num: 191

Candidate Starts for KeAlii_40:

(59, 29409), (127, 29580), (Start: 191 @29667 has 828 MA's), (208, 29715), (290, 29898), (314, 29964), (343, 30054), (394, 30213), (423, 30306), (428, 30315), (476, 30414), (481, 30429), (496, 30474), (515, 30519), (532, 30567), (583, 30705), (596, 30759), (611, 30825), (631, 30888), (654, 30969), (656, 30978), (680, 31071), (752, 31251), (775, 31338), (812, 31473), (815, 31482), (820, 31494),

Gene: Keitherie_62 Start: 54618, Stop: 52759, Start Num: 149

Candidate Starts for Keitherie_62:

(Start: 133 @54642 has 1 MA's), (Start: 149 @54618 has 248 MA's), (Start: 174 @54594 has 5 MA's), (Start: 186 @54588 has 3 MA's), (205, 54546), (212, 54525), (254, 54411), (256, 54405), (269, 54375), (296, 54315), (306, 54294), (323, 54240), (327, 54228), (332, 54210), (335, 54198), (372, 54093), (389, 54036), (400, 54000), (402, 53988), (410, 53964), (414, 53952), (421, 53934), (432, 53916), (442, 53898), (465, 53859), (469, 53850), (471, 53847), (473, 53844), (607, 53487), (612, 53454), (617, 53433), (647, 53340), (651, 53331), (668, 53268), (683, 53232), (685, 53229), (691, 53214), (717, 53136), (722, 53124), (730, 53103), (748, 53064), (775, 52974), (779, 52956), (781, 52950), (785, 52935), (793, 52911), (795, 52896), (796, 52893), (799, 52881), (809, 52857), (830, 52809), (840, 52785),

Gene: Kela_63 Start: 43965, Stop: 41998, Start Num: 92

Candidate Starts for Kela_63:

(Start: 92 @43965 has 10 MA's), (Start: 132 @43887 has 1 MA's), (143, 43869), (Start: 145 @43866 has 1 MA's), (197, 43797), (235, 43695), (250, 43647), (275, 43569), (299, 43521), (331, 43416), (342,

43377), (345, 43365), (351, 43338), (366, 43302), (387, 43230), (399, 43185), (443, 43074), (480, 43002), (487, 42975), (524, 42864), (535, 42837), (547, 42804), (557, 42774), (585, 42714), (598, 42669), (613, 42603), (619, 42573), (627, 42552), (634, 42546), (701, 42384), (707, 42366), (709, 42363), (769, 42243), (781, 42195), (784, 42183), (788, 42174), (792, 42162), (795, 42144), (798, 42135), (801, 42120), (810, 42096),

Gene: Kenmech_48 Start: 35912, Stop: 34083, Start Num: 191

Candidate Starts for Kenmech_48:

(Start: 191 @35912 has 828 MA's), (274, 35699), (307, 35636), (314, 35606), (322, 35585), (326, 35579), (328, 35570), (365, 35453), (372, 35426), (420, 35333), (428, 35318), (470, 35234), (472, 35231), (494, 35165), (508, 35135), (518, 35105), (534, 35060), (556, 35021), (611, 34841), (623, 34793), (639, 34745), (651, 34706), (656, 34688), (666, 34649), (676, 34628), (683, 34607), (690, 34592), (733, 34469), (789, 34298), (794, 34274), (808, 34226), (812, 34214), (820, 34193), (823, 34187), (842, 34139), (849, 34124),

Gene: Kenzers_43 Start: 29644, Stop: 31518, Start Num: 182

Candidate Starts for Kenzers_43:

(Start: 179 @29641 has 7 MA's), (Start: 182 @29644 has 49 MA's), (216, 29713), (224, 29734), (271, 29851), (307, 29914), (328, 29980), (340, 30022), (476, 30316), (564, 30550), (598, 30673), (611, 30733), (614, 30739), (625, 30784), (635, 30814), (644, 30850), (656, 30886), (680, 30979), (713, 31072), (747, 31150), (770, 31222), (778, 31261), (791, 31303), (794, 31321), (812, 31381), (820, 31402),

Gene: Kerberos_47 Start: 31153, Stop: 29330, Start Num: 191

Candidate Starts for Kerberos_47:

(Start: 191 @31153 has 828 MA's), (271, 30949), (283, 30925), (291, 30907), (300, 30889), (307, 30874), (308, 30871), (314, 30844), (326, 30817), (340, 30766), (372, 30664), (420, 30571), (446, 30523), (451, 30514), (457, 30502), (458, 30499), (484, 30433), (508, 30373), (556, 30259), (565, 30235), (581, 30196), (611, 30070), (625, 30019), (637, 29983), (656, 29917), (666, 29878), (685, 29809), (698, 29770), (713, 29725), (726, 29695), (754, 29632), (758, 29620), (760, 29614), (775, 29554), (812, 29419), (816, 29407), (820, 29398),

Gene: Keziacharles14_44 Start: 32157, Stop: 30364, Start Num: 190

Candidate Starts for Keziacharles14_44:

(123, 32262), (Start: 190 @32157 has 8 MA's), (196, 32148), (245, 32019), (261, 31986), (271, 31953), (291, 31911), (307, 31878), (308, 31875), (319, 31833), (326, 31821), (340, 31770), (372, 31668), (373, 31665), (420, 31575), (439, 31539), (494, 31407), (559, 31248), (579, 31209), (582, 31203), (611, 31080), (639, 30984), (644, 30963), (656, 30927), (683, 30846), (726, 30729), (733, 30708), (754, 30666), (770, 30612), (795, 30510), (812, 30453), (816, 30441), (820, 30432),

Gene: Kheth_57 Start: 52520, Stop: 50691, Start Num: 147

Candidate Starts for Kheth_57:

(Start: 147 @52520 has 31 MA's), (Start: 186 @52493 has 3 MA's), (202, 52463), (205, 52451), (215, 52424), (216, 52421), (221, 52412), (235, 52394), (272, 52298), (296, 52247), (307, 52223), (312, 52199), (358, 52061), (368, 52037), (372, 52025), (389, 51968), (400, 51932), (402, 51920), (410, 51896), (456, 51812), (469, 51782), (471, 51779), (483, 51749), (542, 51605), (565, 51539), (586, 51500), (589, 51488), (595, 51467), (601, 51449), (612, 51392), (639, 51308), (647, 51278), (651, 51269), (668, 51203), (679, 51176), (683, 51167), (691, 51149), (698, 51125), (717, 51071), (722, 51059), (730, 51038), (760, 50969), (775, 50909), (779, 50891), (789, 50858), (793, 50846), (795, 50831), (796, 50828), (799, 50816), (809, 50792), (810, 50789), (830, 50741), (832, 50738), (840, 50717), (847, 50696),

Gene: Kieran_40 Start: 29929, Stop: 31800, Start Num: 182

Candidate Starts for Kieran_40:

(Start: 182 @29929 has 49 MA's), (264, 30112), (283, 30151), (293, 30169), (328, 30265), (331, 30277), (332, 30280), (361, 30361), (455, 30553), (476, 30601), (509, 30691), (564, 30832), (598, 30955), (611, 31015), (632, 31081), (635, 31096), (644, 31132), (647, 31141), (656, 31168), (680, 31261), (747, 31432), (770, 31504), (778, 31543), (791, 31585), (804, 31639), (812, 31663), (820, 31684), (831, 31708),

Gene: Kikipoo_62 Start: 54547, Stop: 52688, Start Num: 149

Candidate Starts for Kikipoo_62:

(Start: 133 @54571 has 1 MA's), (Start: 149 @54547 has 248 MA's), (Start: 174 @54523 has 5 MA's), (Start: 186 @54517 has 3 MA's), (205, 54475), (212, 54454), (254, 54340), (256, 54334), (269, 54304), (296, 54244), (306, 54223), (323, 54169), (327, 54157), (332, 54139), (335, 54127), (372, 54022), (389, 53965), (400, 53929), (402, 53917), (405, 53908), (411, 53890), (421, 53863), (432, 53845), (442, 53827), (465, 53788), (469, 53779), (471, 53776), (473, 53773), (576, 53518), (607, 53416), (612, 53383), (617, 53362), (647, 53269), (651, 53260), (668, 53197), (683, 53161), (685, 53158), (691, 53143), (717, 53065), (722, 53053), (730, 53032), (748, 52993), (775, 52903), (779, 52885), (781, 52879), (785, 52864), (793, 52840), (795, 52825), (796, 52822), (799, 52810), (809, 52786), (830, 52738), (840, 52714),

Gene: Killigrew_44 Start: 34598, Stop: 32769, Start Num: 191

Candidate Starts for Killigrew_44:

(Start: 191 @34598 has 828 MA's), (274, 34385), (283, 34370), (307, 34322), (314, 34292), (322, 34271), (326, 34265), (328, 34256), (365, 34139), (372, 34112), (420, 34019), (428, 34004), (470, 33920), (472, 33917), (494, 33851), (508, 33821), (518, 33791), (534, 33746), (556, 33707), (611, 33527), (623, 33479), (639, 33431), (651, 33392), (656, 33374), (666, 33335), (676, 33314), (683, 33293), (690, 33278), (733, 33155), (789, 32984), (794, 32960), (808, 32912), (812, 32900), (820, 32879), (823, 32873), (842, 32825), (849, 32810),

Gene: Kimbrough_61 Start: 54598, Stop: 52739, Start Num: 149

Candidate Starts for Kimbrough_61:

(Start: 133 @54622 has 1 MA's), (Start: 149 @54598 has 248 MA's), (Start: 174 @54574 has 5 MA's), (Start: 186 @54568 has 3 MA's), (205, 54526), (212, 54505), (254, 54391), (256, 54385), (269, 54355), (296, 54295), (306, 54274), (323, 54220), (327, 54208), (332, 54190), (335, 54178), (372, 54073), (389, 54016), (400, 53980), (402, 53968), (410, 53944), (414, 53932), (421, 53914), (432, 53896), (442, 53878), (465, 53839), (469, 53830), (471, 53827), (473, 53824), (607, 53467), (612, 53434), (617, 53413), (647, 53320), (651, 53311), (668, 53248), (683, 53212), (685, 53209), (691, 53194), (717, 53116), (722, 53104), (730, 53083), (748, 53044), (775, 52954), (779, 52936), (781, 52930), (785, 52915), (793, 52891), (795, 52876), (796, 52873), (799, 52861), (809, 52837), (830, 52789), (840, 52765),

Gene: Kimona_43 Start: 29598, Stop: 27742, Start Num: 191

Candidate Starts for Kimona_43:

(Start: 191 @29598 has 828 MA's), (271, 29394), (314, 29292), (322, 29271), (326, 29265), (328, 29256), (368, 29124), (372, 29112), (420, 29016), (476, 28905), (484, 28878), (523, 28773), (532, 28752), (556, 28707), (575, 28638), (592, 28581), (611, 28500), (656, 28347), (666, 28308), (685, 28236), (691, 28221), (698, 28197), (712, 28155), (726, 28122), (812, 27831), (816, 27819), (820, 27810),

Gene: KingCyrus_47 Start: 33203, Stop: 31416, Start Num: 191

Candidate Starts for KingCyrus_47:

(148, 33239), (Start: 191 @33203 has 828 MA's), (272, 32996), (274, 32990), (283, 32975), (291, 32960), (308, 32924), (314, 32897), (326, 32870), (331, 32849), (372, 32717), (420, 32624), (446, 32576), (451, 32567), (458, 32552), (484, 32486), (515, 32405), (532, 32357), (556, 32312), (565,

32288), (611, 32132), (625, 32081), (636, 32048), (637, 32045), (656, 31979), (666, 31940), (676, 31919), (701, 31844), (704, 31832), (726, 31781), (754, 31718), (760, 31700), (770, 31664), (795, 31562), (812, 31505), (816, 31493), (820, 31484),

Gene: KingTut_53 Start: 50762, Stop: 48903, Start Num: 149

Candidate Starts for KingTut_53:

(Start: 133 @50786 has 1 MA's), (Start: 149 @50762 has 248 MA's), (Start: 174 @50738 has 5 MA's), (Start: 186 @50732 has 3 MA's), (205, 50690), (212, 50669), (254, 50555), (256, 50549), (269, 50519), (296, 50459), (306, 50438), (323, 50384), (327, 50372), (332, 50354), (335, 50342), (372, 50237), (389, 50180), (400, 50144), (402, 50132), (411, 50105), (421, 50078), (432, 50060), (442, 50042), (465, 50003), (469, 49994), (471, 49991), (576, 49733), (607, 49631), (612, 49598), (617, 49577), (647, 49484), (651, 49475), (668, 49412), (683, 49376), (685, 49373), (691, 49358), (717, 49280), (722, 49268), (730, 49247), (748, 49208), (775, 49118), (779, 49100), (781, 49094), (785, 49079), (793, 49055), (795, 49040), (796, 49037), (799, 49025), (809, 49001), (830, 48953), (840, 48929),

Gene: KingVeVeVe_59 Start: 53565, Stop: 51706, Start Num: 149

Candidate Starts for KingVeVeVe_59:

(Start: 133 @53589 has 1 MA's), (Start: 149 @53565 has 248 MA's), (Start: 174 @53541 has 5 MA's), (Start: 186 @53535 has 3 MA's), (201, 53508), (205, 53493), (212, 53472), (254, 53358), (256, 53352), (269, 53322), (296, 53262), (306, 53241), (323, 53187), (327, 53175), (332, 53157), (335, 53145), (372, 53040), (389, 52983), (400, 52947), (402, 52935), (411, 52908), (414, 52899), (432, 52863), (465, 52806), (469, 52797), (471, 52794), (473, 52791), (607, 52434), (612, 52401), (617, 52380), (647, 52287), (651, 52278), (668, 52215), (683, 52179), (685, 52176), (691, 52161), (717, 52083), (722, 52071), (730, 52050), (748, 52011), (775, 51921), (779, 51903), (781, 51897), (785, 51882), (793, 51858), (795, 51843), (796, 51840), (799, 51828), (809, 51804), (830, 51756), (840, 51732),

Gene: Kingmustik0402_45 Start: 31559, Stop: 29733, Start Num: 191

Candidate Starts for Kingmustik0402_45:

(Start: 191 @31559 has 828 MA's), (201, 31538), (209, 31508), (221, 31478), (291, 31316), (300, 31298), (326, 31226), (328, 31217), (366, 31097), (372, 31073), (420, 30980), (448, 30932), (458, 30911), (476, 30872), (523, 30740), (532, 30719), (556, 30674), (559, 30662), (609, 30509), (611, 30488), (646, 30365), (656, 30335), (666, 30296), (683, 30230), (685, 30227), (691, 30212), (698, 30188), (704, 30164), (775, 29957), (812, 29822), (816, 29810), (820, 29801),

Gene: Kipper29_45 Start: 29646, Stop: 27805, Start Num: 191

Candidate Starts for Kipper29_45:

(Start: 191 @29646 has 828 MA's), (271, 29442), (307, 29367), (308, 29364), (314, 29337), (319, 29322), (326, 29310), (340, 29259), (368, 29169), (372, 29157), (420, 29064), (441, 29025), (451, 29007), (458, 28992), (484, 28926), (496, 28893), (498, 28890), (535, 28788), (565, 28728), (592, 28644), (611, 28563), (636, 28479), (637, 28476), (639, 28467), (646, 28440), (656, 28410), (676, 28350), (691, 28311), (770, 28095), (771, 28092), (775, 28071), (812, 27936), (816, 27924), (820, 27915), (821, 27912), (859, 27819),

Gene: KittenMittens_41 Start: 30386, Stop: 28554, Start Num: 191

Candidate Starts for KittenMittens_41:

(Start: 191 @30386 has 828 MA's), (209, 30335), (236, 30269), (271, 30182), (274, 30173), (302, 30122), (307, 30110), (326, 30053), (347, 29972), (351, 29960), (355, 29951), (366, 29924), (372, 29900), (420, 29807), (441, 29768), (476, 29699), (484, 29672), (534, 29540), (611, 29312), (632, 29246), (646, 29189), (656, 29159), (666, 29120), (685, 29048), (691, 29033), (698, 29009), (712, 28967), (726, 28934), (775, 28778), (781, 28754), (798, 28691), (812, 28643), (816, 28631), (820, 28622),

Gene: KlimbOn_60 Start: 54056, Stop: 52197, Start Num: 149

Candidate Starts for KlimbOn_60:

(Start: 133 @54080 has 1 MA's), (Start: 149 @54056 has 248 MA's), (Start: 174 @54032 has 5 MA's), (Start: 186 @54026 has 3 MA's), (205, 53984), (212, 53963), (254, 53849), (256, 53843), (269, 53813), (296, 53753), (306, 53732), (323, 53678), (327, 53666), (332, 53648), (335, 53636), (372, 53531), (389, 53474), (400, 53438), (402, 53426), (410, 53402), (414, 53390), (421, 53372), (432, 53354), (442, 53336), (465, 53297), (469, 53288), (471, 53285), (473, 53282), (576, 53027), (607, 52925), (612, 52892), (617, 52871), (647, 52778), (651, 52769), (668, 52706), (683, 52670), (685, 52667), (691, 52652), (717, 52574), (722, 52562), (730, 52541), (748, 52502), (775, 52412), (779, 52394), (781, 52388), (785, 52373), (793, 52349), (795, 52334), (796, 52331), (799, 52319), (809, 52295), (830, 52247), (840, 52223),

Gene: Kloppinator_61 Start: 54207, Stop: 52348, Start Num: 149

Candidate Starts for Kloppinator_61:

(Start: 133 @54231 has 1 MA's), (Start: 149 @54207 has 248 MA's), (Start: 174 @54183 has 5 MA's), (Start: 186 @54177 has 3 MA's), (205, 54135), (212, 54114), (254, 54000), (256, 53994), (269, 53964), (296, 53904), (306, 53883), (323, 53829), (327, 53817), (332, 53799), (334, 53790), (335, 53787), (372, 53682), (389, 53625), (400, 53589), (402, 53577), (410, 53553), (414, 53541), (421, 53523), (432, 53505), (442, 53487), (465, 53448), (469, 53439), (471, 53436), (473, 53433), (607, 53076), (612, 53043), (617, 53022), (647, 52929), (651, 52920), (668, 52857), (683, 52821), (685, 52818), (691, 52803), (717, 52725), (722, 52713), (730, 52692), (748, 52653), (775, 52563), (779, 52545), (781, 52539), (785, 52524), (793, 52500), (795, 52485), (796, 52482), (799, 52470), (809, 52446), (830, 52398), (840, 52374),

Gene: Knocker_59 Start: 55993, Stop: 54140, Start Num: 149

Candidate Starts for Knocker_59:

(Start: 149 @55993 has 248 MA's), (201, 55936), (216, 55891), (221, 55879), (222, 55876), (233, 55855), (272, 55750), (334, 55588), (335, 55585), (341, 55567), (372, 55480), (389, 55423), (393, 55411), (400, 55387), (402, 55375), (414, 55339), (417, 55333), (460, 55252), (469, 55231), (471, 55228), (481, 55204), (483, 55198), (520, 55114), (532, 55084), (555, 55018), (576, 54970), (584, 54949), (590, 54928), (601, 54892), (608, 54862), (612, 54835), (617, 54814), (645, 54727), (647, 54721), (651, 54712), (668, 54649), (683, 54613), (685, 54610), (686, 54607), (691, 54595), (698, 54571), (717, 54517), (722, 54505), (730, 54484), (733, 54475), (760, 54415), (771, 54376), (779, 54337), (781, 54331), (793, 54292), (794, 54280), (795, 54277), (796, 54274), (805, 54250), (809, 54238), (817, 54214), (830, 54190), (832, 54187), (840, 54166), (847, 54145),

Gene: Koduck_44 Start: 30337, Stop: 28550, Start Num: 191

Candidate Starts for Koduck_44:

(Start: 191 @30337 has 828 MA's), (272, 30130), (274, 30124), (283, 30109), (291, 30094), (306, 30064), (307, 30061), (314, 30031), (326, 30004), (331, 29983), (340, 29953), (372, 29851), (420, 29758), (444, 29713), (446, 29710), (451, 29701), (458, 29686), (484, 29620), (496, 29587), (515, 29539), (532, 29491), (611, 29266), (625, 29215), (636, 29182), (637, 29179), (656, 29113), (666, 29074), (676, 29053), (701, 28978), (706, 28960), (726, 28915), (737, 28888), (754, 28852), (760, 28834), (770, 28798), (775, 28774), (791, 28717), (812, 28639), (816, 28627), (820, 28618),

Gene: Koko_47 Start: 30329, Stop: 28530, Start Num: 191

Candidate Starts for Koko_47:

(Start: 191 @30329 has 828 MA's), (271, 30125), (274, 30116), (307, 30050), (308, 30047), (314, 30020), (319, 30005), (326, 29993), (340, 29942), (368, 29852), (372, 29840), (420, 29747), (446, 29699), (451, 29690), (521, 29507), (586, 29357), (611, 29252), (625, 29195), (637, 29159), (639, 29150), (646, 29123), (656, 29093), (666, 29054), (676, 29033), (689, 29000), (691, 28994), (726, 28895), (754, 28832), (770, 28778), (775, 28754), (791, 28697), (812, 28619), (816, 28607), (820,

28598), (821, 28595),

Gene: Koreni_44 Start: 31251, Stop: 29425, Start Num: 191

Candidate Starts for Koreni_44:

(Start: 191 @31251 has 828 MA's), (201, 31230), (209, 31200), (221, 31170), (291, 31008), (300, 30990), (326, 30918), (328, 30909), (366, 30789), (372, 30765), (420, 30672), (448, 30624), (458, 30603), (476, 30564), (523, 30432), (532, 30411), (556, 30366), (559, 30354), (609, 30201), (611, 30180), (646, 30057), (656, 30027), (666, 29988), (683, 29922), (685, 29919), (691, 29904), (698, 29880), (704, 29856), (775, 29649), (812, 29514), (816, 29502), (820, 29493),

Gene: Kradal_67 Start: 46750, Stop: 44786, Start Num: 92

Candidate Starts for Kradal_67:

(Start: 92 @46750 has 10 MA's), (143, 46654), (209, 46546), (214, 46534), (235, 46480), (262, 46396), (314, 46261), (342, 46162), (345, 46150), (351, 46123), (358, 46108), (399, 45970), (430, 45883), (480, 45787), (516, 45679), (517, 45676), (525, 45649), (536, 45622), (547, 45592), (557, 45562), (598, 45457), (622, 45349), (627, 45340), (634, 45334), (697, 45190), (701, 45172), (707, 45154), (748, 45100), (781, 44983), (784, 44971), (788, 44962), (792, 44950), (795, 44932), (801, 44908), (810, 44884), (818, 44866),

Gene: Kratak_45 Start: 31709, Stop: 29883, Start Num: 191

Candidate Starts for Kratak_45:

(Start: 191 @31709 has 828 MA's), (201, 31688), (209, 31658), (221, 31628), (291, 31466), (300, 31448), (326, 31376), (328, 31367), (366, 31247), (372, 31223), (420, 31130), (448, 31082), (476, 31022), (523, 30890), (532, 30869), (556, 30824), (559, 30812), (609, 30659), (611, 30638), (646, 30515), (656, 30485), (666, 30446), (683, 30380), (685, 30377), (691, 30362), (698, 30338), (704, 30314), (775, 30107), (812, 29972), (816, 29960), (820, 29951),

Gene: Kremtemulon_43 Start: 31521, Stop: 29695, Start Num: 191

Candidate Starts for Kremtemulon_43:

(Start: 191 @31521 has 828 MA's), (208, 31473), (271, 31317), (307, 31245), (326, 31188), (328, 31179), (366, 31059), (372, 31035), (405, 30981), (420, 30942), (448, 30894), (458, 30873), (476, 30834), (523, 30702), (526, 30693), (532, 30681), (556, 30636), (559, 30624), (609, 30471), (611, 30450), (646, 30327), (656, 30297), (666, 30258), (683, 30192), (685, 30189), (691, 30174), (698, 30150), (704, 30126), (775, 29919), (812, 29784), (816, 29772), (820, 29763),

Gene: Krishelle_36 Start: 28397, Stop: 26613, Start Num: 191

Candidate Starts for Krishelle_36:

(Start: 191 @28397 has 828 MA's), (261, 28226), (288, 28163), (306, 28124), (307, 28121), (319, 28076), (326, 28064), (328, 28055), (339, 28016), (372, 27911), (420, 27818), (446, 27770), (476, 27707), (484, 27680), (523, 27575), (534, 27548), (556, 27509), (611, 27329), (623, 27281), (656, 27176), (657, 27173), (676, 27116), (683, 27095), (700, 27047), (727, 26972), (758, 26903), (770, 26861), (771, 26858), (775, 26837), (778, 26822), (795, 26759), (812, 26702), (816, 26690), (834, 26651), (839, 26633),

Gene: Kristoff_44 Start: 31492, Stop: 29657, Start Num: 191

Candidate Starts for Kristoff_44:

(Start: 191 @31492 has 828 MA's), (209, 31441), (236, 31375), (271, 31288), (283, 31264), (302, 31228), (307, 31216), (326, 31159), (328, 31150), (372, 31006), (401, 30964), (420, 30913), (448, 30865), (476, 30805), (522, 30676), (523, 30673), (532, 30652), (534, 30646), (582, 30538), (611, 30415), (623, 30367), (646, 30292), (656, 30262), (666, 30223), (683, 30154), (685, 30151), (698, 30112), (704, 30088), (706, 30082), (712, 30070), (775, 29881), (781, 29857), (798, 29794), (812, 29746), (816, 29734), (820, 29725),

Gene: Kronus_58 Start: 54729, Stop: 52912, Start Num: 183

Candidate Starts for Kronus_58:

(80, 54912), (Start: 183 @54729 has 42 MA's), (201, 54699), (274, 54519), (316, 54414), (331, 54366), (334, 54354), (343, 54324), (349, 54318), (372, 54255), (375, 54249), (389, 54198), (400, 54162), (414, 54114), (471, 54009), (510, 53913), (533, 53862), (589, 53718), (601, 53679), (608, 53649), (612, 53622), (616, 53610), (645, 53514), (647, 53508), (651, 53499), (655, 53487), (674, 53415), (683, 53385), (691, 53367), (694, 53358), (717, 53289), (722, 53277), (730, 53256), (760, 53187), (765, 53172), (771, 53148), (775, 53127), (779, 53109), (781, 53103), (791, 53070), (793, 53064), (796, 53046), (799, 53034), (805, 53022), (809, 53010), (826, 52968), (840, 52938),

Gene: Kugel_46 Start: 35094, Stop: 33268, Start Num: 191

Candidate Starts for Kugel_46:

(Start: 191 @35094 has 828 MA's), (274, 34881), (283, 34866), (307, 34818), (314, 34788), (322, 34767), (326, 34761), (328, 34752), (365, 34635), (372, 34608), (420, 34515), (428, 34500), (446, 34467), (470, 34416), (472, 34413), (494, 34347), (518, 34287), (534, 34242), (556, 34203), (611, 34023), (623, 33975), (637, 33936), (656, 33870), (666, 33831), (676, 33810), (683, 33789), (691, 33771), (712, 33705), (770, 33555), (771, 33552), (778, 33516), (785, 33492), (788, 33483), (792, 33471), (812, 33396), (820, 33375),

Gene: Kwadwo_59 Start: 54008, Stop: 52149, Start Num: 149

Candidate Starts for Kwadwo_59:

(Start: 133 @54032 has 1 MA's), (Start: 149 @54008 has 248 MA's), (Start: 174 @53984 has 5 MA's), (Start: 186 @53978 has 3 MA's), (205, 53936), (212, 53915), (254, 53801), (256, 53795), (269, 53765), (296, 53705), (306, 53684), (323, 53630), (327, 53618), (332, 53600), (335, 53588), (372, 53483), (389, 53426), (400, 53390), (402, 53378), (411, 53351), (432, 53306), (465, 53249), (469, 53240), (471, 53237), (576, 52979), (607, 52877), (612, 52844), (617, 52823), (647, 52730), (651, 52721), (668, 52658), (683, 52622), (685, 52619), (691, 52604), (717, 52526), (722, 52514), (730, 52493), (748, 52454), (775, 52364), (779, 52346), (781, 52340), (785, 52325), (793, 52301), (795, 52286), (796, 52283), (799, 52271), (809, 52247), (830, 52199), (840, 52175),

Gene: Kwksand96_61 Start: 54137, Stop: 52278, Start Num: 149

Candidate Starts for Kwksand96_61:

(Start: 133 @54161 has 1 MA's), (Start: 149 @54137 has 248 MA's), (Start: 174 @54113 has 5 MA's), (Start: 186 @54107 has 3 MA's), (205, 54065), (212, 54044), (254, 53930), (256, 53924), (269, 53894), (296, 53834), (306, 53813), (323, 53759), (327, 53747), (332, 53729), (335, 53717), (372, 53612), (389, 53555), (400, 53519), (402, 53507), (411, 53480), (432, 53435), (465, 53378), (469, 53369), (471, 53366), (607, 53006), (612, 52973), (617, 52952), (647, 52859), (651, 52850), (668, 52787), (683, 52751), (685, 52748), (691, 52733), (717, 52655), (722, 52643), (730, 52622), (748, 52583), (775, 52493), (779, 52475), (781, 52469), (785, 52454), (793, 52430), (795, 52415), (796, 52412), (799, 52400), (809, 52376), (830, 52328), (840, 52304), (845, 52289),

Gene: KyMonks1A_47 Start: 34990, Stop: 33164, Start Num: 191

Candidate Starts for KyMonks1A_47:

(Start: 191 @34990 has 828 MA's), (274, 34777), (283, 34762), (314, 34684), (322, 34663), (326, 34657), (328, 34648), (365, 34531), (372, 34504), (420, 34411), (428, 34396), (446, 34363), (470, 34312), (472, 34309), (494, 34243), (508, 34213), (518, 34183), (534, 34138), (556, 34099), (611, 33919), (623, 33871), (637, 33832), (656, 33766), (666, 33727), (676, 33706), (683, 33685), (691, 33667), (712, 33601), (770, 33451), (771, 33448), (778, 33412), (785, 33388), (788, 33379), (792, 33367), (798, 33340), (812, 33292), (820, 33271),

Gene: Kyee_45 Start: 31568, Stop: 29742, Start Num: 191

Candidate Starts for Kyee_45:

(Start: 191 @31568 has 828 MA's), (201, 31547), (209, 31517), (221, 31487), (291, 31325), (300, 31307), (326, 31235), (328, 31226), (366, 31106), (372, 31082), (420, 30989), (448, 30941), (458, 30920), (476, 30881), (523, 30749), (532, 30728), (556, 30683), (559, 30671), (609, 30518), (611, 30497), (646, 30374), (656, 30344), (666, 30305), (683, 30239), (685, 30236), (691, 30221), (698, 30197), (704, 30173), (775, 29966), (812, 29831), (816, 29819), (820, 29810),

Gene: Kykar_45 Start: 34788, Stop: 32959, Start Num: 191

Candidate Starts for Kykar_45:

(Start: 191 @34788 has 828 MA's), (274, 34575), (283, 34560), (314, 34482), (322, 34461), (326, 34455), (328, 34446), (372, 34302), (420, 34209), (428, 34194), (470, 34110), (472, 34107), (494, 34041), (508, 34011), (518, 33981), (534, 33936), (556, 33897), (611, 33717), (623, 33669), (639, 33621), (651, 33582), (656, 33564), (666, 33525), (676, 33504), (683, 33483), (690, 33468), (733, 33345), (789, 33174), (794, 33150), (808, 33102), (812, 33090), (820, 33069), (823, 33063), (842, 33015), (849, 33000),

Gene: L5_44 Start: 30476, Stop: 28689, Start Num: 191

Candidate Starts for L5_44:

(Start: 191 @30476 has 828 MA's), (271, 30272), (272, 30269), (274, 30263), (283, 30248), (291, 30233), (306, 30203), (307, 30200), (314, 30170), (326, 30143), (331, 30122), (340, 30092), (372, 29990), (420, 29897), (444, 29852), (446, 29849), (451, 29840), (458, 29825), (484, 29759), (496, 29726), (515, 29678), (532, 29630), (611, 29405), (625, 29354), (636, 29321), (637, 29318), (656, 29252), (666, 29213), (676, 29192), (701, 29117), (706, 29099), (726, 29054), (737, 29027), (754, 28991), (760, 28973), (770, 28937), (775, 28913), (791, 28856), (812, 28778), (816, 28766), (820, 28757),

Gene: LBerry_49 Start: 31856, Stop: 30042, Start Num: 191

Candidate Starts for LBerry_49:

(Start: 191 @31856 has 828 MA's), (206, 31817), (209, 31805), (271, 31652), (276, 31637), (307, 31580), (326, 31523), (328, 31514), (340, 31472), (355, 31421), (372, 31370), (420, 31277), (446, 31229), (451, 31220), (458, 31205), (476, 31166), (484, 31139), (494, 31109), (528, 31016), (558, 30956), (565, 30941), (611, 30785), (637, 30698), (656, 30632), (666, 30593), (685, 30521), (698, 30482), (704, 30458), (712, 30440), (726, 30407), (737, 30380), (760, 30326), (775, 30266), (795, 30188), (812, 30131), (816, 30119), (820, 30110),

Gene: LHTSCC_47 Start: 31992, Stop: 30166, Start Num: 191

Candidate Starts for LHTSCC_47:

(Start: 191 @31992 has 828 MA's), (208, 31944), (271, 31788), (307, 31716), (326, 31659), (328, 31650), (366, 31530), (372, 31506), (420, 31413), (448, 31365), (458, 31344), (476, 31305), (490, 31260), (523, 31173), (526, 31164), (532, 31152), (556, 31107), (559, 31095), (609, 30942), (611, 30921), (646, 30798), (656, 30768), (666, 30729), (683, 30663), (685, 30660), (698, 30621), (704, 30597), (775, 30390), (812, 30255), (816, 30243), (820, 30234),

Gene: Labeouficaum_61 Start: 54131, Stop: 52272, Start Num: 149

Candidate Starts for Labeouficaum_61:

(Start: 133 @54155 has 1 MA's), (Start: 149 @54131 has 248 MA's), (Start: 174 @54107 has 5 MA's), (Start: 186 @54101 has 3 MA's), (205, 54059), (212, 54038), (254, 53924), (256, 53918), (269, 53888), (296, 53828), (306, 53807), (323, 53753), (327, 53741), (332, 53723), (335, 53711), (372, 53606), (389, 53549), (400, 53513), (402, 53501), (410, 53477), (414, 53465), (421, 53447), (432, 53429), (442, 53411), (465, 53372), (469, 53363), (471, 53360), (473, 53357), (576, 53102), (607, 53000), (612, 52967), (617, 52946), (647, 52853), (651, 52844), (668, 52781), (683, 52745), (685, 52742), (691, 52727), (717, 52649), (722, 52637), (730, 52616), (748, 52577), (775, 52487), (779, 52469), (781, 52463), (785, 52448), (793, 52424), (795, 52409), (796, 52406), (799, 52394), (809, 52370), (816, 52349), (830, 52322), (840, 52298), (845, 52283),

Gene: LadyBird_47 Start: 31737, Stop: 29950, Start Num: 191

Candidate Starts for LadyBird_47:

(Start: 191 @31737 has 828 MA's), (271, 31533), (272, 31530), (274, 31524), (283, 31509), (291, 31494), (307, 31461), (308, 31458), (314, 31431), (326, 31404), (331, 31383), (340, 31353), (372, 31251), (420, 31158), (425, 31149), (446, 31110), (451, 31101), (458, 31086), (484, 31020), (515, 30939), (532, 30891), (534, 30885), (592, 30747), (611, 30666), (625, 30615), (636, 30582), (637, 30579), (656, 30513), (666, 30474), (676, 30453), (701, 30378), (706, 30360), (726, 30315), (737, 30288), (754, 30252), (760, 30234), (770, 30198), (775, 30174), (791, 30117), (812, 30039), (816, 30027), (820, 30018),

Gene: Lahqtemish_42 Start: 29831, Stop: 31705, Start Num: 182

Candidate Starts for Lahqtemish_42:

(Start: 182 @29831 has 49 MA's), (216, 29900), (224, 29921), (307, 30101), (332, 30182), (476, 30503), (564, 30737), (597, 30857), (598, 30860), (611, 30920), (614, 30926), (632, 30986), (635, 31001), (644, 31037), (647, 31046), (656, 31073), (680, 31166), (689, 31184), (698, 31214), (747, 31337), (748, 31340), (770, 31409), (778, 31448), (781, 31457), (791, 31490), (793, 31496), (794, 31508), (804, 31544), (812, 31568), (816, 31580), (820, 31589), (831, 31613),

Gene: Lambert1_44 Start: 31597, Stop: 29759, Start Num: 191

Candidate Starts for Lambert1_44:

(Start: 191 @31597 has 828 MA's), (209, 31546), (271, 31393), (307, 31321), (314, 31291), (326, 31264), (328, 31255), (372, 31111), (420, 31015), (448, 30967), (476, 30907), (509, 30820), (523, 30775), (532, 30754), (566, 30682), (582, 30640), (592, 30598), (611, 30517), (623, 30469), (637, 30430), (646, 30394), (656, 30364), (664, 30334), (685, 30253), (698, 30214), (704, 30190), (712, 30172), (713, 30169), (760, 30043), (775, 29983), (798, 29896), (812, 29848), (816, 29836), (820, 29827),

Gene: Lamina13_45 Start: 34387, Stop: 32561, Start Num: 191

Candidate Starts for Lamina13_45:

(Start: 191 @34387 has 828 MA's), (274, 34174), (283, 34159), (314, 34081), (322, 34060), (326, 34054), (328, 34045), (365, 33928), (372, 33901), (420, 33808), (428, 33793), (470, 33709), (472, 33706), (494, 33640), (508, 33610), (518, 33580), (534, 33535), (556, 33496), (611, 33316), (623, 33268), (637, 33229), (656, 33163), (666, 33124), (676, 33103), (683, 33082), (691, 33064), (712, 32998), (770, 32848), (771, 32845), (778, 32809), (785, 32785), (788, 32776), (792, 32764), (812, 32689), (820, 32668),

Gene: Landor_44 Start: 32538, Stop: 30748, Start Num: 191

Candidate Starts for Landor_44:

(Start: 191 @32538 has 828 MA's), (271, 32334), (274, 32325), (308, 32256), (314, 32229), (326, 32202), (372, 32049), (420, 31956), (446, 31908), (451, 31899), (458, 31884), (484, 31818), (496, 31785), (526, 31701), (565, 31620), (581, 31590), (611, 31464), (618, 31434), (625, 31413), (646, 31341), (656, 31311), (666, 31272), (676, 31251), (683, 31230), (754, 31050), (758, 31038), (770, 30996), (775, 30972), (791, 30915), (795, 30894), (812, 30837), (816, 30825), (820, 30816),

Gene: LappelDuVide_44 Start: 31569, Stop: 29743, Start Num: 191

Candidate Starts for LappelDuVide_44:

(Start: 191 @31569 has 828 MA's), (201, 31548), (209, 31518), (221, 31488), (291, 31326), (300, 31308), (326, 31236), (328, 31227), (366, 31107), (372, 31083), (420, 30990), (448, 30942), (458, 30921), (476, 30882), (523, 30750), (532, 30729), (556, 30684), (559, 30672), (609, 30519), (611, 30498), (646, 30375), (656, 30345), (666, 30306), (683, 30240), (685, 30237), (691, 30222), (698, 30198), (704, 30174), (775, 29967), (812, 29832), (816, 29820), (820, 29811),

Gene: Larenn_44 Start: 31600, Stop: 29807, Start Num: 191

Candidate Starts for Larenn_44:

(Start: 191 @31600 has 828 MA's), (271, 31396), (272, 31393), (274, 31387), (291, 31357), (307, 31324), (308, 31321), (314, 31294), (326, 31267), (340, 31216), (372, 31114), (420, 31021), (446, 30973), (451, 30964), (458, 30949), (484, 30883), (515, 30802), (532, 30754), (534, 30748), (592, 30610), (611, 30529), (625, 30472), (636, 30439), (646, 30400), (656, 30370), (666, 30331), (676, 30310), (683, 30289), (758, 30097), (760, 30091), (770, 30055), (775, 30031), (791, 29974), (795, 29953), (812, 29896), (816, 29884), (820, 29875),

Gene: LarryKay_48 Start: 31886, Stop: 30072, Start Num: 191

Candidate Starts for LarryKay_48:

(Start: 191 @31886 has 828 MA's), (206, 31847), (209, 31835), (271, 31682), (276, 31667), (307, 31610), (326, 31553), (328, 31544), (340, 31502), (355, 31451), (372, 31400), (405, 31346), (420, 31307), (446, 31259), (458, 31235), (476, 31196), (484, 31169), (494, 31139), (528, 31046), (534, 31034), (558, 30986), (565, 30971), (611, 30815), (625, 30764), (636, 30731), (637, 30728), (656, 30662), (666, 30623), (685, 30551), (698, 30512), (704, 30488), (712, 30470), (726, 30437), (760, 30356), (775, 30296), (798, 30209), (812, 30161), (816, 30149), (820, 30140), (821, 30137),

Gene: Lars_57 Start: 52585, Stop: 50756, Start Num: 147

Candidate Starts for Lars_57:

(Start: 147 @52585 has 31 MA's), (Start: 186 @52558 has 3 MA's), (202, 52528), (205, 52516), (215, 52489), (216, 52486), (221, 52477), (235, 52459), (272, 52363), (296, 52312), (307, 52288), (312, 52264), (358, 52126), (368, 52102), (372, 52090), (389, 52033), (400, 51997), (402, 51985), (410, 51961), (453, 51883), (456, 51877), (460, 51868), (469, 51847), (471, 51844), (483, 51814), (542, 51670), (565, 51604), (589, 51553), (595, 51532), (601, 51514), (612, 51457), (639, 51373), (647, 51343), (651, 51334), (668, 51268), (679, 51241), (683, 51232), (691, 51214), (698, 51190), (717, 51136), (722, 51124), (730, 51103), (760, 51034), (775, 50974), (779, 50956), (789, 50923), (793, 50911), (795, 50896), (796, 50893), (799, 50881), (809, 50857), (810, 50854), (830, 50806), (832, 50803), (840, 50782), (847, 50761),

Gene: LasagnaCat_61 Start: 54420, Stop: 52561, Start Num: 149

Candidate Starts for LasagnaCat_61:

(Start: 133 @54444 has 1 MA's), (Start: 149 @54420 has 248 MA's), (Start: 174 @54396 has 5 MA's), (Start: 186 @54390 has 3 MA's), (205, 54348), (212, 54327), (254, 54213), (256, 54207), (269, 54177), (296, 54117), (306, 54096), (323, 54042), (327, 54030), (332, 54012), (335, 54000), (372, 53895), (389, 53838), (400, 53802), (402, 53790), (411, 53763), (421, 53736), (432, 53718), (442, 53700), (465, 53661), (469, 53652), (471, 53649), (473, 53646), (607, 53289), (612, 53256), (617, 53235), (647, 53142), (651, 53133), (668, 53070), (683, 53034), (685, 53031), (691, 53016), (717, 52938), (722, 52926), (730, 52905), (748, 52866), (775, 52776), (779, 52758), (781, 52752), (785, 52737), (793, 52713), (795, 52698), (796, 52695), (799, 52683), (809, 52659), (830, 52611), (840, 52587),

Gene: Lasso_61 Start: 54283, Stop: 52424, Start Num: 149

Candidate Starts for Lasso_61:

(Start: 133 @54307 has 1 MA's), (Start: 149 @54283 has 248 MA's), (Start: 174 @54259 has 5 MA's), (Start: 186 @54253 has 3 MA's), (205, 54211), (212, 54190), (254, 54076), (256, 54070), (269, 54040), (296, 53980), (306, 53959), (323, 53905), (327, 53893), (332, 53875), (335, 53863), (372, 53758), (389, 53701), (400, 53665), (402, 53653), (411, 53626), (432, 53581), (465, 53524), (469, 53515), (471, 53512), (607, 53152), (612, 53119), (617, 53098), (647, 53005), (651, 52996), (668, 52933), (683, 52897), (685, 52894), (691, 52879), (717, 52801), (722, 52789), (730, 52768), (748, 52729), (775, 52639), (779, 52621), (781, 52615), (785, 52600), (793, 52576), (795, 52561), (796, 52558), (799, 52546), (809, 52522), (830, 52474), (840, 52450),

Gene: LastResort_46 Start: 29743, Stop: 27953, Start Num: 191

Candidate Starts for LastResort_46:

(Start: 191 @29743 has 828 MA's), (262, 29569), (307, 29464), (308, 29461), (314, 29434), (326, 29407), (340, 29356), (372, 29254), (420, 29161), (444, 29116), (446, 29113), (451, 29104), (515, 28942), (523, 28915), (532, 28894), (534, 28888), (583, 28789), (592, 28750), (607, 28699), (611, 28669), (625, 28618), (636, 28585), (644, 28552), (646, 28546), (656, 28516), (676, 28456), (683, 28435), (698, 28393), (705, 28366), (712, 28351), (750, 28264), (770, 28201), (771, 28198), (812, 28042), (816, 28030), (821, 28018),

Gene: Laurie_57 Start: 52312, Stop: 50483, Start Num: 147

Candidate Starts for Laurie_57:

(Start: 147 @52312 has 31 MA's), (Start: 186 @52285 has 3 MA's), (202, 52255), (205, 52243), (215, 52216), (216, 52213), (221, 52204), (235, 52186), (272, 52090), (296, 52039), (307, 52015), (358, 51853), (366, 51838), (368, 51829), (372, 51817), (389, 51760), (400, 51724), (402, 51712), (410, 51688), (453, 51610), (456, 51604), (460, 51595), (469, 51574), (471, 51571), (483, 51541), (542, 51397), (565, 51331), (589, 51280), (595, 51259), (601, 51241), (612, 51184), (633, 51127), (639, 51100), (647, 51070), (651, 51061), (668, 50995), (679, 50968), (683, 50959), (691, 50941), (698, 50917), (717, 50863), (722, 50851), (730, 50830), (760, 50761), (775, 50701), (779, 50683), (789, 50650), (793, 50638), (795, 50623), (796, 50620), (799, 50608), (809, 50584), (810, 50581), (830, 50533), (832, 50530), (840, 50509), (847, 50488),

Gene: LeeLot_61 Start: 54638, Stop: 52779, Start Num: 149

Candidate Starts for LeeLot_61:

(Start: 133 @54662 has 1 MA's), (Start: 149 @54638 has 248 MA's), (Start: 174 @54614 has 5 MA's), (Start: 186 @54608 has 3 MA's), (205, 54566), (212, 54545), (254, 54431), (256, 54425), (269, 54395), (296, 54335), (306, 54314), (323, 54260), (327, 54248), (332, 54230), (335, 54218), (372, 54113), (389, 54056), (400, 54020), (402, 54008), (411, 53981), (432, 53936), (465, 53879), (469, 53870), (471, 53867), (607, 53507), (612, 53474), (617, 53453), (647, 53360), (651, 53351), (668, 53288), (683, 53252), (685, 53249), (691, 53234), (717, 53156), (722, 53144), (730, 53123), (748, 53084), (775, 52994), (779, 52976), (781, 52970), (785, 52955), (793, 52931), (795, 52916), (796, 52913), (799, 52901), (809, 52877), (830, 52829), (840, 52805),

Gene: LeeroyJenkins_68 Start: 39223, Stop: 37388, Start Num: 92

Candidate Starts for LeeroyJenkins_68:

(82, 39238), (Start: 92 @39223 has 10 MA's), (97, 39208), (136, 39139), (181, 39079), (198, 39052), (200, 39049), (210, 39016), (215, 39004), (219, 38995), (228, 38986), (302, 38821), (309, 38803), (335, 38752), (337, 38743), (350, 38704), (358, 38683), (371, 38644), (383, 38611), (385, 38599), (388, 38593), (399, 38557), (408, 38524), (421, 38491), (437, 38464), (511, 38317), (536, 38260), (580, 38155), (593, 38107), (606, 38068), (608, 38059), (666, 37864), (681, 37837), (687, 37825), (703, 37813), (724, 37774), (748, 37726), (758, 37702), (778, 37618), (787, 37588), (791, 37570), (793, 37564), (795, 37549), (801, 37525), (806, 37513), (810, 37501), (813, 37492), (818, 37483), (827, 37462), (837, 37438), (842, 37423),

Gene: Lego_41 Start: 29589, Stop: 31454, Start Num: 191

Candidate Starts for Lego_41:

(Start: 191 @29589 has 828 MA's), (208, 29637), (314, 29886), (343, 29976), (423, 30183), (428, 30192), (472, 30282), (476, 30291), (481, 30306), (496, 30351), (515, 30396), (532, 30444), (559, 30501), (583, 30582), (606, 30669), (611, 30702), (618, 30732), (637, 30789), (656, 30855), (680, 30948), (704, 31020), (752, 31128), (770, 31191), (775, 31215), (804, 31326), (812, 31350), (815, 31359),

Gene: Lego3393_59 Start: 54589, Stop: 52730, Start Num: 149

Candidate Starts for Lego3393_59:

(Start: 133 @54613 has 1 MA's), (Start: 149 @54589 has 248 MA's), (Start: 174 @54565 has 5 MA's), (Start: 186 @54559 has 3 MA's), (205, 54517), (212, 54496), (254, 54382), (256, 54376), (269, 54346), (296, 54286), (306, 54265), (323, 54211), (327, 54199), (332, 54181), (335, 54169), (372, 54064), (389, 54007), (400, 53971), (402, 53959), (411, 53932), (421, 53905), (432, 53887), (442, 53869), (465, 53830), (469, 53821), (471, 53818), (607, 53458), (612, 53425), (617, 53404), (647, 53311), (651, 53302), (668, 53239), (683, 53203), (685, 53200), (691, 53185), (717, 53107), (722, 53095), (730, 53074), (748, 53035), (775, 52945), (779, 52927), (781, 52921), (785, 52906), (793, 52882), (795, 52867), (796, 52864), (799, 52852), (809, 52828), (830, 52780), (840, 52756),

Gene: Legolas_62 Start: 54377, Stop: 52518, Start Num: 149

Candidate Starts for Legolas_62:

(Start: 133 @54401 has 1 MA's), (Start: 149 @54377 has 248 MA's), (Start: 174 @54353 has 5 MA's), (Start: 186 @54347 has 3 MA's), (205, 54305), (212, 54284), (254, 54170), (256, 54164), (269, 54134), (296, 54074), (306, 54053), (323, 53999), (327, 53987), (332, 53969), (335, 53957), (372, 53852), (389, 53795), (400, 53759), (402, 53747), (411, 53720), (432, 53675), (465, 53618), (469, 53609), (471, 53606), (607, 53246), (612, 53213), (617, 53192), (647, 53099), (651, 53090), (668, 53027), (683, 52991), (685, 52988), (691, 52973), (717, 52895), (722, 52883), (730, 52862), (748, 52823), (775, 52733), (779, 52715), (781, 52709), (785, 52694), (793, 52670), (795, 52655), (796, 52652), (799, 52640), (809, 52616), (830, 52568), (840, 52544),

Gene: LeiMonet_63 Start: 54494, Stop: 52635, Start Num: 149

Candidate Starts for LeiMonet_63:

(Start: 133 @54518 has 1 MA's), (Start: 149 @54494 has 248 MA's), (Start: 174 @54470 has 5 MA's), (Start: 186 @54464 has 3 MA's), (205, 54422), (212, 54401), (254, 54287), (256, 54281), (269, 54251), (296, 54191), (306, 54170), (323, 54116), (327, 54104), (332, 54086), (335, 54074), (372, 53969), (389, 53912), (400, 53876), (402, 53864), (410, 53840), (414, 53828), (421, 53810), (432, 53792), (442, 53774), (465, 53735), (469, 53726), (471, 53723), (473, 53720), (607, 53363), (612, 53330), (617, 53309), (647, 53216), (651, 53207), (668, 53144), (683, 53108), (685, 53105), (691, 53090), (717, 53012), (722, 53000), (730, 52979), (748, 52940), (775, 52850), (779, 52832), (781, 52826), (785, 52811), (793, 52787), (795, 52772), (796, 52769), (799, 52757), (809, 52733), (830, 52685), (840, 52661),

Gene: LemonSlice_61 Start: 53968, Stop: 52109, Start Num: 149

Candidate Starts for LemonSlice_61:

(Start: 133 @53992 has 1 MA's), (Start: 149 @53968 has 248 MA's), (Start: 174 @53944 has 5 MA's), (Start: 186 @53938 has 3 MA's), (205, 53896), (212, 53875), (254, 53761), (256, 53755), (269, 53725), (296, 53665), (306, 53644), (323, 53590), (327, 53578), (332, 53560), (335, 53548), (372, 53443), (389, 53386), (400, 53350), (402, 53338), (411, 53311), (421, 53284), (432, 53266), (442, 53248), (465, 53209), (469, 53200), (471, 53197), (576, 52939), (607, 52837), (612, 52804), (617, 52783), (647, 52690), (651, 52681), (668, 52618), (683, 52582), (685, 52579), (691, 52564), (717, 52486), (722, 52474), (730, 52453), (748, 52414), (775, 52324), (779, 52306), (781, 52300), (785, 52285), (793, 52261), (795, 52246), (796, 52243), (799, 52231), (809, 52207), (830, 52159), (840, 52135),

Gene: Lemur_45 Start: 31567, Stop: 29741, Start Num: 191

Candidate Starts for Lemur_45:

(Start: 191 @31567 has 828 MA's), (201, 31546), (209, 31516), (221, 31486), (291, 31324), (300, 31306), (326, 31234), (328, 31225), (366, 31105), (372, 31081), (420, 30988), (448, 30940), (458, 30919), (476, 30880), (523, 30748), (532, 30727), (556, 30682), (559, 30670), (609, 30517), (611, 30496), (646, 30373), (656, 30343), (666, 30304), (683, 30238), (685, 30235), (691, 30220), (698, 30196), (704, 30172), (775, 29965), (812, 29830), (816, 29818), (820, 29809),

Gene: LeoAvram_45 Start: 31570, Stop: 29744, Start Num: 191

Candidate Starts for LeoAvram_45:

(Start: 191 @31570 has 828 MA's), (201, 31549), (209, 31519), (221, 31489), (291, 31327), (300, 31309), (326, 31237), (328, 31228), (366, 31108), (372, 31084), (420, 30991), (448, 30943), (458, 30922), (476, 30883), (523, 30751), (532, 30730), (556, 30685), (559, 30673), (609, 30520), (611, 30499), (646, 30376), (656, 30346), (666, 30307), (683, 30241), (685, 30238), (691, 30223), (698, 30199), (704, 30175), (775, 29968), (812, 29833), (816, 29821), (820, 29812),

Gene: Leogania_44 Start: 32411, Stop: 30624, Start Num: 191

Candidate Starts for Leogania_44:

(Start: 191 @32411 has 828 MA's), (272, 32204), (274, 32198), (283, 32183), (291, 32168), (314, 32105), (326, 32078), (331, 32057), (372, 31925), (420, 31832), (451, 31775), (458, 31760), (484, 31694), (515, 31613), (532, 31565), (534, 31559), (592, 31421), (611, 31340), (625, 31289), (636, 31256), (637, 31253), (639, 31244), (646, 31217), (656, 31187), (666, 31148), (676, 31127), (683, 31106), (760, 30908), (770, 30872), (775, 30848), (791, 30791), (795, 30770), (812, 30713), (816, 30701), (820, 30692),

Gene: Lephleur_57 Start: 52497, Stop: 50668, Start Num: 147

Candidate Starts for Lephleur_57:

(Start: 147 @52497 has 31 MA's), (Start: 186 @52470 has 3 MA's), (202, 52440), (205, 52428), (215, 52401), (216, 52398), (221, 52389), (235, 52371), (272, 52275), (296, 52224), (307, 52200), (312, 52176), (358, 52038), (368, 52014), (372, 52002), (389, 51945), (400, 51909), (402, 51897), (410, 51873), (456, 51789), (469, 51759), (471, 51756), (483, 51726), (542, 51582), (565, 51516), (586, 51477), (589, 51465), (595, 51444), (601, 51426), (612, 51369), (639, 51285), (647, 51255), (651, 51246), (668, 51180), (679, 51153), (683, 51144), (691, 51126), (698, 51102), (717, 51048), (722, 51036), (730, 51015), (760, 50946), (775, 50886), (779, 50868), (789, 50835), (793, 50823), (795, 50808), (796, 50805), (799, 50793), (809, 50769), (810, 50766), (830, 50718), (832, 50715), (840, 50694), (847, 50673),

Gene: Lesedi_42 Start: 33941, Stop: 32115, Start Num: 191

Candidate Starts for Lesedi_42:

(Start: 191 @33941 has 828 MA's), (274, 33728), (307, 33665), (314, 33635), (322, 33614), (326, 33608), (328, 33599), (365, 33482), (372, 33455), (420, 33362), (428, 33347), (446, 33314), (470, 33263), (472, 33260), (494, 33194), (508, 33164), (518, 33134), (534, 33089), (556, 33050), (611, 32870), (623, 32822), (637, 32783), (656, 32717), (666, 32678), (676, 32657), (683, 32636), (691, 32618), (712, 32552), (770, 32402), (771, 32399), (778, 32363), (785, 32339), (788, 32330), (792, 32318), (812, 32243), (820, 32222),

Gene: LestyG_57 Start: 53332, Stop: 51515, Start Num: 183

Candidate Starts for LestyG_57:

(32, 53716), (80, 53515), (Start: 183 @53332 has 42 MA's), (201, 53302), (274, 53122), (331, 52969), (334, 52957), (343, 52927), (349, 52921), (372, 52858), (375, 52852), (389, 52801), (400, 52765), (414, 52717), (471, 52612), (510, 52516), (533, 52465), (589, 52321), (601, 52282), (608, 52252), (612, 52225), (616, 52213), (645, 52117), (647, 52111), (651, 52102), (655, 52090), (674, 52018), (683, 51988), (691, 51970), (694, 51961), (717, 51892), (722, 51880), (730, 51859), (760, 51790), (765, 51775), (771, 51751), (775, 51730), (781, 51706), (793, 51667), (796, 51649), (799, 51637), (805, 51625), (809, 51613), (826, 51571), (840, 51541),

Gene: Lev2_38 Start: 30259, Stop: 28415, Start Num: 191

Candidate Starts for Lev2_38:

(Start: 191 @30259 has 828 MA's), (209, 30208), (235, 30148), (262, 30085), (271, 30055), (272, 30052), (302, 29995), (307, 29983), (314, 29953), (326, 29926), (355, 29824), (361, 29809), (372, 29773), (407, 29713), (420, 29677), (446, 29629), (483, 29545), (484, 29539), (513, 29467), (523, 29434), (528, 29419), (534, 29407), (576, 29308), (611, 29173), (618, 29143), (623, 29125), (625,

29122), (637, 29086), (639, 29077), (644, 29056), (647, 29047), (656, 29020), (657, 29017), (676, 28960), (683, 28939), (726, 28822), (750, 28768), (754, 28759), (760, 28741), (779, 28663), (794, 28606), (804, 28570), (812, 28546), (816, 28534),

Gene: Leviathan_46 Start: 31790, Stop: 30003, Start Num: 191

Candidate Starts for Leviathan_46:

(118, 31877), (Start: 191 @31790 has 828 MA's), (272, 31583), (274, 31577), (283, 31562), (291, 31547), (308, 31511), (314, 31484), (326, 31457), (331, 31436), (372, 31304), (420, 31211), (446, 31163), (451, 31154), (458, 31139), (484, 31073), (515, 30992), (532, 30944), (534, 30938), (611, 30719), (625, 30668), (636, 30635), (637, 30632), (656, 30566), (666, 30527), (676, 30506), (701, 30431), (704, 30419), (726, 30368), (754, 30305), (760, 30287), (770, 30251), (775, 30227), (795, 30149), (812, 30092), (816, 30080), (820, 30071),

Gene: Licorice_48 Start: 36210, Stop: 34423, Start Num: 191

Candidate Starts for Licorice_48:

(Start: 191 @36210 has 828 MA's), (274, 35997), (283, 35982), (314, 35904), (322, 35883), (326, 35877), (328, 35868), (365, 35751), (372, 35724), (420, 35631), (428, 35616), (446, 35583), (470, 35532), (472, 35529), (490, 35475), (494, 35463), (508, 35433), (518, 35403), (534, 35358), (556, 35319), (611, 35139), (623, 35091), (637, 35052), (656, 34986), (679, 34914), (683, 34905), (712, 34821), (750, 34734), (785, 34608), (789, 34596), (812, 34512), (814, 34506),

Gene: Liebe_42 Start: 31253, Stop: 33223, Start Num: 104

Candidate Starts for Liebe_42:

(Start: 104 @31253 has 1 MA's), (106, 31256), (Start: 191 @31379 has 828 MA's), (314, 31676), (423, 31952), (474, 32054), (481, 32075), (532, 32213), (561, 32276), (611, 32471), (614, 32477), (618, 32501), (637, 32558), (654, 32615), (656, 32624), (691, 32741), (704, 32789), (767, 32948), (770, 32960), (791, 33041), (812, 33119), (831, 33164),

Gene: Lifes_61 Start: 36067, Stop: 34232, Start Num: 92

Candidate Starts for Lifes_61:

(82, 36082), (Start: 92 @36067 has 10 MA's), (97, 36052), (136, 35983), (181, 35923), (198, 35896), (200, 35893), (210, 35860), (215, 35848), (219, 35839), (228, 35830), (302, 35665), (305, 35659), (343, 35566), (358, 35527), (371, 35488), (383, 35455), (385, 35443), (388, 35437), (399, 35401), (401, 35395), (408, 35368), (421, 35335), (437, 35308), (511, 35161), (536, 35104), (580, 34999), (593, 34951), (606, 34912), (608, 34903), (666, 34708), (681, 34681), (687, 34669), (703, 34657), (724, 34618), (748, 34570), (758, 34546), (778, 34462), (787, 34432), (791, 34414), (793, 34408), (795, 34393), (801, 34369), (806, 34357), (810, 34345), (813, 34336), (818, 34327), (827, 34306), (837, 34282), (842, 34267),

Gene: Ligma_51 Start: 45981, Stop: 44164, Start Num: 177

Candidate Starts for Ligma_51:

(34, 46302), (41, 46278), (Start: 177 @45981 has 10 MA's), (201, 45945), (205, 45930), (216, 45900), (265, 45774), (316, 45651), (324, 45636), (335, 45594), (372, 45498), (400, 45405), (460, 45276), (471, 45252), (595, 44940), (601, 44922), (612, 44865), (647, 44751), (651, 44742), (668, 44679), (685, 44640), (691, 44625), (717, 44547), (722, 44535), (730, 44514), (733, 44505), (768, 44418), (776, 44382), (778, 44370), (790, 44331), (793, 44322), (795, 44307), (809, 44262), (840, 44190),

Gene: LilBib_45 Start: 35268, Stop: 33442, Start Num: 191

Candidate Starts for LilBib_45:

(Start: 191 @35268 has 828 MA's), (274, 35055), (283, 35040), (307, 34992), (314, 34962), (322, 34941), (326, 34935), (328, 34926), (365, 34809), (372, 34782), (420, 34689), (428, 34674), (446, 34641), (470, 34590), (472, 34587), (494, 34521), (508, 34491), (518, 34461), (534, 34416), (556, 34377), (611, 34197), (623, 34149), (639, 34101), (651, 34062), (656, 34044), (666, 34005), (676,

33984), (683, 33963), (690, 33948), (733, 33825), (778, 33690), (785, 33666), (788, 33657), (792, 33645), (812, 33570), (820, 33549),

Gene: LilMcDreamy_55 Start: 53828, Stop: 51987, Start Num: 141

Candidate Starts for LilMcDreamy_55:

(Start: 141 @53828 has 23 MA's), (Start: 186 @53786 has 3 MA's), (201, 53759), (272, 53591), (306, 53519), (312, 53492), (331, 53441), (347, 53396), (349, 53393), (363, 53360), (366, 53351), (372, 53330), (400, 53237), (402, 53225), (414, 53189), (442, 53135), (456, 53117), (465, 53096), (469, 53087), (471, 53084), (511, 52985), (533, 52937), (589, 52793), (601, 52754), (612, 52697), (617, 52676), (626, 52646), (647, 52583), (651, 52574), (657, 52553), (674, 52490), (683, 52460), (691, 52442), (717, 52364), (722, 52352), (730, 52331), (733, 52322), (775, 52202), (793, 52139), (794, 52127), (805, 52097), (809, 52085), (826, 52043), (840, 52013),

Gene: LilTurb_45 Start: 31623, Stop: 29836, Start Num: 191

Candidate Starts for LilTurb_45:

(Start: 191 @31623 has 828 MA's), (272, 31416), (274, 31410), (283, 31395), (291, 31380), (308, 31344), (314, 31317), (326, 31290), (331, 31269), (372, 31137), (420, 31044), (446, 30996), (451, 30987), (458, 30972), (484, 30906), (515, 30825), (532, 30777), (534, 30771), (565, 30708), (611, 30552), (625, 30501), (636, 30468), (637, 30465), (656, 30399), (666, 30360), (676, 30339), (701, 30264), (704, 30252), (726, 30201), (754, 30138), (760, 30120), (770, 30084), (775, 30060), (795, 29982), (812, 29925), (816, 29913), (820, 29904),

Gene: Lilbooboo_34 Start: 26910, Stop: 28784, Start Num: 191

Candidate Starts for Lilbooboo_34:

(Start: 191 @26910 has 828 MA's), (201, 26931), (204, 26943), (221, 26991), (271, 27111), (314, 27213), (315, 27216), (322, 27234), (328, 27249), (361, 27357), (375, 27399), (454, 27546), (457, 27558), (470, 27588), (476, 27600), (482, 27618), (493, 27654), (523, 27732), (527, 27744), (532, 27753), (559, 27810), (560, 27813), (598, 27951), (607, 27981), (611, 28011), (623, 28062), (637, 28104), (644, 28134), (646, 28140), (647, 28143), (651, 28152), (654, 28161), (656, 28170), (665, 28236), (679, 28290), (720, 28404), (752, 28473), (765, 28515), (768, 28527), (778, 28575), (781, 28584), (789, 28611), (791, 28617), (795, 28638), (812, 28695), (814, 28701), (820, 28716),

Gene: Lilbunny_43 Start: 29422, Stop: 27581, Start Num: 191

Candidate Starts for Lilbunny_43:

(Start: 170 @29452 has 3 MA's), (Start: 191 @29422 has 828 MA's), (271, 29218), (307, 29143), (308, 29140), (314, 29113), (319, 29098), (326, 29086), (340, 29035), (368, 28945), (372, 28933), (420, 28840), (441, 28801), (451, 28783), (458, 28768), (484, 28702), (496, 28669), (498, 28666), (535, 28564), (565, 28504), (592, 28420), (611, 28339), (636, 28255), (637, 28252), (639, 28243), (646, 28216), (656, 28186), (676, 28126), (691, 28087), (770, 27871), (771, 27868), (775, 27847), (812, 27712), (816, 27700), (820, 27691), (821, 27688), (859, 27595),

Gene: Lilith_49 Start: 31846, Stop: 30032, Start Num: 191

Candidate Starts for Lilith_49:

(Start: 191 @31846 has 828 MA's), (206, 31807), (209, 31795), (271, 31642), (276, 31627), (307, 31570), (326, 31513), (328, 31504), (340, 31462), (355, 31411), (372, 31360), (420, 31267), (446, 31219), (451, 31210), (458, 31195), (476, 31156), (484, 31129), (494, 31099), (528, 31006), (534, 30994), (558, 30946), (565, 30931), (611, 30775), (637, 30688), (656, 30622), (666, 30583), (685, 30511), (698, 30472), (704, 30448), (712, 30430), (726, 30397), (737, 30370), (760, 30316), (775, 30256), (795, 30178), (812, 30121), (816, 30109), (820, 30100),

Gene: Lillie_36 Start: 28113, Stop: 26329, Start Num: 191

Candidate Starts for Lillie_36:

(Start: 191 @28113 has 828 MA's), (288, 27879), (302, 27849), (306, 27840), (307, 27837), (319, 27792), (326, 27780), (340, 27729), (372, 27627), (380, 27606), (420, 27534), (444, 27489), (446, 27486), (466, 27444), (468, 27438), (476, 27423), (484, 27396), (523, 27291), (526, 27282), (534, 27264), (535, 27261), (556, 27225), (611, 27045), (623, 26997), (656, 26892), (657, 26889), (676, 26832), (683, 26811), (700, 26763), (727, 26688), (758, 26619), (770, 26577), (775, 26553), (795, 26475), (812, 26418), (816, 26406), (820, 26397), (834, 26367), (839, 26349),

Gene: LimaBean_42 Start: 29163, Stop: 31037, Start Num: 182

Candidate Starts for LimaBean_42:

(Start: 179 @29160 has 7 MA's), (Start: 182 @29163 has 49 MA's), (216, 29232), (224, 29253), (328, 29499), (340, 29541), (476, 29835), (564, 30069), (598, 30192), (611, 30252), (614, 30258), (625, 30303), (632, 30318), (635, 30333), (644, 30369), (656, 30405), (680, 30498), (713, 30591), (747, 30669), (770, 30741), (771, 30744), (778, 30780), (791, 30822), (794, 30840), (804, 30876), (812, 30900), (820, 30921),

Gene: LittleB_45 Start: 31571, Stop: 29745, Start Num: 191

Candidate Starts for LittleB_45:

(Start: 191 @31571 has 828 MA's), (201, 31550), (209, 31520), (221, 31490), (291, 31328), (300, 31310), (326, 31238), (328, 31229), (366, 31109), (372, 31085), (420, 30992), (448, 30944), (458, 30923), (476, 30884), (523, 30752), (532, 30731), (556, 30686), (559, 30674), (609, 30521), (611, 30500), (646, 30377), (656, 30347), (666, 30308), (683, 30242), (685, 30239), (691, 30224), (698, 30200), (704, 30176), (775, 29969), (812, 29834), (816, 29822), (820, 29813),

Gene: LittleCherry_39 Start: 30596, Stop: 28731, Start Num: 191

Candidate Starts for LittleCherry_39:

(Start: 191 @30596 has 828 MA's), (209, 30545), (235, 30485), (262, 30422), (271, 30392), (272, 30389), (302, 30332), (307, 30320), (314, 30290), (326, 30263), (372, 30110), (420, 30014), (446, 29966), (483, 29882), (484, 29876), (513, 29804), (523, 29771), (528, 29756), (534, 29744), (576, 29645), (611, 29510), (618, 29480), (623, 29462), (632, 29444), (637, 29423), (639, 29414), (656, 29357), (666, 29318), (683, 29276), (691, 29258), (704, 29210), (726, 29159), (750, 29105), (754, 29096), (760, 29078), (775, 29018), (779, 29000), (804, 28907), (812, 28883), (816, 28871), (859, 28766),

Gene: LittleGuy_45 Start: 31466, Stop: 29640, Start Num: 191

Candidate Starts for LittleGuy_45:

(Start: 191 @31466 has 828 MA's), (201, 31445), (209, 31415), (221, 31385), (291, 31223), (300, 31205), (326, 31133), (328, 31124), (366, 31004), (372, 30980), (420, 30887), (448, 30839), (458, 30818), (476, 30779), (523, 30647), (532, 30626), (556, 30581), (559, 30569), (609, 30416), (611, 30395), (646, 30272), (656, 30242), (666, 30203), (683, 30137), (685, 30134), (691, 30119), (698, 30095), (704, 30071), (775, 29864), (812, 29729), (816, 29717), (820, 29708),

Gene: LittleMunchkin_52 Start: 48656, Stop: 46845, Start Num: 174

Candidate Starts for LittleMunchkin_52:

(Start: 174 @48656 has 5 MA's), (204, 48608), (205, 48605), (212, 48584), (216, 48575), (269, 48446), (312, 48338), (316, 48326), (331, 48287), (335, 48272), (366, 48197), (372, 48176), (400, 48083), (457, 47960), (471, 47930), (589, 47639), (612, 47543), (645, 47438), (647, 47432), (651, 47423), (668, 47360), (678, 47333), (691, 47306), (696, 47291), (698, 47282), (717, 47228), (722, 47216), (730, 47195), (765, 47111), (768, 47099), (776, 47063), (793, 47003), (795, 46988), (809, 46943), (830, 46895), (840, 46871),

Gene: LizLemon_57 Start: 52610, Stop: 50781, Start Num: 147

Candidate Starts for LizLemon_57:

(Start: 147 @52610 has 31 MA's), (Start: 186 @52583 has 3 MA's), (202, 52553), (205, 52541), (215, 52514), (216, 52511), (221, 52502), (235, 52484), (272, 52388), (296, 52337), (307, 52313), (312, 52289), (358, 52151), (368, 52127), (372, 52115), (389, 52058), (400, 52022), (402, 52010), (410, 51986), (456, 51902), (469, 51872), (471, 51869), (483, 51839), (542, 51695), (565, 51629), (586, 51590), (589, 51578), (595, 51557), (601, 51539), (612, 51482), (639, 51398), (647, 51368), (651, 51359), (668, 51293), (679, 51266), (683, 51257), (691, 51239), (698, 51215), (717, 51161), (722, 51149), (730, 51128), (760, 51059), (775, 50999), (779, 50981), (789, 50948), (793, 50936), (795, 50921), (796, 50918), (799, 50906), (809, 50882), (810, 50879), (830, 50831), (832, 50828), (840, 50807), (847, 50786),

Gene: Lizalica_39 Start: 28785, Stop: 30650, Start Num: 191

Candidate Starts for Lizalica_39:

(Start: 191 @28785 has 828 MA's), (208, 28833), (314, 29082), (343, 29172), (423, 29379), (428, 29388), (472, 29478), (476, 29487), (481, 29502), (496, 29547), (515, 29592), (532, 29640), (559, 29697), (583, 29778), (606, 29865), (611, 29898), (618, 29928), (637, 29985), (654, 30042), (656, 30051), (752, 30324), (770, 30387), (812, 30546), (815, 30555), (850, 30633),

Gene: LochMonster_46 Start: 31806, Stop: 29980, Start Num: 191

Candidate Starts for LochMonster_46:

(Start: 191 @31806 has 828 MA's), (201, 31785), (209, 31755), (221, 31725), (291, 31563), (300, 31545), (326, 31473), (328, 31464), (366, 31344), (372, 31320), (420, 31227), (448, 31179), (458, 31158), (476, 31119), (490, 31074), (492, 31068), (523, 30987), (532, 30966), (556, 30921), (559, 30909), (609, 30756), (611, 30735), (646, 30612), (656, 30582), (666, 30543), (683, 30477), (685, 30474), (691, 30459), (698, 30435), (704, 30411), (775, 30204), (812, 30069), (816, 30057), (820, 30048),

Gene: Lockley_44 Start: 34369, Stop: 32543, Start Num: 191

Candidate Starts for Lockley_44:

(Start: 191 @34369 has 828 MA's), (274, 34156), (307, 34093), (314, 34063), (326, 34036), (328, 34027), (365, 33910), (372, 33883), (420, 33790), (428, 33775), (470, 33691), (472, 33688), (494, 33622), (508, 33592), (518, 33562), (534, 33517), (556, 33478), (611, 33298), (623, 33250), (637, 33211), (656, 33145), (666, 33106), (676, 33085), (683, 33064), (691, 33046), (712, 32980), (770, 32830), (771, 32827), (778, 32791), (788, 32758), (792, 32746), (812, 32671), (820, 32650),

Gene: Loka_45 Start: 31915, Stop: 30128, Start Num: 191

Candidate Starts for Loka_45:

(Start: 191 @31915 has 828 MA's), (272, 31708), (274, 31702), (291, 31672), (307, 31639), (308, 31636), (319, 31594), (326, 31582), (372, 31429), (420, 31336), (446, 31288), (451, 31279), (458, 31264), (484, 31198), (532, 31069), (586, 30949), (592, 30925), (611, 30844), (625, 30793), (636, 30760), (637, 30757), (656, 30691), (666, 30652), (676, 30631), (701, 30556), (704, 30544), (737, 30466), (754, 30430), (760, 30412), (770, 30376), (775, 30352), (795, 30274), (812, 30217), (816, 30205), (820, 30196),

Gene: Lolalove_54 Start: 54016, Stop: 52190, Start Num: 141

Candidate Starts for Lolalove_54:

(Start: 141 @54016 has 23 MA's), (Start: 186 @53989 has 3 MA's), (201, 53962), (205, 53947), (212, 53926), (246, 53839), (293, 53734), (306, 53707), (310, 53692), (332, 53626), (341, 53596), (343, 53587), (347, 53584), (349, 53581), (389, 53461), (395, 53443), (400, 53425), (402, 53413), (411, 53386), (442, 53323), (465, 53284), (469, 53275), (471, 53272), (483, 53242), (494, 53206), (589, 52981), (590, 52978), (601, 52942), (607, 52918), (612, 52885), (645, 52777), (647, 52771), (651, 52762), (683, 52663), (685, 52660), (691, 52645), (717, 52567), (722, 52555), (730, 52534), (733, 52525), (748, 52495), (760, 52465), (768, 52438), (775, 52405), (781, 52381), (793, 52342), (796, 52324), (799, 52312), (809, 52288), (826, 52246), (830, 52240), (840, 52216),

Gene: London_39 Start: 30351, Stop: 32216, Start Num: 191

Candidate Starts for London_39:

(Start: 191 @30351 has 828 MA's), (208, 30399), (290, 30582), (293, 30588), (314, 30648), (322, 30669), (343, 30738), (428, 30954), (472, 31044), (476, 31053), (481, 31068), (496, 31113), (532, 31206), (583, 31344), (611, 31464), (618, 31494), (637, 31551), (654, 31608), (656, 31617), (663, 31641), (680, 31710), (704, 31782), (708, 31791), (752, 31890), (770, 31953), (812, 32112), (815, 32121),

Gene: LoneWolf_45 Start: 31301, Stop: 29508, Start Num: 191

Candidate Starts for LoneWolf_45:

(Start: 191 @31301 has 828 MA's), (196, 31292), (271, 31097), (291, 31055), (308, 31019), (314, 30992), (326, 30965), (340, 30914), (366, 30836), (372, 30812), (420, 30719), (444, 30674), (494, 30551), (579, 30353), (582, 30347), (611, 30224), (639, 30128), (646, 30101), (656, 30071), (666, 30032), (679, 29999), (683, 29990), (726, 29873), (733, 29852), (775, 29732), (795, 29654), (812, 29597), (816, 29585), (820, 29576),

Gene: Longacauda_61 Start: 54397, Stop: 52538, Start Num: 149

Candidate Starts for Longacauda_61:

(Start: 133 @54421 has 1 MA's), (Start: 149 @54397 has 248 MA's), (Start: 174 @54373 has 5 MA's), (Start: 186 @54367 has 3 MA's), (205, 54325), (212, 54304), (254, 54190), (256, 54184), (269, 54154), (296, 54094), (306, 54073), (323, 54019), (327, 54007), (332, 53989), (335, 53977), (372, 53872), (389, 53815), (400, 53779), (402, 53767), (411, 53740), (432, 53695), (465, 53638), (469, 53629), (471, 53626), (576, 53368), (607, 53266), (612, 53233), (617, 53212), (647, 53119), (651, 53110), (668, 53047), (683, 53011), (685, 53008), (691, 52993), (717, 52915), (722, 52903), (730, 52882), (748, 52843), (775, 52753), (779, 52735), (781, 52729), (785, 52714), (793, 52690), (795, 52675), (796, 52672), (799, 52660), (809, 52636), (830, 52588), (840, 52564),

Gene: Looper_47 Start: 29720, Stop: 27930, Start Num: 191

Candidate Starts for Looper_47:

(Start: 191 @29720 has 828 MA's), (262, 29546), (307, 29441), (308, 29438), (314, 29411), (326, 29384), (340, 29333), (372, 29231), (420, 29138), (444, 29093), (446, 29090), (451, 29081), (515, 28919), (523, 28892), (532, 28871), (534, 28865), (583, 28766), (592, 28727), (607, 28676), (611, 28646), (625, 28595), (636, 28562), (644, 28529), (646, 28523), (656, 28493), (676, 28433), (683, 28412), (698, 28370), (705, 28343), (712, 28328), (750, 28241), (770, 28178), (771, 28175), (812, 28019), (816, 28007), (821, 27995),

Gene: Lopsy_59 Start: 53696, Stop: 51837, Start Num: 149

Candidate Starts for Lopsy_59:

(Start: 133 @53720 has 1 MA's), (Start: 149 @53696 has 248 MA's), (Start: 174 @53672 has 5 MA's), (Start: 186 @53666 has 3 MA's), (205, 53624), (212, 53603), (254, 53489), (256, 53483), (269, 53453), (296, 53393), (306, 53372), (323, 53318), (327, 53306), (332, 53288), (334, 53279), (335, 53276), (372, 53171), (389, 53114), (400, 53078), (402, 53066), (410, 53042), (414, 53030), (421, 53012), (432, 52994), (442, 52976), (465, 52937), (469, 52928), (471, 52925), (473, 52922), (607, 52565), (612, 52532), (617, 52511), (647, 52418), (651, 52409), (668, 52346), (683, 52310), (685, 52307), (691, 52292), (717, 52214), (722, 52202), (730, 52181), (748, 52142), (775, 52052), (781, 52028), (785, 52013), (793, 51989), (795, 51974), (796, 51971), (799, 51959), (809, 51935), (830, 51887), (840, 51863),

Gene: Lopton_45 Start: 35870, Stop: 34044, Start Num: 191

Candidate Starts for Lopton_45:

(Start: 191 @35870 has 828 MA's), (274, 35657), (307, 35594), (314, 35564), (322, 35543), (326, 35537), (328, 35528), (365, 35411), (372, 35384), (420, 35291), (428, 35276), (446, 35243), (470,

35192), (472, 35189), (494, 35123), (508, 35093), (518, 35063), (534, 35018), (556, 34979), (611, 34799), (623, 34751), (637, 34712), (656, 34646), (666, 34607), (676, 34586), (683, 34565), (691, 34547), (712, 34481), (770, 34331), (771, 34328), (778, 34292), (785, 34268), (792, 34247), (798, 34220), (812, 34172), (820, 34151),

Gene: Lorenzo_45 Start: 31570, Stop: 29744, Start Num: 191

Candidate Starts for Lorenzo_45:

(Start: 191 @31570 has 828 MA's), (201, 31549), (209, 31519), (221, 31489), (291, 31327), (300, 31309), (326, 31237), (328, 31228), (366, 31108), (372, 31084), (420, 30991), (448, 30943), (458, 30922), (476, 30883), (523, 30751), (532, 30730), (556, 30685), (559, 30673), (609, 30520), (611, 30499), (646, 30376), (656, 30346), (666, 30307), (683, 30241), (685, 30238), (691, 30223), (698, 30199), (704, 30175), (775, 29968), (812, 29833), (816, 29821), (820, 29812),

Gene: Loser_46 Start: 32256, Stop: 30469, Start Num: 191

Candidate Starts for Loser_46:

(Start: 191 @32256 has 828 MA's), (271, 32052), (272, 32049), (283, 32028), (291, 32013), (307, 31980), (314, 31950), (326, 31923), (331, 31902), (340, 31872), (372, 31770), (420, 31677), (446, 31629), (451, 31620), (458, 31605), (484, 31539), (515, 31458), (532, 31410), (566, 31338), (592, 31266), (611, 31185), (625, 31134), (636, 31101), (637, 31098), (656, 31032), (666, 30993), (676, 30972), (697, 30915), (701, 30897), (737, 30807), (754, 30771), (760, 30753), (770, 30717), (775, 30693), (791, 30636), (795, 30615), (812, 30558), (816, 30546), (820, 30537),

Gene: LostAndPhound_61 Start: 54582, Stop: 52723, Start Num: 149

Candidate Starts for LostAndPhound_61:

(Start: 133 @54606 has 1 MA's), (Start: 149 @54582 has 248 MA's), (Start: 174 @54558 has 5 MA's), (Start: 186 @54552 has 3 MA's), (205, 54510), (212, 54489), (254, 54375), (256, 54369), (269, 54339), (296, 54279), (306, 54258), (323, 54204), (327, 54192), (332, 54174), (335, 54162), (372, 54057), (389, 54000), (400, 53964), (402, 53952), (411, 53925), (421, 53898), (432, 53880), (442, 53862), (465, 53823), (469, 53814), (471, 53811), (576, 53553), (607, 53451), (612, 53418), (617, 53397), (647, 53304), (651, 53295), (668, 53232), (683, 53196), (685, 53193), (691, 53178), (717, 53100), (722, 53088), (730, 53067), (748, 53028), (775, 52938), (779, 52920), (781, 52914), (785, 52899), (793, 52875), (795, 52860), (796, 52857), (799, 52845), (809, 52821), (830, 52773), (840, 52749),

Gene: Louie6_47 Start: 31885, Stop: 30071, Start Num: 191

Candidate Starts for Louie6_47:

(Start: 191 @31885 has 828 MA's), (206, 31846), (209, 31834), (271, 31681), (276, 31666), (307, 31609), (326, 31552), (328, 31543), (340, 31501), (355, 31450), (372, 31399), (405, 31345), (420, 31306), (446, 31258), (458, 31234), (476, 31195), (484, 31168), (494, 31138), (528, 31045), (534, 31033), (558, 30985), (565, 30970), (611, 30814), (625, 30763), (636, 30730), (637, 30727), (656, 30661), (666, 30622), (685, 30550), (698, 30511), (704, 30487), (712, 30469), (726, 30436), (760, 30355), (775, 30295), (798, 30208), (812, 30160), (816, 30148), (820, 30139), (821, 30136),

Gene: Luchador_50 Start: 33745, Stop: 31952, Start Num: 191

Candidate Starts for Luchador_50:

(Start: 191 @33745 has 828 MA's), (196, 33736), (207, 33703), (235, 33634), (271, 33541), (307, 33466), (308, 33463), (314, 33436), (326, 33409), (340, 33358), (366, 33280), (372, 33256), (420, 33163), (433, 33139), (444, 33118), (484, 33025), (494, 32995), (556, 32848), (579, 32797), (592, 32749), (611, 32668), (618, 32638), (632, 32602), (646, 32545), (656, 32515), (683, 32434), (712, 32350), (726, 32317), (737, 32290), (770, 32200), (791, 32119), (795, 32098), (798, 32089), (812, 32041), (816, 32029), (820, 32020), (821, 32017),

Gene: Lucivia_45 Start: 30825, Stop: 29038, Start Num: 191

Candidate Starts for Lucivia_45:

(Start: 191 @30825 has 828 MA's), (271, 30621), (307, 30549), (314, 30519), (326, 30492), (423, 30240), (451, 30189), (484, 30108), (501, 30063), (532, 29979), (559, 29922), (581, 29880), (592, 29835), (611, 29754), (625, 29703), (637, 29667), (656, 29601), (676, 29541), (679, 29529), (716, 29427), (726, 29403), (732, 29385), (760, 29322), (768, 29295), (770, 29286), (775, 29262), (812, 29127), (816, 29115), (820, 29106),

Gene: LuckyMarjie_58 Start: 53758, Stop: 51899, Start Num: 149

Candidate Starts for LuckyMarjie_58:

(Start: 133 @53782 has 1 MA's), (Start: 149 @53758 has 248 MA's), (Start: 174 @53734 has 5 MA's), (Start: 186 @53728 has 3 MA's), (205, 53686), (212, 53665), (254, 53551), (256, 53545), (269, 53515), (296, 53455), (306, 53434), (323, 53380), (327, 53368), (332, 53350), (335, 53338), (372, 53233), (389, 53176), (400, 53140), (402, 53128), (410, 53104), (414, 53092), (421, 53074), (432, 53056), (442, 53038), (465, 52999), (469, 52990), (471, 52987), (473, 52984), (607, 52627), (612, 52594), (617, 52573), (647, 52480), (651, 52471), (668, 52408), (683, 52372), (685, 52369), (691, 52354), (717, 52276), (722, 52264), (730, 52243), (748, 52204), (775, 52114), (779, 52096), (781, 52090), (785, 52075), (793, 52051), (795, 52036), (796, 52033), (799, 52021), (809, 51997), (830, 51949), (840, 51925),

Gene: LuckySocke_138 Start: 73912, Stop: 75948, Start Num: 100

Candidate Starts for LuckySocke_138:

(Start: 100 @73912 has 4 MA's), (139, 73978), (Start: 156 @74002 has 1 MA's), (192, 74053), (Start: 194 @74056 has 1 MA's), (198, 74068), (209, 74101), (236, 74170), (286, 74305), (304, 74341), (339, 74461), (354, 74515), (356, 74518), (374, 74569), (378, 74581), (396, 74650), (401, 74671), (413, 74719), (417, 74728), (570, 75106), (607, 75223), (610, 75241), (640, 75337), (656, 75373), (672, 75442), (675, 75451), (677, 75457), (729, 75595), (736, 75610), (744, 75625), (772, 75709), (773, 75712), (793, 75784), (813, 75856), (833, 75901), (835, 75910), (837, 75916),

Gene: Lucyedi_45 Start: 30972, Stop: 29140, Start Num: 191

Candidate Starts for Lucyedi_45:

(Start: 191 @30972 has 828 MA's), (271, 30768), (272, 30765), (307, 30696), (308, 30693), (314, 30666), (322, 30645), (326, 30639), (328, 30630), (340, 30588), (366, 30510), (372, 30486), (420, 30393), (494, 30225), (579, 30027), (611, 29898), (639, 29802), (651, 29763), (656, 29745), (679, 29673), (683, 29664), (733, 29526), (768, 29439), (770, 29430), (795, 29328), (812, 29271), (816, 29259), (859, 29154),

Gene: LugYA_51 Start: 31853, Stop: 30039, Start Num: 191

Candidate Starts for LugYA_51:

(Start: 191 @31853 has 828 MA's), (206, 31814), (209, 31802), (271, 31649), (276, 31634), (307, 31577), (326, 31520), (328, 31511), (340, 31469), (355, 31418), (372, 31367), (420, 31274), (446, 31226), (451, 31217), (458, 31202), (476, 31163), (484, 31136), (494, 31106), (528, 31013), (558, 30953), (565, 30938), (611, 30782), (637, 30695), (656, 30629), (666, 30590), (685, 30518), (698, 30479), (704, 30455), (712, 30437), (726, 30404), (737, 30377), (760, 30323), (775, 30263), (795, 30185), (812, 30128), (816, 30116), (820, 30107),

Gene: Lulumae_58 Start: 53743, Stop: 51884, Start Num: 149

Candidate Starts for Lulumae_58:

(Start: 133 @53767 has 1 MA's), (Start: 149 @53743 has 248 MA's), (Start: 174 @53719 has 5 MA's), (Start: 186 @53713 has 3 MA's), (205, 53671), (212, 53650), (254, 53536), (256, 53530), (269, 53500), (296, 53440), (306, 53419), (323, 53365), (327, 53353), (332, 53335), (335, 53323), (372, 53218), (389, 53161), (400, 53125), (402, 53113), (411, 53086), (421, 53059), (432, 53041), (442, 53023), (465, 52984), (469, 52975), (471, 52972), (473, 52969), (607, 52612), (612, 52579), (617, 52558), (647, 52465), (651, 52456), (668, 52393), (683, 52357), (685, 52354), (691, 52339), (717,

52261), (722, 52249), (730, 52228), (748, 52189), (775, 52099), (779, 52081), (781, 52075), (785, 52060), (793, 52036), (795, 52021), (796, 52018), (799, 52006), (809, 51982), (830, 51934), (840, 51910),

Gene: Lulwa_58 Start: 53340, Stop: 51481, Start Num: 149

Candidate Starts for Lulwa_58:

(Start: 133 @53364 has 1 MA's), (Start: 149 @53340 has 248 MA's), (Start: 174 @53316 has 5 MA's), (Start: 186 @53310 has 3 MA's), (205, 53268), (212, 53247), (254, 53133), (256, 53127), (269, 53097), (296, 53037), (306, 53016), (323, 52962), (327, 52950), (332, 52932), (335, 52920), (372, 52815), (389, 52758), (400, 52722), (402, 52710), (411, 52683), (421, 52656), (432, 52638), (442, 52620), (465, 52581), (469, 52572), (471, 52569), (576, 52311), (607, 52209), (612, 52176), (617, 52155), (647, 52062), (651, 52053), (668, 51990), (683, 51954), (685, 51951), (691, 51936), (717, 51858), (722, 51846), (730, 51825), (748, 51786), (775, 51696), (779, 51678), (781, 51672), (785, 51657), (793, 51633), (795, 51618), (796, 51615), (799, 51603), (809, 51579), (830, 51531), (840, 51507),

Gene: Lumine_61 Start: 54227, Stop: 52368, Start Num: 149

Candidate Starts for Lumine_61:

(Start: 133 @54251 has 1 MA's), (Start: 149 @54227 has 248 MA's), (Start: 174 @54203 has 5 MA's), (Start: 186 @54197 has 3 MA's), (205, 54155), (212, 54134), (254, 54020), (256, 54014), (269, 53984), (296, 53924), (306, 53903), (323, 53849), (327, 53837), (332, 53819), (335, 53807), (372, 53702), (389, 53645), (400, 53609), (402, 53597), (410, 53573), (414, 53561), (421, 53543), (432, 53525), (442, 53507), (465, 53468), (469, 53459), (471, 53456), (473, 53453), (607, 53096), (612, 53063), (617, 53042), (647, 52949), (651, 52940), (668, 52877), (683, 52841), (685, 52838), (691, 52823), (717, 52745), (722, 52733), (730, 52712), (748, 52673), (775, 52583), (779, 52565), (781, 52559), (785, 52544), (793, 52520), (795, 52505), (796, 52502), (799, 52490), (809, 52466), (830, 52418), (840, 52394),

Gene: Lunsford_46 Start: 31564, Stop: 29738, Start Num: 191

Candidate Starts for Lunsford_46:

(Start: 191 @31564 has 828 MA's), (201, 31543), (209, 31513), (221, 31483), (291, 31321), (300, 31303), (326, 31231), (328, 31222), (366, 31102), (372, 31078), (420, 30985), (448, 30937), (458, 30916), (476, 30877), (523, 30745), (532, 30724), (556, 30679), (559, 30667), (609, 30514), (611, 30493), (646, 30370), (656, 30340), (666, 30301), (683, 30235), (685, 30232), (691, 30217), (698, 30193), (704, 30169), (775, 29962), (812, 29827), (816, 29815), (820, 29806),

Gene: Lynlen_43 Start: 29644, Stop: 31518, Start Num: 182

Candidate Starts for Lynlen_43:

(Start: 179 @29641 has 7 MA's), (Start: 182 @29644 has 49 MA's), (216, 29713), (224, 29734), (328, 29980), (340, 30022), (438, 30235), (476, 30316), (523, 30451), (564, 30550), (598, 30673), (611, 30733), (614, 30739), (625, 30784), (632, 30799), (635, 30814), (644, 30850), (656, 30886), (680, 30979), (713, 31072), (747, 31150), (770, 31222), (778, 31261), (791, 31303), (794, 31321), (812, 31381), (820, 31402),

Gene: MA5_45 Start: 30880, Stop: 29042, Start Num: 191

Candidate Starts for MA5_45:

(Start: 141 @30952 has 23 MA's), (Start: 191 @30880 has 828 MA's), (209, 30829), (271, 30676), (291, 30637), (307, 30604), (326, 30547), (328, 30538), (331, 30526), (366, 30418), (372, 30394), (420, 30298), (448, 30250), (476, 30190), (523, 30058), (532, 30037), (582, 29923), (592, 29881), (611, 29800), (637, 29713), (646, 29677), (656, 29647), (685, 29536), (698, 29497), (704, 29473), (712, 29455), (713, 29452), (760, 29326), (775, 29266), (812, 29131), (816, 29119), (820, 29110),

Gene: MK4_45 Start: 30963, Stop: 29125, Start Num: 191

Candidate Starts for MK4_45:

(Start: 141 @31035 has 23 MA's), (Start: 191 @30963 has 828 MA's), (209, 30912), (271, 30759), (291, 30720), (307, 30687), (326, 30630), (328, 30621), (331, 30609), (366, 30501), (372, 30477), (420, 30381), (448, 30333), (476, 30273), (523, 30141), (532, 30120), (565, 30051), (582, 30006), (592, 29964), (611, 29883), (637, 29796), (646, 29760), (656, 29730), (685, 29619), (698, 29580), (704, 29556), (712, 29538), (758, 29415), (760, 29409), (775, 29349), (811, 29217), (812, 29214), (816, 29202), (820, 29193),

Gene: MPlant7149_43 Start: 33801, Stop: 32014, Start Num: 191

Candidate Starts for MPlant7149_43:

(Start: 191 @33801 has 828 MA's), (274, 33588), (283, 33573), (307, 33525), (314, 33495), (322, 33474), (326, 33468), (328, 33459), (365, 33342), (372, 33315), (420, 33222), (428, 33207), (470, 33123), (472, 33120), (494, 33054), (508, 33024), (518, 32994), (534, 32949), (556, 32910), (611, 32730), (623, 32682), (637, 32643), (656, 32577), (679, 32505), (683, 32496), (712, 32412), (750, 32325), (785, 32199), (789, 32187), (804, 32127), (812, 32103), (814, 32097),

Gene: MRabcd_60 Start: 54351, Stop: 52492, Start Num: 149

Candidate Starts for MRabcd_60:

(Start: 133 @54375 has 1 MA's), (Start: 149 @54351 has 248 MA's), (Start: 174 @54327 has 5 MA's), (Start: 186 @54321 has 3 MA's), (205, 54279), (212, 54258), (254, 54144), (256, 54138), (269, 54108), (296, 54048), (306, 54027), (323, 53973), (327, 53961), (332, 53943), (335, 53931), (372, 53826), (389, 53769), (400, 53733), (402, 53721), (411, 53694), (432, 53649), (465, 53592), (469, 53583), (471, 53580), (607, 53220), (612, 53187), (617, 53166), (647, 53073), (651, 53064), (668, 53001), (683, 52965), (685, 52962), (691, 52947), (717, 52869), (722, 52857), (730, 52836), (748, 52797), (775, 52707), (779, 52689), (781, 52683), (785, 52668), (793, 52644), (795, 52629), (796, 52626), (799, 52614), (809, 52590), (830, 52542), (840, 52518),

Gene: MaCh_45 Start: 30763, Stop: 28976, Start Num: 191

Candidate Starts for MaCh_45:

(Start: 191 @30763 has 828 MA's), (271, 30559), (307, 30487), (314, 30457), (326, 30430), (423, 30178), (451, 30127), (484, 30046), (501, 30001), (502, 29998), (532, 29917), (559, 29860), (581, 29818), (592, 29773), (611, 29692), (625, 29641), (637, 29605), (656, 29539), (676, 29479), (679, 29467), (716, 29365), (726, 29341), (732, 29323), (760, 29260), (768, 29233), (770, 29224), (775, 29200), (812, 29065), (816, 29053), (820, 29044),

Gene: MaGuCo_40 Start: 30008, Stop: 31852, Start Num: 191

Candidate Starts for MaGuCo_40:

(Start: 191 @30008 has 828 MA's), (314, 30305), (322, 30326), (423, 30581), (474, 30683), (481, 30704), (515, 30794), (532, 30842), (561, 30905), (611, 31100), (614, 31106), (637, 31187), (656, 31253), (691, 31370), (720, 31457), (767, 31577), (770, 31589), (812, 31748), (831, 31793),

Gene: Mabel_45 Start: 30748, Stop: 28961, Start Num: 191

Candidate Starts for Mabel_45:

(Start: 191 @30748 has 828 MA's), (271, 30544), (307, 30472), (314, 30442), (326, 30415), (423, 30163), (451, 30112), (484, 30031), (501, 29986), (532, 29902), (559, 29845), (581, 29803), (592, 29758), (611, 29677), (625, 29626), (637, 29590), (656, 29524), (676, 29464), (679, 29452), (716, 29350), (726, 29326), (732, 29308), (760, 29245), (768, 29218), (770, 29209), (775, 29185), (812, 29050), (816, 29038), (820, 29029),

Gene: Mabodamaca_48 Start: 32455, Stop: 34320, Start Num: 190

Candidate Starts for Mabodamaca_48:

(Start: 147 @32392 has 31 MA's), (154, 32401), (Start: 190 @32455 has 8 MA's), (343, 32842), (444, 33088), (476, 33157), (532, 33310), (592, 33487), (611, 33568), (631, 33631), (644, 33685), (657,

33724), (702, 33880), (713, 33907), (750, 33991), (793, 34144), (812, 34216), (824, 34246),

Gene: MadMarie_48 Start: 31855, Stop: 30041, Start Num: 191

Candidate Starts for MadMarie_48:

(Start: 191 @31855 has 828 MA's), (206, 31816), (209, 31804), (271, 31651), (276, 31636), (307, 31579), (326, 31522), (328, 31513), (340, 31471), (355, 31420), (372, 31369), (420, 31276), (446, 31228), (451, 31219), (458, 31204), (476, 31165), (484, 31138), (494, 31108), (528, 31015), (534, 31003), (558, 30955), (565, 30940), (611, 30784), (637, 30697), (651, 30649), (656, 30631), (666, 30592), (685, 30520), (698, 30481), (704, 30457), (712, 30439), (726, 30406), (737, 30379), (760, 30325), (775, 30265), (795, 30187), (812, 30130), (816, 30118), (820, 30109),

Gene: Mag7_61 Start: 54187, Stop: 52328, Start Num: 149

Candidate Starts for Mag7_61:

(Start: 133 @54211 has 1 MA's), (Start: 149 @54187 has 248 MA's), (Start: 174 @54163 has 5 MA's), (Start: 186 @54157 has 3 MA's), (205, 54115), (212, 54094), (254, 53980), (256, 53974), (269, 53944), (296, 53884), (306, 53863), (323, 53809), (327, 53797), (332, 53779), (335, 53767), (372, 53662), (389, 53605), (400, 53569), (402, 53557), (410, 53533), (414, 53521), (421, 53503), (432, 53485), (442, 53467), (465, 53428), (469, 53419), (471, 53416), (473, 53413), (607, 53056), (612, 53023), (617, 53002), (647, 52909), (651, 52900), (668, 52837), (683, 52801), (685, 52798), (691, 52783), (717, 52705), (722, 52693), (730, 52672), (748, 52633), (775, 52543), (779, 52525), (781, 52519), (785, 52504), (793, 52480), (795, 52465), (796, 52462), (799, 52450), (809, 52426), (830, 52378), (840, 52354),

Gene: Magic8_61 Start: 54339, Stop: 52480, Start Num: 149

Candidate Starts for Magic8_61:

(Start: 133 @54363 has 1 MA's), (Start: 149 @54339 has 248 MA's), (Start: 174 @54315 has 5 MA's), (Start: 186 @54309 has 3 MA's), (205, 54267), (212, 54246), (254, 54132), (256, 54126), (269, 54096), (296, 54036), (306, 54015), (323, 53961), (327, 53949), (332, 53931), (335, 53919), (372, 53814), (389, 53757), (400, 53721), (402, 53709), (411, 53682), (421, 53655), (432, 53637), (442, 53619), (465, 53580), (469, 53571), (471, 53568), (473, 53565), (607, 53208), (612, 53175), (617, 53154), (647, 53061), (651, 53052), (668, 52989), (683, 52953), (685, 52950), (691, 52935), (717, 52857), (722, 52845), (730, 52824), (748, 52785), (775, 52695), (779, 52677), (781, 52671), (785, 52656), (793, 52632), (795, 52617), (796, 52614), (799, 52602), (809, 52578), (830, 52530), (840, 52506),

Gene: Magnar_44 Start: 35145, Stop: 33328, Start Num: 191

Candidate Starts for Magnar_44:

(Start: 191 @35145 has 828 MA's), (274, 34932), (283, 34917), (314, 34839), (322, 34818), (326, 34812), (328, 34803), (365, 34686), (372, 34659), (420, 34566), (428, 34551), (446, 34518), (470, 34467), (472, 34464), (494, 34398), (508, 34368), (518, 34338), (534, 34293), (556, 34254), (611, 34074), (618, 34044), (623, 34026), (637, 33987), (656, 33921), (683, 33840), (685, 33837), (712, 33756), (770, 33606), (771, 33603), (778, 33567), (785, 33543), (788, 33534), (792, 33522), (812, 33447), (820, 33426),

Gene: Magnito_42 Start: 33719, Stop: 31893, Start Num: 191

Candidate Starts for Magnito_42:

(Start: 191 @33719 has 828 MA's), (274, 33506), (283, 33491), (314, 33413), (318, 33401), (322, 33392), (326, 33386), (328, 33377), (365, 33260), (372, 33233), (420, 33140), (428, 33125), (446, 33092), (470, 33041), (472, 33038), (490, 32984), (494, 32972), (508, 32942), (518, 32912), (534, 32867), (556, 32828), (611, 32648), (623, 32600), (625, 32597), (637, 32561), (656, 32495), (666, 32456), (676, 32435), (683, 32414), (691, 32396), (712, 32330), (770, 32180), (771, 32177), (778, 32141), (785, 32117), (788, 32108), (792, 32096), (803, 32048), (812, 32021), (820, 32000),

Gene: Magpie_52 Start: 53908, Stop: 52085, Start Num: 141

Candidate Starts for Magpie_52:

(Start: 128 @53926 has 3 MA's), (Start: 141 @53908 has 23 MA's), (Start: 186 @53884 has 3 MA's), (201, 53857), (205, 53842), (212, 53821), (246, 53734), (293, 53629), (306, 53602), (310, 53587), (332, 53521), (341, 53491), (343, 53482), (347, 53479), (349, 53476), (358, 53449), (372, 53413), (389, 53356), (395, 53338), (400, 53320), (402, 53308), (411, 53281), (442, 53218), (465, 53179), (469, 53170), (471, 53167), (483, 53137), (494, 53101), (576, 52915), (589, 52876), (590, 52873), (601, 52837), (607, 52813), (612, 52780), (645, 52672), (647, 52666), (651, 52657), (683, 52558), (685, 52555), (691, 52540), (717, 52462), (722, 52450), (730, 52429), (733, 52420), (748, 52390), (760, 52360), (768, 52333), (775, 52300), (781, 52276), (793, 52237), (796, 52219), (799, 52207), (809, 52183), (826, 52141), (830, 52135), (840, 52111),

Gene: Mahdia_44 Start: 34961, Stop: 32724, Start Num: 3

Candidate Starts for Mahdia_44:

(1, 35099), (Start: 3 @34961 has 5 MA's), (13, 34808), (14, 34805), (19, 34754), (48, 34676), (78, 34622), (120, 34610), (139, 34580), (146, 34568), (155, 34556), (Start: 180 @34526 has 7 MA's), (216, 34448), (234, 34424), (235, 34421), (239, 34400), (323, 34199), (334, 34163), (339, 34148), (364, 34091), (370, 34070), (372, 34064), (376, 34055), (388, 34013), (400, 33974), (418, 33911), (438, 33878), (453, 33860), (457, 33851), (471, 33821), (483, 33791), (533, 33671), (589, 33527), (598, 33497), (601, 33488), (607, 33464), (612, 33431), (639, 33350), (645, 33326), (647, 33320), (668, 33248), (678, 33221), (683, 33212), (685, 33209), (691, 33194), (698, 33170), (717, 33116), (722, 33104), (764, 32990), (768, 32975), (795, 32864), (796, 32861), (805, 32837), (809, 32825), (830, 32774), (840, 32750),

Gene: Maih_47 Start: 39368, Stop: 37368, Start Num: 93

Candidate Starts for Maih_47:

(Start: 93 @39368 has 10 MA's), (Start: 132 @39299 has 1 MA's), (209, 39167), (211, 39161), (214, 39155), (238, 39107), (240, 39095), (242, 39089), (252, 39068), (257, 39053), (282, 38984), (333, 38843), (365, 38747), (391, 38660), (399, 38636), (403, 38624), (407, 38612), (437, 38543), (504, 38396), (548, 38291), (553, 38276), (580, 38219), (586, 38198), (599, 38156), (607, 38126), (612, 38093), (627, 38039), (640, 38009), (658, 37940), (663, 37919), (684, 37856), (692, 37838), (695, 37826), (701, 37802), (775, 37601), (776, 37598), (781, 37577), (792, 37544), (795, 37526), (805, 37493), (813, 37469), (835, 37421),

Gene: Mainiac_48 Start: 31846, Stop: 30032, Start Num: 191

Candidate Starts for Mainiac_48:

(Start: 191 @31846 has 828 MA's), (206, 31807), (209, 31795), (271, 31642), (276, 31627), (307, 31570), (326, 31513), (328, 31504), (340, 31462), (355, 31411), (372, 31360), (420, 31267), (446, 31219), (451, 31210), (458, 31195), (476, 31156), (484, 31129), (494, 31099), (528, 31006), (558, 30946), (565, 30931), (611, 30775), (637, 30688), (656, 30622), (666, 30583), (685, 30511), (698, 30472), (704, 30448), (712, 30430), (726, 30397), (737, 30370), (760, 30316), (775, 30256), (795, 30178), (812, 30121), (816, 30109), (820, 30100),

Gene: Makemake_44 Start: 35340, Stop: 33514, Start Num: 191

Candidate Starts for Makemake_44:

(Start: 191 @35340 has 828 MA's), (274, 35127), (283, 35112), (307, 35064), (314, 35034), (322, 35013), (326, 35007), (328, 34998), (365, 34881), (372, 34854), (420, 34761), (428, 34746), (446, 34713), (470, 34662), (472, 34659), (494, 34593), (508, 34563), (518, 34533), (534, 34488), (556, 34449), (611, 34269), (618, 34239), (623, 34221), (625, 34218), (637, 34182), (656, 34116), (683, 34035), (685, 34032), (712, 33951), (770, 33801), (771, 33798), (778, 33762), (785, 33738), (788, 33729), (792, 33717), (812, 33642), (820, 33621),

Gene: MakoManhole_51 Start: 47082, Stop: 45265, Start Num: 177

Candidate Starts for MakoManhole_51:

(Start: 177 @47082 has 10 MA's), (Start: 186 @47073 has 3 MA's), (201, 47046), (204, 47034), (212, 47010), (216, 47001), (254, 46905), (272, 46863), (289, 46827), (316, 46752), (341, 46677), (372, 46599), (389, 46542), (400, 46506), (402, 46494), (410, 46470), (460, 46377), (471, 46353), (480, 46335), (589, 46062), (601, 46023), (608, 45993), (612, 45966), (645, 45858), (647, 45852), (651, 45843), (678, 45753), (683, 45744), (685, 45741), (691, 45726), (717, 45648), (722, 45636), (725, 45630), (730, 45615), (753, 45567), (768, 45519), (775, 45486), (781, 45462), (793, 45423), (794, 45411), (795, 45408), (809, 45363), (830, 45315), (840, 45291), (847, 45270),

Gene: Malec_45 Start: 32164, Stop: 30371, Start Num: 191

Candidate Starts for Malec_45:

(Start: 191 @32164 has 828 MA's), (271, 31960), (272, 31957), (274, 31951), (291, 31921), (307, 31888), (308, 31885), (314, 31858), (326, 31831), (340, 31780), (372, 31678), (420, 31585), (446, 31537), (451, 31528), (458, 31513), (484, 31447), (515, 31366), (532, 31318), (534, 31312), (592, 31174), (611, 31093), (625, 31036), (636, 31003), (646, 30964), (656, 30934), (666, 30895), (676, 30874), (683, 30853), (758, 30661), (760, 30655), (770, 30619), (775, 30595), (791, 30538), (795, 30517), (812, 30460), (816, 30448), (820, 30439),

Gene: Malinsilva_50 Start: 31845, Stop: 30031, Start Num: 191

Candidate Starts for Malinsilva_50:

(Start: 191 @31845 has 828 MA's), (206, 31806), (209, 31794), (271, 31641), (276, 31626), (307, 31569), (326, 31512), (328, 31503), (340, 31461), (355, 31410), (372, 31359), (420, 31266), (446, 31218), (451, 31209), (458, 31194), (476, 31155), (484, 31128), (494, 31098), (528, 31005), (534, 30993), (558, 30945), (565, 30930), (611, 30774), (637, 30687), (656, 30621), (666, 30582), (685, 30510), (698, 30471), (704, 30447), (712, 30429), (726, 30396), (737, 30369), (760, 30315), (775, 30255), (795, 30177), (812, 30120), (816, 30108), (820, 30099),

Gene: Maminiaina_44 Start: 31324, Stop: 29531, Start Num: 191

Candidate Starts for Maminiaina_44:

(Start: 191 @31324 has 828 MA's), (196, 31315), (235, 31213), (261, 31153), (262, 31150), (271, 31120), (274, 31111), (291, 31078), (307, 31045), (308, 31042), (314, 31015), (319, 31000), (326, 30988), (372, 30835), (420, 30742), (484, 30604), (494, 30574), (565, 30403), (579, 30376), (582, 30370), (611, 30247), (651, 30112), (656, 30094), (683, 30013), (726, 29896), (770, 29779), (775, 29755), (795, 29677), (812, 29620), (816, 29608), (820, 29599),

Gene: Mana_59 Start: 54023, Stop: 52164, Start Num: 149

Candidate Starts for Mana_59:

(Start: 133 @54047 has 1 MA's), (Start: 149 @54023 has 248 MA's), (Start: 174 @53999 has 5 MA's), (Start: 186 @53993 has 3 MA's), (205, 53951), (212, 53930), (254, 53816), (256, 53810), (269, 53780), (296, 53720), (306, 53699), (323, 53645), (327, 53633), (332, 53615), (335, 53603), (372, 53498), (389, 53441), (400, 53405), (402, 53393), (411, 53366), (421, 53339), (432, 53321), (442, 53303), (465, 53264), (469, 53255), (471, 53252), (607, 52892), (612, 52859), (617, 52838), (647, 52745), (651, 52736), (668, 52673), (683, 52637), (685, 52634), (691, 52619), (717, 52541), (722, 52529), (730, 52508), (748, 52469), (775, 52379), (779, 52361), (781, 52355), (785, 52340), (793, 52316), (795, 52301), (796, 52298), (799, 52286), (809, 52262), (830, 52214), (840, 52190),

Gene: Manad_60 Start: 54307, Stop: 52448, Start Num: 149

Candidate Starts for Manad_60:

(Start: 133 @54331 has 1 MA's), (Start: 149 @54307 has 248 MA's), (Start: 174 @54283 has 5 MA's), (Start: 186 @54277 has 3 MA's), (205, 54235), (212, 54214), (254, 54100), (256, 54094), (269, 54064), (296, 54004), (306, 53983), (323, 53929), (327, 53917), (332, 53899), (335, 53887), (372, 53782), (389, 53725), (400, 53689), (402, 53677), (410, 53653), (414, 53641), (421, 53623), (432, 53605), (442, 53587), (465, 53548), (469, 53539), (471, 53536), (473, 53533), (607, 53176), (612,

53143), (617, 53122), (647, 53029), (651, 53020), (668, 52957), (683, 52921), (685, 52918), (691, 52903), (717, 52825), (722, 52813), (730, 52792), (748, 52753), (775, 52663), (779, 52645), (781, 52639), (785, 52624), (793, 52600), (795, 52585), (796, 52582), (799, 52570), (809, 52546), (830, 52498), (840, 52474),

Gene: Manatee_45 Start: 34036, Stop: 32210, Start Num: 191

Candidate Starts for Manatee_45:

(Start: 191 @34036 has 828 MA's), (274, 33823), (307, 33760), (314, 33730), (322, 33709), (326, 33703), (328, 33694), (365, 33577), (372, 33550), (420, 33457), (428, 33442), (470, 33358), (472, 33355), (494, 33289), (508, 33259), (518, 33229), (534, 33184), (556, 33145), (611, 32965), (623, 32917), (625, 32914), (637, 32878), (656, 32812), (666, 32773), (676, 32752), (683, 32731), (691, 32713), (712, 32647), (770, 32497), (771, 32494), (778, 32458), (785, 32434), (788, 32425), (792, 32413), (812, 32338), (820, 32317),

Gene: Manu_48 Start: 31753, Stop: 29939, Start Num: 191

Candidate Starts for Manu_48:

(Start: 191 @31753 has 828 MA's), (206, 31714), (209, 31702), (271, 31549), (276, 31534), (307, 31477), (326, 31420), (328, 31411), (340, 31369), (355, 31318), (372, 31267), (420, 31174), (446, 31126), (458, 31102), (476, 31063), (484, 31036), (494, 31006), (528, 30913), (534, 30901), (558, 30853), (565, 30838), (611, 30682), (625, 30631), (636, 30598), (637, 30595), (656, 30529), (666, 30490), (685, 30418), (698, 30379), (704, 30355), (712, 30337), (726, 30304), (760, 30223), (775, 30163), (779, 30145), (795, 30085), (798, 30076), (812, 30028), (816, 30016), (820, 30007),

Gene: MarQuardt_48 Start: 31854, Stop: 30040, Start Num: 191

Candidate Starts for MarQuardt_48:

(Start: 191 @31854 has 828 MA's), (206, 31815), (209, 31803), (271, 31650), (276, 31635), (307, 31578), (326, 31521), (328, 31512), (340, 31470), (355, 31419), (372, 31368), (420, 31275), (446, 31227), (451, 31218), (458, 31203), (476, 31164), (484, 31137), (494, 31107), (528, 31014), (558, 30954), (565, 30939), (611, 30783), (637, 30696), (656, 30630), (666, 30591), (685, 30519), (698, 30480), (704, 30456), (712, 30438), (726, 30405), (737, 30378), (760, 30324), (775, 30264), (795, 30186), (812, 30129), (816, 30117), (820, 30108),

Gene: Marcell_43 Start: 34431, Stop: 32605, Start Num: 191

Candidate Starts for Marcell_43:

(Start: 191 @34431 has 828 MA's), (274, 34218), (283, 34203), (307, 34155), (314, 34125), (322, 34104), (326, 34098), (328, 34089), (365, 33972), (372, 33945), (420, 33852), (428, 33837), (470, 33753), (472, 33750), (494, 33684), (508, 33654), (518, 33624), (534, 33579), (556, 33540), (611, 33360), (623, 33312), (625, 33309), (637, 33273), (656, 33207), (666, 33168), (676, 33147), (683, 33126), (691, 33108), (712, 33042), (770, 32892), (771, 32889), (778, 32853), (785, 32829), (788, 32820), (792, 32808), (812, 32733), (820, 32712),

Gene: Marchy_38 Start: 31191, Stop: 29365, Start Num: 191

Candidate Starts for Marchy_38:

(Start: 191 @31191 has 828 MA's), (274, 30978), (283, 30963), (314, 30885), (322, 30864), (326, 30858), (328, 30849), (365, 30732), (372, 30705), (420, 30612), (428, 30597), (470, 30513), (472, 30510), (494, 30444), (508, 30414), (518, 30384), (534, 30339), (556, 30300), (611, 30120), (618, 30090), (623, 30072), (625, 30069), (637, 30033), (656, 29967), (683, 29886), (685, 29883), (712, 29802), (770, 29652), (771, 29649), (778, 29613), (785, 29589), (788, 29580), (792, 29568), (798, 29541), (812, 29493), (820, 29472),

Gene: Mareelih_171 Start: 99155, Stop: 97374, Start Num: 188

Candidate Starts for Mareelih_171:

(Start: 188 @99155 has 4 MA's), (207, 99110), (216, 99083), (261, 98990), (284, 98930), (288, 98927), (291, 98918), (306, 98894), (317, 98852), (318, 98849), (334, 98804), (351, 98762), (370, 98708), (420, 98624), (464, 98540), (476, 98513), (481, 98498), (539, 98339), (556, 98315), (560, 98300), (565, 98291), (595, 98204), (603, 98177), (604, 98174), (609, 98153), (611, 98132), (624, 98081), (651, 97997), (658, 97970), (664, 97937), (670, 97895), (708, 97784), (719, 97757), (734, 97721), (739, 97712), (740, 97709), (745, 97700), (776, 97580), (781, 97559), (782, 97553), (793, 97520), (796, 97502), (798, 97496), (807, 97463), (812, 97448), (823, 97424), (824, 97421), (838, 97397),

Gene: Marge_45 Start: 35242, Stop: 33455, Start Num: 191

Candidate Starts for Marge_45:

(Start: 191 @35242 has 828 MA's), (274, 35029), (283, 35014), (314, 34936), (322, 34915), (326, 34909), (328, 34900), (355, 34807), (365, 34783), (372, 34756), (420, 34663), (428, 34648), (446, 34615), (470, 34564), (472, 34561), (494, 34495), (508, 34465), (518, 34435), (534, 34390), (556, 34351), (611, 34171), (623, 34123), (637, 34084), (656, 34018), (679, 33946), (683, 33937), (712, 33853), (750, 33766), (785, 33640), (789, 33628), (812, 33544), (814, 33538),

Gene: Margo_44 Start: 31623, Stop: 29785, Start Num: 191

Candidate Starts for Margo_44:

(Start: 191 @31623 has 828 MA's), (209, 31572), (271, 31419), (307, 31347), (314, 31317), (326, 31290), (328, 31281), (372, 31137), (420, 31041), (448, 30993), (476, 30933), (509, 30846), (523, 30801), (532, 30780), (566, 30708), (582, 30666), (592, 30624), (611, 30543), (623, 30495), (637, 30456), (646, 30420), (656, 30390), (664, 30360), (685, 30279), (698, 30240), (704, 30216), (712, 30198), (713, 30195), (760, 30069), (775, 30009), (798, 29922), (812, 29874), (816, 29862), (820, 29853),

Gene: Marie_48 Start: 31852, Stop: 30038, Start Num: 191

Candidate Starts for Marie_48:

(Start: 191 @31852 has 828 MA's), (206, 31813), (209, 31801), (271, 31648), (276, 31633), (307, 31576), (326, 31519), (328, 31510), (340, 31468), (355, 31417), (372, 31366), (420, 31273), (446, 31225), (451, 31216), (458, 31201), (476, 31162), (484, 31135), (494, 31105), (528, 31012), (558, 30952), (565, 30937), (611, 30781), (637, 30694), (656, 30628), (666, 30589), (685, 30517), (698, 30478), (704, 30454), (712, 30436), (726, 30403), (737, 30376), (760, 30322), (775, 30262), (795, 30184), (812, 30127), (816, 30115), (820, 30106),

Gene: Mariokart_50 Start: 45633, Stop: 43816, Start Num: 177

Candidate Starts for Mariokart_50:

(53, 45906), (60, 45873), (Start: 177 @45633 has 10 MA's), (201, 45597), (204, 45585), (205, 45582), (216, 45552), (265, 45426), (289, 45378), (316, 45303), (335, 45246), (366, 45171), (372, 45150), (400, 45057), (460, 44928), (471, 44904), (494, 44838), (511, 44805), (589, 44613), (595, 44592), (601, 44574), (612, 44517), (647, 44403), (651, 44394), (685, 44292), (691, 44277), (717, 44199), (722, 44187), (730, 44166), (733, 44157), (758, 44103), (768, 44070), (775, 44037), (776, 44034), (785, 43998), (793, 43974), (809, 43914), (840, 43842), (847, 43821),

Gene: Marius_49 Start: 31750, Stop: 29936, Start Num: 191

Candidate Starts for Marius_49:

(Start: 191 @31750 has 828 MA's), (206, 31711), (209, 31699), (271, 31546), (276, 31531), (307, 31474), (326, 31417), (328, 31408), (340, 31366), (355, 31315), (372, 31264), (420, 31171), (446, 31123), (458, 31099), (476, 31060), (484, 31033), (494, 31003), (528, 30910), (534, 30898), (558, 30850), (565, 30835), (611, 30679), (625, 30628), (636, 30595), (637, 30592), (656, 30526), (666, 30487), (685, 30415), (698, 30376), (704, 30352), (712, 30334), (726, 30301), (760, 30220), (775, 30160), (779, 30142), (795, 30082), (798, 30073), (812, 30025), (816, 30013), (820, 30004),

Gene: Marley1013_59 Start: 54530, Stop: 52713, Start Num: 183

Candidate Starts for Marley1013_59:

(32, 54914), (80, 54713), (Start: 183 @54530 has 42 MA's), (201, 54500), (274, 54320), (331, 54167), (334, 54155), (343, 54125), (349, 54119), (372, 54056), (375, 54050), (389, 53999), (400, 53963), (414, 53915), (471, 53810), (510, 53714), (533, 53663), (589, 53519), (601, 53480), (608, 53450), (612, 53423), (616, 53411), (645, 53315), (647, 53309), (651, 53300), (655, 53288), (674, 53216), (683, 53186), (691, 53168), (694, 53159), (717, 53090), (722, 53078), (730, 53057), (760, 52988), (765, 52973), (771, 52949), (781, 52904), (793, 52865), (796, 52847), (799, 52835), (805, 52823), (809, 52811), (826, 52769), (840, 52739),

Gene: Maroc7_43 Start: 34287, Stop: 32461, Start Num: 191

Candidate Starts for Maroc7_43:

(Start: 191 @34287 has 828 MA's), (274, 34074), (283, 34059), (307, 34011), (314, 33981), (322, 33960), (326, 33954), (328, 33945), (365, 33828), (372, 33801), (420, 33708), (428, 33693), (446, 33660), (470, 33609), (472, 33606), (494, 33540), (518, 33480), (534, 33435), (556, 33396), (611, 33216), (623, 33168), (637, 33129), (656, 33063), (666, 33024), (676, 33003), (683, 32982), (691, 32964), (712, 32898), (770, 32748), (771, 32745), (778, 32709), (785, 32685), (788, 32676), (792, 32664), (798, 32637), (812, 32589), (820, 32568),

Gene: Marsha_45 Start: 35798, Stop: 33972, Start Num: 191

Candidate Starts for Marsha_45:

(Start: 191 @35798 has 828 MA's), (274, 35585), (283, 35570), (307, 35522), (314, 35492), (322, 35471), (326, 35465), (328, 35456), (365, 35339), (372, 35312), (420, 35219), (428, 35204), (470, 35120), (472, 35117), (494, 35051), (518, 34991), (534, 34946), (556, 34907), (611, 34727), (618, 34697), (623, 34679), (625, 34676), (637, 34640), (656, 34574), (683, 34493), (685, 34490), (712, 34409), (770, 34259), (771, 34256), (778, 34220), (785, 34196), (792, 34175), (798, 34148), (812, 34100), (820, 34079),

Gene: Maru_60 Start: 54462, Stop: 52603, Start Num: 149

Candidate Starts for Maru_60:

(Start: 133 @54486 has 1 MA's), (Start: 149 @54462 has 248 MA's), (Start: 174 @54438 has 5 MA's), (Start: 186 @54432 has 3 MA's), (205, 54390), (212, 54369), (254, 54255), (256, 54249), (269, 54219), (296, 54159), (306, 54138), (323, 54084), (327, 54072), (332, 54054), (335, 54042), (372, 53937), (389, 53880), (400, 53844), (402, 53832), (411, 53805), (432, 53760), (442, 53742), (465, 53703), (469, 53694), (471, 53691), (473, 53688), (607, 53331), (612, 53298), (617, 53277), (647, 53184), (651, 53175), (668, 53112), (683, 53076), (685, 53073), (691, 53058), (717, 52980), (722, 52968), (730, 52947), (748, 52908), (775, 52818), (779, 52800), (781, 52794), (785, 52779), (793, 52755), (795, 52740), (796, 52737), (799, 52725), (809, 52701), (830, 52653), (840, 52629),

Gene: MaryBeth_45 Start: 34704, Stop: 32875, Start Num: 191

Candidate Starts for MaryBeth_45:

(Start: 191 @34704 has 828 MA's), (274, 34491), (283, 34476), (307, 34428), (314, 34398), (322, 34377), (326, 34371), (328, 34362), (340, 34320), (365, 34245), (372, 34218), (420, 34125), (428, 34110), (470, 34026), (472, 34023), (494, 33957), (508, 33927), (518, 33897), (534, 33852), (556, 33813), (611, 33633), (623, 33585), (639, 33537), (651, 33498), (656, 33480), (666, 33441), (676, 33420), (683, 33399), (690, 33384), (733, 33261), (789, 33090), (794, 33066), (808, 33018), (812, 33006), (820, 32985), (823, 32979), (842, 32931), (849, 32916),

Gene: MarysWell_37 Start: 30459, Stop: 28594, Start Num: 191

Candidate Starts for MarysWell_37:

(Start: 191 @30459 has 828 MA's), (209, 30408), (262, 30285), (271, 30255), (272, 30252), (302, 30195), (314, 30153), (326, 30126), (328, 30117), (366, 29997), (372, 29973), (420, 29877), (433, 29853), (444, 29832), (483, 29745), (484, 29739), (496, 29706), (513, 29667), (528, 29619), (534,

29607), (556, 29568), (611, 29373), (618, 29343), (623, 29325), (636, 29289), (637, 29286), (639, 29277), (656, 29220), (666, 29181), (683, 29139), (691, 29121), (704, 29073), (706, 29067), (726, 29022), (750, 28968), (754, 28959), (760, 28941), (779, 28863), (794, 28806), (804, 28770), (812, 28746), (816, 28734),

Gene: Maskar_62 Start: 54257, Stop: 52398, Start Num: 149

Candidate Starts for Maskar_62:

(Start: 133 @54281 has 1 MA's), (Start: 149 @54257 has 248 MA's), (Start: 174 @54233 has 5 MA's), (Start: 186 @54227 has 3 MA's), (205, 54185), (212, 54164), (254, 54050), (256, 54044), (269, 54014), (296, 53954), (306, 53933), (323, 53879), (327, 53867), (332, 53849), (335, 53837), (372, 53732), (389, 53675), (400, 53639), (402, 53627), (410, 53603), (414, 53591), (421, 53573), (432, 53555), (442, 53537), (465, 53498), (469, 53489), (471, 53486), (473, 53483), (576, 53228), (607, 53126), (612, 53093), (617, 53072), (647, 52979), (651, 52970), (668, 52907), (683, 52871), (685, 52868), (691, 52853), (717, 52775), (722, 52763), (730, 52742), (748, 52703), (775, 52613), (779, 52595), (781, 52589), (785, 52574), (793, 52550), (795, 52535), (796, 52532), (799, 52520), (809, 52496), (816, 52475), (830, 52448), (840, 52424),

Gene: MasterPo_57 Start: 52506, Stop: 50677, Start Num: 147

Candidate Starts for MasterPo_57:

(Start: 147 @52506 has 31 MA's), (Start: 186 @52479 has 3 MA's), (202, 52449), (205, 52437), (215, 52410), (216, 52407), (221, 52398), (235, 52380), (272, 52284), (296, 52233), (307, 52209), (312, 52185), (358, 52047), (368, 52023), (372, 52011), (389, 51954), (400, 51918), (402, 51906), (410, 51882), (456, 51798), (469, 51768), (471, 51765), (483, 51735), (542, 51591), (565, 51525), (586, 51486), (589, 51474), (595, 51453), (601, 51435), (612, 51378), (639, 51294), (647, 51264), (651, 51255), (668, 51189), (679, 51162), (683, 51153), (691, 51135), (698, 51111), (717, 51057), (722, 51045), (730, 51024), (760, 50955), (775, 50895), (779, 50877), (789, 50844), (793, 50832), (795, 50817), (796, 50814), (799, 50802), (809, 50778), (810, 50775), (830, 50727), (832, 50724), (840, 50703), (847, 50682),

Gene: Matalotodo_60 Start: 54575, Stop: 52716, Start Num: 149

Candidate Starts for Matalotodo_60:

(Start: 133 @54599 has 1 MA's), (Start: 149 @54575 has 248 MA's), (Start: 174 @54551 has 5 MA's), (Start: 186 @54545 has 3 MA's), (205, 54503), (212, 54482), (254, 54368), (256, 54362), (269, 54332), (296, 54272), (306, 54251), (323, 54197), (327, 54185), (332, 54167), (335, 54155), (372, 54050), (389, 53993), (400, 53957), (402, 53945), (411, 53918), (421, 53891), (432, 53873), (442, 53855), (465, 53816), (469, 53807), (471, 53804), (576, 53546), (607, 53444), (612, 53411), (617, 53390), (647, 53297), (651, 53288), (668, 53225), (683, 53189), (685, 53186), (691, 53171), (717, 53093), (722, 53081), (730, 53060), (748, 53021), (775, 52931), (779, 52913), (781, 52907), (785, 52892), (793, 52868), (795, 52853), (796, 52850), (799, 52838), (809, 52814), (830, 52766), (840, 52742),

Gene: Maureen_42 Start: 31379, Stop: 33223, Start Num: 191

Candidate Starts for Maureen_42:

(Start: 104 @31253 has 1 MA's), (106, 31256), (Start: 191 @31379 has 828 MA's), (314, 31676), (423, 31952), (474, 32054), (481, 32075), (532, 32213), (561, 32276), (611, 32471), (614, 32477), (618, 32501), (637, 32558), (654, 32615), (656, 32624), (691, 32741), (704, 32789), (767, 32948), (770, 32960), (791, 33041), (812, 33119), (831, 33164),

Gene: Maverick_45 Start: 31570, Stop: 29744, Start Num: 191

Candidate Starts for Maverick_45:

(Start: 191 @31570 has 828 MA's), (201, 31549), (209, 31519), (221, 31489), (291, 31327), (300, 31309), (326, 31237), (328, 31228), (366, 31108), (372, 31084), (420, 30991), (448, 30943), (458, 30922), (476, 30883), (523, 30751), (532, 30730), (556, 30685), (559, 30673), (609, 30520), (611,

30499), (646, 30376), (656, 30346), (666, 30307), (683, 30241), (685, 30238), (691, 30223), (698, 30199), (704, 30175), (775, 29968), (812, 29833), (816, 29821), (820, 29812),

Gene: Maxo_46 Start: 31572, Stop: 29746, Start Num: 191

Candidate Starts for Maxo_46:

(Start: 191 @31572 has 828 MA's), (201, 31551), (209, 31521), (221, 31491), (291, 31329), (300, 31311), (326, 31239), (328, 31230), (366, 31110), (372, 31086), (420, 30993), (448, 30945), (458, 30924), (476, 30885), (523, 30753), (532, 30732), (556, 30687), (559, 30675), (609, 30522), (611, 30501), (646, 30378), (656, 30348), (666, 30309), (683, 30243), (685, 30240), (691, 30225), (698, 30201), (704, 30177), (775, 29970), (812, 29835), (816, 29823), (820, 29814),

Gene: Mazhar510_45 Start: 31571, Stop: 29745, Start Num: 191

Candidate Starts for Mazhar510_45:

(Start: 191 @31571 has 828 MA's), (201, 31550), (209, 31520), (221, 31490), (291, 31328), (300, 31310), (326, 31238), (328, 31229), (366, 31109), (372, 31085), (420, 30992), (448, 30944), (458, 30923), (476, 30884), (523, 30752), (532, 30731), (556, 30686), (559, 30674), (609, 30521), (611, 30500), (646, 30377), (656, 30347), (666, 30308), (683, 30242), (685, 30239), (691, 30224), (698, 30200), (704, 30176), (775, 29969), (812, 29834), (816, 29822), (820, 29813),

Gene: McFly_45 Start: 29627, Stop: 27786, Start Num: 191

Candidate Starts for McFly_45:

(Start: 191 @29627 has 828 MA's), (271, 29423), (307, 29348), (308, 29345), (314, 29318), (319, 29303), (326, 29291), (340, 29240), (368, 29150), (372, 29138), (420, 29045), (441, 29006), (451, 28988), (458, 28973), (484, 28907), (496, 28874), (498, 28871), (535, 28769), (565, 28709), (592, 28625), (611, 28544), (636, 28460), (637, 28457), (639, 28448), (646, 28421), (656, 28391), (676, 28331), (691, 28292), (770, 28076), (771, 28073), (775, 28052), (812, 27917), (816, 27905), (820, 27896), (821, 27893), (859, 27800),

Gene: McGuire_45 Start: 34382, Stop: 32553, Start Num: 191

Candidate Starts for McGuire_45:

(Start: 191 @34382 has 828 MA's), (274, 34169), (307, 34106), (314, 34076), (322, 34055), (326, 34049), (328, 34040), (365, 33923), (372, 33896), (420, 33803), (428, 33788), (446, 33755), (470, 33704), (472, 33701), (490, 33647), (494, 33635), (508, 33605), (518, 33575), (534, 33530), (556, 33491), (611, 33311), (623, 33263), (639, 33215), (651, 33176), (656, 33158), (666, 33119), (676, 33098), (683, 33077), (690, 33062), (733, 32939), (789, 32768), (794, 32744), (808, 32696), (812, 32684), (820, 32663), (823, 32657), (842, 32609), (849, 32594),

Gene: Mcshane_59 Start: 54021, Stop: 52162, Start Num: 149

Candidate Starts for Mcshane_59:

(Start: 133 @54045 has 1 MA's), (Start: 149 @54021 has 248 MA's), (Start: 174 @53997 has 5 MA's), (Start: 186 @53991 has 3 MA's), (205, 53949), (212, 53928), (254, 53814), (256, 53808), (269, 53778), (296, 53718), (306, 53697), (323, 53643), (327, 53631), (332, 53613), (335, 53601), (372, 53496), (389, 53439), (400, 53403), (402, 53391), (411, 53364), (421, 53337), (432, 53319), (442, 53301), (465, 53262), (469, 53253), (471, 53250), (576, 52992), (607, 52890), (612, 52857), (617, 52836), (647, 52743), (651, 52734), (668, 52671), (683, 52635), (685, 52632), (691, 52617), (717, 52539), (722, 52527), (730, 52506), (748, 52467), (775, 52377), (779, 52359), (781, 52353), (785, 52338), (793, 52314), (795, 52299), (796, 52296), (799, 52284), (809, 52260), (830, 52212), (840, 52188),

Gene: Mecca_60 Start: 54586, Stop: 52727, Start Num: 149

Candidate Starts for Mecca_60:

(Start: 133 @54610 has 1 MA's), (Start: 149 @54586 has 248 MA's), (Start: 174 @54562 has 5 MA's), (Start: 186 @54556 has 3 MA's), (205, 54514), (212, 54493), (254, 54379), (256, 54373), (269,

54343), (296, 54283), (306, 54262), (323, 54208), (327, 54196), (332, 54178), (335, 54166), (372, 54061), (389, 54004), (400, 53968), (402, 53956), (410, 53932), (414, 53920), (421, 53902), (432, 53884), (442, 53866), (465, 53827), (469, 53818), (471, 53815), (473, 53812), (607, 53455), (612, 53422), (617, 53401), (647, 53308), (651, 53299), (668, 53236), (683, 53200), (685, 53197), (691, 53182), (717, 53104), (722, 53092), (730, 53071), (748, 53032), (775, 52942), (779, 52924), (781, 52918), (785, 52903), (793, 52879), (795, 52864), (796, 52861), (799, 52849), (809, 52825), (830, 52777), (840, 52753),

Gene: Medusa_45 Start: 31569, Stop: 29743, Start Num: 191

Candidate Starts for Medusa_45:

(Start: 191 @31569 has 828 MA's), (201, 31548), (209, 31518), (221, 31488), (291, 31326), (300, 31308), (326, 31236), (328, 31227), (366, 31107), (372, 31083), (420, 30990), (448, 30942), (458, 30921), (476, 30882), (523, 30750), (532, 30729), (556, 30684), (559, 30672), (609, 30519), (611, 30498), (646, 30375), (656, 30345), (666, 30306), (683, 30240), (685, 30237), (691, 30222), (698, 30198), (704, 30174), (775, 29967), (812, 29832), (816, 29820), (820, 29811),

Gene: MeeZee_45 Start: 31567, Stop: 29741, Start Num: 191

Candidate Starts for MeeZee_45:

(Start: 191 @31567 has 828 MA's), (201, 31546), (209, 31516), (221, 31486), (291, 31324), (300, 31306), (326, 31234), (328, 31225), (366, 31105), (372, 31081), (420, 30988), (448, 30940), (458, 30919), (476, 30880), (523, 30748), (532, 30727), (556, 30682), (559, 30670), (609, 30517), (611, 30496), (646, 30373), (656, 30343), (666, 30304), (683, 30238), (685, 30235), (691, 30220), (698, 30196), (704, 30172), (775, 29965), (812, 29830), (816, 29818), (820, 29809),

Gene: Megamind20_61 Start: 54009, Stop: 52150, Start Num: 149

Candidate Starts for Megamind20_61:

(Start: 133 @54033 has 1 MA's), (Start: 149 @54009 has 248 MA's), (Start: 174 @53985 has 5 MA's), (Start: 186 @53979 has 3 MA's), (205, 53937), (212, 53916), (254, 53802), (256, 53796), (269, 53766), (296, 53706), (306, 53685), (323, 53631), (327, 53619), (332, 53601), (335, 53589), (372, 53484), (389, 53427), (400, 53391), (402, 53379), (411, 53352), (421, 53325), (432, 53307), (442, 53289), (465, 53250), (469, 53241), (471, 53238), (576, 52980), (607, 52878), (612, 52845), (617, 52824), (647, 52731), (651, 52722), (668, 52659), (683, 52623), (685, 52620), (691, 52605), (717, 52527), (722, 52515), (730, 52494), (748, 52455), (775, 52365), (779, 52347), (781, 52341), (785, 52326), (793, 52302), (795, 52287), (796, 52284), (799, 52272), (809, 52248), (830, 52200), (840, 52176),

Gene: Megatron_61 Start: 54535, Stop: 52676, Start Num: 149

Candidate Starts for Megatron_61:

(Start: 133 @54559 has 1 MA's), (Start: 149 @54535 has 248 MA's), (Start: 174 @54511 has 5 MA's), (Start: 186 @54505 has 3 MA's), (205, 54463), (212, 54442), (254, 54328), (256, 54322), (269, 54292), (296, 54232), (306, 54211), (323, 54157), (327, 54145), (332, 54127), (335, 54115), (372, 54010), (389, 53953), (400, 53917), (402, 53905), (411, 53878), (421, 53851), (432, 53833), (442, 53815), (465, 53776), (469, 53767), (471, 53764), (576, 53506), (607, 53404), (612, 53371), (617, 53350), (647, 53257), (651, 53248), (668, 53185), (683, 53149), (685, 53146), (691, 53131), (717, 53053), (722, 53041), (730, 53020), (748, 52981), (775, 52891), (779, 52873), (781, 52867), (785, 52852), (793, 52828), (795, 52813), (796, 52810), (799, 52798), (809, 52774), (830, 52726), (840, 52702),

Gene: Melc17_60 Start: 54852, Stop: 52993, Start Num: 149

Candidate Starts for Melc17_60:

(Start: 133 @54876 has 1 MA's), (Start: 149 @54852 has 248 MA's), (Start: 174 @54828 has 5 MA's), (Start: 186 @54822 has 3 MA's), (205, 54780), (212, 54759), (254, 54645), (256, 54639), (269, 54609), (296, 54549), (306, 54528), (323, 54474), (327, 54462), (332, 54444), (335, 54432), (372,

54327), (389, 54270), (400, 54234), (402, 54222), (410, 54198), (414, 54186), (421, 54168), (432, 54150), (442, 54132), (465, 54093), (469, 54084), (471, 54081), (473, 54078), (607, 53721), (612, 53688), (617, 53667), (647, 53574), (651, 53565), (668, 53502), (683, 53466), (685, 53463), (691, 53448), (717, 53370), (722, 53358), (730, 53337), (748, 53298), (775, 53208), (779, 53190), (781, 53184), (785, 53169), (793, 53145), (795, 53130), (796, 53127), (799, 53115), (809, 53091), (830, 53043), (840, 53019),

Gene: MelsMeow_61 Start: 54310, Stop: 52451, Start Num: 149

Candidate Starts for MelsMeow_61:

(Start: 133 @54334 has 1 MA's), (Start: 149 @54310 has 248 MA's), (Start: 174 @54286 has 5 MA's), (Start: 186 @54280 has 3 MA's), (205, 54238), (212, 54217), (254, 54103), (256, 54097), (269, 54067), (296, 54007), (306, 53986), (323, 53932), (327, 53920), (332, 53902), (335, 53890), (372, 53785), (389, 53728), (400, 53692), (402, 53680), (411, 53653), (432, 53608), (465, 53551), (469, 53542), (471, 53539), (576, 53281), (607, 53179), (612, 53146), (617, 53125), (647, 53032), (651, 53023), (668, 52960), (683, 52924), (685, 52921), (691, 52906), (717, 52828), (722, 52816), (730, 52795), (748, 52756), (775, 52666), (779, 52648), (781, 52642), (785, 52627), (793, 52603), (795, 52588), (796, 52585), (799, 52573), (809, 52549), (816, 52528), (830, 52501), (840, 52477), (845, 52462),

Gene: Melvin_47 Start: 31565, Stop: 29739, Start Num: 191

Candidate Starts for Melvin_47:

(Start: 191 @31565 has 828 MA's), (201, 31544), (209, 31514), (221, 31484), (291, 31322), (300, 31304), (326, 31232), (328, 31223), (366, 31103), (372, 31079), (420, 30986), (448, 30938), (458, 30917), (476, 30878), (523, 30746), (532, 30725), (556, 30680), (559, 30668), (609, 30515), (611, 30494), (646, 30371), (656, 30341), (666, 30302), (683, 30236), (685, 30233), (691, 30218), (698, 30194), (704, 30170), (775, 29963), (812, 29828), (816, 29816), (820, 29807),

Gene: Mesh1_62 Start: 54599, Stop: 52740, Start Num: 149

Candidate Starts for Mesh1_62:

(Start: 133 @54623 has 1 MA's), (Start: 149 @54599 has 248 MA's), (Start: 174 @54575 has 5 MA's), (Start: 186 @54569 has 3 MA's), (205, 54527), (212, 54506), (254, 54392), (256, 54386), (269, 54356), (296, 54296), (306, 54275), (323, 54221), (327, 54209), (332, 54191), (335, 54179), (372, 54074), (389, 54017), (400, 53981), (402, 53969), (411, 53942), (421, 53915), (432, 53897), (442, 53879), (465, 53840), (469, 53831), (471, 53828), (576, 53570), (607, 53468), (612, 53435), (617, 53414), (647, 53321), (651, 53312), (668, 53249), (683, 53213), (685, 53210), (691, 53195), (717, 53117), (722, 53105), (730, 53084), (748, 53045), (775, 52955), (779, 52937), (781, 52931), (785, 52916), (793, 52892), (795, 52877), (796, 52874), (799, 52862), (809, 52838), (830, 52790), (840, 52766),

Gene: MetalQZJ_44 Start: 34704, Stop: 32875, Start Num: 191

Candidate Starts for MetalQZJ_44:

(Start: 191 @34704 has 828 MA's), (274, 34491), (283, 34476), (307, 34428), (314, 34398), (322, 34377), (326, 34371), (328, 34362), (340, 34320), (365, 34245), (372, 34218), (420, 34125), (428, 34110), (470, 34026), (472, 34023), (494, 33957), (508, 33927), (518, 33897), (534, 33852), (556, 33813), (611, 33633), (623, 33585), (639, 33537), (651, 33498), (656, 33480), (666, 33441), (676, 33420), (683, 33399), (690, 33384), (733, 33261), (789, 33090), (794, 33066), (808, 33018), (812, 33006), (820, 32985), (823, 32979), (842, 32931), (849, 32916),

Gene: Methuselah_45 Start: 31880, Stop: 30066, Start Num: 191

Candidate Starts for Methuselah_45:

(Start: 191 @31880 has 828 MA's), (206, 31841), (209, 31829), (271, 31676), (276, 31661), (307, 31604), (326, 31547), (328, 31538), (340, 31496), (355, 31445), (372, 31394), (405, 31340), (420, 31301), (446, 31253), (458, 31229), (476, 31190), (484, 31163), (494, 31133), (528, 31040), (534,

31028), (558, 30980), (565, 30965), (611, 30809), (625, 30758), (636, 30725), (637, 30722), (656, 30656), (666, 30617), (685, 30545), (698, 30506), (704, 30482), (712, 30464), (726, 30431), (760, 30350), (775, 30290), (798, 30203), (812, 30155), (816, 30143), (820, 30134), (821, 30131),

Gene: Micasa_39 Start: 30726, Stop: 28861, Start Num: 191

Candidate Starts for Micasa_39:

(Start: 191 @30726 has 828 MA's), (209, 30675), (235, 30615), (262, 30552), (271, 30522), (272, 30519), (302, 30462), (307, 30450), (314, 30420), (326, 30393), (372, 30240), (420, 30144), (446, 30096), (483, 30012), (484, 30006), (513, 29934), (523, 29901), (528, 29886), (534, 29874), (576, 29775), (611, 29640), (618, 29610), (623, 29592), (625, 29589), (637, 29553), (639, 29544), (646, 29517), (656, 29487), (666, 29448), (683, 29406), (691, 29388), (704, 29340), (726, 29289), (750, 29235), (754, 29226), (760, 29208), (775, 29148), (779, 29130), (804, 29037), (812, 29013), (816, 29001), (859, 28896),

Gene: MichaelPhcott_61 Start: 54184, Stop: 52325, Start Num: 149

Candidate Starts for MichaelPhcott_61:

(Start: 133 @54208 has 1 MA's), (Start: 149 @54184 has 248 MA's), (Start: 174 @54160 has 5 MA's), (Start: 186 @54154 has 3 MA's), (205, 54112), (212, 54091), (254, 53977), (256, 53971), (269, 53941), (296, 53881), (306, 53860), (323, 53806), (327, 53794), (332, 53776), (335, 53764), (372, 53659), (389, 53602), (400, 53566), (402, 53554), (410, 53530), (414, 53518), (421, 53500), (432, 53482), (442, 53464), (465, 53425), (469, 53416), (471, 53413), (473, 53410), (607, 53053), (612, 53020), (617, 52999), (647, 52906), (651, 52897), (668, 52834), (683, 52798), (685, 52795), (691, 52780), (717, 52702), (722, 52690), (730, 52669), (748, 52630), (775, 52540), (779, 52522), (781, 52516), (785, 52501), (793, 52477), (795, 52462), (796, 52459), (799, 52447), (809, 52423), (830, 52375), (840, 52351),

Gene: Michley_44 Start: 34222, Stop: 32396, Start Num: 191

Candidate Starts for Michley_44:

(Start: 191 @34222 has 828 MA's), (274, 34009), (314, 33916), (322, 33895), (326, 33889), (328, 33880), (365, 33763), (372, 33736), (420, 33643), (428, 33628), (446, 33595), (470, 33544), (472, 33541), (494, 33475), (508, 33445), (518, 33415), (534, 33370), (556, 33331), (611, 33151), (623, 33103), (637, 33064), (656, 32998), (666, 32959), (676, 32938), (683, 32917), (691, 32899), (712, 32833), (770, 32683), (771, 32680), (778, 32644), (785, 32620), (788, 32611), (792, 32599), (812, 32524), (820, 32503),

Gene: Microwolf_48 Start: 31854, Stop: 30040, Start Num: 191

Candidate Starts for Microwolf_48:

(Start: 191 @31854 has 828 MA's), (206, 31815), (209, 31803), (271, 31650), (276, 31635), (307, 31578), (326, 31521), (328, 31512), (340, 31470), (355, 31419), (372, 31368), (420, 31275), (446, 31227), (451, 31218), (458, 31203), (476, 31164), (484, 31137), (494, 31107), (528, 31014), (534, 31002), (558, 30954), (565, 30939), (611, 30783), (637, 30696), (656, 30630), (666, 30591), (685, 30519), (698, 30480), (704, 30456), (712, 30438), (726, 30405), (737, 30378), (760, 30324), (775, 30264), (795, 30186), (812, 30129), (816, 30117), (820, 30108),

Gene: MiculUcigas_44 Start: 31260, Stop: 29473, Start Num: 191

Candidate Starts for MiculUcigas_44:

(Start: 191 @31260 has 828 MA's), (271, 31056), (272, 31053), (274, 31047), (291, 31017), (307, 30984), (308, 30981), (314, 30954), (326, 30927), (340, 30876), (372, 30774), (420, 30681), (446, 30633), (451, 30624), (458, 30609), (484, 30543), (515, 30462), (532, 30414), (592, 30270), (611, 30189), (625, 30138), (636, 30105), (656, 30036), (666, 29997), (676, 29976), (683, 29955), (689, 29943), (758, 29763), (760, 29757), (770, 29721), (775, 29697), (795, 29619), (812, 29562), (816, 29550),

Gene: Midas2_38 Start: 30444, Stop: 28579, Start Num: 191

Candidate Starts for Midas2_38:

(Start: 191 @30444 has 828 MA's), (209, 30393), (235, 30333), (262, 30270), (271, 30240), (272, 30237), (302, 30180), (307, 30168), (314, 30138), (326, 30111), (372, 29958), (420, 29862), (446, 29814), (483, 29730), (484, 29724), (496, 29691), (513, 29652), (523, 29619), (528, 29604), (534, 29592), (576, 29493), (611, 29358), (618, 29328), (623, 29310), (625, 29307), (637, 29271), (639, 29262), (646, 29235), (656, 29205), (666, 29166), (683, 29124), (691, 29106), (704, 29058), (726, 29007), (750, 28953), (754, 28944), (760, 28926), (775, 28866), (779, 28848), (804, 28755), (812, 28731), (816, 28719), (859, 28614),

Gene: Miko_43 Start: 31812, Stop: 30025, Start Num: 191

Candidate Starts for Miko_43:

(Start: 191 @31812 has 828 MA's), (272, 31605), (274, 31599), (291, 31569), (307, 31536), (308, 31533), (319, 31491), (326, 31479), (372, 31326), (420, 31233), (446, 31185), (451, 31176), (458, 31161), (484, 31095), (532, 30966), (592, 30822), (611, 30741), (625, 30690), (636, 30657), (637, 30654), (656, 30588), (666, 30549), (676, 30528), (701, 30453), (704, 30441), (726, 30390), (737, 30363), (754, 30327), (760, 30309), (770, 30273), (775, 30249), (795, 30171), (812, 30114), (816, 30102), (820, 30093),

Gene: Mikota_59 Start: 53562, Stop: 51703, Start Num: 149

Candidate Starts for Mikota_59:

(Start: 133 @53586 has 1 MA's), (Start: 149 @53562 has 248 MA's), (Start: 174 @53538 has 5 MA's), (Start: 186 @53532 has 3 MA's), (201, 53505), (205, 53490), (212, 53469), (254, 53355), (256, 53349), (269, 53319), (296, 53259), (306, 53238), (323, 53184), (327, 53172), (332, 53154), (335, 53142), (372, 53037), (389, 52980), (400, 52944), (402, 52932), (411, 52905), (432, 52860), (465, 52803), (469, 52794), (471, 52791), (473, 52788), (607, 52431), (612, 52398), (617, 52377), (647, 52284), (651, 52275), (668, 52212), (683, 52176), (685, 52173), (691, 52158), (717, 52080), (722, 52068), (730, 52047), (748, 52008), (775, 51918), (779, 51900), (781, 51894), (785, 51879), (793, 51855), (795, 51840), (796, 51837), (799, 51825), (809, 51801), (830, 51753), (840, 51729),

Gene: Milcery_39 Start: 30563, Stop: 28704, Start Num: 191

Candidate Starts for Milcery_39:

(Start: 191 @30563 has 828 MA's), (209, 30512), (235, 30452), (262, 30389), (271, 30359), (272, 30356), (302, 30299), (307, 30287), (314, 30257), (326, 30230), (372, 30077), (420, 29981), (438, 29948), (446, 29933), (483, 29849), (484, 29843), (513, 29771), (523, 29738), (528, 29723), (534, 29711), (576, 29612), (611, 29477), (618, 29447), (623, 29429), (625, 29426), (637, 29390), (639, 29381), (644, 29360), (647, 29351), (656, 29324), (657, 29321), (676, 29264), (683, 29243), (726, 29126), (750, 29072), (754, 29063), (760, 29045), (775, 28985), (779, 28967), (804, 28874), (812, 28850), (816, 28838), (865, 28721), (866, 28718),

Gene: Millski_44 Start: 31571, Stop: 29745, Start Num: 191

Candidate Starts for Millski_44:

(Start: 191 @31571 has 828 MA's), (201, 31550), (209, 31520), (221, 31490), (291, 31328), (300, 31310), (326, 31238), (328, 31229), (366, 31109), (372, 31085), (420, 30992), (448, 30944), (458, 30923), (476, 30884), (523, 30752), (532, 30731), (556, 30686), (559, 30674), (609, 30521), (611, 30500), (646, 30377), (656, 30347), (666, 30308), (683, 30242), (685, 30239), (691, 30224), (698, 30200), (704, 30176), (775, 29969), (812, 29834), (816, 29822), (820, 29813),

Gene: Mimi_105 Start: 77797, Stop: 79593, Start Num: 194

Candidate Starts for Mimi_105:

(Start: 194 @77797 has 1 MA's), (235, 77893), (327, 78109), (334, 78136), (336, 78142), (365, 78211), (376, 78247), (464, 78394), (465, 78400), (476, 78421), (481, 78436), (556, 78625), (572, 78670), (584, 78703), (588, 78721), (597, 78754), (609, 78793), (611, 78814), (614, 78820), (644,

78934), (665, 79018), (667, 79024), (669, 79036), (680, 79084), (686, 79096), (698, 79132), (708, 79165), (712, 79174), (730, 79219), (738, 79237), (765, 79321), (770, 79342), (776, 79369), (779, 79384), (789, 79417), (794, 79441), (800, 79465), (812, 79501), (823, 79528),

Gene: MinecraftSteve_48 Start: 29943, Stop: 28153, Start Num: 191

Candidate Starts for MinecraftSteve_48:

(Start: 191 @29943 has 828 MA's), (262, 29769), (307, 29664), (308, 29661), (314, 29634), (326, 29607), (340, 29556), (372, 29454), (420, 29361), (441, 29322), (451, 29304), (523, 29115), (556, 29049), (583, 28989), (592, 28950), (607, 28899), (609, 28890), (611, 28869), (625, 28818), (636, 28785), (646, 28746), (656, 28716), (676, 28656), (683, 28635), (698, 28593), (705, 28566), (750, 28464), (770, 28401), (771, 28398), (812, 28242), (816, 28230), (821, 28218),

Gene: MiniBoss_58 Start: 53368, Stop: 51509, Start Num: 149

Candidate Starts for MiniBoss_58:

(Start: 133 @53392 has 1 MA's), (Start: 149 @53368 has 248 MA's), (Start: 174 @53344 has 5 MA's), (Start: 186 @53338 has 3 MA's), (201, 53311), (205, 53296), (212, 53275), (254, 53161), (256, 53155), (269, 53125), (296, 53065), (306, 53044), (323, 52990), (327, 52978), (332, 52960), (335, 52948), (372, 52843), (389, 52786), (400, 52750), (402, 52738), (411, 52711), (414, 52702), (432, 52666), (465, 52609), (469, 52600), (471, 52597), (473, 52594), (607, 52237), (612, 52204), (617, 52183), (647, 52090), (651, 52081), (668, 52018), (683, 51982), (685, 51979), (691, 51964), (717, 51886), (722, 51874), (730, 51853), (748, 51814), (775, 51724), (779, 51706), (781, 51700), (785, 51685), (793, 51661), (795, 51646), (796, 51643), (799, 51631), (809, 51607), (830, 51559), (840, 51535),

Gene: MiniMommy_47 Start: 30558, Stop: 32420, Start Num: 191

Candidate Starts for MiniMommy_47:

(121, 30459), (130, 30477), (Start: 191 @30558 has 828 MA's), (208, 30606), (272, 30765), (274, 30771), (322, 30876), (336, 30921), (415, 31128), (476, 31257), (515, 31362), (532, 31410), (567, 31494), (611, 31668), (636, 31752), (644, 31785), (647, 31794), (663, 31845), (680, 31914), (720, 32025), (752, 32094), (754, 32100), (781, 32205), (812, 32316),

Gene: Miramae_44 Start: 31710, Stop: 29881, Start Num: 191

Candidate Starts for Miramae_44:

(Start: 191 @31710 has 828 MA's), (209, 31659), (221, 31629), (291, 31467), (300, 31449), (326, 31377), (328, 31368), (366, 31248), (372, 31224), (420, 31131), (448, 31083), (476, 31023), (490, 30978), (523, 30891), (532, 30870), (556, 30825), (559, 30813), (611, 30639), (639, 30543), (646, 30516), (647, 30513), (656, 30486), (666, 30447), (683, 30378), (685, 30375), (691, 30360), (698, 30336), (702, 30318), (704, 30312), (706, 30306), (775, 30105), (812, 29970), (816, 29958), (820, 29949),

Gene: Mischief19_57 Start: 49917, Stop: 47956, Start Num: 93

Candidate Starts for Mischief19_57:

(Start: 93 @49917 has 10 MA's), (Start: 132 @49848 has 1 MA's), (187, 49770), (203, 49734), (209, 49716), (238, 49644), (248, 49611), (295, 49494), (330, 49428), (350, 49362), (368, 49311), (372, 49299), (407, 49185), (424, 49137), (437, 49116), (483, 49026), (511, 48957), (514, 48948), (531, 48906), (543, 48876), (550, 48861), (557, 48837), (580, 48792), (598, 48732), (605, 48705), (616, 48654), (619, 48633), (622, 48621), (640, 48582), (652, 48552), (663, 48522), (668, 48501), (678, 48474), (684, 48459), (699, 48414), (701, 48405), (718, 48363), (727, 48342), (748, 48300), (758, 48273), (768, 48231), (781, 48180), (789, 48156), (793, 48144), (795, 48129), (813, 48072), (825, 48051), (833, 48033),

Gene: Misomonster_49 Start: 31883, Stop: 30069, Start Num: 191

Candidate Starts for Misomonster_49:

(Start: 191 @31883 has 828 MA's), (206, 31844), (209, 31832), (271, 31679), (276, 31664), (307, 31607), (326, 31550), (328, 31541), (340, 31499), (355, 31448), (372, 31397), (405, 31343), (420, 31304), (446, 31256), (458, 31232), (476, 31193), (484, 31166), (494, 31136), (528, 31043), (534, 31031), (558, 30983), (565, 30968), (611, 30812), (625, 30761), (636, 30728), (637, 30725), (656, 30659), (666, 30620), (685, 30548), (698, 30509), (704, 30485), (712, 30467), (726, 30434), (760, 30353), (775, 30293), (798, 30206), (812, 30158), (816, 30146), (820, 30137), (821, 30134),

Gene: MissSwiss_41 Start: 28328, Stop: 30193, Start Num: 191

Candidate Starts for MissSwiss_41:

(Start: 191 @28328 has 828 MA's), (208, 28376), (262, 28502), (314, 28625), (343, 28715), (423, 28922), (428, 28931), (476, 29030), (481, 29045), (496, 29090), (532, 29183), (583, 29321), (611, 29441), (618, 29471), (631, 29504), (632, 29507), (637, 29528), (656, 29594), (680, 29687), (704, 29759), (752, 29867), (770, 29930), (812, 30089), (815, 30098),

Gene: MissWhite_43 Start: 29746, Stop: 27959, Start Num: 191

Candidate Starts for MissWhite_43:

(Start: 191 @29746 has 828 MA's), (271, 29542), (272, 29539), (274, 29533), (291, 29503), (302, 29482), (306, 29473), (307, 29470), (314, 29440), (326, 29413), (331, 29392), (340, 29362), (372, 29260), (420, 29167), (446, 29119), (451, 29110), (458, 29095), (484, 29029), (523, 28921), (532, 28900), (611, 28675), (625, 28624), (639, 28579), (656, 28522), (666, 28483), (676, 28462), (701, 28387), (706, 28369), (726, 28324), (754, 28261), (758, 28249), (770, 28207), (775, 28183), (791, 28126), (795, 28105), (812, 28048), (816, 28036), (820, 28027),

Gene: MitKao_60 Start: 54033, Stop: 52174, Start Num: 149

Candidate Starts for MitKao_60:

(Start: 133 @54057 has 1 MA's), (Start: 149 @54033 has 248 MA's), (Start: 174 @54009 has 5 MA's), (Start: 186 @54003 has 3 MA's), (205, 53961), (212, 53940), (254, 53826), (256, 53820), (269, 53790), (296, 53730), (306, 53709), (323, 53655), (327, 53643), (332, 53625), (335, 53613), (372, 53508), (389, 53451), (400, 53415), (402, 53403), (411, 53376), (432, 53331), (465, 53274), (469, 53265), (471, 53262), (607, 52902), (612, 52869), (617, 52848), (647, 52755), (651, 52746), (668, 52683), (683, 52647), (685, 52644), (691, 52629), (717, 52551), (722, 52539), (730, 52518), (748, 52479), (775, 52389), (779, 52371), (781, 52365), (785, 52350), (793, 52326), (795, 52311), (796, 52308), (799, 52296), (809, 52272), (830, 52224), (840, 52200),

Gene: Mithril_53 Start: 54005, Stop: 52182, Start Num: 141

Candidate Starts for Mithril_53:

(Start: 128 @54023 has 3 MA's), (Start: 141 @54005 has 23 MA's), (Start: 186 @53981 has 3 MA's), (205, 53939), (212, 53918), (246, 53831), (293, 53726), (306, 53699), (310, 53684), (332, 53618), (341, 53588), (343, 53579), (347, 53576), (349, 53573), (389, 53453), (395, 53435), (400, 53417), (402, 53405), (411, 53378), (442, 53315), (465, 53276), (469, 53267), (471, 53264), (483, 53234), (494, 53198), (576, 53012), (589, 52973), (590, 52970), (601, 52934), (607, 52910), (612, 52877), (645, 52769), (647, 52763), (651, 52754), (683, 52655), (685, 52652), (691, 52637), (717, 52559), (722, 52547), (730, 52526), (733, 52517), (748, 52487), (760, 52457), (768, 52430), (775, 52397), (781, 52373), (793, 52334), (796, 52316), (799, 52304), (809, 52280), (826, 52238), (830, 52232), (840, 52208),

Gene: MmasiCarm_59 Start: 54089, Stop: 52272, Start Num: 183

Candidate Starts for MmasiCarm_59:

(80, 54272), (Start: 183 @54089 has 42 MA's), (201, 54059), (274, 53879), (331, 53726), (334, 53714), (343, 53684), (349, 53678), (372, 53615), (375, 53609), (389, 53558), (398, 53531), (400, 53522), (414, 53474), (471, 53369), (510, 53273), (533, 53222), (589, 53078), (601, 53039), (608, 53009), (612, 52982), (616, 52970), (645, 52874), (647, 52868), (651, 52859), (655, 52847), (674, 52775), (683, 52745), (691, 52727), (694, 52718), (717, 52649), (722, 52637), (730, 52616), (760,

52547), (765, 52532), (771, 52508), (775, 52487), (779, 52469), (781, 52463), (791, 52430), (793, 52424), (796, 52406), (799, 52394), (805, 52382), (809, 52370), (826, 52328), (840, 52298),

Gene: Molivia_56 Start: 35308, Stop: 33140, Start Num: 86

Candidate Starts for Molivia_56:

(Start: 86 @35308 has 11 MA's), (97, 35281), (106, 35254), (160, 35170), (216, 35062), (226, 35044), (228, 35041), (235, 35017), (244, 34981), (246, 34975), (256, 34951), (258, 34942), (278, 34885), (287, 34876), (292, 34864), (301, 34846), (303, 34843), (346, 34693), (348, 34690), (362, 34651), (422, 34456), (430, 34444), (459, 34393), (462, 34387), (468, 34372), (476, 34357), (485, 34330), (541, 34174), (550, 34150), (605, 33988), (615, 33940), (620, 33907), (629, 33883), (641, 33841), (660, 33766), (674, 33706), (700, 33628), (701, 33622), (714, 33589), (741, 33526), (744, 33520), (759, 33481), (770, 33433), (777, 33403), (790, 33349), (793, 33340), (803, 33298), (809, 33280), (813, 33268), (823, 33244), (828, 33229), (843, 33187),

Gene: Molly_45 Start: 33982, Stop: 32153, Start Num: 191

Candidate Starts for Molly_45:

(Start: 191 @33982 has 828 MA's), (274, 33769), (283, 33754), (307, 33706), (314, 33676), (322, 33655), (326, 33649), (328, 33640), (365, 33523), (372, 33496), (420, 33403), (428, 33388), (439, 33367), (470, 33304), (472, 33301), (494, 33235), (518, 33175), (534, 33130), (556, 33091), (611, 32911), (623, 32863), (639, 32815), (651, 32776), (656, 32758), (666, 32719), (676, 32698), (683, 32677), (690, 32662), (733, 32539), (789, 32368), (794, 32344), (808, 32296), (812, 32284), (820, 32263), (823, 32257), (842, 32209), (849, 32194),

Gene: Monet_48 Start: 36234, Stop: 34408, Start Num: 191

Candidate Starts for Monet_48:

(Start: 191 @36234 has 828 MA's), (274, 36021), (283, 36006), (314, 35928), (322, 35907), (326, 35901), (328, 35892), (365, 35775), (372, 35748), (420, 35655), (428, 35640), (470, 35556), (472, 35553), (494, 35487), (508, 35457), (518, 35427), (534, 35382), (556, 35343), (611, 35163), (623, 35115), (637, 35076), (656, 35010), (666, 34971), (676, 34950), (683, 34929), (691, 34911), (712, 34845), (770, 34695), (771, 34692), (778, 34656), (785, 34632), (792, 34611), (798, 34584), (812, 34536), (820, 34515),

Gene: MoneyMay_48 Start: 31852, Stop: 30038, Start Num: 191

Candidate Starts for MoneyMay_48:

(Start: 191 @31852 has 828 MA's), (206, 31813), (209, 31801), (271, 31648), (276, 31633), (307, 31576), (326, 31519), (328, 31510), (340, 31468), (355, 31417), (372, 31366), (420, 31273), (446, 31225), (451, 31216), (458, 31201), (476, 31162), (484, 31135), (494, 31105), (528, 31012), (558, 30952), (565, 30937), (611, 30781), (637, 30694), (656, 30628), (666, 30589), (685, 30517), (698, 30478), (704, 30454), (712, 30436), (726, 30403), (737, 30376), (760, 30322), (775, 30262), (795, 30184), (812, 30127), (816, 30115), (820, 30106),

Gene: Moose_44 Start: 34479, Stop: 32653, Start Num: 191

Candidate Starts for Moose_44:

(Start: 191 @34479 has 828 MA's), (274, 34266), (283, 34251), (314, 34173), (322, 34152), (326, 34146), (328, 34137), (365, 34020), (372, 33993), (420, 33900), (428, 33885), (439, 33864), (446, 33852), (470, 33801), (472, 33798), (494, 33732), (508, 33702), (518, 33672), (534, 33627), (556, 33588), (611, 33408), (623, 33360), (637, 33321), (656, 33255), (666, 33216), (676, 33195), (683, 33174), (691, 33156), (712, 33090), (770, 32940), (771, 32937), (778, 32901), (785, 32877), (788, 32868), (792, 32856), (812, 32781), (820, 32760),

Gene: Morgushi_60 Start: 54022, Stop: 52163, Start Num: 149

Candidate Starts for Morgushi_60:

(Start: 133 @54046 has 1 MA's), (Start: 149 @54022 has 248 MA's), (Start: 174 @53998 has 5 MA's), (Start: 186 @53992 has 3 MA's), (205, 53950), (212, 53929), (254, 53815), (256, 53809), (269, 53779), (296, 53719), (306, 53698), (323, 53644), (327, 53632), (332, 53614), (335, 53602), (372, 53497), (389, 53440), (400, 53404), (402, 53392), (411, 53365), (432, 53320), (465, 53263), (469, 53254), (471, 53251), (607, 52891), (612, 52858), (617, 52837), (647, 52744), (651, 52735), (668, 52672), (683, 52636), (685, 52633), (691, 52618), (717, 52540), (722, 52528), (730, 52507), (748, 52468), (775, 52378), (779, 52360), (781, 52354), (785, 52339), (793, 52315), (795, 52300), (796, 52297), (799, 52285), (809, 52261), (830, 52213), (840, 52189),

Gene: Morpher26_44 Start: 31543, Stop: 29714, Start Num: 191

Candidate Starts for Morpher26_44:

(Start: 191 @31543 has 828 MA's), (209, 31492), (221, 31462), (291, 31300), (300, 31282), (307, 31267), (326, 31210), (328, 31201), (366, 31081), (372, 31057), (401, 31015), (420, 30964), (448, 30916), (458, 30895), (476, 30856), (490, 30811), (492, 30805), (523, 30724), (532, 30703), (556, 30658), (609, 30493), (611, 30472), (656, 30319), (666, 30280), (685, 30208), (691, 30193), (698, 30169), (702, 30151), (704, 30145), (706, 30139), (775, 29938), (812, 29803), (816, 29791), (820, 29782),

Gene: Morrissey_47 Start: 37547, Stop: 35145, Start Num: 3

Candidate Starts for Morrissey_47:

(Start: 3 @37547 has 5 MA's), (12, 37442), (13, 37418), (19, 37364), (23, 37337), (24, 37334), (30, 37292), (31, 37289), (40, 37244), (46, 37223), (56, 37199), (64, 37160), (73, 37145), (78, 37121), (84, 37112), (87, 37106), (Start: 112 @37043 has 1 MA's), (120, 37031), (155, 36977), (216, 36869), (235, 36842), (239, 36821), (305, 36677), (321, 36623), (323, 36620), (325, 36614), (334, 36584), (339, 36569), (364, 36512), (370, 36491), (372, 36485), (376, 36476), (400, 36395), (418, 36332), (438, 36299), (457, 36272), (471, 36242), (483, 36212), (533, 36092), (536, 36083), (584, 35966), (589, 35948), (598, 35918), (601, 35909), (607, 35885), (612, 35852), (639, 35771), (645, 35747), (647, 35741), (668, 35669), (678, 35642), (691, 35615), (698, 35591), (717, 35537), (722, 35525), (762, 35414), (764, 35411), (795, 35285), (796, 35282), (805, 35258), (809, 35246), (830, 35195), (840, 35171), (847, 35150),

Gene: Morrow_46 Start: 31576, Stop: 29750, Start Num: 191

Candidate Starts for Morrow_46:

(Start: 191 @31576 has 828 MA's), (201, 31555), (209, 31525), (221, 31495), (291, 31333), (300, 31315), (326, 31243), (328, 31234), (366, 31114), (372, 31090), (420, 30997), (448, 30949), (458, 30928), (476, 30889), (523, 30757), (532, 30736), (556, 30691), (559, 30679), (609, 30526), (611, 30505), (646, 30382), (656, 30352), (666, 30313), (683, 30247), (685, 30244), (691, 30229), (698, 30205), (704, 30181), (775, 29974), (812, 29839), (816, 29827), (820, 29818),

Gene: Mortcellus_58 Start: 54744, Stop: 52927, Start Num: 183

Candidate Starts for Mortcellus_58:

(80, 54927), (Start: 183 @54744 has 42 MA's), (201, 54714), (274, 54534), (331, 54381), (334, 54369), (343, 54339), (349, 54333), (372, 54270), (375, 54264), (389, 54213), (398, 54186), (400, 54177), (414, 54129), (471, 54024), (510, 53928), (533, 53877), (589, 53733), (601, 53694), (608, 53664), (612, 53637), (616, 53625), (645, 53529), (647, 53523), (651, 53514), (655, 53502), (674, 53430), (683, 53400), (691, 53382), (694, 53373), (717, 53304), (722, 53292), (730, 53271), (760, 53202), (765, 53187), (771, 53163), (775, 53142), (781, 53118), (793, 53079), (796, 53061), (799, 53049), (805, 53037), (809, 53025), (826, 52983), (840, 52953),

Gene: Morty_61 Start: 54544, Stop: 52685, Start Num: 149

Candidate Starts for Morty_61:

(Start: 133 @54568 has 1 MA's), (Start: 149 @54544 has 248 MA's), (Start: 174 @54520 has 5 MA's), (Start: 186 @54514 has 3 MA's), (205, 54472), (212, 54451), (254, 54337), (256, 54331), (269,

54301), (296, 54241), (306, 54220), (323, 54166), (327, 54154), (332, 54136), (335, 54124), (372, 54019), (389, 53962), (400, 53926), (402, 53914), (410, 53890), (414, 53878), (421, 53860), (432, 53842), (442, 53824), (465, 53785), (469, 53776), (471, 53773), (473, 53770), (607, 53413), (612, 53380), (617, 53359), (647, 53266), (651, 53257), (668, 53194), (683, 53158), (685, 53155), (691, 53140), (717, 53062), (722, 53050), (730, 53029), (748, 52990), (775, 52900), (779, 52882), (781, 52876), (785, 52861), (793, 52837), (795, 52822), (796, 52819), (799, 52807), (809, 52783), (830, 52735), (840, 52711),

Gene: Morty007_58 Start: 54530, Stop: 52713, Start Num: 183

Candidate Starts for Morty007_58:

(32, 54914), (80, 54713), (Start: 183 @54530 has 42 MA's), (201, 54500), (274, 54320), (331, 54167), (334, 54155), (343, 54125), (349, 54119), (372, 54056), (375, 54050), (389, 53999), (400, 53963), (414, 53915), (471, 53810), (510, 53714), (533, 53663), (589, 53519), (601, 53480), (608, 53450), (612, 53423), (616, 53411), (645, 53315), (647, 53309), (651, 53300), (655, 53288), (674, 53216), (683, 53186), (691, 53168), (694, 53159), (717, 53090), (722, 53078), (730, 53057), (760, 52988), (765, 52973), (771, 52949), (781, 52904), (793, 52865), (796, 52847), (799, 52835), (805, 52823), (809, 52811), (826, 52769), (840, 52739),

Gene: Mosaic_59 Start: 54027, Stop: 52168, Start Num: 149

Candidate Starts for Mosaic_59:

(Start: 133 @54051 has 1 MA's), (Start: 149 @54027 has 248 MA's), (Start: 174 @54003 has 5 MA's), (Start: 186 @53997 has 3 MA's), (205, 53955), (212, 53934), (254, 53820), (256, 53814), (269, 53784), (296, 53724), (306, 53703), (323, 53649), (327, 53637), (332, 53619), (335, 53607), (372, 53502), (389, 53445), (400, 53409), (402, 53397), (411, 53370), (432, 53325), (465, 53268), (469, 53259), (471, 53256), (607, 52896), (612, 52863), (617, 52842), (647, 52749), (651, 52740), (668, 52677), (683, 52641), (685, 52638), (691, 52623), (717, 52545), (722, 52533), (730, 52512), (748, 52473), (775, 52383), (779, 52365), (781, 52359), (785, 52344), (793, 52320), (795, 52305), (796, 52302), (799, 52290), (809, 52266), (830, 52218), (840, 52194),

Gene: MossRose_53 Start: 47650, Stop: 45833, Start Num: 177

Candidate Starts for MossRose_53:

(Start: 177 @47650 has 10 MA's), (Start: 186 @47641 has 3 MA's), (201, 47614), (204, 47602), (212, 47578), (216, 47569), (272, 47431), (289, 47395), (316, 47320), (341, 47245), (372, 47167), (389, 47110), (400, 47074), (402, 47062), (410, 47038), (460, 46945), (471, 46921), (480, 46903), (589, 46630), (601, 46591), (608, 46561), (612, 46534), (645, 46426), (647, 46420), (651, 46411), (678, 46321), (683, 46312), (685, 46309), (686, 46306), (691, 46294), (717, 46216), (722, 46204), (725, 46198), (730, 46183), (753, 46135), (768, 46087), (775, 46054), (781, 46030), (793, 45991), (795, 45976), (809, 45931), (840, 45859),

Gene: Moss_45 Start: 27679, Stop: 29661, Start Num: 191

Candidate Starts for Moss_45:

(Start: 191 @27679 has 828 MA's), (262, 27853), (271, 27883), (293, 27916), (308, 27949), (331, 28024), (339, 28051), (405, 28252), (476, 28426), (532, 28582), (583, 28720), (606, 28807), (611, 28840), (618, 28870), (637, 28927), (656, 28993), (680, 29086), (775, 29353), (781, 29377), (812, 29488),

Gene: MrGordo_44 Start: 34016, Stop: 32190, Start Num: 191

Candidate Starts for MrGordo_44:

(Start: 191 @34016 has 828 MA's), (274, 33803), (283, 33788), (307, 33740), (314, 33710), (322, 33689), (326, 33683), (328, 33674), (365, 33557), (372, 33530), (420, 33437), (428, 33422), (446, 33389), (470, 33338), (472, 33335), (494, 33269), (508, 33239), (518, 33209), (534, 33164), (556, 33125), (611, 32945), (623, 32897), (637, 32858), (656, 32792), (666, 32753), (676, 32732), (683, 32711), (691, 32693), (712, 32627), (770, 32477), (771, 32474), (778, 32438), (785, 32414), (788,

32405), (792, 32393), (798, 32366), (812, 32318), (820, 32297),

Gene: MrPhizzler_61 Start: 54490, Stop: 52631, Start Num: 149

Candidate Starts for MrPhizzler_61:

(Start: 133 @54514 has 1 MA's), (Start: 149 @54490 has 248 MA's), (Start: 174 @54466 has 5 MA's), (Start: 186 @54460 has 3 MA's), (205, 54418), (212, 54397), (254, 54283), (256, 54277), (269, 54247), (296, 54187), (306, 54166), (323, 54112), (327, 54100), (332, 54082), (335, 54070), (372, 53965), (389, 53908), (400, 53872), (402, 53860), (410, 53836), (414, 53824), (421, 53806), (432, 53788), (442, 53770), (465, 53731), (469, 53722), (471, 53719), (473, 53716), (576, 53461), (607, 53359), (612, 53326), (617, 53305), (647, 53212), (651, 53203), (668, 53140), (683, 53104), (685, 53101), (691, 53086), (717, 53008), (722, 52996), (730, 52975), (748, 52936), (775, 52846), (779, 52828), (781, 52822), (785, 52807), (793, 52783), (795, 52768), (796, 52765), (799, 52753), (809, 52729), (816, 52708), (830, 52681), (840, 52657),

Gene: Mryolo_42 Start: 33954, Stop: 32128, Start Num: 191

Candidate Starts for Mryolo_42:

(Start: 191 @33954 has 828 MA's), (274, 33741), (307, 33678), (314, 33648), (322, 33627), (326, 33621), (328, 33612), (365, 33495), (372, 33468), (420, 33375), (428, 33360), (446, 33327), (470, 33276), (472, 33273), (494, 33207), (508, 33177), (518, 33147), (534, 33102), (556, 33063), (611, 32883), (623, 32835), (637, 32796), (656, 32730), (666, 32691), (676, 32670), (683, 32649), (691, 32631), (712, 32565), (770, 32415), (771, 32412), (778, 32376), (785, 32352), (788, 32343), (792, 32331), (798, 32304), (812, 32256), (820, 32235),

Gene: MuchMore_51 Start: 31845, Stop: 30031, Start Num: 191

Candidate Starts for MuchMore_51:

(Start: 191 @31845 has 828 MA's), (206, 31806), (209, 31794), (271, 31641), (276, 31626), (307, 31569), (326, 31512), (328, 31503), (340, 31461), (355, 31410), (372, 31359), (420, 31266), (446, 31218), (451, 31209), (458, 31194), (476, 31155), (484, 31128), (494, 31098), (528, 31005), (534, 30993), (558, 30945), (565, 30930), (611, 30774), (637, 30687), (656, 30621), (666, 30582), (685, 30510), (698, 30471), (704, 30447), (712, 30429), (726, 30396), (737, 30369), (760, 30315), (775, 30255), (795, 30177), (812, 30120), (816, 30108), (820, 30099),

Gene: Mudpuppy_39 Start: 29455, Stop: 31320, Start Num: 191

Candidate Starts for Mudpuppy_39:

(Start: 191 @29455 has 828 MA's), (208, 29503), (314, 29752), (343, 29842), (423, 30049), (428, 30058), (472, 30148), (476, 30157), (481, 30172), (496, 30217), (515, 30262), (532, 30310), (559, 30367), (583, 30448), (606, 30535), (611, 30568), (618, 30598), (637, 30655), (656, 30721), (663, 30745), (680, 30814), (704, 30886), (708, 30895), (752, 30994), (770, 31057), (775, 31081), (804, 31192), (812, 31216), (815, 31225),

Gene: Mudslide_53 Start: 54263, Stop: 52440, Start Num: 141

Candidate Starts for Mudslide_53:

(Start: 128 @54281 has 3 MA's), (Start: 141 @54263 has 23 MA's), (Start: 186 @54239 has 3 MA's), (201, 54212), (205, 54197), (212, 54176), (246, 54089), (293, 53984), (310, 53942), (332, 53876), (341, 53846), (343, 53837), (347, 53834), (349, 53831), (358, 53804), (389, 53711), (395, 53693), (400, 53675), (402, 53663), (407, 53648), (411, 53636), (442, 53573), (465, 53534), (469, 53525), (471, 53522), (483, 53492), (494, 53456), (589, 53231), (590, 53228), (601, 53192), (607, 53168), (612, 53135), (645, 53027), (647, 53021), (651, 53012), (683, 52913), (685, 52910), (691, 52895), (717, 52817), (722, 52805), (730, 52784), (733, 52775), (748, 52745), (768, 52688), (775, 52655), (779, 52637), (781, 52631), (793, 52592), (796, 52574), (799, 52562), (809, 52538), (826, 52496), (830, 52490), (840, 52466),

Gene: Mulan_60 Start: 54261, Stop: 52402, Start Num: 149

Candidate Starts for Mulan_60:

(Start: 133 @54285 has 1 MA's), (Start: 149 @54261 has 248 MA's), (Start: 174 @54237 has 5 MA's), (Start: 186 @54231 has 3 MA's), (205, 54189), (212, 54168), (254, 54054), (256, 54048), (269, 54018), (296, 53958), (306, 53937), (323, 53883), (327, 53871), (332, 53853), (335, 53841), (372, 53736), (389, 53679), (400, 53643), (402, 53631), (411, 53604), (421, 53577), (432, 53559), (442, 53541), (465, 53502), (469, 53493), (471, 53490), (576, 53232), (607, 53130), (612, 53097), (617, 53076), (647, 52983), (651, 52974), (668, 52911), (683, 52875), (685, 52872), (691, 52857), (717, 52779), (722, 52767), (730, 52746), (748, 52707), (775, 52617), (779, 52599), (781, 52593), (785, 52578), (793, 52554), (795, 52539), (796, 52536), (799, 52524), (809, 52500), (830, 52452), (840, 52428),

Gene: Mulciber_44 Start: 30327, Stop: 28540, Start Num: 191

Candidate Starts for Mulciber_44:

(Start: 191 @30327 has 828 MA's), (271, 30123), (307, 30051), (314, 30021), (326, 29994), (423, 29742), (451, 29691), (484, 29610), (501, 29565), (532, 29481), (559, 29424), (581, 29382), (592, 29337), (611, 29256), (625, 29205), (637, 29169), (656, 29103), (676, 29043), (679, 29031), (716, 28929), (726, 28905), (732, 28887), (760, 28824), (768, 28797), (770, 28788), (775, 28764), (812, 28629), (816, 28617), (820, 28608),

Gene: Mule_42 Start: 32266, Stop: 30440, Start Num: 191

Candidate Starts for Mule_42:

(Start: 191 @32266 has 828 MA's), (274, 32053), (283, 32038), (314, 31960), (322, 31939), (326, 31933), (328, 31924), (351, 31840), (365, 31807), (372, 31780), (420, 31687), (428, 31672), (439, 31651), (446, 31639), (470, 31588), (472, 31585), (494, 31519), (508, 31489), (518, 31459), (534, 31414), (556, 31375), (611, 31195), (623, 31147), (637, 31108), (656, 31042), (683, 30961), (685, 30958), (712, 30877), (770, 30727), (771, 30724), (778, 30688), (788, 30655), (792, 30643), (803, 30595), (812, 30568), (820, 30547),

Gene: Munch_45 Start: 30776, Stop: 28989, Start Num: 191

Candidate Starts for Munch_45:

(Start: 191 @30776 has 828 MA's), (271, 30572), (307, 30500), (314, 30470), (326, 30443), (423, 30191), (451, 30140), (484, 30059), (501, 30014), (559, 29873), (581, 29831), (592, 29786), (611, 29705), (625, 29654), (637, 29618), (656, 29552), (676, 29492), (679, 29480), (716, 29378), (726, 29354), (732, 29336), (760, 29273), (768, 29246), (770, 29237), (775, 29213), (812, 29078), (816, 29066), (820, 29057),

Gene: Mundrea_44 Start: 31530, Stop: 29701, Start Num: 191

Candidate Starts for Mundrea_44:

(Start: 191 @31530 has 828 MA's), (209, 31479), (221, 31449), (291, 31287), (300, 31269), (307, 31254), (326, 31197), (328, 31188), (366, 31068), (372, 31044), (420, 30951), (448, 30903), (458, 30882), (476, 30843), (490, 30798), (523, 30711), (526, 30702), (532, 30690), (556, 30645), (559, 30633), (611, 30459), (639, 30363), (646, 30336), (647, 30333), (656, 30306), (664, 30276), (666, 30267), (683, 30198), (685, 30195), (691, 30180), (698, 30156), (704, 30132), (706, 30126), (775, 29925), (812, 29790), (816, 29778), (820, 29769),

Gene: Murdoc_59 Start: 54023, Stop: 52164, Start Num: 149

Candidate Starts for Murdoc_59:

(Start: 133 @54047 has 1 MA's), (Start: 149 @54023 has 248 MA's), (Start: 174 @53999 has 5 MA's), (Start: 186 @53993 has 3 MA's), (205, 53951), (212, 53930), (254, 53816), (256, 53810), (269, 53780), (296, 53720), (306, 53699), (323, 53645), (327, 53633), (332, 53615), (335, 53603), (372, 53498), (389, 53441), (400, 53405), (402, 53393), (411, 53366), (421, 53339), (432, 53321), (442, 53303), (465, 53264), (469, 53255), (471, 53252), (473, 53249), (607, 52892), (612, 52859), (617, 52838), (647, 52745), (651, 52736), (668, 52673), (683, 52637), (685, 52634), (691, 52619), (717,

52541), (722, 52529), (730, 52508), (748, 52469), (775, 52379), (779, 52361), (781, 52355), (785, 52340), (793, 52316), (795, 52301), (796, 52298), (799, 52286), (809, 52262), (830, 52214), (840, 52190),

Gene: Museum_45 Start: 34023, Stop: 32197, Start Num: 191

Candidate Starts for Museum_45:

(Start: 191 @34023 has 828 MA's), (274, 33810), (283, 33795), (307, 33747), (314, 33717), (322, 33696), (326, 33690), (328, 33681), (365, 33564), (372, 33537), (420, 33444), (428, 33429), (446, 33396), (470, 33345), (472, 33342), (494, 33276), (508, 33246), (518, 33216), (534, 33171), (556, 33132), (611, 32952), (623, 32904), (637, 32865), (656, 32799), (666, 32760), (676, 32739), (683, 32718), (691, 32700), (712, 32634), (770, 32484), (771, 32481), (778, 32445), (785, 32421), (788, 32412), (792, 32400), (812, 32325), (820, 32304),

Gene: Mutante_60 Start: 54033, Stop: 52174, Start Num: 149

Candidate Starts for Mutante_60:

(Start: 133 @54057 has 1 MA's), (Start: 149 @54033 has 248 MA's), (Start: 174 @54009 has 5 MA's), (Start: 186 @54003 has 3 MA's), (205, 53961), (212, 53940), (254, 53826), (256, 53820), (269, 53790), (296, 53730), (306, 53709), (323, 53655), (327, 53643), (332, 53625), (335, 53613), (372, 53508), (389, 53451), (400, 53415), (402, 53403), (411, 53376), (421, 53349), (432, 53331), (465, 53274), (469, 53265), (471, 53262), (607, 52902), (612, 52869), (617, 52848), (647, 52755), (651, 52746), (668, 52683), (685, 52644), (691, 52629), (717, 52551), (722, 52539), (730, 52518), (748, 52479), (771, 52410), (775, 52389), (779, 52371), (781, 52365), (785, 52350), (793, 52326), (795, 52311), (796, 52308), (799, 52296), (809, 52272), (830, 52224), (840, 52200),

Gene: MyraDee_40 Start: 28864, Stop: 27056, Start Num: 191

Candidate Starts for MyraDee_40:

(Start: 191 @28864 has 828 MA's), (206, 28825), (209, 28813), (261, 28693), (291, 28621), (326, 28531), (328, 28522), (340, 28480), (345, 28462), (355, 28429), (357, 28426), (366, 28402), (372, 28378), (416, 28297), (420, 28285), (435, 28258), (444, 28240), (476, 28174), (490, 28129), (507, 28093), (518, 28060), (526, 28033), (534, 28015), (566, 27949), (582, 27919), (611, 27796), (623, 27748), (656, 27643), (666, 27604), (685, 27535), (698, 27496), (712, 27454), (725, 27424), (779, 27262), (812, 27145), (816, 27133), (820, 27124),

Gene: Mysterious_58 Start: 54574, Stop: 52745, Start Num: 141

Candidate Starts for Mysterious_58:

(Start: 141 @54574 has 23 MA's), (Start: 172 @54553 has 1 MA's), (Start: 186 @54544 has 3 MA's), (201, 54517), (205, 54502), (306, 54277), (321, 54226), (331, 54199), (335, 54184), (341, 54166), (347, 54154), (363, 54118), (372, 54088), (400, 53995), (402, 53983), (403, 53980), (410, 53959), (411, 53956), (414, 53947), (421, 53929), (460, 53866), (471, 53842), (515, 53737), (559, 53614), (586, 53563), (589, 53551), (590, 53548), (595, 53530), (601, 53512), (608, 53482), (612, 53455), (626, 53404), (647, 53341), (651, 53332), (674, 53248), (685, 53215), (691, 53200), (710, 53140), (717, 53122), (722, 53110), (730, 53089), (733, 53080), (735, 53077), (775, 52960), (779, 52942), (781, 52936), (793, 52897), (794, 52885), (795, 52882), (799, 52867), (805, 52855), (809, 52843), (826, 52801), (832, 52792), (840, 52771), (847, 52750),

Gene: Myxus_45 Start: 31483, Stop: 29690, Start Num: 191

Candidate Starts for Myxus_45:

(Start: 191 @31483 has 828 MA's), (196, 31474), (209, 31432), (261, 31312), (262, 31309), (279, 31261), (308, 31201), (315, 31171), (319, 31159), (326, 31147), (372, 30994), (420, 30901), (484, 30763), (494, 30733), (559, 30574), (565, 30562), (579, 30535), (609, 30427), (611, 30406), (651, 30271), (656, 30253), (683, 30172), (698, 30130), (726, 30055), (758, 29980), (770, 29938), (795, 29836), (812, 29779), (816, 29767), (820, 29758),

Gene: NEHalo_43 Start: 34014, Stop: 32185, Start Num: 191

Candidate Starts for NEHalo_43:

(Start: 191 @34014 has 828 MA's), (274, 33801), (307, 33738), (314, 33708), (322, 33687), (326, 33681), (328, 33672), (365, 33555), (372, 33528), (420, 33435), (428, 33420), (446, 33387), (470, 33336), (472, 33333), (490, 33279), (494, 33267), (508, 33237), (518, 33207), (534, 33162), (556, 33123), (611, 32943), (623, 32895), (639, 32847), (651, 32808), (656, 32790), (666, 32751), (676, 32730), (683, 32709), (690, 32694), (733, 32571), (750, 32538), (789, 32400), (794, 32376), (808, 32328), (812, 32316), (820, 32295), (823, 32289), (842, 32241), (849, 32226),

Gene: NHagos_52 Start: 46533, Stop: 44725, Start Num: 177

Candidate Starts for NHagos_52:

(Start: 177 @46533 has 10 MA's), (Start: 186 @46524 has 3 MA's), (204, 46485), (205, 46482), (212, 46461), (216, 46452), (230, 46416), (254, 46356), (272, 46314), (291, 46272), (331, 46164), (335, 46149), (341, 46131), (349, 46116), (372, 46053), (389, 45996), (400, 45960), (402, 45948), (460, 45831), (465, 45819), (471, 45807), (480, 45789), (481, 45783), (589, 45516), (590, 45513), (608, 45447), (612, 45420), (633, 45363), (645, 45312), (647, 45306), (651, 45297), (668, 45234), (685, 45195), (691, 45180), (717, 45102), (722, 45090), (730, 45069), (733, 45060), (748, 45030), (768, 44973), (793, 44877), (796, 44859), (809, 44823), (830, 44775), (840, 44751),

Gene: NaSiaTalie_44 Start: 31357, Stop: 29570, Start Num: 191

Candidate Starts for NaSiaTalie_44:

(Start: 191 @31357 has 828 MA's), (271, 31153), (272, 31150), (274, 31144), (291, 31114), (307, 31081), (308, 31078), (314, 31051), (326, 31024), (340, 30973), (372, 30871), (420, 30778), (446, 30730), (451, 30721), (458, 30706), (484, 30640), (515, 30559), (532, 30511), (592, 30367), (611, 30286), (625, 30235), (636, 30202), (656, 30133), (666, 30094), (676, 30073), (683, 30052), (689, 30040), (758, 29860), (760, 29854), (770, 29818), (775, 29794), (795, 29716), (812, 29659), (816, 29647),

Gene: Naca_39 Start: 30726, Stop: 28828, Start Num: 164

Candidate Starts for Naca_39:

(Start: 164 @30726 has 2 MA's), (Start: 191 @30693 has 828 MA's), (235, 30582), (271, 30489), (272, 30486), (307, 30417), (308, 30414), (314, 30387), (326, 30360), (328, 30351), (351, 30267), (361, 30243), (372, 30207), (407, 30147), (420, 30111), (446, 30063), (457, 30042), (458, 30039), (483, 29979), (513, 29901), (528, 29853), (534, 29841), (558, 29793), (576, 29742), (611, 29607), (623, 29559), (632, 29541), (637, 29520), (639, 29511), (647, 29481), (656, 29454), (657, 29451), (683, 29373), (691, 29355), (704, 29307), (726, 29256), (750, 29202), (754, 29193), (760, 29175), (779, 29097), (804, 29004), (812, 28980), (816, 28968), (859, 28863),

Gene: Nacho_0062 Start: 54781, Stop: 52922, Start Num: 149

Candidate Starts for Nacho_0062:

(Start: 133 @54805 has 1 MA's), (Start: 149 @54781 has 248 MA's), (Start: 174 @54757 has 5 MA's), (Start: 186 @54751 has 3 MA's), (205, 54709), (212, 54688), (254, 54574), (256, 54568), (269, 54538), (296, 54478), (306, 54457), (323, 54403), (327, 54391), (332, 54373), (335, 54361), (372, 54256), (389, 54199), (400, 54163), (402, 54151), (411, 54124), (421, 54097), (432, 54079), (442, 54061), (465, 54022), (469, 54013), (471, 54010), (576, 53752), (607, 53650), (612, 53617), (617, 53596), (647, 53503), (651, 53494), (668, 53431), (683, 53395), (685, 53392), (691, 53377), (717, 53299), (722, 53287), (730, 53266), (748, 53227), (775, 53137), (779, 53119), (781, 53113), (785, 53098), (793, 53074), (795, 53059), (796, 53056), (799, 53044), (809, 53020), (830, 52972), (840, 52948),

Gene: Naiad_36 Start: 28126, Stop: 26342, Start Num: 191

Candidate Starts for Naiad_36:

(Start: 191 @28126 has 828 MA's), (288, 27892), (302, 27862), (306, 27853), (307, 27850), (319, 27805), (326, 27793), (340, 27742), (372, 27640), (380, 27619), (420, 27547), (444, 27502), (446, 27499), (466, 27457), (468, 27451), (476, 27436), (484, 27409), (523, 27304), (526, 27295), (534, 27277), (535, 27274), (556, 27238), (611, 27058), (623, 27010), (656, 26905), (657, 26902), (676, 26845), (683, 26824), (727, 26701), (760, 26626), (770, 26590), (775, 26566), (795, 26488), (812, 26431), (816, 26419), (834, 26380), (839, 26362),

Gene: Naira_46 Start: 36492, Stop: 34705, Start Num: 191

Candidate Starts for Naira_46:

(Start: 191 @36492 has 828 MA's), (274, 36279), (283, 36264), (307, 36216), (314, 36186), (322, 36165), (326, 36159), (328, 36150), (365, 36033), (372, 36006), (420, 35913), (428, 35898), (470, 35814), (472, 35811), (494, 35745), (508, 35715), (518, 35685), (534, 35640), (556, 35601), (611, 35421), (623, 35373), (637, 35334), (656, 35268), (679, 35196), (683, 35187), (712, 35103), (750, 35016), (785, 34890), (789, 34878), (812, 34794), (814, 34788),

Gene: Naji_47 Start: 31153, Stop: 29330, Start Num: 191

Candidate Starts for Naji_47:

(Start: 191 @31153 has 828 MA's), (271, 30949), (283, 30925), (291, 30907), (300, 30889), (307, 30874), (308, 30871), (314, 30844), (326, 30817), (340, 30766), (372, 30664), (420, 30571), (446, 30523), (451, 30514), (457, 30502), (458, 30499), (484, 30433), (508, 30373), (556, 30259), (565, 30235), (581, 30196), (611, 30070), (625, 30019), (637, 29983), (656, 29917), (666, 29878), (685, 29809), (698, 29770), (713, 29725), (726, 29695), (754, 29632), (760, 29614), (775, 29554), (812, 29419), (816, 29407), (820, 29398),

Gene: Nanao_52 Start: 52988, Stop: 51165, Start Num: 141

Candidate Starts for Nanao_52:

(Start: 128 @53006 has 3 MA's), (Start: 141 @52988 has 23 MA's), (Start: 186 @52964 has 3 MA's), (201, 52937), (205, 52922), (212, 52901), (246, 52814), (293, 52709), (310, 52667), (332, 52601), (341, 52571), (343, 52562), (347, 52559), (349, 52556), (358, 52529), (389, 52436), (395, 52418), (400, 52400), (402, 52388), (407, 52373), (411, 52361), (469, 52250), (471, 52247), (483, 52217), (494, 52181), (589, 51956), (590, 51953), (601, 51917), (607, 51893), (612, 51860), (645, 51752), (647, 51746), (649, 51740), (651, 51737), (683, 51638), (685, 51635), (691, 51620), (717, 51542), (722, 51530), (730, 51509), (733, 51500), (748, 51470), (758, 51446), (768, 51413), (775, 51380), (779, 51362), (781, 51356), (793, 51317), (796, 51299), (799, 51287), (809, 51263), (826, 51221), (830, 51215), (840, 51191),

Gene: Nancinator_36 Start: 28114, Stop: 26330, Start Num: 191

Candidate Starts for Nancinator_36:

(Start: 191 @28114 has 828 MA's), (288, 27880), (302, 27850), (306, 27841), (307, 27838), (319, 27793), (326, 27781), (340, 27730), (372, 27628), (380, 27607), (420, 27535), (444, 27490), (446, 27487), (466, 27445), (468, 27439), (476, 27424), (484, 27397), (523, 27292), (526, 27283), (534, 27265), (556, 27226), (582, 27169), (611, 27046), (623, 26998), (656, 26893), (657, 26890), (676, 26833), (683, 26812), (700, 26764), (727, 26689), (758, 26620), (770, 26578), (775, 26554), (795, 26476), (812, 26419), (816, 26407), (820, 26398), (834, 26368), (839, 26350),

Gene: Nangang_58 Start: 54780, Stop: 52933, Start Num: 136

Candidate Starts for Nangang_58:

(98, 54846), (136, 54780), (184, 54732), (201, 54705), (220, 54654), (254, 54579), (296, 54486), (332, 54384), (347, 54342), (363, 54306), (372, 54276), (400, 54183), (410, 54147), (414, 54135), (421, 54117), (471, 54030), (515, 53925), (520, 53916), (559, 53802), (590, 53736), (595, 53718), (608, 53670), (612, 53643), (645, 53535), (647, 53529), (651, 53520), (657, 53499), (674, 53436), (685, 53403), (691, 53388), (710, 53328), (717, 53310), (722, 53298), (730, 53277), (733, 53268), (735, 53265), (742, 53253), (775, 53148), (781, 53124), (793, 53085), (795, 53070), (796, 53067), (805,

53043), (809, 53031), (810, 53028), (840, 52959),

Gene: Natosaleda_36 Start: 28113, Stop: 26329, Start Num: 191

Candidate Starts for Natosaleda_36:

(Start: 191 @28113 has 828 MA's), (288, 27879), (302, 27849), (306, 27840), (307, 27837), (319, 27792), (326, 27780), (340, 27729), (372, 27627), (380, 27606), (420, 27534), (444, 27489), (446, 27486), (466, 27444), (468, 27438), (476, 27423), (484, 27396), (523, 27291), (526, 27282), (534, 27264), (556, 27225), (582, 27168), (611, 27045), (623, 26997), (656, 26892), (657, 26889), (676, 26832), (683, 26811), (700, 26763), (727, 26688), (758, 26619), (770, 26577), (775, 26553), (795, 26475), (812, 26418), (816, 26406), (820, 26397), (834, 26367), (839, 26349),

Gene: NearlyHeadless_43 Start: 30653, Stop: 28809, Start Num: 191

Candidate Starts for NearlyHeadless_43:

(Start: 191 @30653 has 828 MA's), (209, 30602), (262, 30479), (271, 30449), (291, 30410), (307, 30377), (314, 30347), (322, 30326), (326, 30320), (328, 30311), (340, 30269), (355, 30218), (371, 30170), (372, 30167), (420, 30071), (435, 30044), (444, 30026), (451, 30014), (476, 29960), (484, 29933), (502, 29885), (523, 29828), (534, 29801), (559, 29750), (566, 29735), (609, 29588), (611, 29567), (618, 29537), (623, 29519), (625, 29516), (632, 29501), (637, 29480), (639, 29471), (646, 29444), (651, 29432), (656, 29414), (683, 29333), (689, 29321), (704, 29267), (719, 29231), (733, 29195), (750, 29162), (758, 29141), (760, 29135), (771, 29096), (775, 29075), (779, 29057), (812, 28940), (816, 28928),

Gene: Nebs_46 Start: 31570, Stop: 29744, Start Num: 191

Candidate Starts for Nebs_46:

(Start: 191 @31570 has 828 MA's), (201, 31549), (209, 31519), (221, 31489), (291, 31327), (300, 31309), (326, 31237), (328, 31228), (366, 31108), (372, 31084), (420, 30991), (448, 30943), (458, 30922), (476, 30883), (523, 30751), (532, 30730), (556, 30685), (559, 30673), (609, 30520), (611, 30499), (646, 30376), (656, 30346), (666, 30307), (683, 30241), (685, 30238), (691, 30223), (698, 30199), (704, 30175), (775, 29968), (812, 29833), (816, 29821), (820, 29812),

Gene: Nebulosus_46 Start: 29739, Stop: 27949, Start Num: 191

Candidate Starts for Nebulosus_46:

(Start: 191 @29739 has 828 MA's), (262, 29565), (307, 29460), (308, 29457), (314, 29430), (326, 29403), (340, 29352), (372, 29250), (420, 29157), (444, 29112), (446, 29109), (451, 29100), (523, 28911), (556, 28845), (583, 28785), (592, 28746), (607, 28695), (611, 28665), (625, 28614), (636, 28581), (646, 28542), (656, 28512), (676, 28452), (683, 28431), (698, 28389), (705, 28362), (712, 28347), (750, 28260), (770, 28197), (771, 28194), (812, 28038), (816, 28026), (821, 28014),

Gene: Nedarya_43 Start: 29505, Stop: 27715, Start Num: 191

Candidate Starts for Nedarya_43:

(Start: 191 @29505 has 828 MA's), (274, 29292), (307, 29226), (308, 29223), (314, 29196), (326, 29169), (372, 29016), (420, 28923), (444, 28878), (446, 28875), (458, 28851), (534, 28650), (556, 28611), (583, 28551), (592, 28512), (609, 28452), (611, 28431), (625, 28380), (636, 28347), (646, 28308), (656, 28278), (676, 28218), (683, 28197), (706, 28125), (750, 28026), (770, 27963), (811, 27807), (812, 27804), (816, 27792),

Gene: Neeharika16_45 Start: 29638, Stop: 27797, Start Num: 191

Candidate Starts for Neeharika16_45:

(Start: 191 @29638 has 828 MA's), (271, 29434), (307, 29359), (308, 29356), (314, 29329), (319, 29314), (326, 29302), (340, 29251), (368, 29161), (372, 29149), (420, 29056), (441, 29017), (451, 28999), (458, 28984), (484, 28918), (496, 28885), (498, 28882), (535, 28780), (565, 28720), (592, 28636), (611, 28555), (636, 28471), (637, 28468), (639, 28459), (646, 28432), (656, 28402), (676, 28342), (691, 28303), (770, 28087), (771, 28084), (775, 28063), (812, 27928), (816, 27916), (820,

27907), (821, 27904), (859, 27811),

Gene: Nemo27_45 Start: 31569, Stop: 29743, Start Num: 191

Candidate Starts for Nemo27_45:

(Start: 191 @31569 has 828 MA's), (201, 31548), (209, 31518), (221, 31488), (291, 31326), (300, 31308), (326, 31236), (328, 31227), (366, 31107), (372, 31083), (420, 30990), (448, 30942), (458, 30921), (476, 30882), (523, 30750), (532, 30729), (556, 30684), (559, 30672), (609, 30519), (611, 30498), (646, 30375), (656, 30345), (666, 30306), (683, 30240), (685, 30237), (691, 30222), (698, 30198), (704, 30174), (775, 29967), (812, 29832), (816, 29820), (820, 29811),

Gene: Neos5_58 Start: 53992, Stop: 52175, Start Num: 183

Candidate Starts for Neos5_58:

(32, 54376), (80, 54175), (Start: 183 @53992 has 42 MA's), (201, 53962), (274, 53782), (316, 53677), (331, 53629), (334, 53617), (343, 53587), (349, 53581), (372, 53518), (375, 53512), (389, 53461), (398, 53434), (400, 53425), (414, 53377), (471, 53272), (510, 53176), (533, 53125), (589, 52981), (601, 52942), (608, 52912), (612, 52885), (616, 52873), (645, 52777), (647, 52771), (651, 52762), (655, 52750), (674, 52678), (683, 52648), (691, 52630), (694, 52621), (717, 52552), (722, 52540), (730, 52519), (760, 52450), (765, 52435), (771, 52411), (775, 52390), (779, 52372), (781, 52366), (791, 52333), (793, 52327), (796, 52309), (799, 52297), (805, 52285), (809, 52273), (826, 52231), (840, 52201),

Gene: Nerujay_46 Start: 35102, Stop: 33276, Start Num: 191

Candidate Starts for Nerujay_46:

(Start: 191 @35102 has 828 MA's), (274, 34889), (283, 34874), (314, 34796), (318, 34784), (322, 34775), (326, 34769), (328, 34760), (365, 34643), (372, 34616), (420, 34523), (428, 34508), (446, 34475), (470, 34424), (472, 34421), (494, 34355), (518, 34295), (534, 34250), (556, 34211), (611, 34031), (623, 33983), (637, 33944), (656, 33878), (666, 33839), (676, 33818), (683, 33797), (691, 33779), (712, 33713), (770, 33563), (771, 33560), (778, 33524), (785, 33500), (788, 33491), (792, 33479), (798, 33452), (812, 33404), (820, 33383),

Gene: Nesbitt_42 Start: 30153, Stop: 32018, Start Num: 191

Candidate Starts for Nesbitt_42:

(Start: 191 @30153 has 828 MA's), (208, 30201), (216, 30222), (247, 30297), (313, 30456), (314, 30459), (315, 30462), (322, 30480), (328, 30495), (336, 30525), (340, 30537), (375, 30645), (439, 30765), (458, 30807), (476, 30846), (481, 30861), (482, 30864), (483, 30867), (499, 30912), (508, 30933), (515, 30951), (518, 30960), (532, 30999), (542, 31029), (546, 31041), (567, 31104), (598, 31221), (611, 31281), (623, 31329), (637, 31368), (644, 31398), (656, 31434), (669, 31488), (685, 31536), (704, 31599), (747, 31698), (752, 31707), (767, 31758), (781, 31818), (786, 31836), (804, 31905), (812, 31929), (823, 31956),

Gene: Newman_59 Start: 54059, Stop: 52200, Start Num: 149

Candidate Starts for Newman_59:

(Start: 133 @54083 has 1 MA's), (Start: 149 @54059 has 248 MA's), (Start: 174 @54035 has 5 MA's), (Start: 186 @54029 has 3 MA's), (205, 53987), (212, 53966), (254, 53852), (256, 53846), (269, 53816), (296, 53756), (306, 53735), (323, 53681), (327, 53669), (332, 53651), (335, 53639), (372, 53534), (389, 53477), (400, 53441), (402, 53429), (411, 53402), (414, 53393), (432, 53357), (465, 53300), (469, 53291), (471, 53288), (473, 53285), (607, 52928), (612, 52895), (617, 52874), (647, 52781), (651, 52772), (668, 52709), (683, 52673), (685, 52670), (691, 52655), (717, 52577), (722, 52565), (730, 52544), (748, 52505), (775, 52415), (779, 52397), (781, 52391), (785, 52376), (793, 52352), (795, 52337), (796, 52334), (799, 52322), (809, 52298), (830, 52250), (840, 52226),

Gene: Newrala_45 Start: 29638, Stop: 27797, Start Num: 191

Candidate Starts for Newrala_45:

(Start: 191 @29638 has 828 MA's), (271, 29434), (307, 29359), (308, 29356), (314, 29329), (319, 29314), (326, 29302), (340, 29251), (368, 29161), (372, 29149), (420, 29056), (441, 29017), (451, 28999), (458, 28984), (484, 28918), (496, 28885), (498, 28882), (535, 28780), (565, 28720), (592, 28636), (611, 28555), (636, 28471), (637, 28468), (639, 28459), (646, 28432), (656, 28402), (676, 28342), (691, 28303), (770, 28087), (771, 28084), (775, 28063), (812, 27928), (816, 27916), (820, 27907), (821, 27904), (859, 27811),

Gene: Nhonho_45 Start: 35071, Stop: 33245, Start Num: 191

Candidate Starts for Nhonho_45:

(Start: 191 @35071 has 828 MA's), (274, 34858), (307, 34795), (314, 34765), (322, 34744), (326, 34738), (328, 34729), (365, 34612), (372, 34585), (420, 34492), (428, 34477), (446, 34444), (470, 34393), (472, 34390), (494, 34324), (508, 34294), (518, 34264), (534, 34219), (556, 34180), (611, 34000), (623, 33952), (637, 33913), (656, 33847), (666, 33808), (676, 33787), (683, 33766), (691, 33748), (712, 33682), (770, 33532), (771, 33529), (778, 33493), (785, 33469), (788, 33460), (792, 33448), (798, 33421), (812, 33373), (820, 33352),

Gene: Nicky22_43 Start: 30033, Stop: 31907, Start Num: 182

Candidate Starts for Nicky22_43:

(Start: 179 @30030 has 7 MA's), (Start: 182 @30033 has 49 MA's), (216, 30102), (224, 30123), (245, 30174), (328, 30369), (340, 30411), (476, 30705), (523, 30840), (564, 30939), (598, 31062), (611, 31122), (614, 31128), (625, 31173), (635, 31203), (644, 31239), (656, 31275), (680, 31368), (713, 31461), (747, 31539), (770, 31611), (778, 31650), (791, 31692), (794, 31710), (804, 31746), (812, 31770), (820, 31791),

Gene: Nicole21_61 Start: 54312, Stop: 52453, Start Num: 149

Candidate Starts for Nicole21_61:

(Start: 133 @54336 has 1 MA's), (Start: 149 @54312 has 248 MA's), (Start: 174 @54288 has 5 MA's), (Start: 186 @54282 has 3 MA's), (205, 54240), (212, 54219), (254, 54105), (256, 54099), (269, 54069), (296, 54009), (306, 53988), (323, 53934), (327, 53922), (332, 53904), (335, 53892), (372, 53787), (389, 53730), (400, 53694), (402, 53682), (410, 53658), (414, 53646), (421, 53628), (432, 53610), (442, 53592), (465, 53553), (469, 53544), (471, 53541), (473, 53538), (607, 53181), (612, 53148), (617, 53127), (647, 53034), (651, 53025), (668, 52962), (683, 52926), (685, 52923), (691, 52908), (717, 52830), (722, 52818), (730, 52797), (748, 52758), (775, 52668), (779, 52650), (781, 52644), (785, 52629), (793, 52605), (795, 52590), (796, 52587), (799, 52575), (809, 52551), (830, 52503), (840, 52479),

Gene: NicoleTera_45 Start: 32018, Stop: 30231, Start Num: 191

Candidate Starts for NicoleTera_45:

(Start: 191 @32018 has 828 MA's), (272, 31811), (283, 31790), (291, 31775), (306, 31745), (307, 31742), (314, 31712), (326, 31685), (331, 31664), (340, 31634), (372, 31532), (420, 31439), (446, 31391), (451, 31382), (484, 31301), (515, 31220), (532, 31172), (565, 31103), (611, 30947), (625, 30896), (636, 30863), (637, 30860), (656, 30794), (666, 30755), (676, 30734), (701, 30659), (704, 30647), (726, 30596), (737, 30569), (754, 30533), (760, 30515), (770, 30479), (775, 30455), (791, 30398), (812, 30320), (816, 30308), (820, 30299),

Gene: Nigel_54 Start: 53588, Stop: 51732, Start Num: 124

Candidate Starts for Nigel_54:

(Start: 124 @53588 has 2 MA's), (Start: 144 @53561 has 3 MA's), (Start: 186 @53534 has 3 MA's), (201, 53507), (205, 53492), (235, 53420), (236, 53414), (254, 53366), (256, 53360), (263, 53348), (269, 53330), (272, 53321), (296, 53270), (297, 53267), (332, 53168), (341, 53138), (343, 53129), (347, 53126), (358, 53096), (389, 53003), (395, 52985), (400, 52967), (402, 52955), (411, 52928), (469, 52817), (471, 52814), (480, 52796), (483, 52784), (494, 52748), (498, 52742), (504, 52724), (533, 52667), (576, 52562), (589, 52523), (590, 52520), (601, 52484), (612, 52427), (645, 52319),

(647, 52313), (651, 52304), (679, 52214), (683, 52205), (685, 52202), (691, 52187), (717, 52109), (722, 52097), (730, 52076), (733, 52067), (760, 52007), (768, 51980), (775, 51947), (779, 51929), (781, 51923), (793, 51884), (795, 51869), (796, 51866), (799, 51854), (809, 51830), (826, 51788), (830, 51782), (840, 51758),

Gene: Niobe_39 Start: 30355, Stop: 32220, Start Num: 191

Candidate Starts for Niobe_39:

(Start: 191 @30355 has 828 MA's), (208, 30403), (290, 30586), (293, 30592), (314, 30652), (322, 30673), (343, 30742), (428, 30958), (472, 31048), (476, 31057), (481, 31072), (496, 31117), (532, 31210), (583, 31348), (611, 31468), (618, 31498), (637, 31555), (654, 31612), (656, 31621), (663, 31645), (680, 31714), (704, 31786), (708, 31795), (752, 31894), (770, 31957), (812, 32116), (815, 32125),

Gene: Nirvana_73 Start: 48873, Stop: 46888, Start Num: 83

Candidate Starts for Nirvana_73:

(69, 48915), (83, 48873), (Start: 92 @48855 has 10 MA's), (143, 48759), (197, 48687), (209, 48651), (235, 48585), (250, 48537), (275, 48459), (280, 48453), (331, 48306), (341, 48270), (345, 48255), (351, 48228), (360, 48207), (363, 48201), (371, 48174), (408, 48039), (430, 47988), (524, 47754), (527, 47745), (535, 47727), (547, 47694), (557, 47664), (598, 47559), (613, 47493), (619, 47463), (627, 47442), (634, 47436), (701, 47274), (748, 47202), (757, 47181), (781, 47085), (784, 47073), (788, 47064), (792, 47052), (795, 47034), (801, 47010), (810, 46986),

Gene: Nitro_40 Start: 30212, Stop: 32077, Start Num: 191

Candidate Starts for Nitro_40:

(Start: 191 @30212 has 828 MA's), (208, 30260), (314, 30509), (343, 30599), (423, 30806), (428, 30815), (470, 30902), (476, 30914), (481, 30929), (515, 31019), (559, 31124), (583, 31205), (611, 31325), (618, 31355), (637, 31412), (656, 31478), (704, 31643), (770, 31814), (775, 31838), (779, 31856), (812, 31973), (815, 31982),

Gene: Niza_47 Start: 35869, Stop: 34082, Start Num: 191

Candidate Starts for Niza_47:

(Start: 191 @35869 has 828 MA's), (274, 35656), (283, 35641), (307, 35593), (314, 35563), (322, 35542), (326, 35536), (328, 35527), (365, 35410), (372, 35383), (420, 35290), (428, 35275), (446, 35242), (470, 35191), (472, 35188), (494, 35122), (508, 35092), (518, 35062), (534, 35017), (556, 34978), (611, 34798), (623, 34750), (637, 34711), (656, 34645), (679, 34573), (683, 34564), (712, 34480), (750, 34393), (785, 34267), (789, 34255), (804, 34195), (812, 34171), (814, 34165),

Gene: Noella_44 Start: 31598, Stop: 29760, Start Num: 191

Candidate Starts for Noella_44:

(Start: 191 @31598 has 828 MA's), (209, 31547), (271, 31394), (307, 31322), (314, 31292), (326, 31265), (328, 31256), (372, 31112), (420, 31016), (448, 30968), (476, 30908), (509, 30821), (523, 30776), (532, 30755), (566, 30683), (582, 30641), (592, 30599), (611, 30518), (623, 30470), (637, 30431), (646, 30395), (656, 30365), (664, 30335), (685, 30254), (698, 30215), (704, 30191), (712, 30173), (713, 30170), (760, 30044), (775, 29984), (798, 29897), (812, 29849), (816, 29837), (820, 29828),

Gene: Noelle_45 Start: 31832, Stop: 30003, Start Num: 191

Candidate Starts for Noelle_45:

(Start: 191 @31832 has 828 MA's), (205, 31796), (271, 31628), (291, 31589), (300, 31571), (302, 31568), (326, 31499), (328, 31490), (366, 31370), (372, 31346), (420, 31253), (448, 31205), (476, 31145), (490, 31100), (492, 31094), (523, 31013), (532, 30992), (556, 30947), (609, 30782), (611, 30761), (639, 30665), (646, 30638), (647, 30635), (656, 30608), (666, 30569), (685, 30497), (691, 30482), (698, 30458), (702, 30440), (704, 30434), (706, 30428), (775, 30227), (812, 30092), (816,

30080), (820, 30071),

Gene: Norbert_43 Start: 31597, Stop: 29759, Start Num: 191

Candidate Starts for Norbert_43:

(Start: 191 @31597 has 828 MA's), (209, 31546), (271, 31393), (307, 31321), (314, 31291), (326, 31264), (328, 31255), (372, 31111), (420, 31015), (448, 30967), (476, 30907), (509, 30820), (523, 30775), (532, 30754), (566, 30682), (582, 30640), (592, 30598), (611, 30517), (623, 30469), (637, 30430), (646, 30394), (656, 30364), (664, 30334), (685, 30253), (698, 30214), (704, 30190), (712, 30172), (713, 30169), (760, 30043), (775, 29983), (798, 29896), (812, 29848), (816, 29836), (820, 29827),

Gene: NorthStar_44 Start: 31570, Stop: 29744, Start Num: 191

Candidate Starts for NorthStar_44:

(Start: 191 @31570 has 828 MA's), (201, 31549), (209, 31519), (221, 31489), (291, 31327), (300, 31309), (326, 31237), (328, 31228), (366, 31108), (372, 31084), (420, 30991), (448, 30943), (458, 30922), (476, 30883), (523, 30751), (532, 30730), (556, 30685), (559, 30673), (609, 30520), (611, 30499), (646, 30376), (656, 30346), (666, 30307), (683, 30241), (685, 30238), (691, 30223), (698, 30199), (704, 30175), (775, 29968), (812, 29833), (816, 29821), (820, 29812),

Gene: Norz_45 Start: 34915, Stop: 33089, Start Num: 191

Candidate Starts for Norz_45:

(Start: 191 @34915 has 828 MA's), (274, 34702), (283, 34687), (307, 34639), (314, 34609), (322, 34588), (326, 34582), (328, 34573), (365, 34456), (372, 34429), (420, 34336), (428, 34321), (470, 34237), (472, 34234), (494, 34168), (508, 34138), (518, 34108), (534, 34063), (556, 34024), (611, 33844), (618, 33814), (623, 33796), (637, 33757), (656, 33691), (683, 33610), (685, 33607), (712, 33526), (770, 33376), (771, 33373), (778, 33337), (785, 33313), (788, 33304), (792, 33292), (812, 33217), (820, 33196),

Gene: NotAPhaseMom_45 Start: 31574, Stop: 29748, Start Num: 191

Candidate Starts for NotAPhaseMom_45:

(Start: 191 @31574 has 828 MA's), (201, 31553), (209, 31523), (221, 31493), (291, 31331), (300, 31313), (326, 31241), (328, 31232), (366, 31112), (372, 31088), (420, 30995), (448, 30947), (458, 30926), (476, 30887), (523, 30755), (532, 30734), (556, 30689), (559, 30677), (609, 30524), (611, 30503), (646, 30380), (656, 30350), (666, 30311), (683, 30245), (685, 30242), (691, 30227), (698, 30203), (704, 30179), (775, 29972), (812, 29837), (816, 29825), (820, 29816),

Gene: NothingSpecial_43 Start: 32022, Stop: 30235, Start Num: 191

Candidate Starts for NothingSpecial_43:

(Start: 191 @32022 has 828 MA's), (272, 31815), (274, 31809), (291, 31779), (307, 31746), (308, 31743), (314, 31716), (326, 31689), (328, 31680), (372, 31536), (420, 31443), (446, 31395), (451, 31386), (458, 31371), (484, 31305), (515, 31224), (532, 31176), (611, 30951), (625, 30900), (636, 30867), (656, 30798), (666, 30759), (676, 30738), (683, 30717), (760, 30519), (770, 30483), (775, 30459), (795, 30381), (812, 30324), (816, 30312), (820, 30303),

Gene: Nozo_58 Start: 54443, Stop: 52626, Start Num: 183

Candidate Starts for Nozo_58:

(80, 54626), (Start: 183 @54443 has 42 MA's), (201, 54413), (274, 54233), (316, 54128), (331, 54080), (334, 54068), (343, 54038), (349, 54032), (372, 53969), (375, 53963), (389, 53912), (400, 53876), (414, 53828), (471, 53723), (510, 53627), (533, 53576), (589, 53432), (601, 53393), (608, 53363), (612, 53336), (616, 53324), (645, 53228), (647, 53222), (651, 53213), (655, 53201), (674, 53129), (683, 53099), (691, 53081), (694, 53072), (717, 53003), (722, 52991), (730, 52970), (760, 52901), (765, 52886), (771, 52862), (775, 52841), (779, 52823), (781, 52817), (791, 52784), (793, 52778), (796, 52760), (799, 52748), (805, 52736), (809, 52724), (826, 52682), (840, 52652),

Gene: Numberten_60 Start: 54256, Stop: 52397, Start Num: 149

Candidate Starts for Numberten_60:

(Start: 133 @54280 has 1 MA's), (Start: 149 @54256 has 248 MA's), (Start: 174 @54232 has 5 MA's), (Start: 186 @54226 has 3 MA's), (205, 54184), (212, 54163), (254, 54049), (256, 54043), (269, 54013), (296, 53953), (306, 53932), (323, 53878), (327, 53866), (332, 53848), (335, 53836), (372, 53731), (389, 53674), (400, 53638), (402, 53626), (410, 53602), (414, 53590), (421, 53572), (432, 53554), (442, 53536), (465, 53497), (469, 53488), (471, 53485), (473, 53482), (607, 53125), (612, 53092), (617, 53071), (647, 52978), (651, 52969), (668, 52906), (683, 52870), (685, 52867), (691, 52852), (717, 52774), (722, 52762), (730, 52741), (748, 52702), (775, 52612), (779, 52594), (781, 52588), (785, 52573), (793, 52549), (795, 52534), (796, 52531), (799, 52519), (809, 52495), (830, 52447), (840, 52423),

Gene: Nyala_59 Start: 54031, Stop: 52172, Start Num: 149

Candidate Starts for Nyala_59:

(Start: 133 @54055 has 1 MA's), (Start: 149 @54031 has 248 MA's), (Start: 174 @54007 has 5 MA's), (Start: 186 @54001 has 3 MA's), (205, 53959), (212, 53938), (254, 53824), (256, 53818), (269, 53788), (296, 53728), (306, 53707), (323, 53653), (327, 53641), (332, 53623), (335, 53611), (372, 53506), (389, 53449), (400, 53413), (402, 53401), (411, 53374), (421, 53347), (432, 53329), (442, 53311), (465, 53272), (469, 53263), (471, 53260), (607, 52900), (612, 52867), (617, 52846), (647, 52753), (651, 52744), (668, 52681), (683, 52645), (685, 52642), (691, 52627), (717, 52549), (722, 52537), (730, 52516), (748, 52477), (775, 52387), (779, 52369), (781, 52363), (785, 52348), (793, 52324), (795, 52309), (796, 52306), (799, 52294), (809, 52270), (830, 52222), (840, 52198),

Gene: Nyxis_45 Start: 31460, Stop: 29634, Start Num: 191

Candidate Starts for Nyxis_45:

(Start: 191 @31460 has 828 MA's), (201, 31439), (209, 31409), (221, 31379), (291, 31217), (300, 31199), (326, 31127), (328, 31118), (366, 30998), (372, 30974), (420, 30881), (448, 30833), (458, 30812), (476, 30773), (523, 30641), (532, 30620), (556, 30575), (559, 30563), (609, 30410), (611, 30389), (646, 30266), (656, 30236), (666, 30197), (683, 30131), (685, 30128), (691, 30113), (698, 30089), (704, 30065), (775, 29858), (812, 29723), (816, 29711), (820, 29702),

Gene: OKCentral2016_43 Start: 30827, Stop: 28992, Start Num: 191

Candidate Starts for OKCentral2016_43:

(Start: 191 @30827 has 828 MA's), (209, 30776), (236, 30710), (271, 30623), (283, 30599), (302, 30563), (307, 30551), (326, 30494), (328, 30485), (351, 30401), (366, 30365), (368, 30353), (371, 30344), (372, 30341), (420, 30248), (448, 30200), (476, 30140), (484, 30113), (492, 30089), (522, 30011), (523, 30008), (532, 29987), (534, 29981), (566, 29915), (582, 29873), (611, 29750), (623, 29702), (646, 29627), (656, 29597), (666, 29558), (685, 29486), (698, 29447), (704, 29423), (706, 29417), (712, 29405), (756, 29297), (775, 29216), (781, 29192), (798, 29129), (812, 29081), (816, 29069), (820, 29060),

Gene: OKaNui_45 Start: 31620, Stop: 29794, Start Num: 191

Candidate Starts for OKaNui_45:

(Start: 191 @31620 has 828 MA's), (201, 31599), (209, 31569), (221, 31539), (291, 31377), (300, 31359), (326, 31287), (328, 31278), (372, 31134), (420, 31041), (448, 30993), (458, 30972), (476, 30933), (523, 30801), (532, 30780), (556, 30735), (559, 30723), (609, 30570), (611, 30549), (646, 30426), (656, 30396), (666, 30357), (683, 30291), (685, 30288), (691, 30273), (698, 30249), (704, 30225), (775, 30018), (812, 29883), (816, 29871), (820, 29862),

Gene: OSmaximus_62 Start: 54777, Stop: 52918, Start Num: 149

Candidate Starts for OSmaximus_62:

(Start: 133 @54801 has 1 MA's), (Start: 149 @54777 has 248 MA's), (Start: 174 @54753 has 5 MA's), (Start: 186 @54747 has 3 MA's), (205, 54705), (212, 54684), (254, 54570), (256, 54564), (269, 54534), (296, 54474), (306, 54453), (323, 54399), (327, 54387), (332, 54369), (335, 54357), (372, 54252), (389, 54195), (400, 54159), (402, 54147), (410, 54123), (414, 54111), (421, 54093), (432, 54075), (442, 54057), (465, 54018), (469, 54009), (471, 54006), (473, 54003), (607, 53646), (612, 53613), (617, 53592), (647, 53499), (651, 53490), (668, 53427), (683, 53391), (685, 53388), (691, 53373), (717, 53295), (722, 53283), (730, 53262), (748, 53223), (775, 53133), (779, 53115), (781, 53109), (785, 53094), (793, 53070), (795, 53055), (796, 53052), (799, 53040), (809, 53016), (830, 52968), (840, 52944),

Gene: Obama12_46 Start: 31994, Stop: 30168, Start Num: 191

Candidate Starts for Obama12_46:

(Start: 191 @31994 has 828 MA's), (208, 31946), (271, 31790), (307, 31718), (326, 31661), (328, 31652), (366, 31532), (372, 31508), (420, 31415), (448, 31367), (458, 31346), (476, 31307), (490, 31262), (523, 31175), (526, 31166), (532, 31154), (556, 31109), (559, 31097), (609, 30944), (611, 30923), (646, 30800), (656, 30770), (666, 30731), (683, 30665), (685, 30662), (698, 30623), (704, 30599), (775, 30392), (812, 30257), (816, 30245), (820, 30236),

Gene: ObiToo_46 Start: 30468, Stop: 32333, Start Num: 191

Candidate Starts for ObiToo_46:

(81, 30285), (Start: 132 @30390 has 1 MA's), (Start: 191 @30468 has 828 MA's), (208, 30516), (274, 30681), (290, 30699), (314, 30765), (322, 30786), (423, 31062), (428, 31071), (476, 31170), (481, 31185), (515, 31275), (532, 31323), (559, 31380), (583, 31461), (611, 31581), (637, 31668), (654, 31725), (656, 31734), (752, 32007), (812, 32229),

Gene: Obutu_59 Start: 54042, Stop: 52225, Start Num: 183

Candidate Starts for Obutu_59:

(80, 54225), (Start: 183 @54042 has 42 MA's), (201, 54012), (274, 53832), (331, 53679), (334, 53667), (343, 53637), (349, 53631), (372, 53568), (375, 53562), (389, 53511), (400, 53475), (414, 53427), (471, 53322), (510, 53226), (533, 53175), (589, 53031), (601, 52992), (608, 52962), (612, 52935), (616, 52923), (645, 52827), (647, 52821), (651, 52812), (655, 52800), (674, 52728), (683, 52698), (691, 52680), (694, 52671), (717, 52602), (722, 52590), (730, 52569), (760, 52500), (765, 52485), (771, 52461), (781, 52416), (793, 52377), (796, 52359), (799, 52347), (805, 52335), (809, 52323), (826, 52281), (840, 52251),

Gene: Odin_44 Start: 30188, Stop: 28356, Start Num: 191

Candidate Starts for Odin_44:

(Start: 191 @30188 has 828 MA's), (271, 29984), (279, 29966), (308, 29906), (312, 29885), (314, 29879), (318, 29867), (326, 29852), (332, 29828), (372, 29699), (407, 29639), (415, 29621), (420, 29606), (451, 29549), (484, 29468), (502, 29420), (532, 29339), (611, 29114), (637, 29027), (646, 28991), (656, 28961), (666, 28922), (676, 28901), (683, 28880), (691, 28862), (726, 28763), (737, 28736), (754, 28700), (760, 28682), (770, 28646), (775, 28622), (812, 28487), (816, 28475), (820, 28466), (821, 28463), (839, 28418), (854, 28388),

Gene: Ohfah_46 Start: 31570, Stop: 29744, Start Num: 191

Candidate Starts for Ohfah_46:

(Start: 191 @31570 has 828 MA's), (201, 31549), (209, 31519), (221, 31489), (291, 31327), (300, 31309), (326, 31237), (328, 31228), (366, 31108), (372, 31084), (420, 30991), (448, 30943), (458, 30922), (476, 30883), (523, 30751), (532, 30730), (556, 30685), (559, 30673), (609, 30520), (611, 30499), (646, 30376), (656, 30346), (666, 30307), (683, 30241), (685, 30238), (691, 30223), (698, 30199), (704, 30175), (775, 29968), (812, 29833), (816, 29821), (820, 29812),

Gene: Ohno789_45 Start: 35178, Stop: 33352, Start Num: 191

Candidate Starts for Ohno789_45:

(Start: 191 @35178 has 828 MA's), (274, 34965), (307, 34902), (314, 34872), (322, 34851), (326, 34845), (328, 34836), (365, 34719), (372, 34692), (420, 34599), (428, 34584), (470, 34500), (472, 34497), (494, 34431), (518, 34371), (534, 34326), (556, 34287), (611, 34107), (623, 34059), (637, 34020), (656, 33954), (666, 33915), (676, 33894), (683, 33873), (691, 33855), (712, 33789), (770, 33639), (771, 33636), (778, 33600), (785, 33576), (788, 33567), (792, 33555), (812, 33480), (820, 33459),

Gene: Olak_61 Start: 54034, Stop: 52175, Start Num: 149

Candidate Starts for Olak_61:

(Start: 133 @54058 has 1 MA's), (Start: 149 @54034 has 248 MA's), (Start: 174 @54010 has 5 MA's), (Start: 186 @54004 has 3 MA's), (205, 53962), (212, 53941), (254, 53827), (256, 53821), (269, 53791), (296, 53731), (306, 53710), (323, 53656), (327, 53644), (332, 53626), (335, 53614), (372, 53509), (389, 53452), (400, 53416), (402, 53404), (411, 53377), (421, 53350), (432, 53332), (442, 53314), (465, 53275), (469, 53266), (471, 53263), (576, 53005), (607, 52903), (612, 52870), (617, 52849), (647, 52756), (651, 52747), (668, 52684), (683, 52648), (685, 52645), (691, 52630), (717, 52552), (722, 52540), (730, 52519), (748, 52480), (775, 52390), (779, 52372), (781, 52366), (785, 52351), (793, 52327), (795, 52312), (796, 52309), (799, 52297), (809, 52273), (830, 52225), (840, 52201),

Gene: OlanP_47 Start: 31923, Stop: 30109, Start Num: 191

Candidate Starts for OlanP_47:

(Start: 191 @31923 has 828 MA's), (206, 31884), (209, 31872), (271, 31719), (276, 31704), (307, 31647), (326, 31590), (328, 31581), (340, 31539), (355, 31488), (372, 31437), (420, 31344), (446, 31296), (458, 31272), (476, 31233), (484, 31206), (494, 31176), (528, 31083), (534, 31071), (558, 31023), (559, 31020), (565, 31008), (611, 30852), (625, 30801), (636, 30768), (637, 30765), (656, 30699), (666, 30660), (685, 30588), (698, 30549), (704, 30525), (712, 30507), (726, 30474), (760, 30393), (775, 30333), (779, 30315), (795, 30255), (798, 30246), (812, 30198), (816, 30186), (820, 30177),

Gene: Oline_61 Start: 54135, Stop: 52276, Start Num: 149

Candidate Starts for Oline_61:

(Start: 133 @54159 has 1 MA's), (Start: 149 @54135 has 248 MA's), (Start: 174 @54111 has 5 MA's), (Start: 186 @54105 has 3 MA's), (205, 54063), (212, 54042), (254, 53928), (256, 53922), (269, 53892), (296, 53832), (306, 53811), (323, 53757), (327, 53745), (332, 53727), (335, 53715), (372, 53610), (389, 53553), (400, 53517), (402, 53505), (410, 53481), (414, 53469), (421, 53451), (432, 53433), (442, 53415), (465, 53376), (469, 53367), (471, 53364), (473, 53361), (607, 53004), (612, 52971), (617, 52950), (647, 52857), (651, 52848), (668, 52785), (683, 52749), (685, 52746), (691, 52731), (717, 52653), (722, 52641), (730, 52620), (748, 52581), (775, 52491), (779, 52473), (781, 52467), (785, 52452), (793, 52428), (795, 52413), (796, 52410), (799, 52398), (809, 52374), (830, 52326), (840, 52302), (845, 52287),

Gene: Olive_60 Start: 54247, Stop: 52388, Start Num: 149

Candidate Starts for Olive_60:

(Start: 133 @54271 has 1 MA's), (Start: 149 @54247 has 248 MA's), (Start: 174 @54223 has 5 MA's), (Start: 186 @54217 has 3 MA's), (205, 54175), (212, 54154), (254, 54040), (256, 54034), (269, 54004), (296, 53944), (306, 53923), (323, 53869), (327, 53857), (332, 53839), (335, 53827), (372, 53722), (389, 53665), (400, 53629), (402, 53617), (410, 53593), (414, 53581), (421, 53563), (432, 53545), (442, 53527), (465, 53488), (469, 53479), (471, 53476), (473, 53473), (607, 53116), (612, 53083), (617, 53062), (647, 52969), (651, 52960), (668, 52897), (683, 52861), (685, 52858), (691, 52843), (717, 52765), (722, 52753), (730, 52732), (748, 52693), (775, 52603), (779, 52585), (781, 52579), (785, 52564), (793, 52540), (795, 52525), (796, 52522), (799, 52510), (809, 52486), (830, 52438), (840, 52414),

Gene: OliverWalter_59 Start: 54066, Stop: 52207, Start Num: 149

Candidate Starts for OliverWalter_59:

(Start: 133 @54090 has 1 MA's), (Start: 149 @54066 has 248 MA's), (Start: 174 @54042 has 5 MA's), (Start: 186 @54036 has 3 MA's), (205, 53994), (212, 53973), (254, 53859), (256, 53853), (269, 53823), (296, 53763), (306, 53742), (323, 53688), (327, 53676), (332, 53658), (335, 53646), (372, 53541), (389, 53484), (400, 53448), (402, 53436), (411, 53409), (414, 53400), (432, 53364), (465, 53307), (469, 53298), (471, 53295), (473, 53292), (607, 52935), (612, 52902), (617, 52881), (647, 52788), (651, 52779), (668, 52716), (683, 52680), (685, 52677), (691, 52662), (717, 52584), (722, 52572), (730, 52551), (748, 52512), (775, 52422), (779, 52404), (781, 52398), (785, 52383), (793, 52359), (795, 52344), (796, 52341), (799, 52329), (809, 52305), (830, 52257), (840, 52233),

Gene: Ollie_48 Start: 31724, Stop: 29910, Start Num: 191

Candidate Starts for Ollie_48:

(Start: 191 @31724 has 828 MA's), (206, 31685), (209, 31673), (271, 31520), (276, 31505), (307, 31448), (326, 31391), (328, 31382), (340, 31340), (355, 31289), (372, 31238), (420, 31145), (446, 31097), (451, 31088), (458, 31073), (476, 31034), (484, 31007), (494, 30977), (528, 30884), (534, 30872), (558, 30824), (565, 30809), (611, 30653), (623, 30605), (637, 30566), (656, 30500), (666, 30461), (685, 30389), (698, 30350), (704, 30326), (712, 30308), (726, 30275), (737, 30248), (760, 30194), (775, 30134), (795, 30056), (812, 29999), (816, 29987), (820, 29978),

Gene: Omniscient_61 Start: 54894, Stop: 53035, Start Num: 149

Candidate Starts for Omniscient_61:

(Start: 133 @54918 has 1 MA's), (Start: 149 @54894 has 248 MA's), (Start: 174 @54870 has 5 MA's), (Start: 186 @54864 has 3 MA's), (205, 54822), (212, 54801), (254, 54687), (256, 54681), (269, 54651), (296, 54591), (306, 54570), (323, 54516), (327, 54504), (332, 54486), (335, 54474), (372, 54369), (389, 54312), (400, 54276), (402, 54264), (410, 54240), (414, 54228), (421, 54210), (432, 54192), (442, 54174), (465, 54135), (469, 54126), (471, 54123), (473, 54120), (607, 53763), (612, 53730), (617, 53709), (647, 53616), (651, 53607), (668, 53544), (683, 53508), (685, 53505), (691, 53490), (717, 53412), (722, 53400), (730, 53379), (748, 53340), (775, 53250), (779, 53232), (781, 53226), (785, 53211), (793, 53187), (795, 53172), (796, 53169), (799, 53157), (809, 53133), (830, 53085), (840, 53061),

Gene: Oofda_48 Start: 29834, Stop: 28044, Start Num: 191

Candidate Starts for Oofda_48:

(Start: 191 @29834 has 828 MA's), (307, 29555), (308, 29552), (314, 29525), (326, 29498), (340, 29447), (372, 29345), (420, 29252), (441, 29213), (451, 29195), (523, 29006), (556, 28940), (583, 28880), (592, 28841), (607, 28790), (609, 28781), (611, 28760), (625, 28709), (636, 28676), (644, 28643), (646, 28637), (656, 28607), (676, 28547), (683, 28526), (698, 28484), (705, 28457), (750, 28355), (770, 28292), (771, 28289), (812, 28133), (816, 28121), (821, 28109),

Gene: Oogway_42 Start: 33561, Stop: 31732, Start Num: 191

Candidate Starts for Oogway_42:

(Start: 191 @33561 has 828 MA's), (274, 33348), (283, 33333), (314, 33255), (322, 33234), (326, 33228), (328, 33219), (365, 33102), (372, 33075), (420, 32982), (428, 32967), (446, 32934), (470, 32883), (472, 32880), (494, 32814), (508, 32784), (518, 32754), (534, 32709), (556, 32670), (611, 32490), (623, 32442), (639, 32394), (651, 32355), (656, 32337), (666, 32298), (676, 32277), (683, 32256), (690, 32241), (733, 32118), (789, 31947), (794, 31923), (808, 31875), (812, 31863), (820, 31842), (823, 31836), (842, 31788), (849, 31773),

Gene: Oosterbaan_60 Start: 54313, Stop: 52454, Start Num: 149

Candidate Starts for Oosterbaan_60:

(Start: 133 @54337 has 1 MA's), (Start: 149 @54313 has 248 MA's), (Start: 174 @54289 has 5 MA's), (Start: 186 @54283 has 3 MA's), (205, 54241), (212, 54220), (254, 54106), (256, 54100), (269, 54070), (296, 54010), (306, 53989), (323, 53935), (327, 53923), (332, 53905), (335, 53893), (372, 53788), (389, 53731), (400, 53695), (402, 53683), (411, 53656), (421, 53629), (432, 53611), (442, 53593), (465, 53554), (469, 53545), (471, 53542), (576, 53284), (607, 53182), (612, 53149), (617, 53128), (647, 53035), (651, 53026), (668, 52963), (683, 52927), (685, 52924), (691, 52909), (717, 52831), (722, 52819), (730, 52798), (748, 52759), (775, 52669), (779, 52651), (781, 52645), (785, 52630), (793, 52606), (795, 52591), (796, 52588), (799, 52576), (809, 52552), (830, 52504), (840, 52480),

Gene: Opia_57 Start: 52500, Stop: 50671, Start Num: 147

Candidate Starts for Opia_57:

(Start: 147 @52500 has 31 MA's), (Start: 186 @52473 has 3 MA's), (202, 52443), (205, 52431), (215, 52404), (216, 52401), (221, 52392), (235, 52374), (272, 52278), (296, 52227), (307, 52203), (312, 52179), (358, 52041), (368, 52017), (372, 52005), (389, 51948), (400, 51912), (402, 51900), (410, 51876), (456, 51792), (469, 51762), (471, 51759), (483, 51729), (542, 51585), (565, 51519), (586, 51480), (589, 51468), (595, 51447), (601, 51429), (612, 51372), (633, 51315), (639, 51288), (647, 51258), (651, 51249), (668, 51183), (679, 51156), (683, 51147), (691, 51129), (698, 51105), (717, 51051), (722, 51039), (730, 51018), (760, 50949), (775, 50889), (779, 50871), (789, 50838), (793, 50826), (795, 50811), (796, 50808), (799, 50796), (809, 50772), (810, 50769), (830, 50721), (832, 50718), (840, 50697), (847, 50676),

Gene: Orange_44 Start: 30325, Stop: 28538, Start Num: 191

Candidate Starts for Orange_44:

(Start: 191 @30325 has 828 MA's), (271, 30121), (307, 30049), (314, 30019), (326, 29992), (423, 29740), (451, 29689), (484, 29608), (501, 29563), (532, 29479), (559, 29422), (581, 29380), (592, 29335), (611, 29254), (625, 29203), (637, 29167), (656, 29101), (676, 29041), (679, 29029), (716, 28927), (726, 28903), (732, 28885), (760, 28822), (768, 28795), (770, 28786), (775, 28762), (812, 28627), (816, 28615), (820, 28606),

Gene: OrangeOswald_58 Start: 53684, Stop: 51867, Start Num: 183

Candidate Starts for OrangeOswald_58:

(80, 53867), (Start: 183 @53684 has 42 MA's), (201, 53654), (274, 53474), (316, 53369), (331, 53321), (334, 53309), (343, 53279), (349, 53273), (372, 53210), (375, 53204), (389, 53153), (400, 53117), (414, 53069), (471, 52964), (510, 52868), (533, 52817), (589, 52673), (601, 52634), (608, 52604), (612, 52577), (616, 52565), (645, 52469), (647, 52463), (651, 52454), (655, 52442), (674, 52370), (683, 52340), (691, 52322), (694, 52313), (717, 52244), (722, 52232), (730, 52211), (760, 52142), (765, 52127), (771, 52103), (775, 52082), (779, 52064), (781, 52058), (791, 52025), (793, 52019), (796, 52001), (799, 51989), (805, 51977), (809, 51965), (826, 51923), (840, 51893),

Gene: Orfeu_60 Start: 54570, Stop: 52711, Start Num: 149

Candidate Starts for Orfeu_60:

(Start: 133 @54594 has 1 MA's), (Start: 149 @54570 has 248 MA's), (Start: 174 @54546 has 5 MA's), (Start: 186 @54540 has 3 MA's), (205, 54498), (212, 54477), (254, 54363), (256, 54357), (269, 54327), (296, 54267), (306, 54246), (323, 54192), (327, 54180), (332, 54162), (335, 54150), (372, 54045), (389, 53988), (400, 53952), (402, 53940), (411, 53913), (421, 53886), (432, 53868), (442, 53850), (465, 53811), (469, 53802), (471, 53799), (473, 53796), (607, 53439), (612, 53406), (617, 53385), (647, 53292), (651, 53283), (668, 53220), (683, 53184), (685, 53181), (691, 53166), (717, 53088), (722, 53076), (730, 53055), (748, 53016), (775, 52926), (779, 52908), (781, 52902), (785, 52887), (793, 52863), (795, 52848), (796, 52845), (799, 52833), (809, 52809), (830, 52761), (840, 52737),

Gene: Orion_62 Start: 53975, Stop: 52116, Start Num: 149

Candidate Starts for Orion_62:

(Start: 133 @53999 has 1 MA's), (Start: 149 @53975 has 248 MA's), (Start: 174 @53951 has 5 MA's), (Start: 186 @53945 has 3 MA's), (205, 53903), (212, 53882), (254, 53768), (256, 53762), (269, 53732), (296, 53672), (306, 53651), (323, 53597), (327, 53585), (332, 53567), (335, 53555), (372, 53450), (389, 53393), (400, 53357), (402, 53345), (411, 53318), (421, 53291), (432, 53273), (442, 53255), (465, 53216), (469, 53207), (471, 53204), (576, 52946), (607, 52844), (612, 52811), (617, 52790), (647, 52697), (651, 52688), (668, 52625), (683, 52589), (685, 52586), (691, 52571), (717, 52493), (722, 52481), (730, 52460), (748, 52421), (775, 52331), (779, 52313), (781, 52307), (785, 52292), (793, 52268), (795, 52253), (796, 52250), (799, 52238), (809, 52214), (830, 52166), (840, 52142),

Gene: Orwigg_61 Start: 53955, Stop: 52096, Start Num: 149

Candidate Starts for Orwigg_61:

(Start: 133 @53979 has 1 MA's), (Start: 149 @53955 has 248 MA's), (Start: 174 @53931 has 5 MA's), (Start: 186 @53925 has 3 MA's), (205, 53883), (212, 53862), (254, 53748), (256, 53742), (269, 53712), (296, 53652), (306, 53631), (323, 53577), (327, 53565), (332, 53547), (335, 53535), (372, 53430), (389, 53373), (400, 53337), (402, 53325), (410, 53301), (414, 53289), (421, 53271), (432, 53253), (442, 53235), (465, 53196), (469, 53187), (471, 53184), (473, 53181), (576, 52926), (607, 52824), (612, 52791), (617, 52770), (647, 52677), (651, 52668), (668, 52605), (683, 52569), (685, 52566), (691, 52551), (717, 52473), (722, 52461), (730, 52440), (748, 52401), (775, 52311), (779, 52293), (781, 52287), (785, 52272), (793, 52248), (795, 52233), (796, 52230), (799, 52218), (809, 52194), (830, 52146), (840, 52122),

Gene: P28Green_49 Start: 31855, Stop: 30041, Start Num: 191

Candidate Starts for P28Green_49:

(Start: 191 @31855 has 828 MA's), (206, 31816), (209, 31804), (271, 31651), (276, 31636), (307, 31579), (326, 31522), (328, 31513), (340, 31471), (355, 31420), (372, 31369), (420, 31276), (446, 31228), (451, 31219), (458, 31204), (476, 31165), (484, 31138), (494, 31108), (528, 31015), (558, 30955), (565, 30940), (611, 30784), (637, 30697), (656, 30631), (666, 30592), (685, 30520), (698, 30481), (704, 30457), (712, 30439), (726, 30406), (737, 30379), (760, 30325), (775, 30265), (795, 30187), (812, 30130), (816, 30118), (820, 30109),

Gene: PG1_61 Start: 54546, Stop: 52687, Start Num: 149

Candidate Starts for PG1_61:

(Start: 133 @54570 has 1 MA's), (Start: 149 @54546 has 248 MA's), (Start: 174 @54522 has 5 MA's), (Start: 186 @54516 has 3 MA's), (205, 54474), (212, 54453), (254, 54339), (256, 54333), (269, 54303), (296, 54243), (306, 54222), (323, 54168), (327, 54156), (332, 54138), (335, 54126), (372, 54021), (389, 53964), (400, 53928), (402, 53916), (411, 53889), (421, 53862), (432, 53844), (442, 53826), (465, 53787), (469, 53778), (471, 53775), (576, 53517), (607, 53415), (612, 53382), (617, 53361), (647, 53268), (651, 53259), (668, 53196), (683, 53160), (685, 53157), (691, 53142), (717, 53064), (722, 53052), (730, 53031), (748, 52992), (775, 52902), (779, 52884), (781, 52878), (785, 52863), (793, 52839), (795, 52824), (796, 52821), (799, 52809), (809, 52785), (830, 52737), (840, 52713),

Gene: PGHhamlin_50 Start: 31845, Stop: 30031, Start Num: 191

Candidate Starts for PGHhamlin_50:

(Start: 191 @31845 has 828 MA's), (206, 31806), (209, 31794), (271, 31641), (276, 31626), (307, 31569), (326, 31512), (328, 31503), (340, 31461), (355, 31410), (372, 31359), (420, 31266), (446, 31218), (451, 31209), (458, 31194), (476, 31155), (484, 31128), (494, 31098), (528, 31005), (534, 30993), (558, 30945), (565, 30930), (611, 30774), (637, 30687), (656, 30621), (666, 30582), (685, 30510), (698, 30471), (704, 30447), (712, 30429), (726, 30396), (737, 30369), (760, 30315), (775, 30255), (795, 30177), (812, 30120), (816, 30108), (820, 30099),

Gene: PP_46 Start: 35109, Stop: 33271, Start Num: 191

Candidate Starts for PP_46:

(Start: 191 @35109 has 828 MA's), (209, 35058), (271, 34905), (274, 34896), (283, 34881), (302, 34845), (326, 34776), (328, 34767), (331, 34755), (372, 34623), (420, 34527), (448, 34479), (451, 34473), (476, 34419), (532, 34266), (556, 34221), (611, 34029), (618, 33999), (651, 33894), (656, 33876), (657, 33873), (666, 33837), (685, 33765), (691, 33750), (711, 33687), (758, 33561), (775, 33495), (812, 33360), (816, 33348), (820, 33339),

Gene: PSullivan_44 Start: 33947, Stop: 32121, Start Num: 191

Candidate Starts for PSullivan_44:

(Start: 191 @33947 has 828 MA's), (274, 33734), (283, 33719), (307, 33671), (314, 33641), (322, 33620), (326, 33614), (328, 33605), (365, 33488), (372, 33461), (420, 33368), (428, 33353), (439, 33332), (470, 33269), (472, 33266), (494, 33200), (508, 33170), (518, 33140), (534, 33095), (556, 33056), (611, 32876), (618, 32846), (623, 32828), (625, 32825), (637, 32789), (656, 32723), (666, 32684), (676, 32663), (683, 32642), (691, 32624), (712, 32558), (770, 32408), (771, 32405), (778, 32369), (788, 32336), (792, 32324), (812, 32249), (820, 32228),

Gene: PacerPaul_45 Start: 34817, Stop: 32991, Start Num: 191

Candidate Starts for PacerPaul_45:

(Start: 191 @34817 has 828 MA's), (274, 34604), (283, 34589), (314, 34511), (322, 34490), (326, 34484), (328, 34475), (365, 34358), (372, 34331), (420, 34238), (428, 34223), (446, 34190), (470, 34139), (472, 34136), (494, 34070), (508, 34040), (518, 34010), (534, 33965), (556, 33926), (611, 33746), (618, 33716), (623, 33698), (625, 33695), (637, 33659), (656, 33593), (683, 33512), (685, 33509), (712, 33428), (766, 33293), (770, 33278), (771, 33275), (778, 33239), (785, 33215), (788, 33206), (792, 33194), (798, 33167), (812, 33119), (820, 33098),

Gene: Pacifista_63 Start: 54030, Stop: 52171, Start Num: 149

Candidate Starts for Pacifista_63:

(Start: 133 @54054 has 1 MA's), (Start: 149 @54030 has 248 MA's), (Start: 174 @54006 has 5 MA's), (Start: 186 @54000 has 3 MA's), (205, 53958), (212, 53937), (254, 53823), (256, 53817), (269, 53787), (296, 53727), (306, 53706), (323, 53652), (327, 53640), (332, 53622), (335, 53610), (372, 53505), (389, 53448), (400, 53412), (402, 53400), (410, 53376), (414, 53364), (421, 53346), (432, 53328), (442, 53310), (465, 53271), (469, 53262), (471, 53259), (473, 53256), (607, 52899), (612, 52866), (617, 52845), (647, 52752), (651, 52743), (668, 52680), (683, 52644), (685, 52641), (691, 52626), (717, 52548), (722, 52536), (730, 52515), (748, 52476), (775, 52386), (779, 52368), (781, 52362), (785, 52347), (793, 52323), (795, 52308), (796, 52305), (799, 52293), (809, 52269), (830, 52221), (840, 52197),

Gene: PackMan_44 Start: 31483, Stop: 29690, Start Num: 191

Candidate Starts for PackMan_44:

(Start: 191 @31483 has 828 MA's), (196, 31474), (209, 31432), (261, 31312), (262, 31309), (279, 31261), (308, 31201), (315, 31171), (319, 31159), (326, 31147), (372, 30994), (420, 30901), (484, 30763), (494, 30733), (559, 30574), (565, 30562), (579, 30535), (609, 30427), (611, 30406), (651, 30271), (656, 30253), (683, 30172), (698, 30130), (726, 30055), (758, 29980), (770, 29938), (795, 29836), (812, 29779), (816, 29767), (820, 29758),

Gene: PainterBoy_45 Start: 30908, Stop: 29076, Start Num: 191

Candidate Starts for PainterBoy_45:

(Start: 191 @30908 has 828 MA's), (271, 30704), (272, 30701), (291, 30665), (307, 30632), (308, 30629), (314, 30602), (322, 30581), (326, 30575), (328, 30566), (340, 30524), (366, 30446), (372, 30422), (420, 30329), (494, 30161), (579, 29963), (611, 29834), (639, 29738), (651, 29699), (656, 29681), (679, 29609), (683, 29600), (733, 29462), (768, 29375), (770, 29366), (795, 29264), (812, 29207), (816, 29195), (859, 29090),

Gene: Palestino_44 Start: 31570, Stop: 29741, Start Num: 191

Candidate Starts for Palestino_44:

(Start: 191 @31570 has 828 MA's), (201, 31549), (209, 31519), (221, 31489), (291, 31327), (300, 31309), (326, 31237), (328, 31228), (366, 31108), (372, 31084), (420, 30991), (448, 30943), (458, 30922), (476, 30883), (490, 30838), (492, 30832), (523, 30751), (532, 30730), (556, 30685), (609, 30520), (611, 30499), (656, 30346), (665, 30310), (666, 30307), (683, 30238), (685, 30235), (691, 30220), (698, 30196), (704, 30172), (775, 29965), (812, 29830), (816, 29818), (820, 29809),

Gene: Panamaxus_42 Start: 31597, Stop: 29759, Start Num: 191

Candidate Starts for Panamaxus_42:

(Start: 191 @31597 has 828 MA's), (209, 31546), (271, 31393), (307, 31321), (314, 31291), (326, 31264), (328, 31255), (372, 31111), (420, 31015), (448, 30967), (476, 30907), (509, 30820), (523, 30775), (532, 30754), (566, 30682), (582, 30640), (592, 30598), (611, 30517), (623, 30469), (637, 30430), (646, 30394), (656, 30364), (664, 30334), (685, 30253), (698, 30214), (704, 30190), (712, 30172), (713, 30169), (760, 30043), (775, 29983), (798, 29896), (812, 29848), (816, 29836), (820, 29827),

Gene: Papez_47 Start: 36969, Stop: 35152, Start Num: 191

Candidate Starts for Papez_47:

(Start: 191 @36969 has 828 MA's), (274, 36756), (307, 36693), (314, 36663), (322, 36642), (326, 36636), (328, 36627), (355, 36534), (365, 36510), (372, 36483), (420, 36390), (428, 36375), (446, 36342), (470, 36291), (472, 36288), (494, 36222), (518, 36162), (534, 36117), (556, 36078), (611, 35898), (623, 35850), (636, 35814), (637, 35811), (656, 35745), (666, 35706), (676, 35685), (683, 35664), (691, 35646), (712, 35580), (770, 35430), (771, 35427), (778, 35391), (785, 35367), (788, 35358), (792, 35346), (812, 35271), (820, 35250),

Gene: Paphu_43 Start: 34328, Stop: 32499, Start Num: 191

Candidate Starts for Paphu_43:

(Start: 191 @34328 has 828 MA's), (274, 34115), (283, 34100), (314, 34022), (322, 34001), (326, 33995), (328, 33986), (365, 33869), (372, 33842), (420, 33749), (428, 33734), (446, 33701), (470, 33650), (472, 33647), (494, 33581), (508, 33551), (518, 33521), (534, 33476), (556, 33437), (611, 33257), (623, 33209), (639, 33161), (651, 33122), (656, 33104), (666, 33065), (676, 33044), (683, 33023), (690, 33008), (733, 32885), (789, 32714), (794, 32690), (808, 32642), (812, 32630), (820, 32609), (823, 32603), (842, 32555), (849, 32540),

Gene: Paraselene_43 Start: 34680, Stop: 32854, Start Num: 191

Candidate Starts for Paraselene_43:

(Start: 191 @34680 has 828 MA's), (274, 34467), (283, 34452), (307, 34404), (314, 34374), (322, 34353), (326, 34347), (328, 34338), (365, 34221), (372, 34194), (420, 34101), (428, 34086), (446, 34053), (470, 34002), (472, 33999), (494, 33933), (508, 33903), (518, 33873), (534, 33828), (556, 33789), (611, 33609), (623, 33561), (637, 33522), (656, 33456), (666, 33417), (676, 33396), (683, 33375), (691, 33357), (712, 33291), (770, 33141), (771, 33138), (778, 33102), (785, 33078), (788, 33069), (792, 33057), (812, 32982), (820, 32961),

Gene: Pari_45 Start: 34105, Stop: 32279, Start Num: 191

Candidate Starts for Pari_45:

(Start: 191 @34105 has 828 MA's), (274, 33892), (283, 33877), (307, 33829), (314, 33799), (322, 33778), (326, 33772), (328, 33763), (365, 33646), (372, 33619), (420, 33526), (428, 33511), (470, 33427), (472, 33424), (494, 33358), (508, 33328), (518, 33298), (534, 33253), (556, 33214), (611, 33034), (623, 32986), (637, 32947), (656, 32881), (666, 32842), (676, 32821), (683, 32800), (691, 32782), (712, 32716), (770, 32566), (771, 32563), (778, 32527), (788, 32494), (792, 32482), (812, 32407), (820, 32386),

Gene: Parliament_44 Start: 34876, Stop: 33050, Start Num: 191

Candidate Starts for Parliament_44:

(Start: 191 @34876 has 828 MA's), (274, 34663), (307, 34600), (314, 34570), (322, 34549), (326, 34543), (328, 34534), (365, 34417), (372, 34390), (420, 34297), (428, 34282), (470, 34198), (472, 34195), (494, 34129), (508, 34099), (518, 34069), (534, 34024), (556, 33985), (611, 33805), (623, 33757), (625, 33754), (637, 33718), (656, 33652), (666, 33613), (676, 33592), (683, 33571), (691, 33553), (712, 33487), (770, 33337), (771, 33334), (778, 33298), (785, 33274), (788, 33265), (792, 33253), (812, 33178), (820, 33157),

Gene: Partridge_36 Start: 28196, Stop: 26412, Start Num: 191

Candidate Starts for Partridge_36:

(Start: 191 @28196 has 828 MA's), (261, 28025), (288, 27962), (306, 27923), (319, 27875), (326, 27863), (328, 27854), (372, 27710), (420, 27617), (446, 27569), (476, 27506), (484, 27479), (523, 27374), (534, 27347), (556, 27308), (611, 27128), (623, 27080), (656, 26975), (657, 26972), (676, 26915), (683, 26894), (700, 26846), (727, 26771), (758, 26702), (770, 26660), (771, 26657), (775, 26636), (778, 26621), (795, 26558), (812, 26501), (816, 26489), (834, 26450), (839, 26432),

Gene: PascalRango_45 Start: 34446, Stop: 32620, Start Num: 191

Candidate Starts for PascalRango_45:

(Start: 191 @34446 has 828 MA's), (274, 34233), (283, 34218), (307, 34170), (314, 34140), (322, 34119), (326, 34113), (328, 34104), (365, 33987), (372, 33960), (420, 33867), (428, 33852), (470, 33768), (472, 33765), (494, 33699), (508, 33669), (518, 33639), (534, 33594), (556, 33555), (611, 33375), (618, 33345), (623, 33327), (637, 33288), (656, 33222), (683, 33141), (685, 33138), (712, 33057), (770, 32907), (771, 32904), (778, 32868), (785, 32844), (788, 32835), (792, 32823), (812, 32748), (820, 32727),

Gene: Patbob_100 Start: 78526, Stop: 80328, Start Num: 194

Candidate Starts for Patbob_100:

(Start: 194 @78526 has 1 MA's), (216, 78589), (221, 78601), (266, 78712), (293, 78766), (327, 78847), (334, 78874), (336, 78880), (365, 78949), (376, 78985), (420, 79054), (464, 79132), (476, 79159), (481, 79174), (556, 79363), (572, 79408), (582, 79432), (584, 79441), (588, 79459), (597, 79492), (609, 79531), (611, 79552), (614, 79558), (644, 79672), (665, 79756), (669, 79774), (680, 79822), (686, 79834), (698, 79870), (708, 79903), (712, 79912), (730, 79957), (738, 79975), (765, 80059), (770, 80080), (776, 80107), (794, 80179), (800, 80203), (812, 80239), (823, 80266),

Gene: PattyP_45 Start: 34329, Stop: 32500, Start Num: 191

Candidate Starts for PattyP_45:

(Start: 191 @34329 has 828 MA's), (274, 34116), (283, 34101), (307, 34053), (314, 34023), (322, 34002), (326, 33996), (328, 33987), (351, 33903), (365, 33870), (372, 33843), (420, 33750), (428, 33735), (470, 33651), (472, 33648), (494, 33582), (508, 33552), (518, 33522), (534, 33477), (556, 33438), (611, 33258), (623, 33210), (639, 33162), (651, 33123), (656, 33105), (666, 33066), (676, 33045), (683, 33024), (690, 33009), (733, 32886), (789, 32715), (794, 32691), (808, 32643), (812, 32631), (820, 32610), (823, 32604), (842, 32556), (849, 32541),

Gene: PauloDiaboli_117 Start: 81175, Stop: 79307, Start Num: 191

Candidate Starts for PauloDiaboli_117:

(Start: 141 @81250 has 23 MA's), (176, 81196), (Start: 180 @81187 has 7 MA's), (Start: 191 @81175 has 828 MA's), (264, 80977), (272, 80950), (293, 80911), (317, 80848), (327, 80830), (334, 80803), (336, 80797), (376, 80689), (425, 80611), (436, 80590), (452, 80557), (464, 80527), (476, 80500), (496, 80440), (536, 80335), (556, 80302), (582, 80233), (584, 80224), (611, 80113), (642, 79999), (664, 79915), (668, 79900), (698, 79789), (700, 79783), (702, 79771), (708, 79756), (751, 79654), (755, 79645), (775, 79555), (785, 79516), (789, 79504), (795, 79477), (812, 79420), (821, 79396),

Gene: Pawn_48 Start: 31757, Stop: 29943, Start Num: 191

Candidate Starts for Pawn_48:

(Start: 191 @31757 has 828 MA's), (206, 31718), (209, 31706), (271, 31553), (276, 31538), (307, 31481), (326, 31424), (328, 31415), (340, 31373), (355, 31322), (372, 31271), (420, 31178), (446, 31130), (458, 31106), (476, 31067), (484, 31040), (494, 31010), (528, 30917), (534, 30905), (558, 30857), (565, 30842), (611, 30686), (625, 30635), (636, 30602), (637, 30599), (656, 30533), (666, 30494), (685, 30422), (698, 30383), (704, 30359), (712, 30341), (726, 30308), (760, 30227), (775, 30167), (779, 30149), (795, 30089), (798, 30080), (812, 30032), (816, 30020), (820, 30011),

Gene: Payneful_43 Start: 33908, Stop: 32082, Start Num: 191

Candidate Starts for Payneful_43:

(Start: 191 @33908 has 828 MA's), (274, 33695), (283, 33680), (314, 33602), (322, 33581), (326, 33575), (328, 33566), (365, 33449), (372, 33422), (420, 33329), (428, 33314), (470, 33230), (472, 33227), (494, 33161), (508, 33131), (518, 33101), (534, 33056), (556, 33017), (611, 32837), (618, 32807), (623, 32789), (625, 32786), (637, 32750), (656, 32684), (683, 32603), (685, 32600), (712, 32519), (770, 32369), (771, 32366), (778, 32330), (785, 32306), (788, 32297), (792, 32285), (798, 32258), (812, 32210), (820, 32189),

Gene: PeaceMeal1_42 Start: 30387, Stop: 28555, Start Num: 191

Candidate Starts for PeaceMeal1_42:

(Start: 191 @30387 has 828 MA's), (209, 30336), (236, 30270), (271, 30183), (274, 30174), (302, 30123), (307, 30111), (326, 30054), (347, 29973), (351, 29961), (355, 29952), (366, 29925), (372, 29901), (420, 29808), (441, 29769), (476, 29700), (484, 29673), (534, 29541), (611, 29313), (632, 29247), (646, 29190), (656, 29160), (666, 29121), (685, 29049), (691, 29034), (698, 29010), (712, 28968), (726, 28935), (775, 28779), (781, 28755), (798, 28692), (812, 28644), (816, 28632), (820, 28623),

Gene: Peaches_45 Start: 31569, Stop: 29743, Start Num: 191

Candidate Starts for Peaches_45:

(Start: 191 @31569 has 828 MA's), (201, 31548), (209, 31518), (221, 31488), (291, 31326), (300, 31308), (326, 31236), (328, 31227), (366, 31107), (372, 31083), (420, 30990), (448, 30942), (458, 30921), (476, 30882), (523, 30750), (532, 30729), (556, 30684), (559, 30672), (609, 30519), (611, 30498), (646, 30375), (656, 30345), (666, 30306), (683, 30240), (685, 30237), (691, 30222), (698, 30198), (704, 30174), (775, 29967), (812, 29832), (816, 29820), (820, 29811),

Gene: Pelly_44 Start: 34856, Stop: 33030, Start Num: 191

Candidate Starts for Pelly_44:

(Start: 191 @34856 has 828 MA's), (283, 34628), (307, 34580), (314, 34550), (322, 34529), (326, 34523), (328, 34514), (365, 34397), (372, 34370), (420, 34277), (428, 34262), (446, 34229), (470, 34178), (472, 34175), (490, 34121), (494, 34109), (508, 34079), (518, 34049), (534, 34004), (556, 33965), (611, 33785), (623, 33737), (637, 33698), (656, 33632), (666, 33593), (676, 33572), (683, 33551), (691, 33533), (712, 33467), (770, 33317), (771, 33314), (778, 33278), (785, 33254), (792, 33233), (798, 33206), (812, 33158), (820, 33137),

Gene: Pembroke_48 Start: 31854, Stop: 30040, Start Num: 191

Candidate Starts for Pembroke_48:

(Start: 191 @31854 has 828 MA's), (206, 31815), (209, 31803), (271, 31650), (276, 31635), (307, 31578), (326, 31521), (328, 31512), (340, 31470), (355, 31419), (372, 31368), (420, 31275), (446, 31227), (451, 31218), (458, 31203), (476, 31164), (484, 31137), (494, 31107), (528, 31014), (534, 31002), (558, 30954), (565, 30939), (611, 30783), (637, 30696), (656, 30630), (666, 30591), (685, 30519), (698, 30480), (704, 30456), (712, 30438), (726, 30405), (737, 30378), (760, 30324), (775, 30264), (795, 30186), (812, 30129), (816, 30117), (820, 30108),

Gene: PenguinLover67_56 Start: 54688, Stop: 52865, Start Num: 156

Candidate Starts for PenguinLover67_56:

(153, 54691), (Start: 156 @54688 has 1 MA's), (Start: 186 @54667 has 3 MA's), (201, 54640), (216, 54595), (226, 54586), (235, 54568), (272, 54475), (327, 54337), (334, 54313), (341, 54292), (372, 54205), (389, 54148), (400, 54112), (402, 54100), (410, 54076), (411, 54073), (414, 54064), (469, 53956), (471, 53953), (473, 53950), (483, 53923), (560, 53722), (589, 53656), (590, 53653), (595, 53635), (601, 53617), (607, 53593), (608, 53587), (612, 53560), (645, 53452), (647, 53446), (651, 53437), (683, 53338), (685, 53335), (691, 53320), (717, 53242), (722, 53230), (730, 53209), (738, 53191), (753, 53161), (765, 53125), (775, 53080), (779, 53062), (781, 53056), (783, 53047), (793, 53017), (794, 53005), (795, 53002), (809, 52963), (817, 52939), (830, 52915), (840, 52891), (847, 52870),

Gene: Penny1_49 Start: 31856, Stop: 30042, Start Num: 191

Candidate Starts for Penny1_49:

(Start: 191 @31856 has 828 MA's), (206, 31817), (209, 31805), (271, 31652), (276, 31637), (307, 31580), (326, 31523), (328, 31514), (340, 31472), (355, 31421), (372, 31370), (420, 31277), (446, 31229), (451, 31220), (458, 31205), (476, 31166), (484, 31139), (494, 31109), (528, 31016), (558, 30956), (565, 30941), (611, 30785), (637, 30698), (656, 30632), (666, 30593), (685, 30521), (698, 30482), (704, 30458), (712, 30440), (726, 30407), (737, 30380), (760, 30326), (775, 30266), (795, 30188), (812, 30131), (816, 30119), (820, 30110),

Gene: Pepe_42 Start: 33016, Stop: 31229, Start Num: 191

Candidate Starts for Pepe_42:

(Start: 191 @33016 has 828 MA's), (274, 32803), (283, 32788), (307, 32740), (314, 32710), (322, 32689), (326, 32683), (328, 32674), (365, 32557), (372, 32530), (420, 32437), (428, 32422), (470, 32338), (472, 32335), (494, 32269), (508, 32239), (518, 32209), (534, 32164), (556, 32125), (611, 31945), (623, 31897), (637, 31858), (656, 31792), (679, 31720), (683, 31711), (712, 31627), (750, 31540), (785, 31414), (789, 31402), (804, 31342), (812, 31318), (814, 31312),

Gene: Percival_49 Start: 32475, Stop: 34340, Start Num: 189

Candidate Starts for Percival_49:

(110, 32349), (Start: 151 @32418 has 3 MA's), (Start: 189 @32475 has 7 MA's), (314, 32772), (361, 32916), (423, 33069), (476, 33177), (484, 33204), (508, 33264), (528, 33324), (532, 33330), (559, 33387), (561, 33393), (592, 33507), (611, 33588), (631, 33651), (644, 33705), (646, 33711), (700, 33888), (704, 33906), (708, 33915), (713, 33927), (750, 34011), (779, 34119), (793, 34164), (812, 34236), (844, 34314), (856, 34335),

Gene: Perplexer_44 Start: 31519, Stop: 29690, Start Num: 191

Candidate Starts for Perplexer_44:

(Start: 191 @31519 has 828 MA's), (209, 31468), (221, 31438), (291, 31276), (300, 31258), (307, 31243), (326, 31186), (328, 31177), (366, 31057), (372, 31033), (401, 30991), (420, 30940), (448, 30892), (458, 30871), (476, 30832), (490, 30787), (492, 30781), (523, 30700), (532, 30679), (556, 30634), (609, 30469), (611, 30448), (656, 30295), (666, 30256), (685, 30184), (691, 30169), (698, 30145), (702, 30127), (704, 30121), (706, 30115), (775, 29914), (812, 29779), (816, 29767), (820, 29758),

Gene: Perseus_45 Start: 35152, Stop: 33323, Start Num: 191

Candidate Starts for Perseus_45:

(Start: 191 @35152 has 828 MA's), (274, 34939), (283, 34924), (314, 34846), (322, 34825), (326, 34819), (328, 34810), (351, 34726), (365, 34693), (372, 34666), (420, 34573), (428, 34558), (439, 34537), (446, 34525), (470, 34474), (472, 34471), (494, 34405), (508, 34375), (518, 34345), (534, 34300), (556, 34261), (611, 34081), (623, 34033), (639, 33985), (651, 33946), (656, 33928), (666,

33889), (676, 33868), (683, 33847), (690, 33832), (733, 33709), (789, 33538), (794, 33514), (808, 33466), (812, 33454), (820, 33433), (823, 33427), (842, 33379), (849, 33364),

Gene: PeterPeter_45 Start: 31567, Stop: 29741, Start Num: 191

Candidate Starts for PeterPeter_45:

(Start: 191 @31567 has 828 MA's), (201, 31546), (209, 31516), (221, 31486), (291, 31324), (300, 31306), (326, 31234), (328, 31225), (366, 31105), (372, 31081), (420, 30988), (448, 30940), (458, 30919), (476, 30880), (523, 30748), (532, 30727), (556, 30682), (559, 30670), (609, 30517), (611, 30496), (646, 30373), (656, 30343), (666, 30304), (683, 30238), (685, 30235), (691, 30220), (698, 30196), (704, 30172), (775, 29965), (812, 29830), (816, 29818), (820, 29809),

Gene: Petersenfast_43 Start: 30332, Stop: 28545, Start Num: 191

Candidate Starts for Petersenfast_43:

(Start: 191 @30332 has 828 MA's), (271, 30128), (307, 30056), (314, 30026), (326, 29999), (423, 29747), (451, 29696), (484, 29615), (501, 29570), (502, 29567), (532, 29486), (559, 29429), (581, 29387), (592, 29342), (611, 29261), (625, 29210), (637, 29174), (656, 29108), (676, 29048), (679, 29036), (716, 28934), (726, 28910), (732, 28892), (760, 28829), (768, 28802), (770, 28793), (775, 28769), (812, 28634), (816, 28622), (820, 28613),

Gene: Peterson_48 Start: 37027, Stop: 35201, Start Num: 191

Candidate Starts for Peterson_48:

(Start: 191 @37027 has 828 MA's), (274, 36814), (283, 36799), (314, 36721), (326, 36694), (365, 36568), (372, 36541), (420, 36448), (428, 36433), (446, 36400), (470, 36349), (472, 36346), (494, 36280), (508, 36250), (518, 36220), (534, 36175), (556, 36136), (611, 35956), (623, 35908), (637, 35869), (656, 35803), (666, 35764), (676, 35743), (683, 35722), (691, 35704), (712, 35638), (770, 35488), (771, 35485), (778, 35449), (785, 35425), (788, 35416), (792, 35404), (812, 35329), (820, 35308),

Gene: PetiteSangsue_44 Start: 31522, Stop: 29693, Start Num: 191

Candidate Starts for PetiteSangsue_44:

(Start: 191 @31522 has 828 MA's), (209, 31471), (221, 31441), (291, 31279), (300, 31261), (307, 31246), (326, 31189), (328, 31180), (366, 31060), (372, 31036), (401, 30994), (420, 30943), (448, 30895), (458, 30874), (476, 30835), (490, 30790), (492, 30784), (523, 30703), (532, 30682), (556, 30637), (609, 30472), (611, 30451), (656, 30298), (666, 30259), (685, 30187), (691, 30172), (698, 30148), (702, 30130), (704, 30124), (706, 30118), (775, 29917), (812, 29782), (816, 29770), (820, 29761),

Gene: Petp2012_45 Start: 34941, Stop: 33115, Start Num: 191

Candidate Starts for Petp2012_45:

(Start: 191 @34941 has 828 MA's), (274, 34728), (283, 34713), (307, 34665), (314, 34635), (322, 34614), (326, 34608), (328, 34599), (365, 34482), (372, 34455), (420, 34362), (428, 34347), (439, 34326), (470, 34263), (472, 34260), (494, 34194), (508, 34164), (518, 34134), (534, 34089), (556, 34050), (611, 33870), (623, 33822), (637, 33783), (656, 33717), (666, 33678), (676, 33657), (683, 33636), (691, 33618), (712, 33552), (770, 33402), (771, 33399), (778, 33363), (785, 33339), (788, 33330), (792, 33318), (812, 33243), (820, 33222),

Gene: Petruccio_45 Start: 34801, Stop: 32972, Start Num: 191

Candidate Starts for Petruccio_45:

(Start: 191 @34801 has 828 MA's), (274, 34588), (283, 34573), (307, 34525), (314, 34495), (322, 34474), (326, 34468), (328, 34459), (365, 34342), (372, 34315), (420, 34222), (428, 34207), (446, 34174), (470, 34123), (472, 34120), (490, 34066), (494, 34054), (508, 34024), (518, 33994), (534, 33949), (556, 33910), (611, 33730), (623, 33682), (639, 33634), (651, 33595), (656, 33577), (666, 33538), (676, 33517), (683, 33496), (690, 33481), (733, 33358), (789, 33187), (794, 33163), (808,

33115), (812, 33103), (820, 33082), (823, 33076), (842, 33028), (849, 33013),

Gene: PetterN_40 Start: 30056, Stop: 28191, Start Num: 191

Candidate Starts for PetterN_40:

(Start: 137 @30131 has 1 MA's), (Start: 164 @30089 has 2 MA's), (Start: 191 @30056 has 828 MA's),
(235, 29945), (271, 29852), (272, 29849), (307, 29780), (308, 29777), (314, 29750), (326, 29723),
(328, 29714), (351, 29630), (355, 29621), (361, 29606), (372, 29570), (407, 29510), (420, 29474),
(446, 29426), (457, 29405), (458, 29402), (483, 29342), (513, 29264), (528, 29216), (534, 29204),
(558, 29156), (576, 29105), (611, 28970), (623, 28922), (637, 28883), (639, 28874), (647, 28844),
(656, 28817), (657, 28814), (683, 28736), (691, 28718), (704, 28670), (726, 28619), (750, 28565),
(754, 28556), (760, 28538), (779, 28460), (812, 28343), (816, 28331), (859, 28226),

Gene: Ph8s_46 Start: 30526, Stop: 28739, Start Num: 191

Candidate Starts for Ph8s_46:

(Start: 191 @30526 has 828 MA's), (271, 30322), (307, 30250), (308, 30247), (314, 30220), (326,
30193), (331, 30172), (372, 30040), (420, 29947), (446, 29899), (484, 29809), (502, 29761), (611,
29455), (636, 29371), (637, 29368), (646, 29332), (656, 29302), (666, 29263), (676, 29242), (679,
29230), (683, 29221), (689, 29209), (726, 29104), (737, 29077), (754, 29041), (760, 29023), (770,
28987), (775, 28963), (812, 28828), (816, 28816), (820, 28807),

Gene: Phacado_45 Start: 31569, Stop: 29743, Start Num: 191

Candidate Starts for Phacado_45:

(Start: 191 @31569 has 828 MA's), (201, 31548), (209, 31518), (221, 31488), (291, 31326), (300,
31308), (326, 31236), (328, 31227), (366, 31107), (372, 31083), (420, 30990), (448, 30942), (458,
30921), (476, 30882), (523, 30750), (532, 30729), (556, 30684), (559, 30672), (609, 30519), (611,
30498), (646, 30375), (656, 30345), (666, 30306), (683, 30240), (685, 30237), (691, 30222), (698,
30198), (704, 30174), (775, 29967), (812, 29832), (816, 29820), (820, 29811),

Gene: Phaded_46 Start: 32625, Stop: 30835, Start Num: 191

Candidate Starts for Phaded_46:

(Start: 191 @32625 has 828 MA's), (271, 32421), (274, 32412), (308, 32343), (314, 32316), (326,
32289), (372, 32136), (420, 32043), (446, 31995), (451, 31986), (458, 31971), (484, 31905), (496,
31872), (526, 31788), (565, 31707), (581, 31677), (611, 31551), (618, 31521), (625, 31500), (646,
31428), (656, 31398), (666, 31359), (676, 31338), (683, 31317), (689, 31305), (754, 31137), (770,
31083), (775, 31059), (791, 31002), (795, 30981), (812, 30924), (816, 30912), (820, 30903),

Gene: Phaeder_45 Start: 31483, Stop: 29690, Start Num: 191

Candidate Starts for Phaeder_45:

(Start: 191 @31483 has 828 MA's), (196, 31474), (209, 31432), (261, 31312), (262, 31309), (279,
31261), (308, 31201), (315, 31171), (319, 31159), (326, 31147), (372, 30994), (420, 30901), (484,
30763), (494, 30733), (559, 30574), (565, 30562), (579, 30535), (609, 30427), (611, 30406), (651,
30271), (656, 30253), (683, 30172), (698, 30130), (726, 30055), (758, 29980), (770, 29938), (795,
29836), (812, 29779), (816, 29767), (820, 29758),

Gene: Phaerdrus_54 Start: 53117, Stop: 51300, Start Num: 183

Candidate Starts for Phaerdrus_54:

(80, 53300), (Start: 183 @53117 has 42 MA's), (201, 53087), (274, 52907), (331, 52754), (334,
52742), (343, 52712), (349, 52706), (372, 52643), (375, 52637), (389, 52586), (398, 52559), (400,
52550), (414, 52502), (471, 52397), (510, 52301), (533, 52250), (589, 52106), (601, 52067), (608,
52037), (612, 52010), (616, 51998), (645, 51902), (647, 51896), (651, 51887), (655, 51875), (674,
51803), (683, 51773), (691, 51755), (694, 51746), (717, 51677), (722, 51665), (730, 51644), (760,
51575), (765, 51560), (771, 51536), (775, 51515), (781, 51491), (793, 51452), (796, 51434), (799,
51422), (805, 51410), (809, 51398), (826, 51356), (840, 51326),

Gene: PhailMary_35 Start: 28435, Stop: 26651, Start Num: 191

Candidate Starts for PhailMary_35:

(Start: 191 @28435 has 828 MA's), (288, 28201), (302, 28171), (306, 28162), (307, 28159), (319, 28114), (326, 28102), (328, 28093), (340, 28051), (372, 27949), (380, 27928), (420, 27856), (444, 27811), (446, 27808), (466, 27766), (468, 27760), (476, 27745), (484, 27718), (523, 27613), (526, 27604), (534, 27586), (556, 27547), (582, 27490), (611, 27367), (623, 27319), (656, 27214), (657, 27211), (676, 27154), (683, 27133), (700, 27085), (727, 27010), (758, 26941), (770, 26899), (775, 26875), (795, 26797), (812, 26740), (816, 26728), (839, 26671),

Gene: Phamished_62 Start: 54237, Stop: 52378, Start Num: 149

Candidate Starts for Phamished_62:

(Start: 133 @54261 has 1 MA's), (Start: 149 @54237 has 248 MA's), (Start: 174 @54213 has 5 MA's), (Start: 186 @54207 has 3 MA's), (205, 54165), (212, 54144), (254, 54030), (256, 54024), (269, 53994), (296, 53934), (306, 53913), (323, 53859), (327, 53847), (332, 53829), (335, 53817), (372, 53712), (389, 53655), (400, 53619), (402, 53607), (410, 53583), (414, 53571), (421, 53553), (432, 53535), (442, 53517), (465, 53478), (469, 53469), (471, 53466), (473, 53463), (607, 53106), (612, 53073), (617, 53052), (647, 52959), (651, 52950), (668, 52887), (683, 52851), (685, 52848), (691, 52833), (717, 52755), (722, 52743), (730, 52722), (748, 52683), (775, 52593), (779, 52575), (781, 52569), (785, 52554), (793, 52530), (795, 52515), (796, 52512), (799, 52500), (809, 52476), (830, 52428), (840, 52404),

Gene: Phantasmagoria_57 Start: 52498, Stop: 50669, Start Num: 147

Candidate Starts for Phantasmagoria_57:

(Start: 147 @52498 has 31 MA's), (Start: 186 @52471 has 3 MA's), (202, 52441), (205, 52429), (215, 52402), (216, 52399), (221, 52390), (235, 52372), (272, 52276), (296, 52225), (307, 52201), (312, 52177), (358, 52039), (366, 52024), (368, 52015), (372, 52003), (389, 51946), (400, 51910), (402, 51898), (410, 51874), (456, 51790), (469, 51760), (471, 51757), (483, 51727), (542, 51583), (565, 51517), (589, 51466), (595, 51445), (601, 51427), (612, 51370), (633, 51313), (639, 51286), (647, 51256), (651, 51247), (668, 51181), (679, 51154), (683, 51145), (691, 51127), (698, 51103), (717, 51049), (722, 51037), (730, 51016), (760, 50947), (775, 50887), (779, 50869), (789, 50836), (793, 50824), (795, 50809), (796, 50806), (799, 50794), (809, 50770), (810, 50767), (830, 50719), (832, 50716), (840, 50695), (847, 50674),

Gene: Phantastic_46 Start: 31173, Stop: 29335, Start Num: 191

Candidate Starts for Phantastic_46:

(Start: 141 @31245 has 23 MA's), (Start: 191 @31173 has 828 MA's), (209, 31122), (271, 30969), (307, 30897), (326, 30840), (328, 30831), (331, 30819), (366, 30711), (372, 30687), (420, 30591), (448, 30543), (476, 30483), (498, 30420), (523, 30351), (532, 30330), (565, 30261), (582, 30216), (611, 30093), (623, 30045), (646, 29970), (656, 29940), (685, 29829), (691, 29814), (698, 29790), (704, 29766), (712, 29748), (758, 29625), (760, 29619), (768, 29592), (775, 29559), (812, 29424), (816, 29412), (820, 29403),

Gene: Pharaoh_39 Start: 30968, Stop: 29124, Start Num: 191

Candidate Starts for Pharaoh_39:

(Start: 191 @30968 has 828 MA's), (201, 30947), (205, 30932), (208, 30920), (274, 30755), (291, 30722), (307, 30689), (308, 30686), (314, 30659), (326, 30632), (331, 30611), (372, 30479), (420, 30386), (446, 30338), (451, 30329), (458, 30314), (476, 30275), (484, 30248), (502, 30200), (526, 30131), (565, 30050), (581, 30008), (597, 29945), (611, 29882), (625, 29831), (637, 29795), (646, 29759), (656, 29729), (666, 29690), (676, 29669), (683, 29648), (726, 29531), (754, 29468), (770, 29414), (775, 29390), (791, 29333), (795, 29312), (812, 29255), (816, 29243), (839, 29186),

Gene: Phareon_59 Start: 53752, Stop: 51893, Start Num: 149

Candidate Starts for Phareon_59:

(Start: 133 @53776 has 1 MA's), (Start: 149 @53752 has 248 MA's), (Start: 174 @53728 has 5 MA's), (Start: 186 @53722 has 3 MA's), (205, 53680), (212, 53659), (254, 53545), (256, 53539), (269, 53509), (296, 53449), (306, 53428), (323, 53374), (327, 53362), (332, 53344), (335, 53332), (372, 53227), (389, 53170), (400, 53134), (402, 53122), (410, 53098), (414, 53086), (421, 53068), (432, 53050), (442, 53032), (465, 52993), (469, 52984), (471, 52981), (473, 52978), (607, 52621), (612, 52588), (617, 52567), (647, 52474), (651, 52465), (668, 52402), (683, 52366), (685, 52363), (691, 52348), (717, 52270), (722, 52258), (730, 52237), (748, 52198), (775, 52108), (779, 52090), (781, 52084), (785, 52069), (793, 52045), (795, 52030), (796, 52027), (799, 52015), (809, 51991), (830, 51943), (840, 51919),

Gene: PhatCats2014_61 Start: 54551, Stop: 52692, Start Num: 149

Candidate Starts for PhatCats2014_61:

(Start: 133 @54575 has 1 MA's), (Start: 149 @54551 has 248 MA's), (Start: 174 @54527 has 5 MA's), (Start: 186 @54521 has 3 MA's), (205, 54479), (212, 54458), (254, 54344), (256, 54338), (269, 54308), (296, 54248), (306, 54227), (323, 54173), (327, 54161), (332, 54143), (335, 54131), (372, 54026), (389, 53969), (400, 53933), (402, 53921), (411, 53894), (421, 53867), (432, 53849), (442, 53831), (465, 53792), (469, 53783), (471, 53780), (576, 53522), (607, 53420), (612, 53387), (617, 53366), (647, 53273), (651, 53264), (668, 53201), (683, 53165), (685, 53162), (691, 53147), (717, 53069), (722, 53057), (730, 53036), (748, 52997), (775, 52907), (779, 52889), (781, 52883), (785, 52868), (793, 52844), (795, 52829), (796, 52826), (799, 52814), (809, 52790), (830, 52742), (840, 52718),

Gene: PhatLouie_62 Start: 54569, Stop: 52710, Start Num: 149

Candidate Starts for PhatLouie_62:

(Start: 133 @54593 has 1 MA's), (Start: 149 @54569 has 248 MA's), (Start: 174 @54545 has 5 MA's), (Start: 186 @54539 has 3 MA's), (205, 54497), (212, 54476), (254, 54362), (256, 54356), (269, 54326), (296, 54266), (306, 54245), (323, 54191), (327, 54179), (332, 54161), (335, 54149), (372, 54044), (389, 53987), (400, 53951), (402, 53939), (410, 53915), (414, 53903), (421, 53885), (432, 53867), (442, 53849), (465, 53810), (469, 53801), (471, 53798), (473, 53795), (607, 53438), (612, 53405), (617, 53384), (647, 53291), (651, 53282), (668, 53219), (683, 53183), (685, 53180), (691, 53165), (717, 53087), (722, 53075), (730, 53054), (748, 53015), (775, 52925), (779, 52907), (781, 52901), (785, 52886), (793, 52862), (795, 52847), (796, 52844), (799, 52832), (809, 52808), (830, 52760), (840, 52736),

Gene: Phayeta_60 Start: 53944, Stop: 52127, Start Num: 183

Candidate Starts for Phayeta_60:

(80, 54127), (Start: 183 @53944 has 42 MA's), (201, 53914), (274, 53734), (331, 53581), (334, 53569), (343, 53539), (349, 53533), (372, 53470), (375, 53464), (389, 53413), (400, 53377), (414, 53329), (471, 53224), (510, 53128), (533, 53077), (589, 52933), (601, 52894), (608, 52864), (612, 52837), (616, 52825), (645, 52729), (647, 52723), (651, 52714), (655, 52702), (674, 52630), (683, 52600), (691, 52582), (694, 52573), (717, 52504), (722, 52492), (730, 52471), (760, 52402), (765, 52387), (771, 52363), (775, 52342), (779, 52324), (781, 52318), (791, 52285), (793, 52279), (796, 52261), (799, 52249), (805, 52237), (809, 52225), (826, 52183), (840, 52153),

Gene: Phelemich_56 Start: 54570, Stop: 52741, Start Num: 141

Candidate Starts for Phelemich_56:

(Start: 141 @54570 has 23 MA's), (Start: 172 @54549 has 1 MA's), (Start: 186 @54540 has 3 MA's), (201, 54513), (205, 54498), (235, 54441), (306, 54273), (331, 54195), (335, 54180), (341, 54162), (347, 54150), (363, 54114), (372, 54084), (400, 53991), (402, 53979), (403, 53976), (410, 53955), (411, 53952), (414, 53943), (421, 53925), (460, 53862), (471, 53838), (515, 53733), (559, 53610), (576, 53586), (586, 53559), (589, 53547), (590, 53544), (595, 53526), (601, 53508), (608, 53478), (612, 53451), (626, 53400), (647, 53337), (651, 53328), (674, 53244), (685, 53211), (691, 53196),

(710, 53136), (717, 53118), (722, 53106), (730, 53085), (733, 53076), (735, 53073), (775, 52956), (779, 52938), (781, 52932), (793, 52893), (794, 52881), (795, 52878), (799, 52863), (805, 52851), (809, 52839), (826, 52797), (832, 52788), (840, 52767), (847, 52746),

Gene: Phelipe_46 Start: 31570, Stop: 29744, Start Num: 191

Candidate Starts for Phelipe_46:

(Start: 191 @31570 has 828 MA's), (201, 31549), (209, 31519), (221, 31489), (291, 31327), (300, 31309), (326, 31237), (328, 31228), (366, 31108), (372, 31084), (420, 30991), (448, 30943), (458, 30922), (476, 30883), (523, 30751), (532, 30730), (556, 30685), (559, 30673), (609, 30520), (611, 30499), (646, 30376), (656, 30346), (666, 30307), (683, 30241), (685, 30238), (691, 30223), (698, 30199), (704, 30175), (775, 29968), (812, 29833), (816, 29821), (820, 29812),

Gene: Phendrix_176 Start: 96123, Stop: 94333, Start Num: 185

Candidate Starts for Phendrix_176:

(Start: 185 @96123 has 2 MA's), (221, 96036), (239, 95994), (265, 95937), (318, 95814), (319, 95811), (330, 95784), (339, 95754), (351, 95727), (370, 95673), (376, 95658), (405, 95628), (420, 95589), (433, 95565), (440, 95553), (464, 95505), (476, 95478), (481, 95463), (500, 95409), (518, 95364), (534, 95319), (583, 95220), (584, 95214), (609, 95118), (611, 95097), (624, 95046), (644, 94980), (670, 94860), (680, 94830), (696, 94791), (698, 94782), (702, 94764), (708, 94749), (712, 94740), (715, 94734), (717, 94728), (734, 94686), (745, 94665), (766, 94587), (768, 94581), (782, 94518), (790, 94494), (808, 94419), (812, 94407), (838, 94356),

Gene: PhenghisKhan_61 Start: 54194, Stop: 52335, Start Num: 149

Candidate Starts for PhenghisKhan_61:

(Start: 133 @54218 has 1 MA's), (Start: 149 @54194 has 248 MA's), (Start: 174 @54170 has 5 MA's), (Start: 186 @54164 has 3 MA's), (205, 54122), (212, 54101), (254, 53987), (256, 53981), (269, 53951), (296, 53891), (306, 53870), (323, 53816), (327, 53804), (332, 53786), (335, 53774), (372, 53669), (389, 53612), (400, 53576), (402, 53564), (410, 53540), (414, 53528), (421, 53510), (432, 53492), (442, 53474), (465, 53435), (469, 53426), (471, 53423), (473, 53420), (576, 53165), (607, 53063), (612, 53030), (617, 53009), (647, 52916), (651, 52907), (668, 52844), (683, 52808), (685, 52805), (691, 52790), (717, 52712), (722, 52700), (730, 52679), (748, 52640), (775, 52550), (779, 52532), (781, 52526), (785, 52511), (793, 52487), (795, 52472), (796, 52469), (799, 52457), (809, 52433), (816, 52412), (830, 52385), (840, 52361),

Gene: Pherdinand_62 Start: 54314, Stop: 52455, Start Num: 149

Candidate Starts for Pherdinand_62:

(Start: 133 @54338 has 1 MA's), (Start: 149 @54314 has 248 MA's), (Start: 174 @54290 has 5 MA's), (Start: 186 @54284 has 3 MA's), (205, 54242), (212, 54221), (254, 54107), (256, 54101), (269, 54071), (296, 54011), (306, 53990), (323, 53936), (327, 53924), (332, 53906), (335, 53894), (372, 53789), (389, 53732), (400, 53696), (402, 53684), (410, 53660), (414, 53648), (421, 53630), (432, 53612), (442, 53594), (465, 53555), (469, 53546), (471, 53543), (473, 53540), (607, 53183), (612, 53150), (617, 53129), (647, 53036), (651, 53027), (668, 52964), (683, 52928), (685, 52925), (691, 52910), (717, 52832), (722, 52820), (730, 52799), (748, 52760), (775, 52670), (779, 52652), (781, 52646), (785, 52631), (793, 52607), (795, 52592), (796, 52589), (799, 52577), (809, 52553), (830, 52505), (840, 52481),

Gene: Phergie_62 Start: 54186, Stop: 52327, Start Num: 149

Candidate Starts for Phergie_62:

(Start: 133 @54210 has 1 MA's), (Start: 149 @54186 has 248 MA's), (Start: 174 @54162 has 5 MA's), (Start: 186 @54156 has 3 MA's), (205, 54114), (212, 54093), (254, 53979), (256, 53973), (269, 53943), (296, 53883), (306, 53862), (323, 53808), (327, 53796), (332, 53778), (335, 53766), (372, 53661), (389, 53604), (400, 53568), (402, 53556), (410, 53532), (414, 53520), (421, 53502), (432, 53484), (442, 53466), (465, 53427), (469, 53418), (471, 53415), (473, 53412), (576, 53157), (607,

53055), (612, 53022), (617, 53001), (647, 52908), (651, 52899), (668, 52836), (683, 52800), (685, 52797), (691, 52782), (717, 52704), (722, 52692), (730, 52671), (748, 52632), (775, 52542), (779, 52524), (781, 52518), (785, 52503), (793, 52479), (795, 52464), (796, 52461), (799, 52449), (809, 52425), (816, 52404), (830, 52377), (840, 52353),

Gene: PherrisBueller_44 Start: 33917, Stop: 32091, Start Num: 191

Candidate Starts for PherrisBueller_44:

(Start: 191 @33917 has 828 MA's), (274, 33704), (283, 33689), (307, 33641), (314, 33611), (322, 33590), (326, 33584), (328, 33575), (365, 33458), (372, 33431), (420, 33338), (428, 33323), (470, 33239), (472, 33236), (494, 33170), (508, 33140), (518, 33110), (534, 33065), (556, 33026), (611, 32846), (623, 32798), (637, 32759), (656, 32693), (666, 32654), (676, 32633), (683, 32612), (691, 32594), (712, 32528), (770, 32378), (771, 32375), (778, 32339), (785, 32315), (788, 32306), (792, 32294), (798, 32267), (812, 32219), (820, 32198),

Gene: Phighter1804_45 Start: 31612, Stop: 29786, Start Num: 191

Candidate Starts for Phighter1804_45:

(Start: 191 @31612 has 828 MA's), (201, 31591), (209, 31561), (221, 31531), (291, 31369), (300, 31351), (326, 31279), (328, 31270), (366, 31150), (372, 31126), (420, 31033), (448, 30985), (458, 30964), (476, 30925), (523, 30793), (532, 30772), (556, 30727), (559, 30715), (609, 30562), (611, 30541), (646, 30418), (656, 30388), (666, 30349), (683, 30283), (685, 30280), (691, 30265), (698, 30241), (704, 30217), (775, 30010), (812, 29875), (816, 29863), (820, 29854),

Gene: Phillis_44 Start: 30925, Stop: 29081, Start Num: 191

Candidate Starts for Phillis_44:

(95, 31090), (116, 31042), (Start: 191 @30925 has 828 MA's), (209, 30874), (262, 30751), (271, 30721), (291, 30682), (314, 30619), (322, 30598), (326, 30592), (328, 30583), (340, 30541), (355, 30490), (372, 30439), (420, 30343), (426, 30331), (435, 30316), (444, 30298), (446, 30295), (451, 30286), (476, 30232), (484, 30205), (502, 30157), (523, 30100), (534, 30073), (559, 30022), (566, 30007), (583, 29959), (609, 29860), (611, 29839), (618, 29809), (623, 29791), (625, 29788), (632, 29773), (637, 29752), (639, 29743), (646, 29716), (651, 29704), (656, 29686), (683, 29605), (689, 29593), (704, 29539), (719, 29503), (733, 29467), (750, 29434), (758, 29413), (760, 29407), (771, 29368), (779, 29329), (812, 29212), (816, 29200),

Gene: Philly_57 Start: 53504, Stop: 51687, Start Num: 183

Candidate Starts for Philly_57:

(80, 53687), (Start: 183 @53504 has 42 MA's), (201, 53474), (274, 53294), (331, 53141), (334, 53129), (343, 53099), (349, 53093), (372, 53030), (375, 53024), (389, 52973), (398, 52946), (400, 52937), (414, 52889), (471, 52784), (510, 52688), (533, 52637), (589, 52493), (601, 52454), (608, 52424), (612, 52397), (616, 52385), (645, 52289), (647, 52283), (651, 52274), (655, 52262), (674, 52190), (683, 52160), (691, 52142), (694, 52133), (717, 52064), (722, 52052), (730, 52031), (760, 51962), (765, 51947), (771, 51923), (775, 51902), (779, 51884), (781, 51878), (791, 51845), (793, 51839), (796, 51821), (799, 51809), (805, 51797), (809, 51785), (826, 51743), (840, 51713),

Gene: Phipps_60 Start: 53823, Stop: 51964, Start Num: 149

Candidate Starts for Phipps_60:

(Start: 133 @53847 has 1 MA's), (Start: 149 @53823 has 248 MA's), (Start: 174 @53799 has 5 MA's), (Start: 186 @53793 has 3 MA's), (205, 53751), (212, 53730), (254, 53616), (256, 53610), (269, 53580), (296, 53520), (306, 53499), (323, 53445), (327, 53433), (332, 53415), (335, 53403), (372, 53298), (389, 53241), (400, 53205), (402, 53193), (411, 53166), (421, 53139), (432, 53121), (442, 53103), (465, 53064), (469, 53055), (471, 53052), (576, 52794), (607, 52692), (612, 52659), (617, 52638), (647, 52545), (651, 52536), (668, 52473), (683, 52437), (685, 52434), (691, 52419), (717, 52341), (722, 52329), (730, 52308), (748, 52269), (775, 52179), (779, 52161), (781, 52155), (785, 52140), (793, 52116), (795, 52101), (796, 52098), (799, 52086), (809, 52062), (830, 52014), (840,

51990),

Gene: Phisb_45 Start: 29630, Stop: 31504, Start Num: 182

Candidate Starts for Phisb_45:

(Start: 179 @29627 has 7 MA's), (Start: 182 @29630 has 49 MA's), (216, 29699), (224, 29720), (271, 29837), (307, 29900), (328, 29966), (340, 30008), (476, 30302), (523, 30437), (564, 30536), (598, 30659), (611, 30719), (614, 30725), (625, 30770), (635, 30800), (644, 30836), (656, 30872), (680, 30965), (713, 31058), (747, 31136), (770, 31208), (778, 31247), (791, 31289), (794, 31307), (812, 31367), (820, 31388),

Gene: PhishRPhriends_46 Start: 30931, Stop: 29117, Start Num: 191

Candidate Starts for PhishRPhriends_46:

(Start: 191 @30931 has 828 MA's), (206, 30892), (209, 30880), (271, 30727), (276, 30712), (307, 30655), (326, 30598), (328, 30589), (340, 30547), (355, 30496), (372, 30445), (420, 30352), (446, 30304), (458, 30280), (476, 30241), (484, 30214), (494, 30184), (528, 30091), (534, 30079), (558, 30031), (565, 30016), (611, 29860), (625, 29809), (636, 29776), (637, 29773), (656, 29707), (666, 29668), (685, 29596), (698, 29557), (704, 29533), (712, 29515), (726, 29482), (760, 29401), (775, 29341), (779, 29323), (795, 29263), (798, 29254), (812, 29206), (816, 29194), (820, 29185),

Gene: Phives_43 Start: 31162, Stop: 33027, Start Num: 191

Candidate Starts for Phives_43:

(Start: 191 @31162 has 828 MA's), (208, 31210), (271, 31366), (314, 31459), (343, 31549), (423, 31756), (472, 31855), (476, 31864), (481, 31879), (484, 31891), (515, 31969), (532, 32017), (559, 32074), (583, 32155), (611, 32275), (618, 32305), (637, 32362), (656, 32428), (680, 32521), (704, 32593), (752, 32701), (770, 32764), (812, 32923), (815, 32932), (850, 33010),

Gene: Phlei_33 Start: 30919, Stop: 29120, Start Num: 191

Candidate Starts for Phlei_33:

(Start: 191 @30919 has 828 MA's), (235, 30808), (236, 30802), (262, 30745), (271, 30715), (279, 30697), (308, 30637), (314, 30610), (326, 30583), (355, 30481), (372, 30430), (416, 30349), (420, 30337), (439, 30301), (446, 30289), (484, 30199), (510, 30133), (539, 30049), (576, 29971), (578, 29968), (609, 29857), (611, 29836), (625, 29785), (637, 29749), (651, 29701), (656, 29683), (666, 29644), (683, 29602), (696, 29569), (770, 29368), (775, 29344), (778, 29329), (781, 29320), (791, 29287), (812, 29209), (816, 29197), (820, 29188), (839, 29140),

Gene: Phleuron_61 Start: 54187, Stop: 52328, Start Num: 149

Candidate Starts for Phleuron_61:

(Start: 133 @54211 has 1 MA's), (Start: 149 @54187 has 248 MA's), (Start: 174 @54163 has 5 MA's), (Start: 186 @54157 has 3 MA's), (205, 54115), (212, 54094), (254, 53980), (256, 53974), (269, 53944), (296, 53884), (306, 53863), (323, 53809), (327, 53797), (332, 53779), (335, 53767), (372, 53662), (389, 53605), (400, 53569), (402, 53557), (410, 53533), (414, 53521), (421, 53503), (432, 53485), (442, 53467), (465, 53428), (469, 53419), (471, 53416), (473, 53413), (607, 53056), (612, 53023), (617, 53002), (647, 52909), (651, 52900), (668, 52837), (683, 52801), (685, 52798), (691, 52783), (717, 52705), (722, 52693), (730, 52672), (748, 52633), (775, 52543), (779, 52525), (781, 52519), (785, 52504), (793, 52480), (795, 52465), (796, 52462), (799, 52450), (809, 52426), (830, 52378), (840, 52354),

Gene: Phlorence_37 Start: 30134, Stop: 28275, Start Num: 191

Candidate Starts for Phlorence_37:

(Start: 191 @30134 has 828 MA's), (209, 30083), (235, 30023), (262, 29960), (271, 29930), (272, 29927), (302, 29870), (307, 29858), (314, 29828), (326, 29801), (372, 29648), (420, 29552), (446, 29504), (457, 29483), (483, 29420), (484, 29414), (513, 29342), (523, 29309), (528, 29294), (534, 29282), (576, 29183), (611, 29048), (618, 29018), (623, 29000), (632, 28982), (637, 28961), (639,

28952), (656, 28895), (666, 28856), (683, 28814), (691, 28796), (704, 28748), (726, 28697), (750, 28643), (754, 28634), (760, 28616), (775, 28556), (779, 28538), (804, 28445), (812, 28421), (816, 28409), (865, 28292), (866, 28289),

Gene: Phlyer_58 Start: 54386, Stop: 52569, Start Num: 183

Candidate Starts for Phlyer_58:

(80, 54569), (Start: 183 @54386 has 42 MA's), (201, 54356), (274, 54176), (331, 54023), (334, 54011), (343, 53981), (349, 53975), (372, 53912), (375, 53906), (389, 53855), (398, 53828), (400, 53819), (414, 53771), (471, 53666), (510, 53570), (533, 53519), (589, 53375), (601, 53336), (608, 53306), (612, 53279), (616, 53267), (645, 53171), (647, 53165), (651, 53156), (655, 53144), (674, 53072), (683, 53042), (691, 53024), (694, 53015), (717, 52946), (722, 52934), (730, 52913), (760, 52844), (765, 52829), (771, 52805), (775, 52784), (779, 52766), (781, 52760), (791, 52727), (793, 52721), (796, 52703), (799, 52691), (805, 52679), (809, 52667), (826, 52625), (840, 52595),

Gene: Phoebe_49 Start: 31845, Stop: 30031, Start Num: 191

Candidate Starts for Phoebe_49:

(Start: 191 @31845 has 828 MA's), (206, 31806), (209, 31794), (271, 31641), (276, 31626), (307, 31569), (326, 31512), (328, 31503), (340, 31461), (355, 31410), (372, 31359), (420, 31266), (446, 31218), (451, 31209), (458, 31194), (476, 31155), (484, 31128), (494, 31098), (528, 31005), (558, 30945), (565, 30930), (611, 30774), (637, 30687), (656, 30621), (666, 30582), (685, 30510), (698, 30471), (704, 30447), (712, 30429), (726, 30396), (737, 30369), (760, 30315), (775, 30255), (795, 30177), (812, 30120), (816, 30108), (820, 30099),

Gene: Phonnegut_45 Start: 31538, Stop: 29745, Start Num: 191

Candidate Starts for Phonnegut_45:

(Start: 191 @31538 has 828 MA's), (196, 31529), (209, 31487), (261, 31367), (262, 31364), (279, 31316), (308, 31256), (315, 31226), (319, 31214), (326, 31202), (372, 31049), (420, 30956), (484, 30818), (494, 30788), (559, 30629), (565, 30617), (579, 30590), (609, 30482), (611, 30461), (651, 30326), (656, 30308), (683, 30227), (698, 30185), (726, 30110), (758, 30035), (770, 29993), (795, 29891), (812, 29834), (816, 29822), (820, 29813),

Gene: Phontbonne_45 Start: 31461, Stop: 29635, Start Num: 191

Candidate Starts for Phontbonne_45:

(Start: 191 @31461 has 828 MA's), (201, 31440), (209, 31410), (221, 31380), (291, 31218), (300, 31200), (326, 31128), (328, 31119), (366, 30999), (372, 30975), (420, 30882), (448, 30834), (458, 30813), (476, 30774), (523, 30642), (532, 30621), (556, 30576), (559, 30564), (609, 30411), (611, 30390), (646, 30267), (656, 30237), (666, 30198), (683, 30132), (685, 30129), (691, 30114), (698, 30090), (704, 30066), (775, 29859), (812, 29724), (816, 29712), (820, 29703),

Gene: Phoxy_48 Start: 31881, Stop: 30067, Start Num: 191

Candidate Starts for Phoxy_48:

(Start: 191 @31881 has 828 MA's), (206, 31842), (209, 31830), (271, 31677), (276, 31662), (307, 31605), (326, 31548), (328, 31539), (340, 31497), (355, 31446), (372, 31395), (405, 31341), (420, 31302), (446, 31254), (458, 31230), (476, 31191), (484, 31164), (494, 31134), (528, 31041), (534, 31029), (558, 30981), (565, 30966), (611, 30810), (625, 30759), (636, 30726), (637, 30723), (656, 30657), (666, 30618), (685, 30546), (698, 30507), (704, 30483), (712, 30465), (726, 30432), (760, 30351), (775, 30291), (798, 30204), (812, 30156), (816, 30144), (820, 30135), (821, 30132),

Gene: PhrankReynolds_60 Start: 54191, Stop: 52332, Start Num: 149

Candidate Starts for PhrankReynolds_60:

(Start: 133 @54215 has 1 MA's), (Start: 149 @54191 has 248 MA's), (Start: 174 @54167 has 5 MA's), (Start: 186 @54161 has 3 MA's), (205, 54119), (212, 54098), (254, 53984), (256, 53978), (269, 53948), (296, 53888), (306, 53867), (323, 53813), (327, 53801), (332, 53783), (335, 53771), (372,

53666), (389, 53609), (400, 53573), (402, 53561), (410, 53537), (414, 53525), (421, 53507), (432, 53489), (442, 53471), (465, 53432), (469, 53423), (471, 53420), (473, 53417), (576, 53162), (607, 53060), (612, 53027), (617, 53006), (647, 52913), (651, 52904), (668, 52841), (683, 52805), (685, 52802), (691, 52787), (717, 52709), (722, 52697), (730, 52676), (748, 52637), (775, 52547), (779, 52529), (781, 52523), (785, 52508), (793, 52484), (795, 52469), (796, 52466), (799, 52454), (809, 52430), (816, 52409), (830, 52382), (840, 52358),

Gene: Phrankenstein_36 Start: 28059, Stop: 26275, Start Num: 191

Candidate Starts for Phrankenstein_36:

(Start: 191 @28059 has 828 MA's), (288, 27825), (302, 27795), (306, 27786), (307, 27783), (319, 27738), (326, 27726), (340, 27675), (372, 27573), (380, 27552), (420, 27480), (444, 27435), (446, 27432), (466, 27390), (468, 27384), (476, 27369), (484, 27342), (523, 27237), (526, 27228), (534, 27210), (535, 27207), (556, 27171), (582, 27114), (611, 26991), (623, 26943), (656, 26838), (657, 26835), (676, 26778), (683, 26757), (700, 26709), (727, 26634), (758, 26565), (770, 26523), (775, 26499), (795, 26421), (812, 26364), (816, 26352), (820, 26343), (834, 26313), (839, 26295),

Gene: Phranny_49 Start: 31739, Stop: 29925, Start Num: 191

Candidate Starts for Phranny_49:

(Start: 191 @31739 has 828 MA's), (206, 31700), (209, 31688), (271, 31535), (276, 31520), (307, 31463), (326, 31406), (328, 31397), (340, 31355), (355, 31304), (372, 31253), (420, 31160), (446, 31112), (458, 31088), (476, 31049), (484, 31022), (494, 30992), (528, 30899), (534, 30887), (558, 30839), (565, 30824), (611, 30668), (625, 30617), (636, 30584), (637, 30581), (656, 30515), (666, 30476), (685, 30404), (698, 30365), (704, 30341), (712, 30323), (726, 30290), (760, 30209), (775, 30149), (779, 30131), (795, 30071), (798, 30062), (812, 30014), (816, 30002), (820, 29993),

Gene: PhrodoBaggins_61 Start: 54411, Stop: 52552, Start Num: 149

Candidate Starts for PhrodoBaggins_61:

(Start: 133 @54435 has 1 MA's), (Start: 149 @54411 has 248 MA's), (Start: 174 @54387 has 5 MA's), (Start: 186 @54381 has 3 MA's), (205, 54339), (212, 54318), (254, 54204), (256, 54198), (269, 54168), (296, 54108), (306, 54087), (323, 54033), (327, 54021), (332, 54003), (335, 53991), (372, 53886), (389, 53829), (400, 53793), (402, 53781), (411, 53754), (421, 53727), (432, 53709), (442, 53691), (465, 53652), (469, 53643), (471, 53640), (473, 53637), (607, 53280), (612, 53247), (617, 53226), (647, 53133), (651, 53124), (668, 53061), (683, 53025), (685, 53022), (691, 53007), (717, 52929), (722, 52917), (730, 52896), (748, 52857), (775, 52767), (779, 52749), (781, 52743), (785, 52728), (793, 52704), (795, 52689), (796, 52686), (799, 52674), (809, 52650), (830, 52602), (840, 52578),

Gene: PhrostyMug_44 Start: 34431, Stop: 32605, Start Num: 191

Candidate Starts for PhrostyMug_44:

(Start: 191 @34431 has 828 MA's), (274, 34218), (283, 34203), (314, 34125), (322, 34104), (326, 34098), (328, 34089), (365, 33972), (372, 33945), (420, 33852), (428, 33837), (439, 33816), (446, 33804), (470, 33753), (472, 33750), (494, 33684), (508, 33654), (518, 33624), (534, 33579), (556, 33540), (611, 33360), (618, 33330), (623, 33312), (637, 33273), (656, 33207), (683, 33126), (685, 33123), (712, 33042), (770, 32892), (771, 32889), (778, 32853), (785, 32829), (788, 32820), (792, 32808), (798, 32781), (812, 32733), (820, 32712),

Gene: Phunky_59 Start: 54049, Stop: 52190, Start Num: 149

Candidate Starts for Phunky_59:

(Start: 133 @54073 has 1 MA's), (Start: 149 @54049 has 248 MA's), (Start: 174 @54025 has 5 MA's), (Start: 186 @54019 has 3 MA's), (205, 53977), (212, 53956), (254, 53842), (256, 53836), (269, 53806), (296, 53746), (306, 53725), (323, 53671), (327, 53659), (332, 53641), (335, 53629), (372, 53524), (389, 53467), (400, 53431), (402, 53419), (410, 53395), (414, 53383), (421, 53365), (432, 53347), (442, 53329), (465, 53290), (469, 53281), (471, 53278), (473, 53275), (607, 52918), (612,

52885), (617, 52864), (647, 52771), (651, 52762), (668, 52699), (683, 52663), (685, 52660), (691, 52645), (717, 52567), (722, 52555), (730, 52534), (748, 52495), (775, 52405), (779, 52387), (781, 52381), (785, 52366), (793, 52342), (795, 52327), (796, 52324), (799, 52312), (809, 52288), (830, 52240), (840, 52216),

Gene: PickleBack_38 Start: 30260, Stop: 28416, Start Num: 191

Candidate Starts for PickleBack_38:

(Start: 191 @30260 has 828 MA's), (209, 30209), (235, 30149), (262, 30086), (271, 30056), (272, 30053), (302, 29996), (307, 29984), (314, 29954), (326, 29927), (355, 29825), (361, 29810), (372, 29774), (407, 29714), (420, 29678), (446, 29630), (483, 29546), (484, 29540), (513, 29468), (523, 29435), (528, 29420), (534, 29408), (576, 29309), (611, 29174), (618, 29144), (623, 29126), (625, 29123), (637, 29087), (639, 29078), (644, 29057), (647, 29048), (656, 29021), (657, 29018), (676, 28961), (683, 28940), (726, 28823), (750, 28769), (754, 28760), (760, 28742), (779, 28664), (794, 28607), (804, 28571), (812, 28547), (816, 28535),

Gene: Piglet_0060 Start: 54547, Stop: 52664, Start Num: 133

Candidate Starts for Piglet_0060:

(Start: 133 @54547 has 1 MA's), (Start: 149 @54523 has 248 MA's), (Start: 174 @54499 has 5 MA's), (Start: 186 @54493 has 3 MA's), (205, 54451), (212, 54430), (254, 54316), (256, 54310), (269, 54280), (296, 54220), (306, 54199), (323, 54145), (327, 54133), (332, 54115), (335, 54103), (372, 53998), (389, 53941), (400, 53905), (402, 53893), (411, 53866), (421, 53839), (432, 53821), (442, 53803), (465, 53764), (469, 53755), (471, 53752), (576, 53494), (607, 53392), (612, 53359), (617, 53338), (647, 53245), (651, 53236), (668, 53173), (683, 53137), (685, 53134), (691, 53119), (717, 53041), (722, 53029), (730, 53008), (748, 52969), (775, 52879), (779, 52861), (781, 52855), (785, 52840), (793, 52816), (795, 52801), (796, 52798), (799, 52786), (809, 52762), (830, 52714), (840, 52690),

Gene: Pine5_49 Start: 43969, Stop: 42167, Start Num: 173

Candidate Starts for Pine5_49:

(173, 43969), (205, 43918), (277, 43756), (323, 43642), (329, 43627), (335, 43603), (336, 43600), (339, 43591), (343, 43576), (347, 43573), (355, 43549), (358, 43543), (363, 43537), (365, 43531), (368, 43519), (375, 43501), (376, 43498), (457, 43291), (463, 43279), (471, 43261), (483, 43231), (487, 43216), (496, 43195), (533, 43120), (560, 43036), (569, 43027), (617, 42856), (638, 42799), (651, 42754), (698, 42613), (717, 42559), (722, 42547), (762, 42436), (793, 42322), (795, 42307), (809, 42268), (816, 42247), (847, 42172),

Gene: PinheadLarry_61 Start: 54548, Stop: 52689, Start Num: 149

Candidate Starts for PinheadLarry_61:

(Start: 133 @54572 has 1 MA's), (Start: 149 @54548 has 248 MA's), (Start: 174 @54524 has 5 MA's), (Start: 186 @54518 has 3 MA's), (205, 54476), (212, 54455), (254, 54341), (256, 54335), (269, 54305), (296, 54245), (306, 54224), (323, 54170), (327, 54158), (332, 54140), (335, 54128), (372, 54023), (389, 53966), (400, 53930), (402, 53918), (411, 53891), (421, 53864), (432, 53846), (442, 53828), (465, 53789), (469, 53780), (471, 53777), (576, 53519), (607, 53417), (612, 53384), (617, 53363), (647, 53270), (651, 53261), (668, 53198), (683, 53162), (685, 53159), (691, 53144), (717, 53066), (722, 53054), (730, 53033), (748, 52994), (775, 52904), (779, 52886), (781, 52880), (785, 52865), (793, 52841), (795, 52826), (796, 52823), (799, 52811), (809, 52787), (830, 52739), (840, 52715),

Gene: PinkPlastic_43 Start: 34151, Stop: 32325, Start Num: 191

Candidate Starts for PinkPlastic_43:

(Start: 191 @34151 has 828 MA's), (274, 33938), (283, 33923), (307, 33875), (314, 33845), (322, 33824), (326, 33818), (328, 33809), (340, 33767), (365, 33692), (372, 33665), (420, 33572), (428, 33557), (446, 33524), (470, 33473), (472, 33470), (494, 33404), (508, 33374), (518, 33344), (534,

33299), (556, 33260), (611, 33080), (623, 33032), (637, 32993), (656, 32927), (666, 32888), (676, 32867), (683, 32846), (691, 32828), (712, 32762), (770, 32612), (771, 32609), (778, 32573), (788, 32540), (792, 32528), (798, 32501), (812, 32453), (820, 32432),

Gene: Pinkman_60 Start: 54129, Stop: 52270, Start Num: 149

Candidate Starts for Pinkman_60:

(Start: 133 @54153 has 1 MA's), (Start: 149 @54129 has 248 MA's), (Start: 174 @54105 has 5 MA's), (Start: 186 @54099 has 3 MA's), (205, 54057), (212, 54036), (254, 53922), (256, 53916), (269, 53886), (296, 53826), (306, 53805), (323, 53751), (327, 53739), (332, 53721), (335, 53709), (372, 53604), (389, 53547), (400, 53511), (402, 53499), (411, 53472), (432, 53427), (465, 53370), (469, 53361), (471, 53358), (576, 53100), (607, 52998), (612, 52965), (617, 52944), (647, 52851), (651, 52842), (668, 52779), (683, 52743), (685, 52740), (691, 52725), (717, 52647), (722, 52635), (730, 52614), (748, 52575), (775, 52485), (779, 52467), (781, 52461), (785, 52446), (793, 52422), (795, 52407), (796, 52404), (799, 52392), (809, 52368), (816, 52347), (830, 52320), (840, 52296), (845, 52281),

Gene: Pinto_45 Start: 34258, Stop: 32429, Start Num: 191

Candidate Starts for Pinto_45:

(Start: 191 @34258 has 828 MA's), (274, 34045), (283, 34030), (307, 33982), (314, 33952), (322, 33931), (326, 33925), (328, 33916), (365, 33799), (372, 33772), (420, 33679), (428, 33664), (446, 33631), (470, 33580), (472, 33577), (490, 33523), (494, 33511), (508, 33481), (518, 33451), (534, 33406), (556, 33367), (611, 33187), (623, 33139), (639, 33091), (651, 33052), (656, 33034), (666, 32995), (676, 32974), (683, 32953), (690, 32938), (733, 32815), (789, 32644), (794, 32620), (808, 32572), (812, 32560), (820, 32539), (823, 32533), (842, 32485), (849, 32470),

Gene: Pioneer_45 Start: 31538, Stop: 29745, Start Num: 191

Candidate Starts for Pioneer_45:

(Start: 191 @31538 has 828 MA's), (196, 31529), (209, 31487), (261, 31367), (262, 31364), (279, 31316), (308, 31256), (315, 31226), (319, 31214), (326, 31202), (372, 31049), (420, 30956), (484, 30818), (494, 30788), (559, 30629), (565, 30617), (579, 30590), (609, 30482), (611, 30461), (651, 30326), (656, 30308), (683, 30227), (698, 30185), (726, 30110), (758, 30035), (770, 29993), (795, 29891), (812, 29834), (816, 29822), (820, 29813),

Gene: Pipcraft_43 Start: 31570, Stop: 29744, Start Num: 191

Candidate Starts for Pipcraft_43:

(Start: 191 @31570 has 828 MA's), (201, 31549), (209, 31519), (221, 31489), (291, 31327), (300, 31309), (326, 31237), (328, 31228), (366, 31108), (372, 31084), (420, 30991), (448, 30943), (458, 30922), (476, 30883), (523, 30751), (532, 30730), (556, 30685), (559, 30673), (609, 30520), (611, 30499), (646, 30376), (656, 30346), (666, 30307), (683, 30241), (685, 30238), (691, 30223), (698, 30199), (704, 30175), (775, 29968), (812, 29833), (816, 29821), (820, 29812),

Gene: Pipefish_59 Start: 54415, Stop: 52598, Start Num: 183

Candidate Starts for Pipefish_59:

(80, 54598), (Start: 183 @54415 has 42 MA's), (201, 54385), (274, 54205), (331, 54052), (334, 54040), (343, 54010), (349, 54004), (372, 53941), (375, 53935), (389, 53884), (400, 53848), (414, 53800), (471, 53695), (510, 53599), (533, 53548), (589, 53404), (601, 53365), (608, 53335), (612, 53308), (616, 53296), (645, 53200), (647, 53194), (651, 53185), (655, 53173), (674, 53101), (683, 53071), (691, 53053), (694, 53044), (717, 52975), (722, 52963), (730, 52942), (760, 52873), (765, 52858), (771, 52834), (781, 52789), (791, 52756), (793, 52750), (796, 52732), (799, 52720), (805, 52708), (809, 52696), (826, 52654), (840, 52624),

Gene: Pippin_47 Start: 35168, Stop: 33381, Start Num: 191

Candidate Starts for Pippin_47:

(Start: 191 @35168 has 828 MA's), (274, 34955), (283, 34940), (307, 34892), (314, 34862), (322, 34841), (326, 34835), (328, 34826), (365, 34709), (372, 34682), (420, 34589), (428, 34574), (446, 34541), (470, 34490), (472, 34487), (494, 34421), (508, 34391), (518, 34361), (534, 34316), (556, 34277), (611, 34097), (623, 34049), (637, 34010), (656, 33944), (679, 33872), (683, 33863), (712, 33779), (750, 33692), (785, 33566), (789, 33554), (812, 33470), (814, 33464),

Gene: Pipsqueak_59 Start: 53979, Stop: 52120, Start Num: 149

Candidate Starts for Pipsqueak_59:

(Start: 133 @54003 has 1 MA's), (Start: 149 @53979 has 248 MA's), (Start: 174 @53955 has 5 MA's), (Start: 186 @53949 has 3 MA's), (205, 53907), (212, 53886), (254, 53772), (256, 53766), (269, 53736), (296, 53676), (306, 53655), (323, 53601), (327, 53589), (332, 53571), (335, 53559), (372, 53454), (389, 53397), (400, 53361), (402, 53349), (410, 53325), (414, 53313), (421, 53295), (432, 53277), (442, 53259), (465, 53220), (469, 53211), (471, 53208), (473, 53205), (607, 52848), (612, 52815), (617, 52794), (647, 52701), (651, 52692), (668, 52629), (683, 52593), (685, 52590), (691, 52575), (717, 52497), (722, 52485), (730, 52464), (748, 52425), (775, 52335), (779, 52317), (781, 52311), (785, 52296), (793, 52272), (795, 52257), (796, 52254), (799, 52242), (809, 52218), (830, 52170), (840, 52146),

Gene: Piro94_44 Start: 31722, Stop: 29935, Start Num: 191

Candidate Starts for Piro94_44:

(Start: 191 @31722 has 828 MA's), (271, 31518), (272, 31515), (274, 31509), (291, 31479), (307, 31446), (308, 31443), (314, 31416), (326, 31389), (340, 31338), (372, 31236), (420, 31143), (446, 31095), (451, 31086), (458, 31071), (484, 31005), (515, 30924), (532, 30876), (592, 30732), (611, 30651), (625, 30600), (636, 30567), (656, 30498), (666, 30459), (676, 30438), (683, 30417), (689, 30405), (758, 30225), (760, 30219), (770, 30183), (775, 30159), (795, 30081), (812, 30024), (816, 30012),

Gene: Pistachio_47 Start: 31102, Stop: 29264, Start Num: 191

Candidate Starts for Pistachio_47:

(Start: 191 @31102 has 828 MA's), (209, 31051), (236, 30985), (271, 30898), (302, 30838), (307, 30826), (326, 30769), (328, 30760), (366, 30640), (372, 30616), (420, 30520), (448, 30472), (476, 30412), (498, 30349), (523, 30280), (532, 30259), (566, 30187), (582, 30145), (592, 30103), (611, 30022), (623, 29974), (646, 29899), (656, 29869), (664, 29839), (685, 29758), (698, 29719), (704, 29695), (712, 29677), (760, 29548), (775, 29488), (812, 29353), (816, 29341), (820, 29332),

Gene: Pita2_47 Start: 35444, Stop: 33618, Start Num: 191

Candidate Starts for Pita2_47:

(Start: 191 @35444 has 828 MA's), (274, 35231), (283, 35216), (307, 35168), (314, 35138), (322, 35117), (326, 35111), (328, 35102), (365, 34985), (372, 34958), (420, 34865), (428, 34850), (439, 34829), (470, 34766), (472, 34763), (494, 34697), (508, 34667), (518, 34637), (534, 34592), (556, 34553), (611, 34373), (618, 34343), (623, 34325), (625, 34322), (637, 34286), (656, 34220), (666, 34181), (676, 34160), (683, 34139), (691, 34121), (712, 34055), (770, 33905), (771, 33902), (778, 33866), (788, 33833), (792, 33821), (812, 33746), (820, 33725),

Gene: Pixelle_42 Start: 30386, Stop: 32251, Start Num: 191

Candidate Starts for Pixelle_42:

(Start: 191 @30386 has 828 MA's), (208, 30434), (290, 30617), (293, 30623), (314, 30683), (343, 30773), (423, 30980), (428, 30989), (476, 31088), (481, 31103), (532, 31241), (583, 31379), (606, 31466), (611, 31499), (631, 31562), (637, 31586), (656, 31652), (680, 31745), (752, 31925), (770, 31988), (775, 32012), (812, 32147), (815, 32156),

Gene: Placalicious_61 Start: 55080, Stop: 53221, Start Num: 149

Candidate Starts for Placalicious_61:

(Start: 133 @55104 has 1 MA's), (Start: 149 @55080 has 248 MA's), (Start: 174 @55056 has 5 MA's), (Start: 186 @55050 has 3 MA's), (205, 55008), (212, 54987), (254, 54873), (256, 54867), (269, 54837), (296, 54777), (306, 54756), (323, 54702), (327, 54690), (332, 54672), (372, 54555), (389, 54498), (400, 54462), (402, 54450), (411, 54423), (421, 54396), (432, 54378), (442, 54360), (465, 54321), (469, 54312), (471, 54309), (576, 54051), (607, 53949), (612, 53916), (617, 53895), (647, 53802), (651, 53793), (668, 53730), (683, 53694), (685, 53691), (691, 53676), (717, 53598), (722, 53586), (730, 53565), (748, 53526), (775, 53436), (779, 53418), (781, 53412), (785, 53397), (793, 53373), (795, 53358), (796, 53355), (799, 53343), (809, 53319), (830, 53271), (840, 53247),

Gene: Plmatters_59 Start: 54053, Stop: 52194, Start Num: 149

Candidate Starts for Plmatters_59:

(Start: 133 @54077 has 1 MA's), (Start: 149 @54053 has 248 MA's), (Start: 174 @54029 has 5 MA's), (Start: 186 @54023 has 3 MA's), (205, 53981), (212, 53960), (254, 53846), (256, 53840), (269, 53810), (296, 53750), (306, 53729), (323, 53675), (327, 53663), (332, 53645), (335, 53633), (372, 53528), (389, 53471), (400, 53435), (402, 53423), (411, 53396), (421, 53369), (432, 53351), (442, 53333), (465, 53294), (469, 53285), (471, 53282), (576, 53024), (607, 52922), (612, 52889), (617, 52868), (647, 52775), (651, 52766), (668, 52703), (683, 52667), (685, 52664), (691, 52649), (717, 52571), (722, 52559), (730, 52538), (748, 52499), (775, 52409), (779, 52391), (781, 52385), (785, 52370), (793, 52346), (795, 52331), (796, 52328), (799, 52316), (809, 52292), (830, 52244), (840, 52220),

Gene: Pmask_45 Start: 29639, Stop: 27798, Start Num: 191

Candidate Starts for Pmask_45:

(Start: 191 @29639 has 828 MA's), (271, 29435), (307, 29360), (308, 29357), (314, 29330), (319, 29315), (326, 29303), (340, 29252), (368, 29162), (372, 29150), (420, 29057), (441, 29018), (451, 29000), (458, 28985), (484, 28919), (496, 28886), (498, 28883), (535, 28781), (565, 28721), (592, 28637), (611, 28556), (636, 28472), (637, 28469), (639, 28460), (646, 28433), (656, 28403), (676, 28343), (691, 28304), (770, 28088), (771, 28085), (775, 28064), (812, 27929), (816, 27917), (820, 27908), (821, 27905), (859, 27812),

Gene: Pocahontas_44 Start: 31594, Stop: 29756, Start Num: 191

Candidate Starts for Pocahontas_44:

(Start: 191 @31594 has 828 MA's), (209, 31543), (271, 31390), (307, 31318), (314, 31288), (326, 31261), (328, 31252), (372, 31108), (420, 31012), (448, 30964), (476, 30904), (509, 30817), (523, 30772), (532, 30751), (566, 30679), (582, 30637), (592, 30595), (611, 30514), (623, 30466), (637, 30427), (646, 30391), (656, 30361), (664, 30331), (685, 30250), (698, 30211), (704, 30187), (712, 30169), (713, 30166), (760, 30040), (775, 29980), (798, 29893), (812, 29845), (816, 29833), (820, 29824),

Gene: Podrick_59 Start: 53832, Stop: 51973, Start Num: 149

Candidate Starts for Podrick_59:

(Start: 133 @53856 has 1 MA's), (Start: 149 @53832 has 248 MA's), (Start: 174 @53808 has 5 MA's), (Start: 186 @53802 has 3 MA's), (205, 53760), (212, 53739), (254, 53625), (256, 53619), (269, 53589), (296, 53529), (306, 53508), (323, 53454), (327, 53442), (332, 53424), (335, 53412), (372, 53307), (389, 53250), (400, 53214), (402, 53202), (411, 53175), (421, 53148), (432, 53130), (442, 53112), (465, 53073), (469, 53064), (471, 53061), (576, 52803), (607, 52701), (612, 52668), (617, 52647), (647, 52554), (651, 52545), (668, 52482), (683, 52446), (685, 52443), (691, 52428), (717, 52350), (722, 52338), (730, 52317), (748, 52278), (775, 52188), (779, 52170), (781, 52164), (785, 52149), (793, 52125), (795, 52110), (796, 52107), (799, 52095), (809, 52071), (830, 52023), (840, 51999),

Gene: Polymorphads_46 Start: 31563, Stop: 29737, Start Num: 191

Candidate Starts for Polymorphads_46:

(Start: 191 @31563 has 828 MA's), (201, 31542), (209, 31512), (221, 31482), (291, 31320), (300, 31302), (326, 31230), (328, 31221), (366, 31101), (372, 31077), (420, 30984), (448, 30936), (458, 30915), (476, 30876), (523, 30744), (532, 30723), (556, 30678), (559, 30666), (609, 30513), (611, 30492), (646, 30369), (656, 30339), (666, 30300), (683, 30234), (685, 30231), (691, 30216), (698, 30192), (704, 30168), (775, 29961), (812, 29826), (816, 29814), (820, 29805),

Gene: Pomar16_47 Start: 31194, Stop: 29371, Start Num: 191

Candidate Starts for Pomar16_47:

(Start: 191 @31194 has 828 MA's), (271, 30990), (283, 30966), (291, 30948), (300, 30930), (307, 30915), (308, 30912), (314, 30885), (326, 30858), (340, 30807), (372, 30705), (420, 30612), (446, 30564), (451, 30555), (457, 30543), (458, 30540), (484, 30474), (508, 30414), (556, 30300), (565, 30276), (581, 30237), (611, 30111), (625, 30060), (637, 30024), (656, 29958), (666, 29919), (685, 29850), (698, 29811), (713, 29766), (726, 29736), (754, 29673), (758, 29661), (760, 29655), (775, 29595), (812, 29460), (816, 29448), (820, 29439),

Gene: Poompha_43 Start: 30385, Stop: 28553, Start Num: 191

Candidate Starts for Poompha_43:

(Start: 191 @30385 has 828 MA's), (209, 30334), (236, 30268), (271, 30181), (274, 30172), (302, 30121), (307, 30109), (326, 30052), (347, 29971), (351, 29959), (355, 29950), (366, 29923), (372, 29899), (420, 29806), (476, 29698), (484, 29671), (534, 29539), (611, 29311), (632, 29245), (646, 29188), (656, 29158), (666, 29119), (685, 29047), (691, 29032), (698, 29008), (712, 28966), (726, 28933), (775, 28777), (781, 28753), (798, 28690), (812, 28642), (816, 28630), (820, 28621),

Gene: Popcicle_44 Start: 31594, Stop: 29756, Start Num: 191

Candidate Starts for Popcicle_44:

(Start: 191 @31594 has 828 MA's), (209, 31543), (271, 31390), (307, 31318), (314, 31288), (326, 31261), (328, 31252), (372, 31108), (420, 31012), (448, 30964), (476, 30904), (509, 30817), (523, 30772), (532, 30751), (566, 30679), (582, 30637), (592, 30595), (611, 30514), (623, 30466), (637, 30427), (646, 30391), (656, 30361), (664, 30331), (685, 30250), (698, 30211), (704, 30187), (712, 30169), (713, 30166), (760, 30040), (775, 29980), (798, 29893), (812, 29845), (816, 29833), (820, 29824),

Gene: Pops_60 Start: 54238, Stop: 52379, Start Num: 149

Candidate Starts for Pops_60:

(Start: 133 @54262 has 1 MA's), (Start: 149 @54238 has 248 MA's), (Start: 174 @54214 has 5 MA's), (Start: 186 @54208 has 3 MA's), (205, 54166), (212, 54145), (254, 54031), (256, 54025), (269, 53995), (296, 53935), (306, 53914), (323, 53860), (327, 53848), (332, 53830), (335, 53818), (372, 53713), (389, 53656), (400, 53620), (402, 53608), (410, 53584), (414, 53572), (421, 53554), (432, 53536), (442, 53518), (465, 53479), (469, 53470), (471, 53467), (473, 53464), (607, 53107), (612, 53074), (617, 53053), (647, 52960), (651, 52951), (668, 52888), (683, 52852), (685, 52849), (691, 52834), (717, 52756), (722, 52744), (730, 52723), (748, 52684), (775, 52594), (779, 52576), (781, 52570), (785, 52555), (793, 52531), (795, 52516), (796, 52513), (799, 52501), (809, 52477), (830, 52429), (840, 52405),

Gene: Poster_52 Start: 52989, Stop: 51166, Start Num: 141

Candidate Starts for Poster_52:

(Start: 128 @53007 has 3 MA's), (Start: 141 @52989 has 23 MA's), (Start: 186 @52965 has 3 MA's), (201, 52938), (205, 52923), (212, 52902), (246, 52815), (293, 52710), (310, 52668), (332, 52602), (341, 52572), (343, 52563), (347, 52560), (349, 52557), (358, 52530), (389, 52437), (395, 52419), (400, 52401), (402, 52389), (407, 52374), (411, 52362), (469, 52251), (471, 52248), (483, 52218), (494, 52182), (589, 51957), (590, 51954), (601, 51918), (607, 51894), (612, 51861), (645, 51753), (647, 51747), (649, 51741), (651, 51738), (683, 51639), (685, 51636), (691, 51621), (717, 51543), (722, 51531), (730, 51510), (733, 51501), (748, 51471), (758, 51447), (768, 51414), (775, 51381),

(779, 51363), (781, 51357), (793, 51318), (796, 51300), (799, 51288), (809, 51264), (826, 51222), (830, 51216), (840, 51192),

Gene: PotatoSplit_50 Start: 31856, Stop: 30042, Start Num: 191

Candidate Starts for PotatoSplit_50:

(Start: 191 @31856 has 828 MA's), (206, 31817), (209, 31805), (271, 31652), (276, 31637), (307, 31580), (326, 31523), (328, 31514), (340, 31472), (355, 31421), (372, 31370), (420, 31277), (446, 31229), (451, 31220), (458, 31205), (476, 31166), (484, 31139), (494, 31109), (528, 31016), (558, 30956), (565, 30941), (611, 30785), (637, 30698), (656, 30632), (666, 30593), (685, 30521), (698, 30482), (704, 30458), (712, 30440), (726, 30407), (737, 30380), (760, 30326), (775, 30266), (795, 30188), (812, 30131), (816, 30119), (820, 30110),

Gene: Potter_59 Start: 54044, Stop: 52185, Start Num: 149

Candidate Starts for Potter_59:

(Start: 133 @54068 has 1 MA's), (Start: 149 @54044 has 248 MA's), (Start: 174 @54020 has 5 MA's), (Start: 186 @54014 has 3 MA's), (205, 53972), (212, 53951), (254, 53837), (256, 53831), (269, 53801), (296, 53741), (306, 53720), (323, 53666), (327, 53654), (332, 53636), (335, 53624), (372, 53519), (389, 53462), (400, 53426), (402, 53414), (411, 53387), (432, 53342), (465, 53285), (469, 53276), (471, 53273), (607, 52913), (612, 52880), (617, 52859), (647, 52766), (651, 52757), (668, 52694), (683, 52658), (685, 52655), (691, 52640), (717, 52562), (722, 52550), (730, 52529), (748, 52490), (775, 52400), (779, 52382), (781, 52376), (785, 52361), (793, 52337), (795, 52322), (796, 52319), (799, 52307), (809, 52283), (830, 52235), (840, 52211),

Gene: Power_43 Start: 31319, Stop: 29532, Start Num: 191

Candidate Starts for Power_43:

(61, 31574), (Start: 191 @31319 has 828 MA's), (271, 31115), (272, 31112), (274, 31106), (283, 31091), (291, 31076), (307, 31043), (308, 31040), (314, 31013), (326, 30986), (331, 30965), (340, 30935), (372, 30833), (376, 30824), (420, 30740), (446, 30692), (451, 30683), (458, 30668), (484, 30602), (515, 30521), (532, 30473), (534, 30467), (565, 30404), (592, 30329), (611, 30248), (625, 30197), (636, 30164), (637, 30161), (656, 30095), (666, 30056), (676, 30035), (712, 29930), (726, 29897), (737, 29870), (754, 29834), (758, 29822), (760, 29816), (770, 29780), (775, 29756), (795, 29678), (812, 29621), (816, 29609), (820, 29600),

Gene: Powerpuff_43 Start: 30792, Stop: 32657, Start Num: 191

Candidate Starts for Powerpuff_43:

(Start: 191 @30792 has 828 MA's), (208, 30840), (314, 31089), (343, 31179), (423, 31386), (428, 31395), (472, 31485), (476, 31494), (481, 31509), (496, 31554), (515, 31599), (532, 31647), (559, 31704), (583, 31785), (606, 31872), (611, 31905), (618, 31935), (637, 31992), (656, 32058), (663, 32082), (680, 32151), (704, 32223), (708, 32232), (752, 32331), (770, 32394), (775, 32418), (804, 32529), (812, 32553), (815, 32562),

Gene: Priamo_47 Start: 29939, Stop: 28098, Start Num: 191

Candidate Starts for Priamo_47:

(Start: 191 @29939 has 828 MA's), (271, 29735), (307, 29660), (308, 29657), (314, 29630), (319, 29615), (326, 29603), (340, 29552), (372, 29450), (420, 29357), (441, 29318), (451, 29300), (484, 29219), (498, 29183), (535, 29081), (565, 29021), (592, 28937), (611, 28856), (636, 28772), (637, 28769), (639, 28760), (646, 28733), (656, 28703), (676, 28643), (691, 28604), (698, 28580), (770, 28388), (771, 28385), (775, 28364), (812, 28229), (816, 28217), (820, 28208), (821, 28205), (859, 28112),

Gene: Prickles_62 Start: 54544, Stop: 52685, Start Num: 149

Candidate Starts for Prickles_62:

(Start: 133 @54568 has 1 MA's), (Start: 149 @54544 has 248 MA's), (Start: 174 @54520 has 5 MA's), (Start: 186 @54514 has 3 MA's), (205, 54472), (212, 54451), (254, 54337), (256, 54331), (269, 54301), (296, 54241), (306, 54220), (323, 54166), (327, 54154), (332, 54136), (335, 54124), (372, 54019), (389, 53962), (400, 53926), (402, 53914), (411, 53887), (414, 53878), (432, 53842), (465, 53785), (469, 53776), (471, 53773), (473, 53770), (607, 53413), (612, 53380), (617, 53359), (647, 53266), (651, 53257), (668, 53194), (683, 53158), (685, 53155), (691, 53140), (717, 53062), (722, 53050), (730, 53029), (748, 52990), (775, 52900), (779, 52882), (781, 52876), (785, 52861), (793, 52837), (795, 52822), (796, 52819), (799, 52807), (809, 52783), (830, 52735), (840, 52711),

Gene: Prince_54 Start: 54119, Stop: 52347, Start Num: 201

Candidate Starts for Prince_54:

(Start: 128 @54188 has 3 MA's), (Start: 141 @54170 has 23 MA's), (Start: 186 @54146 has 3 MA's), (201, 54119), (205, 54104), (212, 54083), (246, 53996), (293, 53891), (310, 53849), (332, 53783), (341, 53753), (343, 53744), (347, 53741), (349, 53738), (389, 53618), (395, 53600), (400, 53582), (402, 53570), (407, 53555), (411, 53543), (469, 53432), (471, 53429), (483, 53399), (494, 53363), (589, 53138), (590, 53135), (601, 53099), (607, 53075), (612, 53042), (645, 52934), (647, 52928), (651, 52919), (683, 52820), (685, 52817), (691, 52802), (717, 52724), (722, 52712), (730, 52691), (733, 52682), (748, 52652), (768, 52595), (775, 52562), (779, 52544), (781, 52538), (793, 52499), (796, 52481), (799, 52469), (809, 52445), (826, 52403), (830, 52397), (840, 52373),

Gene: Priya_45 Start: 31550, Stop: 29757, Start Num: 191

Candidate Starts for Priya_45:

(Start: 191 @31550 has 828 MA's), (196, 31541), (209, 31499), (261, 31379), (262, 31376), (279, 31328), (308, 31268), (315, 31238), (319, 31226), (326, 31214), (372, 31061), (420, 30968), (484, 30830), (494, 30800), (559, 30641), (565, 30629), (579, 30602), (609, 30494), (611, 30473), (651, 30338), (656, 30320), (683, 30239), (698, 30197), (726, 30122), (758, 30047), (770, 30005), (795, 29903), (812, 29846), (816, 29834), (820, 29825),

Gene: ProfessorX_60 Start: 54043, Stop: 52184, Start Num: 149

Candidate Starts for ProfessorX_60:

(Start: 133 @54067 has 1 MA's), (Start: 149 @54043 has 248 MA's), (Start: 174 @54019 has 5 MA's), (Start: 186 @54013 has 3 MA's), (205, 53971), (212, 53950), (254, 53836), (256, 53830), (269, 53800), (296, 53740), (306, 53719), (323, 53665), (327, 53653), (332, 53635), (335, 53623), (372, 53518), (389, 53461), (400, 53425), (402, 53413), (410, 53389), (414, 53377), (421, 53359), (432, 53341), (442, 53323), (465, 53284), (469, 53275), (471, 53272), (473, 53269), (607, 52912), (612, 52879), (617, 52858), (647, 52765), (651, 52756), (668, 52693), (683, 52657), (685, 52654), (691, 52639), (717, 52561), (722, 52549), (730, 52528), (748, 52489), (775, 52399), (779, 52381), (781, 52375), (785, 52360), (793, 52336), (795, 52321), (796, 52318), (799, 52306), (809, 52282), (830, 52234), (840, 52210),

Gene: Puhltonio_60 Start: 54318, Stop: 52459, Start Num: 149

Candidate Starts for Puhltonio_60:

(Start: 133 @54342 has 1 MA's), (Start: 149 @54318 has 248 MA's), (Start: 174 @54294 has 5 MA's), (Start: 186 @54288 has 3 MA's), (205, 54246), (212, 54225), (254, 54111), (256, 54105), (269, 54075), (296, 54015), (306, 53994), (323, 53940), (327, 53928), (332, 53910), (335, 53898), (372, 53793), (389, 53736), (400, 53700), (402, 53688), (411, 53661), (421, 53634), (432, 53616), (442, 53598), (465, 53559), (469, 53550), (471, 53547), (576, 53289), (607, 53187), (612, 53154), (617, 53133), (647, 53040), (651, 53031), (668, 52968), (683, 52932), (685, 52929), (691, 52914), (717, 52836), (722, 52824), (730, 52803), (748, 52764), (775, 52674), (779, 52656), (781, 52650), (785, 52635), (793, 52611), (795, 52596), (796, 52593), (799, 52581), (809, 52557), (830, 52509), (840, 52485),

Gene: Pukovnik_43 Start: 32125, Stop: 30323, Start Num: 191

Candidate Starts for Pukovnik_43:

(Start: 191 @32125 has 828 MA's), (271, 31921), (272, 31918), (308, 31843), (314, 31816), (326, 31789), (331, 31768), (368, 31648), (372, 31636), (420, 31543), (446, 31495), (451, 31486), (458, 31471), (484, 31405), (526, 31288), (556, 31231), (565, 31207), (581, 31165), (597, 31102), (611, 31039), (625, 30988), (637, 30952), (646, 30916), (656, 30886), (666, 30847), (676, 30826), (683, 30805), (726, 30688), (754, 30625), (770, 30571), (775, 30547), (791, 30490), (795, 30469), (812, 30412), (816, 30400), (820, 30391),

Gene: Pumbaa_45 Start: 31515, Stop: 29686, Start Num: 191

Candidate Starts for Pumbaa_45:

(Start: 191 @31515 has 828 MA's), (201, 31494), (209, 31464), (221, 31434), (291, 31272), (300, 31254), (326, 31182), (328, 31173), (366, 31053), (372, 31029), (420, 30936), (448, 30888), (458, 30867), (476, 30828), (523, 30696), (532, 30675), (556, 30630), (559, 30618), (611, 30444), (651, 30309), (656, 30291), (666, 30252), (685, 30180), (698, 30141), (704, 30117), (706, 30111), (713, 30096), (775, 29910), (812, 29775), (816, 29763), (820, 29754),

Gene: Pumpnickel_113 Start: 82450, Stop: 80615, Start Num: 180

Candidate Starts for Pumpnickel_113:

(Start: 180 @82450 has 7 MA's), (206, 82408), (272, 82222), (305, 82165), (327, 82102), (334, 82075), (360, 82012), (425, 81886), (436, 81865), (445, 81847), (464, 81802), (476, 81775), (490, 81730), (496, 81715), (503, 81697), (509, 81685), (523, 81640), (526, 81631), (611, 81385), (632, 81319), (642, 81271), (668, 81172), (696, 81076), (698, 81067), (708, 81034), (712, 81025), (726, 80992), (742, 80956), (779, 80815), (789, 80782), (793, 80770), (801, 80731), (812, 80698),

Gene: Pumpkins_62 Start: 29815, Stop: 31680, Start Num: 191

Candidate Starts for Pumpkins_62:

(Start: 191 @29815 has 828 MA's), (208, 29863), (314, 30112), (351, 30232), (423, 30409), (476, 30517), (481, 30532), (532, 30670), (583, 30808), (611, 30928), (637, 31015), (656, 31081), (680, 31174), (770, 31417), (812, 31576), (815, 31585),

Gene: Puppies_42 Start: 34640, Stop: 32244, Start Num: 3

Candidate Starts for Puppies_42:

(Start: 3 @34640 has 5 MA's), (4, 34631), (12, 34535), (99, 34199), (Start: 112 @34169 has 1 MA's), (120, 34157), (155, 34103), (221, 33983), (235, 33962), (249, 33917), (270, 33869), (280, 33848), (339, 33686), (366, 33623), (372, 33602), (376, 33593), (400, 33512), (402, 33500), (419, 33446), (438, 33416), (457, 33389), (469, 33362), (471, 33359), (473, 33356), (533, 33209), (560, 33125), (584, 33074), (595, 33035), (598, 33026), (601, 33017), (612, 32960), (639, 32879), (647, 32849), (673, 32759), (678, 32747), (691, 32720), (717, 32642), (722, 32630), (733, 32600), (764, 32510), (768, 32495), (775, 32462), (791, 32405), (795, 32384), (796, 32381), (805, 32357), (809, 32345), (830, 32294), (840, 32270),

Gene: Puppy_47 Start: 31175, Stop: 29337, Start Num: 191

Candidate Starts for Puppy_47:

(Start: 191 @31175 has 828 MA's), (209, 31124), (236, 31058), (271, 30971), (302, 30911), (307, 30899), (326, 30842), (328, 30833), (366, 30713), (372, 30689), (420, 30593), (448, 30545), (476, 30485), (498, 30422), (523, 30353), (532, 30332), (566, 30260), (582, 30218), (592, 30176), (611, 30095), (623, 30047), (646, 29972), (656, 29942), (664, 29912), (685, 29831), (698, 29792), (704, 29768), (712, 29750), (760, 29621), (775, 29561), (812, 29426), (816, 29414), (820, 29405),

Gene: PurpleHaze_48 Start: 31752, Stop: 29938, Start Num: 191

Candidate Starts for PurpleHaze_48:

(Start: 191 @31752 has 828 MA's), (206, 31713), (209, 31701), (271, 31548), (276, 31533), (307, 31476), (326, 31419), (328, 31410), (340, 31368), (355, 31317), (372, 31266), (420, 31173), (446,

31125), (458, 31101), (476, 31062), (484, 31035), (494, 31005), (528, 30912), (534, 30900), (558, 30852), (565, 30837), (611, 30681), (625, 30630), (636, 30597), (637, 30594), (656, 30528), (666, 30489), (685, 30417), (698, 30378), (704, 30354), (712, 30336), (726, 30303), (760, 30222), (775, 30162), (779, 30144), (795, 30084), (798, 30075), (812, 30027), (816, 30015), (820, 30006),

Gene: QMacho_45 Start: 30268, Stop: 32142, Start Num: 182

Candidate Starts for QMacho_45:

(Start: 179 @30265 has 7 MA's), (Start: 182 @30268 has 49 MA's), (216, 30337), (224, 30358), (235, 30382), (307, 30538), (328, 30604), (476, 30940), (523, 31075), (564, 31174), (598, 31297), (611, 31357), (614, 31363), (625, 31408), (635, 31438), (644, 31474), (656, 31510), (680, 31603), (713, 31696), (747, 31774), (770, 31846), (778, 31885), (791, 31927), (794, 31945), (812, 32005), (820, 32026),

Gene: QTRlifeCrisis_49 Start: 35266, Stop: 33440, Start Num: 191

Candidate Starts for QTRlifeCrisis_49:

(Start: 191 @35266 has 828 MA's), (274, 35053), (307, 34990), (314, 34960), (322, 34939), (326, 34933), (328, 34924), (365, 34807), (372, 34780), (420, 34687), (428, 34672), (446, 34639), (470, 34588), (472, 34585), (494, 34519), (508, 34489), (518, 34459), (534, 34414), (556, 34375), (611, 34195), (623, 34147), (637, 34108), (656, 34042), (666, 34003), (676, 33982), (683, 33961), (691, 33943), (712, 33877), (770, 33727), (771, 33724), (778, 33688), (785, 33664), (788, 33655), (792, 33643), (812, 33568), (820, 33547),

Gene: Qobbit_45 Start: 31512, Stop: 29719, Start Num: 191

Candidate Starts for Qobbit_45:

(Start: 191 @31512 has 828 MA's), (196, 31503), (209, 31461), (261, 31341), (262, 31338), (279, 31290), (308, 31230), (315, 31200), (319, 31188), (326, 31176), (372, 31023), (420, 30930), (484, 30792), (494, 30762), (559, 30603), (565, 30591), (579, 30564), (609, 30456), (611, 30435), (651, 30300), (656, 30282), (683, 30201), (698, 30159), (726, 30084), (758, 30009), (770, 29967), (795, 29865), (812, 29808), (816, 29796), (820, 29787),

Gene: QueenB2_44 Start: 31390, Stop: 29603, Start Num: 191

Candidate Starts for QueenB2_44:

(Start: 191 @31390 has 828 MA's), (272, 31183), (274, 31177), (283, 31162), (291, 31147), (307, 31114), (308, 31111), (314, 31084), (326, 31057), (331, 31036), (372, 30904), (420, 30811), (439, 30775), (446, 30763), (451, 30754), (458, 30739), (484, 30673), (515, 30592), (532, 30544), (534, 30538), (565, 30475), (611, 30319), (625, 30268), (636, 30235), (637, 30232), (656, 30166), (666, 30127), (676, 30106), (701, 30031), (704, 30019), (754, 29905), (760, 29887), (770, 29851), (775, 29827), (795, 29749), (812, 29692), (816, 29680), (820, 29671),

Gene: QueenBeane_60 Start: 54350, Stop: 52491, Start Num: 149

Candidate Starts for QueenBeane_60:

(Start: 133 @54374 has 1 MA's), (Start: 149 @54350 has 248 MA's), (Start: 174 @54326 has 5 MA's), (Start: 186 @54320 has 3 MA's), (205, 54278), (212, 54257), (254, 54143), (256, 54137), (269, 54107), (296, 54047), (306, 54026), (323, 53972), (327, 53960), (332, 53942), (335, 53930), (372, 53825), (389, 53768), (400, 53732), (402, 53720), (411, 53693), (432, 53648), (465, 53591), (469, 53582), (471, 53579), (607, 53219), (612, 53186), (617, 53165), (647, 53072), (651, 53063), (668, 53000), (683, 52964), (685, 52961), (691, 52946), (717, 52868), (722, 52856), (730, 52835), (748, 52796), (775, 52706), (779, 52688), (781, 52682), (785, 52667), (793, 52643), (795, 52628), (796, 52625), (799, 52613), (809, 52589), (830, 52541), (840, 52517),

Gene: QueenBeesly_44 Start: 31266, Stop: 29479, Start Num: 191

Candidate Starts for QueenBeesly_44:

(61, 31521), (Start: 191 @31266 has 828 MA's), (271, 31062), (272, 31059), (274, 31053), (283, 31038), (291, 31023), (307, 30990), (308, 30987), (314, 30960), (326, 30933), (331, 30912), (340, 30882), (372, 30780), (420, 30687), (446, 30639), (451, 30630), (458, 30615), (484, 30549), (515, 30468), (532, 30420), (534, 30414), (565, 30351), (592, 30276), (611, 30195), (625, 30144), (636, 30111), (637, 30108), (656, 30042), (666, 30003), (676, 29982), (701, 29907), (706, 29889), (726, 29844), (737, 29817), (754, 29781), (758, 29769), (760, 29763), (770, 29727), (775, 29703), (795, 29625), (812, 29568), (816, 29556), (820, 29547),

Gene: Quenya_42 Start: 30106, Stop: 31977, Start Num: 191

Candidate Starts for Quenya_42:

(159, 30058), (Start: 191 @30106 has 828 MA's), (199, 30124), (216, 30175), (271, 30313), (331, 30454), (332, 30457), (361, 30538), (438, 30697), (456, 30733), (476, 30778), (481, 30793), (508, 30865), (515, 30886), (611, 31192), (625, 31243), (632, 31258), (644, 31309), (647, 31318), (656, 31345), (680, 31438), (713, 31531), (747, 31609), (770, 31681), (775, 31705), (791, 31762), (804, 31816), (812, 31840), (820, 31861),

Gene: Quesadilla_58 Start: 54997, Stop: 53174, Start Num: 151

Candidate Starts for Quesadilla_58:

(Start: 151 @54997 has 3 MA's), (201, 54943), (216, 54898), (226, 54889), (235, 54871), (254, 54817), (272, 54778), (312, 54679), (327, 54640), (334, 54616), (357, 54547), (372, 54508), (389, 54451), (400, 54415), (402, 54403), (410, 54379), (411, 54376), (414, 54367), (471, 54256), (480, 54238), (483, 54226), (494, 54190), (586, 53977), (589, 53965), (590, 53962), (595, 53944), (601, 53926), (607, 53902), (608, 53896), (612, 53869), (647, 53755), (651, 53746), (683, 53647), (685, 53644), (691, 53629), (717, 53551), (722, 53539), (730, 53518), (738, 53500), (753, 53470), (765, 53434), (775, 53389), (779, 53371), (781, 53365), (793, 53326), (794, 53314), (795, 53311), (809, 53272), (830, 53224), (840, 53200),

Gene: QuinnKiro_43 Start: 31597, Stop: 29759, Start Num: 191

Candidate Starts for QuinnKiro_43:

(Start: 191 @31597 has 828 MA's), (209, 31546), (271, 31393), (307, 31321), (314, 31291), (326, 31264), (328, 31255), (372, 31111), (420, 31015), (448, 30967), (476, 30907), (509, 30820), (523, 30775), (532, 30754), (566, 30682), (582, 30640), (592, 30598), (611, 30517), (623, 30469), (637, 30430), (646, 30394), (656, 30364), (664, 30334), (685, 30253), (698, 30214), (704, 30190), (712, 30172), (713, 30169), (760, 30043), (775, 29983), (798, 29896), (812, 29848), (816, 29836), (820, 29827),

Gene: Quisquilliae_61 Start: 54311, Stop: 52452, Start Num: 149

Candidate Starts for Quisquilliae_61:

(Start: 133 @54335 has 1 MA's), (Start: 149 @54311 has 248 MA's), (Start: 174 @54287 has 5 MA's), (Start: 186 @54281 has 3 MA's), (205, 54239), (212, 54218), (254, 54104), (256, 54098), (269, 54068), (296, 54008), (306, 53987), (323, 53933), (327, 53921), (332, 53903), (335, 53891), (372, 53786), (389, 53729), (400, 53693), (402, 53681), (410, 53657), (414, 53645), (421, 53627), (432, 53609), (442, 53591), (465, 53552), (469, 53543), (471, 53540), (473, 53537), (607, 53180), (612, 53147), (647, 53033), (651, 53024), (668, 52961), (683, 52925), (685, 52922), (691, 52907), (717, 52829), (722, 52817), (730, 52796), (748, 52757), (775, 52667), (779, 52649), (781, 52643), (785, 52628), (793, 52604), (795, 52589), (796, 52586), (799, 52574), (809, 52550), (830, 52502), (840, 52478),

Gene: Qyrzula_52 Start: 52584, Stop: 50782, Start Num: 186

Candidate Starts for Qyrzula_52:

(Start: 147 @52611 has 31 MA's), (Start: 186 @52584 has 3 MA's), (202, 52554), (205, 52542), (215, 52515), (216, 52512), (221, 52503), (235, 52485), (272, 52389), (296, 52338), (307, 52314), (358, 52152), (368, 52128), (372, 52116), (389, 52059), (400, 52023), (402, 52011), (410, 51987), (453,

51909), (456, 51903), (460, 51894), (469, 51873), (471, 51870), (483, 51840), (542, 51696), (565, 51630), (586, 51591), (589, 51579), (595, 51558), (601, 51540), (612, 51483), (633, 51426), (639, 51399), (647, 51369), (651, 51360), (668, 51294), (679, 51267), (683, 51258), (691, 51240), (698, 51216), (717, 51162), (722, 51150), (730, 51129), (760, 51060), (775, 51000), (779, 50982), (789, 50949), (793, 50937), (795, 50922), (796, 50919), (799, 50907), (809, 50883), (810, 50880), (830, 50832), (832, 50829), (840, 50808), (847, 50787),

Gene: RER2_29 Start: 24985, Stop: 23201, Start Num: 191

Candidate Starts for RER2_29:

(Start: 191 @24985 has 828 MA's), (288, 24751), (302, 24721), (306, 24712), (307, 24709), (319, 24664), (326, 24652), (328, 24643), (340, 24601), (372, 24499), (380, 24478), (420, 24406), (444, 24361), (446, 24358), (466, 24316), (468, 24310), (476, 24295), (484, 24268), (523, 24163), (534, 24136), (556, 24097), (611, 23917), (623, 23869), (656, 23764), (657, 23761), (676, 23704), (683, 23683), (700, 23635), (727, 23560), (758, 23491), (770, 23449), (775, 23425), (795, 23347), (812, 23290), (816, 23278), (839, 23221),

Gene: RGL3_31 Start: 25970, Stop: 24174, Start Num: 191

Candidate Starts for RGL3_31:

(Start: 191 @25970 has 828 MA's), (271, 25766), (274, 25757), (291, 25727), (302, 25706), (322, 25643), (328, 25628), (331, 25616), (366, 25508), (372, 25484), (376, 25475), (404, 25433), (405, 25430), (420, 25391), (444, 25346), (446, 25343), (476, 25280), (483, 25259), (484, 25253), (523, 25148), (534, 25121), (556, 25082), (558, 25073), (566, 25055), (582, 25013), (611, 24890), (623, 24842), (656, 24737), (683, 24656), (689, 24644), (758, 24464), (760, 24458), (770, 24422), (771, 24419), (775, 24398), (812, 24263), (816, 24251), (820, 24242), (834, 24212), (839, 24194),

Gene: Racecar_100 Start: 78450, Stop: 80246, Start Num: 194

Candidate Starts for Racecar_100:

(Start: 194 @78450 has 1 MA's), (235, 78546), (327, 78762), (334, 78789), (336, 78795), (365, 78864), (376, 78900), (464, 79047), (465, 79053), (476, 79074), (481, 79089), (556, 79278), (572, 79323), (584, 79356), (588, 79374), (597, 79407), (609, 79446), (611, 79467), (614, 79473), (644, 79587), (665, 79671), (667, 79677), (669, 79689), (680, 79737), (686, 79749), (698, 79785), (708, 79818), (712, 79827), (730, 79872), (738, 79890), (765, 79974), (770, 79995), (776, 80022), (779, 80037), (789, 80070), (794, 80094), (800, 80118), (812, 80154), (823, 80181),

Gene: Rachaly_45 Start: 31989, Stop: 30202, Start Num: 191

Candidate Starts for Rachaly_45:

(Start: 191 @31989 has 828 MA's), (272, 31782), (274, 31776), (291, 31746), (307, 31713), (308, 31710), (319, 31668), (326, 31656), (372, 31503), (420, 31410), (446, 31362), (451, 31353), (458, 31338), (484, 31272), (532, 31143), (592, 30999), (611, 30918), (625, 30867), (636, 30834), (637, 30831), (656, 30765), (666, 30726), (676, 30705), (701, 30630), (704, 30618), (737, 30540), (754, 30504), (760, 30486), (770, 30450), (775, 30426), (795, 30348), (812, 30291), (816, 30279), (820, 30270),

Gene: RagingRooster_57 Start: 53332, Stop: 51515, Start Num: 183

Candidate Starts for RagingRooster_57:

(80, 53515), (Start: 183 @53332 has 42 MA's), (201, 53302), (274, 53122), (331, 52969), (334, 52957), (343, 52927), (349, 52921), (372, 52858), (375, 52852), (389, 52801), (398, 52774), (400, 52765), (414, 52717), (471, 52612), (510, 52516), (533, 52465), (589, 52321), (601, 52282), (608, 52252), (612, 52225), (616, 52213), (645, 52117), (647, 52111), (651, 52102), (655, 52090), (674, 52018), (683, 51988), (691, 51970), (694, 51961), (717, 51892), (722, 51880), (730, 51859), (760, 51790), (765, 51775), (771, 51751), (775, 51730), (779, 51712), (781, 51706), (791, 51673), (793, 51667), (796, 51649), (799, 51637), (805, 51625), (809, 51613), (826, 51571), (840, 51541),

Gene: Rahalelujah_44 Start: 30731, Stop: 28938, Start Num: 191

Candidate Starts for Rahalelujah_44:

(Start: 191 @30731 has 828 MA's), (196, 30722), (209, 30680), (245, 30593), (271, 30527), (274, 30518), (279, 30509), (289, 30491), (308, 30449), (314, 30422), (319, 30407), (326, 30395), (340, 30344), (372, 30242), (415, 30164), (420, 30149), (451, 30092), (494, 29981), (530, 29885), (559, 29822), (579, 29783), (582, 29777), (611, 29654), (639, 29558), (646, 29531), (656, 29501), (666, 29462), (683, 29420), (726, 29303), (758, 29228), (770, 29186), (795, 29084), (812, 29027), (816, 29015), (820, 29006),

Gene: RainyPolka_49 Start: 39380, Stop: 37371, Start Num: 93

Candidate Starts for RainyPolka_49:

(Start: 93 @39380 has 10 MA's), (Start: 132 @39311 has 1 MA's), (161, 39269), (178, 39242), (209, 39179), (211, 39173), (214, 39167), (238, 39119), (240, 39107), (252, 39080), (259, 39056), (282, 38996), (293, 38972), (309, 38933), (310, 38930), (333, 38846), (365, 38750), (391, 38663), (399, 38639), (403, 38627), (407, 38615), (437, 38546), (548, 38294), (553, 38279), (580, 38222), (585, 38207), (586, 38201), (599, 38159), (607, 38129), (612, 38096), (619, 38063), (627, 38042), (638, 38024), (643, 38000), (658, 37943), (684, 37859), (692, 37841), (693, 37835), (695, 37829), (699, 37814), (701, 37805), (758, 37673), (769, 37628), (775, 37604), (776, 37601), (792, 37547), (795, 37529), (805, 37496), (813, 37472), (825, 37451), (835, 37424),

Gene: Rajelicia_46 Start: 35200, Stop: 33413, Start Num: 191

Candidate Starts for Rajelicia_46:

(Start: 191 @35200 has 828 MA's), (274, 34987), (283, 34972), (314, 34894), (322, 34873), (326, 34867), (328, 34858), (365, 34741), (372, 34714), (420, 34621), (428, 34606), (470, 34522), (472, 34519), (494, 34453), (508, 34423), (518, 34393), (534, 34348), (556, 34309), (611, 34129), (623, 34081), (637, 34042), (656, 33976), (679, 33904), (683, 33895), (712, 33811), (750, 33724), (785, 33598), (789, 33586), (812, 33502), (814, 33496),

Gene: Rasputin_36 Start: 28083, Stop: 26299, Start Num: 191

Candidate Starts for Rasputin_36:

(Start: 191 @28083 has 828 MA's), (288, 27849), (302, 27819), (306, 27810), (307, 27807), (319, 27762), (326, 27750), (340, 27699), (372, 27597), (380, 27576), (420, 27504), (444, 27459), (446, 27456), (466, 27414), (468, 27408), (476, 27393), (484, 27366), (523, 27261), (526, 27252), (534, 27234), (556, 27195), (582, 27138), (611, 27015), (623, 26967), (656, 26862), (657, 26859), (676, 26802), (683, 26781), (700, 26733), (727, 26658), (758, 26589), (770, 26547), (775, 26523), (795, 26445), (812, 26388), (816, 26376), (820, 26367), (834, 26337), (839, 26319),

Gene: RawrgerThat_54 Start: 54025, Stop: 52202, Start Num: 141

Candidate Starts for RawrgerThat_54:

(Start: 128 @54043 has 3 MA's), (Start: 141 @54025 has 23 MA's), (Start: 186 @54001 has 3 MA's), (201, 53974), (205, 53959), (212, 53938), (246, 53851), (293, 53746), (306, 53719), (310, 53704), (332, 53638), (341, 53608), (343, 53599), (347, 53596), (349, 53593), (358, 53566), (372, 53530), (389, 53473), (395, 53455), (400, 53437), (402, 53425), (411, 53398), (442, 53335), (465, 53296), (469, 53287), (471, 53284), (483, 53254), (494, 53218), (589, 52993), (590, 52990), (601, 52954), (612, 52897), (645, 52789), (647, 52783), (651, 52774), (683, 52675), (685, 52672), (691, 52657), (717, 52579), (722, 52567), (730, 52546), (733, 52537), (748, 52507), (760, 52477), (768, 52450), (775, 52417), (781, 52393), (793, 52354), (796, 52336), (799, 52324), (809, 52300), (826, 52258), (830, 52252), (840, 52228),

Gene: ReMo_46 Start: 29740, Stop: 27950, Start Num: 191

Candidate Starts for ReMo_46:

(Start: 191 @29740 has 828 MA's), (262, 29566), (307, 29461), (308, 29458), (314, 29431), (326, 29404), (340, 29353), (372, 29251), (420, 29158), (444, 29113), (446, 29110), (451, 29101), (515,

28939), (523, 28912), (532, 28891), (534, 28885), (583, 28786), (592, 28747), (607, 28696), (611, 28666), (625, 28615), (636, 28582), (644, 28549), (646, 28543), (656, 28513), (676, 28453), (683, 28432), (698, 28390), (705, 28363), (712, 28348), (750, 28261), (770, 28198), (771, 28195), (812, 28039), (816, 28027), (821, 28015),

Gene: Reba_48 Start: 31412, Stop: 29598, Start Num: 191

Candidate Starts for Reba_48:

(Start: 191 @31412 has 828 MA's), (206, 31373), (209, 31361), (271, 31208), (276, 31193), (307, 31136), (326, 31079), (328, 31070), (340, 31028), (355, 30977), (372, 30926), (420, 30833), (446, 30785), (458, 30761), (476, 30722), (484, 30695), (494, 30665), (528, 30572), (534, 30560), (558, 30512), (565, 30497), (611, 30341), (625, 30290), (636, 30257), (637, 30254), (656, 30188), (666, 30149), (685, 30077), (698, 30038), (704, 30014), (712, 29996), (726, 29963), (760, 29882), (775, 29822), (779, 29804), (795, 29744), (798, 29735), (812, 29687), (816, 29675), (820, 29666),

Gene: Rebeuca_44 Start: 31493, Stop: 29658, Start Num: 191

Candidate Starts for Rebeuca_44:

(Start: 191 @31493 has 828 MA's), (209, 31442), (236, 31376), (271, 31289), (283, 31265), (302, 31229), (307, 31217), (326, 31160), (328, 31151), (372, 31007), (401, 30965), (420, 30914), (448, 30866), (476, 30806), (522, 30677), (523, 30674), (532, 30653), (534, 30647), (582, 30539), (611, 30416), (623, 30368), (646, 30293), (656, 30263), (666, 30224), (683, 30155), (685, 30152), (698, 30113), (704, 30089), (706, 30083), (712, 30071), (775, 29882), (781, 29858), (798, 29795), (812, 29747), (816, 29735), (820, 29726),

Gene: RedMaple_62 Start: 54786, Stop: 52927, Start Num: 149

Candidate Starts for RedMaple_62:

(Start: 133 @54810 has 1 MA's), (Start: 149 @54786 has 248 MA's), (Start: 174 @54762 has 5 MA's), (Start: 186 @54756 has 3 MA's), (205, 54714), (212, 54693), (254, 54579), (256, 54573), (269, 54543), (296, 54483), (306, 54462), (323, 54408), (327, 54396), (332, 54378), (335, 54366), (372, 54261), (389, 54204), (400, 54168), (402, 54156), (410, 54132), (414, 54120), (421, 54102), (432, 54084), (442, 54066), (465, 54027), (469, 54018), (471, 54015), (473, 54012), (607, 53655), (612, 53622), (617, 53601), (647, 53508), (651, 53499), (668, 53436), (683, 53400), (685, 53397), (691, 53382), (717, 53304), (722, 53292), (730, 53271), (748, 53232), (775, 53142), (779, 53124), (781, 53118), (785, 53103), (793, 53079), (795, 53064), (796, 53061), (799, 53049), (809, 53025), (830, 52977), (840, 52953),

Gene: RedRock_46 Start: 32469, Stop: 30682, Start Num: 191

Candidate Starts for RedRock_46:

(Start: 191 @32469 has 828 MA's), (271, 32265), (272, 32262), (283, 32241), (291, 32226), (307, 32193), (314, 32163), (326, 32136), (331, 32115), (372, 31983), (420, 31890), (446, 31842), (451, 31833), (458, 31818), (484, 31752), (515, 31671), (532, 31623), (566, 31551), (592, 31479), (611, 31398), (625, 31347), (636, 31314), (637, 31311), (656, 31245), (666, 31206), (676, 31185), (683, 31164), (760, 30966), (770, 30930), (771, 30927), (775, 30906), (791, 30849), (795, 30828), (812, 30771), (816, 30759), (820, 30750),

Gene: Reedo_40 Start: 27887, Stop: 29797, Start Num: 191

Candidate Starts for Reedo_40:

(57, 27626), (101, 27752), (Start: 191 @27887 has 828 MA's), (208, 27935), (262, 28061), (271, 28091), (314, 28184), (322, 28205), (343, 28274), (423, 28526), (428, 28535), (476, 28634), (481, 28649), (532, 28787), (583, 28925), (592, 28964), (611, 29045), (637, 29132), (646, 29168), (654, 29189), (656, 29198), (704, 29363), (708, 29372), (812, 29693), (815, 29702),

Gene: Refuge_44 Start: 32644, Stop: 30800, Start Num: 191

Candidate Starts for Refuge_44:

(Start: 191 @32644 has 828 MA's), (205, 32608), (208, 32596), (209, 32593), (235, 32533), (236, 32527), (262, 32470), (274, 32431), (307, 32365), (308, 32362), (326, 32308), (331, 32287), (368, 32167), (372, 32155), (420, 32062), (446, 32014), (451, 32005), (458, 31990), (484, 31924), (502, 31876), (526, 31807), (565, 31726), (581, 31684), (592, 31639), (600, 31612), (611, 31558), (625, 31507), (637, 31471), (656, 31405), (666, 31366), (676, 31345), (683, 31324), (754, 31144), (770, 31090), (771, 31087), (775, 31066), (791, 31009), (795, 30988), (812, 30931), (816, 30919), (839, 30862),

Gene: Relief_44 Start: 31567, Stop: 29741, Start Num: 191

Candidate Starts for Relief_44:

(Start: 191 @31567 has 828 MA's), (201, 31546), (209, 31516), (221, 31486), (291, 31324), (300, 31306), (326, 31234), (328, 31225), (366, 31105), (372, 31081), (420, 30988), (448, 30940), (458, 30919), (476, 30880), (523, 30748), (532, 30727), (556, 30682), (559, 30670), (609, 30517), (611, 30496), (646, 30373), (656, 30343), (666, 30304), (683, 30238), (685, 30235), (691, 30220), (698, 30196), (704, 30172), (775, 29965), (812, 29830), (816, 29818), (820, 29809),

Gene: Remus_47 Start: 29659, Stop: 27869, Start Num: 191

Candidate Starts for Remus_47:

(Start: 191 @29659 has 828 MA's), (262, 29485), (307, 29380), (308, 29377), (314, 29350), (326, 29323), (340, 29272), (372, 29170), (420, 29077), (444, 29032), (446, 29029), (451, 29020), (515, 28858), (523, 28831), (532, 28810), (534, 28804), (583, 28705), (592, 28666), (607, 28615), (611, 28585), (625, 28534), (636, 28501), (646, 28462), (656, 28432), (676, 28372), (683, 28351), (698, 28309), (705, 28282), (750, 28180), (770, 28117), (771, 28114), (812, 27958), (816, 27946), (821, 27934),

Gene: RemusLoopin_36 Start: 28123, Stop: 30075, Start Num: 191

Candidate Starts for RemusLoopin_36:

(Start: 191 @28123 has 828 MA's), (201, 28144), (221, 28204), (271, 28333), (300, 28390), (314, 28435), (315, 28438), (375, 28621), (409, 28672), (423, 28711), (454, 28768), (458, 28783), (470, 28810), (475, 28819), (476, 28822), (478, 28825), (482, 28840), (492, 28873), (523, 28954), (532, 28975), (536, 28987), (576, 29119), (611, 29254), (623, 29302), (637, 29341), (638, 29344), (644, 29371), (654, 29398), (656, 29407), (664, 29437), (669, 29461), (691, 29524), (752, 29680), (765, 29722), (768, 29734), (775, 29767), (778, 29782), (781, 29791), (789, 29818), (812, 29902), (816, 29914), (842, 29977),

Gene: Reprobate_57 Start: 54575, Stop: 52746, Start Num: 141

Candidate Starts for Reprobate_57:

(Start: 141 @54575 has 23 MA's), (Start: 172 @54554 has 1 MA's), (Start: 186 @54545 has 3 MA's), (201, 54518), (205, 54503), (235, 54446), (306, 54278), (331, 54200), (335, 54185), (341, 54167), (347, 54155), (363, 54119), (372, 54089), (400, 53996), (402, 53984), (403, 53981), (410, 53960), (411, 53957), (414, 53948), (421, 53930), (460, 53867), (471, 53843), (515, 53738), (559, 53615), (576, 53591), (586, 53564), (589, 53552), (590, 53549), (595, 53531), (601, 53513), (608, 53483), (612, 53456), (626, 53405), (647, 53342), (651, 53333), (674, 53249), (685, 53216), (691, 53201), (710, 53141), (717, 53123), (722, 53111), (730, 53090), (733, 53081), (735, 53078), (775, 52961), (779, 52943), (781, 52937), (793, 52898), (794, 52886), (795, 52883), (799, 52868), (805, 52856), (809, 52844), (826, 52802), (832, 52793), (840, 52772), (847, 52751),

Gene: ResDef_45 Start: 31597, Stop: 29759, Start Num: 191

Candidate Starts for ResDef_45:

(Start: 191 @31597 has 828 MA's), (209, 31546), (271, 31393), (307, 31321), (314, 31291), (326, 31264), (328, 31255), (372, 31111), (420, 31015), (448, 30967), (476, 30907), (509, 30820), (523, 30775), (532, 30754), (566, 30682), (582, 30640), (592, 30598), (611, 30517), (623, 30469), (637, 30430), (646, 30394), (656, 30364), (664, 30334), (685, 30253), (698, 30214), (704, 30190), (712,

30172), (713, 30169), (760, 30043), (775, 29983), (798, 29896), (812, 29848), (816, 29836), (820, 29827),

Gene: Retro23_45 Start: 31674, Stop: 29887, Start Num: 191

Candidate Starts for Retro23_45:

(Start: 191 @31674 has 828 MA's), (271, 31470), (272, 31467), (274, 31461), (283, 31446), (291, 31431), (307, 31398), (308, 31395), (314, 31368), (326, 31341), (331, 31320), (372, 31188), (420, 31095), (439, 31059), (446, 31047), (451, 31038), (458, 31023), (484, 30957), (515, 30876), (532, 30828), (534, 30822), (565, 30759), (611, 30603), (625, 30552), (636, 30519), (637, 30516), (656, 30450), (666, 30411), (676, 30390), (701, 30315), (704, 30303), (754, 30189), (760, 30171), (770, 30135), (775, 30111), (795, 30033), (812, 29976), (816, 29964), (820, 29955),

Gene: RexFury_36 Start: 28144, Stop: 26360, Start Num: 191

Candidate Starts for RexFury_36:

(Start: 191 @28144 has 828 MA's), (288, 27910), (302, 27880), (306, 27871), (307, 27868), (319, 27823), (326, 27811), (340, 27760), (372, 27658), (380, 27637), (420, 27565), (444, 27520), (446, 27517), (466, 27475), (468, 27469), (476, 27454), (484, 27427), (523, 27322), (526, 27313), (534, 27295), (535, 27292), (556, 27256), (582, 27199), (611, 27076), (623, 27028), (656, 26923), (657, 26920), (676, 26863), (683, 26842), (685, 26839), (700, 26794), (727, 26719), (758, 26650), (770, 26608), (775, 26584), (795, 26506), (812, 26449), (816, 26437), (820, 26428), (834, 26398), (839, 26380),

Gene: Rhinoforte_57 Start: 52610, Stop: 50781, Start Num: 147

Candidate Starts for Rhinoforte_57:

(Start: 147 @52610 has 31 MA's), (Start: 186 @52583 has 3 MA's), (202, 52553), (205, 52541), (215, 52514), (216, 52511), (221, 52502), (235, 52484), (272, 52388), (296, 52337), (307, 52313), (312, 52289), (358, 52151), (368, 52127), (372, 52115), (389, 52058), (400, 52022), (402, 52010), (410, 51986), (456, 51902), (469, 51872), (471, 51869), (483, 51839), (542, 51695), (565, 51629), (586, 51590), (589, 51578), (595, 51557), (601, 51539), (612, 51482), (633, 51425), (639, 51398), (647, 51368), (651, 51359), (668, 51293), (679, 51266), (683, 51257), (691, 51239), (698, 51215), (717, 51161), (722, 51149), (730, 51128), (760, 51059), (775, 50999), (779, 50981), (789, 50948), (793, 50936), (795, 50921), (796, 50918), (799, 50906), (809, 50882), (810, 50879), (830, 50831), (832, 50828), (840, 50807), (847, 50786),

Gene: Rhodalysa_36 Start: 28113, Stop: 26329, Start Num: 191

Candidate Starts for Rhodalysa_36:

(Start: 191 @28113 has 828 MA's), (288, 27879), (302, 27849), (306, 27840), (307, 27837), (319, 27792), (326, 27780), (340, 27729), (372, 27627), (380, 27606), (420, 27534), (444, 27489), (446, 27486), (466, 27444), (468, 27438), (476, 27423), (484, 27396), (523, 27291), (526, 27282), (534, 27264), (535, 27261), (556, 27225), (611, 27045), (623, 26997), (656, 26892), (657, 26889), (676, 26832), (683, 26811), (700, 26763), (727, 26688), (758, 26619), (770, 26577), (775, 26553), (795, 26475), (812, 26418), (816, 26406), (820, 26397), (834, 26367), (839, 26349),

Gene: RhynO_45 Start: 31292, Stop: 29457, Start Num: 191

Candidate Starts for RhynO_45:

(Start: 191 @31292 has 828 MA's), (209, 31241), (236, 31175), (271, 31088), (283, 31064), (302, 31028), (307, 31016), (326, 30959), (328, 30950), (351, 30866), (366, 30830), (368, 30818), (372, 30806), (420, 30713), (448, 30665), (476, 30605), (522, 30476), (523, 30473), (532, 30452), (534, 30446), (582, 30338), (611, 30215), (623, 30167), (646, 30092), (656, 30062), (666, 30023), (683, 29954), (685, 29951), (698, 29912), (704, 29888), (706, 29882), (712, 29870), (756, 29762), (775, 29681), (781, 29657), (798, 29594), (812, 29546), (816, 29534), (820, 29525),

Gene: Rhynn_44 Start: 34513, Stop: 32687, Start Num: 191

Candidate Starts for Rhynn_44:

(Start: 191 @34513 has 828 MA's), (274, 34300), (307, 34237), (314, 34207), (322, 34186), (326, 34180), (328, 34171), (365, 34054), (372, 34027), (420, 33934), (428, 33919), (446, 33886), (470, 33835), (472, 33832), (494, 33766), (508, 33736), (518, 33706), (534, 33661), (556, 33622), (611, 33442), (623, 33394), (637, 33355), (656, 33289), (666, 33250), (676, 33229), (683, 33208), (691, 33190), (712, 33124), (770, 32974), (771, 32971), (778, 32935), (785, 32911), (788, 32902), (792, 32890), (812, 32815), (820, 32794),

Gene: Rich_58 Start: 55836, Stop: 53983, Start Num: 141

Candidate Starts for Rich_58:

(67, 55995), (98, 55914), (Start: 141 @55836 has 23 MA's), (Start: 172 @55791 has 1 MA's), (201, 55755), (227, 55695), (273, 55584), (332, 55434), (347, 55392), (363, 55356), (372, 55326), (400, 55233), (402, 55221), (410, 55197), (414, 55185), (421, 55167), (460, 55104), (471, 55080), (515, 54975), (590, 54786), (595, 54768), (608, 54720), (612, 54693), (617, 54672), (645, 54585), (647, 54579), (651, 54570), (657, 54549), (674, 54486), (685, 54453), (691, 54438), (710, 54378), (717, 54360), (722, 54348), (730, 54327), (733, 54318), (735, 54315), (775, 54198), (781, 54174), (793, 54135), (795, 54120), (796, 54117), (809, 54081), (810, 54078), (840, 54009),

Gene: Ricotta_60 Start: 54043, Stop: 52184, Start Num: 149

Candidate Starts for Ricotta_60:

(Start: 133 @54067 has 1 MA's), (Start: 149 @54043 has 248 MA's), (Start: 174 @54019 has 5 MA's), (Start: 186 @54013 has 3 MA's), (205, 53971), (212, 53950), (254, 53836), (256, 53830), (269, 53800), (296, 53740), (306, 53719), (323, 53665), (327, 53653), (332, 53635), (335, 53623), (372, 53518), (389, 53461), (400, 53425), (402, 53413), (410, 53389), (414, 53377), (421, 53359), (432, 53341), (442, 53323), (465, 53284), (469, 53275), (471, 53272), (473, 53269), (576, 53014), (607, 52912), (612, 52879), (617, 52858), (647, 52765), (651, 52756), (668, 52693), (683, 52657), (685, 52654), (691, 52639), (717, 52561), (722, 52549), (730, 52528), (748, 52489), (775, 52399), (779, 52381), (781, 52375), (785, 52360), (793, 52336), (795, 52321), (796, 52318), (799, 52306), (809, 52282), (830, 52234), (840, 52210),

Gene: RidgeCB_44 Start: 34287, Stop: 32458, Start Num: 191

Candidate Starts for RidgeCB_44:

(Start: 191 @34287 has 828 MA's), (274, 34074), (307, 34011), (314, 33981), (322, 33960), (326, 33954), (365, 33828), (372, 33801), (420, 33708), (428, 33693), (470, 33609), (472, 33606), (494, 33540), (508, 33510), (518, 33480), (534, 33435), (556, 33396), (611, 33216), (623, 33168), (639, 33120), (651, 33081), (656, 33063), (666, 33024), (676, 33003), (683, 32982), (690, 32967), (733, 32844), (789, 32673), (794, 32649), (808, 32601), (812, 32589), (820, 32568), (823, 32562), (842, 32514), (849, 32499),

Gene: Rifter_47 Start: 29753, Stop: 27954, Start Num: 191

Candidate Starts for Rifter_47:

(Start: 191 @29753 has 828 MA's), (271, 29549), (274, 29540), (307, 29474), (308, 29471), (314, 29444), (319, 29429), (326, 29417), (340, 29366), (368, 29276), (372, 29264), (420, 29171), (446, 29123), (451, 29114), (521, 28931), (586, 28781), (611, 28676), (625, 28619), (637, 28583), (639, 28574), (646, 28547), (656, 28517), (666, 28478), (676, 28457), (689, 28424), (691, 28418), (726, 28319), (754, 28256), (770, 28202), (775, 28178), (791, 28121), (812, 28043), (816, 28031), (820, 28022), (821, 28019),

Gene: Riggan_61 Start: 54343, Stop: 52484, Start Num: 149

Candidate Starts for Riggan_61:

(Start: 133 @54367 has 1 MA's), (Start: 149 @54343 has 248 MA's), (Start: 174 @54319 has 5 MA's), (Start: 186 @54313 has 3 MA's), (205, 54271), (212, 54250), (254, 54136), (256, 54130), (269, 54100), (296, 54040), (306, 54019), (323, 53965), (327, 53953), (332, 53935), (335, 53923), (372,

53818), (389, 53761), (400, 53725), (402, 53713), (411, 53686), (421, 53659), (432, 53641), (442, 53623), (465, 53584), (469, 53575), (471, 53572), (576, 53314), (607, 53212), (612, 53179), (617, 53158), (647, 53065), (651, 53056), (668, 52993), (683, 52957), (685, 52954), (691, 52939), (717, 52861), (722, 52849), (730, 52828), (748, 52789), (775, 52699), (779, 52681), (781, 52675), (785, 52660), (793, 52636), (795, 52621), (796, 52618), (799, 52606), (809, 52582), (830, 52534), (840, 52510),

Gene: Rimu_63 Start: 54511, Stop: 52652, Start Num: 149

Candidate Starts for Rimu_63:

(Start: 133 @54535 has 1 MA's), (Start: 149 @54511 has 248 MA's), (Start: 174 @54487 has 5 MA's), (Start: 186 @54481 has 3 MA's), (205, 54439), (212, 54418), (254, 54304), (256, 54298), (269, 54268), (296, 54208), (306, 54187), (323, 54133), (327, 54121), (332, 54103), (335, 54091), (372, 53986), (389, 53929), (400, 53893), (402, 53881), (410, 53857), (414, 53845), (421, 53827), (432, 53809), (442, 53791), (465, 53752), (469, 53743), (471, 53740), (473, 53737), (576, 53482), (607, 53380), (612, 53347), (617, 53326), (647, 53233), (651, 53224), (668, 53161), (683, 53125), (685, 53122), (691, 53107), (717, 53029), (722, 53017), (730, 52996), (748, 52957), (775, 52867), (779, 52849), (781, 52843), (785, 52828), (793, 52804), (795, 52789), (796, 52786), (799, 52774), (809, 52750), (816, 52729), (830, 52702), (840, 52678),

Gene: Ringer_46 Start: 35532, Stop: 33745, Start Num: 191

Candidate Starts for Ringer_46:

(Start: 191 @35532 has 828 MA's), (274, 35319), (283, 35304), (314, 35226), (322, 35205), (326, 35199), (328, 35190), (365, 35073), (372, 35046), (420, 34953), (428, 34938), (446, 34905), (470, 34854), (472, 34851), (494, 34785), (508, 34755), (518, 34725), (534, 34680), (556, 34641), (611, 34461), (623, 34413), (637, 34374), (656, 34308), (679, 34236), (683, 34227), (712, 34143), (750, 34056), (785, 33930), (789, 33918), (812, 33834), (814, 33828),

Gene: Rings_55 Start: 36927, Stop: 34759, Start Num: 86

Candidate Starts for Rings_55:

(85, 36930), (Start: 86 @36927 has 11 MA's), (106, 36873), (160, 36789), (226, 36663), (235, 36636), (237, 36627), (253, 36582), (278, 36504), (287, 36495), (294, 36480), (301, 36465), (303, 36462), (323, 36405), (346, 36312), (362, 36270), (430, 36063), (434, 36057), (449, 36033), (459, 36012), (468, 35991), (476, 35976), (479, 35970), (500, 35907), (517, 35856), (550, 35769), (571, 35709), (591, 35661), (615, 35559), (616, 35553), (620, 35526), (621, 35523), (629, 35502), (641, 35460), (643, 35454), (650, 35430), (659, 35388), (660, 35385), (665, 35358), (674, 35325), (677, 35313), (692, 35277), (698, 35253), (700, 35247), (701, 35241), (723, 35187), (744, 35139), (746, 35136), (764, 35076), (770, 35052), (777, 35022), (790, 34968), (809, 34899), (813, 34887), (828, 34848),

Gene: Rita1961_59 Start: 54042, Stop: 52225, Start Num: 183

Candidate Starts for Rita1961_59:

(80, 54225), (Start: 183 @54042 has 42 MA's), (201, 54012), (274, 53832), (331, 53679), (334, 53667), (343, 53637), (349, 53631), (372, 53568), (375, 53562), (389, 53511), (400, 53475), (414, 53427), (471, 53322), (510, 53226), (533, 53175), (589, 53031), (601, 52992), (608, 52962), (612, 52935), (616, 52923), (645, 52827), (647, 52821), (651, 52812), (655, 52800), (674, 52728), (683, 52698), (691, 52680), (694, 52671), (717, 52602), (722, 52590), (730, 52569), (760, 52500), (765, 52485), (771, 52461), (781, 52416), (793, 52377), (796, 52359), (799, 52347), (805, 52335), (809, 52323), (826, 52281), (840, 52251),

Gene: Roary_43 Start: 30556, Stop: 28712, Start Num: 191

Candidate Starts for Roary_43:

(95, 30721), (Start: 191 @30556 has 828 MA's), (209, 30505), (262, 30382), (271, 30352), (291, 30313), (307, 30280), (314, 30250), (322, 30229), (326, 30223), (328, 30214), (355, 30121), (372, 30070), (420, 29974), (426, 29962), (435, 29947), (444, 29929), (446, 29926), (451, 29917), (476,

29863), (484, 29836), (502, 29788), (534, 29704), (559, 29653), (566, 29638), (609, 29491), (611, 29470), (618, 29440), (623, 29422), (625, 29419), (632, 29404), (637, 29383), (639, 29374), (646, 29347), (651, 29335), (656, 29317), (683, 29236), (689, 29224), (704, 29170), (719, 29134), (750, 29065), (758, 29044), (760, 29038), (771, 28999), (775, 28978), (779, 28960), (812, 28843), (816, 28831),

Gene: Robyn_60 Start: 54190, Stop: 52331, Start Num: 149

Candidate Starts for Robyn_60:

(20, 54586), (34, 54499), (38, 54484), (39, 54478), (45, 54463), (49, 54445), (Start: 133 @54214 has 1 MA's), (Start: 149 @54190 has 248 MA's), (Start: 174 @54166 has 5 MA's), (Start: 186 @54160 has 3 MA's), (205, 54118), (212, 54097), (254, 53983), (256, 53977), (269, 53947), (296, 53887), (306, 53866), (323, 53812), (327, 53800), (335, 53770), (372, 53665), (389, 53608), (400, 53572), (402, 53560), (411, 53533), (414, 53524), (432, 53488), (442, 53470), (465, 53431), (469, 53422), (471, 53419), (607, 53059), (612, 53026), (617, 53005), (647, 52912), (651, 52903), (668, 52840), (683, 52804), (685, 52801), (691, 52786), (717, 52708), (722, 52696), (730, 52675), (748, 52636), (775, 52546), (779, 52528), (781, 52522), (785, 52507), (793, 52483), (795, 52468), (796, 52465), (799, 52453), (809, 52429), (830, 52381), (840, 52357),

Gene: Rockstar_45 Start: 30972, Stop: 29134, Start Num: 191

Candidate Starts for Rockstar_45:

(Start: 141 @31044 has 23 MA's), (Start: 191 @30972 has 828 MA's), (209, 30921), (271, 30768), (291, 30729), (307, 30696), (326, 30639), (328, 30630), (331, 30618), (366, 30510), (372, 30486), (420, 30390), (448, 30342), (476, 30282), (523, 30150), (532, 30129), (565, 30060), (582, 30015), (592, 29973), (611, 29892), (637, 29805), (646, 29769), (656, 29739), (685, 29628), (698, 29589), (704, 29565), (712, 29547), (758, 29424), (760, 29418), (775, 29358), (812, 29223), (816, 29211), (820, 29202),

Gene: Rohr_45 Start: 34984, Stop: 33155, Start Num: 191

Candidate Starts for Rohr_45:

(Start: 191 @34984 has 828 MA's), (274, 34771), (283, 34756), (307, 34708), (314, 34678), (322, 34657), (326, 34651), (328, 34642), (365, 34525), (372, 34498), (420, 34405), (428, 34390), (470, 34306), (472, 34303), (494, 34237), (508, 34207), (518, 34177), (534, 34132), (556, 34093), (611, 33913), (623, 33865), (639, 33817), (651, 33778), (656, 33760), (666, 33721), (676, 33700), (683, 33679), (733, 33541), (789, 33370), (794, 33346), (803, 33313), (808, 33298), (812, 33286), (820, 33265), (823, 33259), (842, 33211), (849, 33196),

Gene: Roksolana_46 Start: 29675, Stop: 27834, Start Num: 191

Candidate Starts for Roksolana_46:

(Start: 170 @29705 has 3 MA's), (Start: 191 @29675 has 828 MA's), (271, 29471), (307, 29396), (308, 29393), (314, 29366), (319, 29351), (326, 29339), (340, 29288), (368, 29198), (372, 29186), (420, 29093), (441, 29054), (451, 29036), (458, 29021), (484, 28955), (496, 28922), (498, 28919), (535, 28817), (565, 28757), (592, 28673), (611, 28592), (636, 28508), (637, 28505), (639, 28496), (646, 28469), (656, 28439), (676, 28379), (691, 28340), (770, 28124), (771, 28121), (775, 28100), (812, 27965), (816, 27953), (820, 27944), (821, 27941), (859, 27848),

Gene: Roliet_58 Start: 53385, Stop: 51526, Start Num: 149

Candidate Starts for Roliet_58:

(Start: 133 @53409 has 1 MA's), (Start: 149 @53385 has 248 MA's), (Start: 174 @53361 has 5 MA's), (Start: 186 @53355 has 3 MA's), (205, 53313), (212, 53292), (254, 53178), (256, 53172), (269, 53142), (296, 53082), (306, 53061), (323, 53007), (327, 52995), (332, 52977), (335, 52965), (372, 52860), (389, 52803), (400, 52767), (402, 52755), (411, 52728), (414, 52719), (432, 52683), (465, 52626), (469, 52617), (471, 52614), (473, 52611), (576, 52356), (607, 52254), (612, 52221), (617, 52200), (647, 52107), (651, 52098), (668, 52035), (683, 51999), (685, 51996), (691, 51981), (717,

51903), (722, 51891), (730, 51870), (748, 51831), (775, 51741), (779, 51723), (781, 51717), (785, 51702), (793, 51678), (795, 51663), (796, 51660), (799, 51648), (809, 51624), (830, 51576), (840, 51552),

Gene: Rollins_40 Start: 27521, Stop: 29389, Start Num: 179

Candidate Starts for Rollins_40:

(Start: 179 @27521 has 7 MA's), (Start: 182 @27524 has 49 MA's), (Start: 185 @27527 has 2 MA's), (216, 27596), (332, 27878), (340, 27905), (361, 27959), (441, 28124), (476, 28199), (483, 28220), (598, 28574), (611, 28634), (625, 28685), (644, 28751), (656, 28787), (680, 28880), (747, 29051), (770, 29123), (791, 29204), (811, 29279), (812, 29282), (820, 29303), (851, 29372),

Gene: RomaT_58 Start: 54241, Stop: 52424, Start Num: 183

Candidate Starts for RomaT_58:

(80, 54424), (Start: 183 @54241 has 42 MA's), (201, 54211), (274, 54031), (331, 53878), (334, 53866), (343, 53836), (349, 53830), (372, 53767), (375, 53761), (389, 53710), (398, 53683), (400, 53674), (414, 53626), (471, 53521), (510, 53425), (533, 53374), (589, 53230), (601, 53191), (608, 53161), (612, 53134), (616, 53122), (645, 53026), (647, 53020), (651, 53011), (655, 52999), (674, 52927), (683, 52897), (691, 52879), (694, 52870), (717, 52801), (722, 52789), (730, 52768), (760, 52699), (765, 52684), (771, 52660), (775, 52639), (779, 52621), (781, 52615), (791, 52582), (793, 52576), (796, 52558), (799, 52546), (805, 52534), (809, 52522), (826, 52480), (840, 52450),

Gene: Romney_45 Start: 31567, Stop: 29741, Start Num: 191

Candidate Starts for Romney_45:

(Start: 191 @31567 has 828 MA's), (201, 31546), (209, 31516), (221, 31486), (291, 31324), (300, 31306), (326, 31234), (328, 31225), (366, 31105), (372, 31081), (420, 30988), (448, 30940), (458, 30919), (476, 30880), (523, 30748), (532, 30727), (556, 30682), (559, 30670), (609, 30517), (611, 30496), (646, 30373), (656, 30343), (666, 30304), (683, 30238), (685, 30235), (691, 30220), (698, 30196), (704, 30172), (775, 29965), (812, 29830), (816, 29818), (820, 29809),

Gene: Rona_40 Start: 29912, Stop: 31783, Start Num: 182

Candidate Starts for Rona_40:

(Start: 182 @29912 has 49 MA's), (264, 30095), (283, 30134), (293, 30152), (318, 30224), (328, 30248), (331, 30260), (332, 30263), (361, 30344), (455, 30536), (476, 30584), (509, 30674), (564, 30815), (598, 30938), (611, 30998), (632, 31064), (635, 31079), (644, 31115), (647, 31124), (656, 31151), (680, 31244), (713, 31337), (747, 31415), (770, 31487), (778, 31526), (791, 31568), (804, 31622), (812, 31646), (820, 31667), (831, 31691),

Gene: Roosevelt_44 Start: 31572, Stop: 29746, Start Num: 191

Candidate Starts for Roosevelt_44:

(Start: 191 @31572 has 828 MA's), (201, 31551), (209, 31521), (221, 31491), (291, 31329), (300, 31311), (326, 31239), (328, 31230), (366, 31110), (372, 31086), (420, 30993), (448, 30945), (458, 30924), (476, 30885), (523, 30753), (532, 30732), (556, 30687), (559, 30675), (609, 30522), (611, 30501), (646, 30378), (656, 30348), (666, 30309), (683, 30243), (685, 30240), (691, 30225), (698, 30201), (704, 30177), (775, 29970), (812, 29835), (816, 29823), (820, 29814),

Gene: Rosalind_46 Start: 29862, Stop: 28072, Start Num: 191

Candidate Starts for Rosalind_46:

(Start: 191 @29862 has 828 MA's), (262, 29688), (307, 29583), (308, 29580), (314, 29553), (326, 29526), (340, 29475), (372, 29373), (420, 29280), (444, 29235), (446, 29232), (451, 29223), (515, 29061), (523, 29034), (532, 29013), (534, 29007), (583, 28908), (592, 28869), (607, 28818), (611, 28788), (625, 28737), (636, 28704), (644, 28671), (646, 28665), (656, 28635), (676, 28575), (683, 28554), (698, 28512), (705, 28485), (712, 28470), (750, 28383), (770, 28320), (771, 28317), (812, 28161), (816, 28149), (821, 28137),

Gene: Roscoe_61 Start: 54489, Stop: 52630, Start Num: 149

Candidate Starts for Roscoe_61:

(Start: 133 @54513 has 1 MA's), (Start: 149 @54489 has 248 MA's), (Start: 174 @54465 has 5 MA's), (Start: 186 @54459 has 3 MA's), (205, 54417), (212, 54396), (254, 54282), (256, 54276), (269, 54246), (296, 54186), (306, 54165), (323, 54111), (327, 54099), (332, 54081), (335, 54069), (372, 53964), (389, 53907), (400, 53871), (402, 53859), (411, 53832), (414, 53823), (432, 53787), (465, 53730), (469, 53721), (471, 53718), (473, 53715), (607, 53358), (612, 53325), (617, 53304), (647, 53211), (651, 53202), (668, 53139), (683, 53103), (685, 53100), (691, 53085), (717, 53007), (722, 52995), (730, 52974), (748, 52935), (775, 52845), (779, 52827), (781, 52821), (785, 52806), (793, 52782), (795, 52767), (796, 52764), (799, 52752), (809, 52728), (830, 52680), (840, 52656),

Gene: Rosebush_56 Start: 52637, Stop: 50808, Start Num: 147

Candidate Starts for Rosebush_56:

(Start: 147 @52637 has 31 MA's), (Start: 186 @52610 has 3 MA's), (202, 52580), (205, 52568), (215, 52541), (216, 52538), (221, 52529), (235, 52511), (272, 52415), (296, 52364), (307, 52340), (358, 52178), (368, 52154), (372, 52142), (389, 52085), (400, 52049), (402, 52037), (410, 52013), (453, 51935), (456, 51929), (460, 51920), (469, 51899), (471, 51896), (483, 51866), (542, 51722), (565, 51656), (589, 51605), (595, 51584), (601, 51566), (612, 51509), (633, 51452), (639, 51425), (647, 51395), (651, 51386), (668, 51320), (679, 51293), (683, 51284), (691, 51266), (698, 51242), (717, 51188), (722, 51176), (730, 51155), (760, 51086), (775, 51026), (779, 51008), (789, 50975), (793, 50963), (795, 50948), (796, 50945), (799, 50933), (809, 50909), (810, 50906), (830, 50858), (832, 50855), (840, 50834), (847, 50813),

Gene: Rowa_41 Start: 29682, Stop: 31553, Start Num: 191

Candidate Starts for Rowa_41:

(168, 29652), (175, 29661), (Start: 191 @29682 has 828 MA's), (314, 29994), (328, 30045), (357, 30141), (361, 30153), (415, 30264), (450, 30333), (451, 30336), (476, 30396), (481, 30411), (482, 30414), (515, 30501), (518, 30510), (532, 30549), (559, 30612), (560, 30615), (597, 30753), (598, 30756), (604, 30774), (607, 30786), (609, 30795), (611, 30816), (614, 30822), (623, 30864), (636, 30900), (637, 30903), (646, 30939), (647, 30942), (654, 30960), (656, 30969), (664, 30999), (669, 31023), (708, 31143), (713, 31155), (720, 31173), (726, 31185), (728, 31194), (747, 31233), (748, 31236), (752, 31242), (754, 31248), (768, 31296), (785, 31368), (794, 31404), (812, 31464), (848, 31548),

Gene: Roy17_59 Start: 53743, Stop: 51884, Start Num: 149

Candidate Starts for Roy17_59:

(Start: 133 @53767 has 1 MA's), (Start: 149 @53743 has 248 MA's), (Start: 174 @53719 has 5 MA's), (Start: 186 @53713 has 3 MA's), (205, 53671), (212, 53650), (254, 53536), (256, 53530), (269, 53500), (296, 53440), (306, 53419), (323, 53365), (327, 53353), (332, 53335), (335, 53323), (372, 53218), (389, 53161), (400, 53125), (402, 53113), (411, 53086), (421, 53059), (432, 53041), (442, 53023), (465, 52984), (469, 52975), (471, 52972), (473, 52969), (607, 52612), (612, 52579), (617, 52558), (647, 52465), (651, 52456), (668, 52393), (683, 52357), (685, 52354), (691, 52339), (717, 52261), (722, 52249), (730, 52228), (748, 52189), (775, 52099), (779, 52081), (781, 52075), (785, 52060), (793, 52036), (795, 52021), (796, 52018), (799, 52006), (809, 51982), (830, 51934), (840, 51910),

Gene: Rubeus_45 Start: 33074, Stop: 31248, Start Num: 191

Candidate Starts for Rubeus_45:

(Start: 191 @33074 has 828 MA's), (274, 32861), (307, 32798), (314, 32768), (322, 32747), (326, 32741), (328, 32732), (365, 32615), (372, 32588), (420, 32495), (428, 32480), (470, 32396), (472, 32393), (494, 32327), (508, 32297), (518, 32267), (534, 32222), (556, 32183), (611, 32003), (623, 31955), (637, 31916), (656, 31850), (666, 31811), (676, 31790), (683, 31769), (691, 31751), (712,

31685), (770, 31535), (771, 31532), (778, 31496), (785, 31472), (788, 31463), (792, 31451), (812, 31376), (820, 31355),

Gene: Rufus_45 Start: 34607, Stop: 32778, Start Num: 191

Candidate Starts for Rufus_45:

(Start: 191 @34607 has 828 MA's), (274, 34394), (307, 34331), (314, 34301), (322, 34280), (326, 34274), (328, 34265), (365, 34148), (372, 34121), (420, 34028), (428, 34013), (470, 33929), (472, 33926), (494, 33860), (508, 33830), (518, 33800), (534, 33755), (556, 33716), (611, 33536), (623, 33488), (639, 33440), (651, 33401), (656, 33383), (666, 33344), (676, 33323), (683, 33302), (733, 33164), (789, 32993), (794, 32969), (803, 32936), (808, 32921), (812, 32909), (820, 32888), (823, 32882), (842, 32834), (849, 32819),

Gene: Ruin_45 Start: 31563, Stop: 29737, Start Num: 191

Candidate Starts for Ruin_45:

(Start: 191 @31563 has 828 MA's), (201, 31542), (209, 31512), (221, 31482), (291, 31320), (300, 31302), (326, 31230), (328, 31221), (366, 31101), (372, 31077), (420, 30984), (448, 30936), (458, 30915), (476, 30876), (523, 30744), (532, 30723), (556, 30678), (559, 30666), (609, 30513), (611, 30492), (646, 30369), (656, 30339), (666, 30300), (683, 30234), (685, 30231), (691, 30216), (698, 30192), (704, 30168), (775, 29961), (812, 29826), (816, 29814), (820, 29805),

Gene: Rummer_47 Start: 31884, Stop: 30070, Start Num: 191

Candidate Starts for Rummer_47:

(Start: 191 @31884 has 828 MA's), (206, 31845), (209, 31833), (271, 31680), (276, 31665), (307, 31608), (326, 31551), (328, 31542), (340, 31500), (355, 31449), (372, 31398), (405, 31344), (420, 31305), (446, 31257), (458, 31233), (476, 31194), (484, 31167), (494, 31137), (528, 31044), (534, 31032), (558, 30984), (565, 30969), (611, 30813), (625, 30762), (636, 30729), (637, 30726), (656, 30660), (666, 30621), (685, 30549), (698, 30510), (704, 30486), (712, 30468), (726, 30435), (760, 30354), (775, 30294), (798, 30207), (812, 30159), (816, 30147), (820, 30138), (821, 30135),

Gene: Ruotula_48 Start: 36337, Stop: 34550, Start Num: 191

Candidate Starts for Ruotula_48:

(Start: 191 @36337 has 828 MA's), (274, 36124), (283, 36109), (307, 36061), (314, 36031), (322, 36010), (326, 36004), (328, 35995), (365, 35878), (372, 35851), (420, 35758), (428, 35743), (446, 35710), (470, 35659), (472, 35656), (494, 35590), (508, 35560), (518, 35530), (534, 35485), (556, 35446), (611, 35266), (623, 35218), (637, 35179), (656, 35113), (679, 35041), (683, 35032), (712, 34948), (750, 34861), (785, 34735), (789, 34723), (804, 34663), (812, 34639), (814, 34633),

Gene: Rutherferd_47 Start: 35726, Stop: 33900, Start Num: 191

Candidate Starts for Rutherferd_47:

(Start: 191 @35726 has 828 MA's), (288, 35492), (307, 35450), (314, 35420), (322, 35399), (326, 35393), (328, 35384), (365, 35267), (372, 35240), (420, 35147), (428, 35132), (446, 35099), (470, 35048), (472, 35045), (494, 34979), (508, 34949), (518, 34919), (534, 34874), (556, 34835), (611, 34655), (623, 34607), (637, 34568), (656, 34502), (666, 34463), (676, 34442), (683, 34421), (691, 34403), (712, 34337), (770, 34187), (771, 34184), (778, 34148), (785, 34124), (792, 34103), (812, 34028), (820, 34007),

Gene: SDcharge11_60 Start: 53557, Stop: 51698, Start Num: 149

Candidate Starts for SDcharge11_60:

(Start: 133 @53581 has 1 MA's), (Start: 149 @53557 has 248 MA's), (Start: 174 @53533 has 5 MA's), (Start: 186 @53527 has 3 MA's), (201, 53500), (205, 53485), (212, 53464), (254, 53350), (256, 53344), (269, 53314), (296, 53254), (306, 53233), (323, 53179), (327, 53167), (332, 53149), (335, 53137), (372, 53032), (389, 52975), (400, 52939), (402, 52927), (411, 52900), (414, 52891), (432, 52855), (465, 52798), (469, 52789), (471, 52786), (473, 52783), (607, 52426), (612, 52393), (617,

52372), (647, 52279), (651, 52270), (668, 52207), (683, 52171), (685, 52168), (691, 52153), (717, 52075), (722, 52063), (730, 52042), (748, 52003), (775, 51913), (779, 51895), (781, 51889), (785, 51874), (793, 51850), (795, 51835), (796, 51832), (799, 51820), (809, 51796), (830, 51748), (840, 51724),

Gene: SJReid_106 Start: 70795, Stop: 72594, Start Num: 195

Candidate Starts for SJReid_106:

(167, 70753), (195, 70795), (216, 70858), (230, 70888), (235, 70891), (293, 71026), (327, 71107), (334, 71134), (336, 71140), (376, 71245), (416, 71302), (464, 71392), (476, 71419), (481, 71434), (576, 71680), (588, 71719), (597, 71752), (609, 71791), (611, 71812), (614, 71818), (636, 71902), (642, 71929), (644, 71935), (665, 72019), (669, 72037), (680, 72085), (686, 72097), (698, 72133), (708, 72166), (730, 72220), (776, 72370), (779, 72385), (789, 72418), (791, 72424), (794, 72442), (800, 72466), (811, 72499), (812, 72502),

Gene: STLscum_46 Start: 35717, Stop: 33930, Start Num: 191

Candidate Starts for STLscum_46:

(Start: 191 @35717 has 828 MA's), (274, 35504), (307, 35441), (314, 35411), (322, 35390), (326, 35384), (328, 35375), (365, 35258), (372, 35231), (420, 35138), (428, 35123), (470, 35039), (472, 35036), (494, 34970), (508, 34940), (518, 34910), (534, 34865), (556, 34826), (611, 34646), (623, 34598), (637, 34559), (656, 34493), (679, 34421), (683, 34412), (712, 34328), (750, 34241), (785, 34115), (789, 34103), (804, 34043), (812, 34019), (814, 34013),

Gene: Sabella_56 Start: 52482, Stop: 50653, Start Num: 147

Candidate Starts for Sabella_56:

(Start: 147 @52482 has 31 MA's), (Start: 186 @52455 has 3 MA's), (202, 52425), (205, 52413), (215, 52386), (216, 52383), (221, 52374), (235, 52356), (272, 52260), (296, 52209), (307, 52185), (358, 52023), (366, 52008), (368, 51999), (372, 51987), (389, 51930), (400, 51894), (402, 51882), (410, 51858), (456, 51774), (469, 51744), (471, 51741), (483, 51711), (542, 51567), (565, 51501), (589, 51450), (595, 51429), (601, 51411), (612, 51354), (639, 51270), (647, 51240), (651, 51231), (668, 51165), (679, 51138), (683, 51129), (691, 51111), (698, 51087), (717, 51033), (722, 51021), (730, 51000), (760, 50931), (775, 50871), (779, 50853), (789, 50820), (793, 50808), (795, 50793), (796, 50790), (799, 50778), (809, 50754), (810, 50751), (830, 50703), (832, 50700), (840, 50679), (847, 50658),

Gene: Sabertooth_45 Start: 31572, Stop: 29746, Start Num: 191

Candidate Starts for Sabertooth_45:

(Start: 191 @31572 has 828 MA's), (201, 31551), (209, 31521), (221, 31491), (291, 31329), (300, 31311), (326, 31239), (328, 31230), (366, 31110), (372, 31086), (420, 30993), (448, 30945), (458, 30924), (476, 30885), (523, 30753), (532, 30732), (556, 30687), (559, 30675), (609, 30522), (611, 30501), (646, 30378), (656, 30348), (666, 30309), (683, 30243), (685, 30240), (691, 30225), (698, 30201), (704, 30177), (775, 29970), (812, 29835), (816, 29823), (820, 29814),

Gene: Sabia_48 Start: 31846, Stop: 30032, Start Num: 191

Candidate Starts for Sabia_48:

(Start: 191 @31846 has 828 MA's), (206, 31807), (209, 31795), (271, 31642), (276, 31627), (307, 31570), (326, 31513), (328, 31504), (340, 31462), (355, 31411), (372, 31360), (420, 31267), (446, 31219), (451, 31210), (458, 31195), (476, 31156), (484, 31129), (494, 31099), (528, 31006), (558, 30946), (565, 30931), (611, 30775), (637, 30688), (656, 30622), (666, 30583), (685, 30511), (698, 30472), (704, 30448), (712, 30430), (726, 30397), (737, 30370), (760, 30316), (775, 30256), (795, 30178), (812, 30121), (816, 30109), (820, 30100),

Gene: Sabinator_47 Start: 31851, Stop: 30037, Start Num: 191

Candidate Starts for Sabinator_47:

(Start: 191 @31851 has 828 MA's), (206, 31812), (209, 31800), (271, 31647), (276, 31632), (307, 31575), (326, 31518), (328, 31509), (340, 31467), (355, 31416), (372, 31365), (420, 31272), (446, 31224), (451, 31215), (458, 31200), (476, 31161), (484, 31134), (494, 31104), (528, 31011), (565, 30936), (611, 30780), (637, 30693), (656, 30627), (666, 30588), (685, 30516), (698, 30477), (704, 30453), (712, 30435), (726, 30402), (737, 30375), (760, 30321), (775, 30261), (795, 30183), (812, 30126), (816, 30114), (820, 30105),

Gene: Sagefire_48 Start: 36086, Stop: 34299, Start Num: 191

Candidate Starts for Sagefire_48:

(Start: 191 @36086 has 828 MA's), (274, 35873), (314, 35780), (322, 35759), (326, 35753), (328, 35744), (365, 35627), (372, 35600), (420, 35507), (428, 35492), (446, 35459), (470, 35408), (472, 35405), (494, 35339), (508, 35309), (518, 35279), (534, 35234), (556, 35195), (611, 35015), (623, 34967), (637, 34928), (656, 34862), (679, 34790), (683, 34781), (712, 34697), (750, 34610), (785, 34484), (789, 34472), (812, 34388), (814, 34382),

Gene: Saguaro_58 Start: 54786, Stop: 52945, Start Num: 151

Candidate Starts for Saguaro_58:

(Start: 151 @54786 has 3 MA's), (201, 54732), (212, 54696), (263, 54576), (285, 54522), (334, 54387), (335, 54384), (341, 54366), (372, 54279), (389, 54222), (400, 54186), (402, 54174), (410, 54150), (469, 54030), (471, 54027), (480, 54009), (483, 53997), (533, 53880), (579, 53769), (589, 53736), (590, 53733), (595, 53715), (608, 53667), (612, 53640), (626, 53589), (645, 53532), (647, 53526), (651, 53517), (664, 53469), (668, 53454), (683, 53418), (685, 53415), (691, 53400), (717, 53322), (722, 53310), (730, 53289), (738, 53271), (747, 53253), (760, 53220), (775, 53160), (779, 53142), (781, 53136), (793, 53097), (794, 53085), (795, 53082), (796, 53079), (799, 53067), (805, 53055), (809, 53043), (826, 53001), (830, 52995), (840, 52971), (847, 52950),

Gene: Saintus_38 Start: 27584, Stop: 25740, Start Num: 191

Candidate Starts for Saintus_38:

(Start: 191 @27584 has 828 MA's), (209, 27533), (262, 27410), (271, 27380), (291, 27341), (307, 27308), (314, 27278), (322, 27257), (326, 27251), (328, 27242), (340, 27200), (355, 27149), (371, 27101), (372, 27098), (420, 27002), (426, 26990), (435, 26975), (444, 26957), (451, 26945), (476, 26891), (484, 26864), (502, 26816), (523, 26759), (527, 26747), (534, 26732), (559, 26681), (566, 26666), (609, 26519), (611, 26498), (618, 26468), (623, 26450), (625, 26447), (632, 26432), (637, 26411), (639, 26402), (646, 26375), (651, 26363), (656, 26345), (683, 26264), (689, 26252), (704, 26198), (719, 26162), (733, 26126), (750, 26093), (758, 26072), (760, 26066), (771, 26027), (775, 26006), (779, 25988), (812, 25871), (816, 25859),

Gene: Salete_48 Start: 39366, Stop: 37366, Start Num: 93

Candidate Starts for Salete_48:

(Start: 93 @39366 has 10 MA's), (Start: 132 @39297 has 1 MA's), (209, 39165), (211, 39159), (214, 39153), (238, 39105), (240, 39093), (242, 39087), (252, 39066), (257, 39051), (282, 38982), (333, 38841), (365, 38745), (391, 38658), (399, 38634), (403, 38622), (407, 38610), (437, 38541), (504, 38394), (548, 38289), (553, 38274), (580, 38217), (586, 38196), (599, 38154), (607, 38124), (612, 38091), (627, 38037), (640, 38007), (658, 37938), (663, 37917), (684, 37854), (692, 37836), (695, 37824), (701, 37800), (775, 37599), (776, 37596), (781, 37575), (792, 37542), (795, 37524), (805, 37491), (813, 37467), (835, 37419),

Gene: Salz_44 Start: 30686, Stop: 28899, Start Num: 191

Candidate Starts for Salz_44:

(Start: 191 @30686 has 828 MA's), (271, 30482), (307, 30410), (314, 30380), (326, 30353), (423, 30101), (451, 30050), (484, 29969), (501, 29924), (532, 29840), (559, 29783), (581, 29741), (592, 29696), (611, 29615), (625, 29564), (637, 29528), (656, 29462), (676, 29402), (679, 29390), (716, 29288), (726, 29264), (732, 29246), (760, 29183), (768, 29156), (770, 29147), (775, 29123), (812,

28988), (816, 28976), (820, 28967),

Gene: Samaymay_60 Start: 54350, Stop: 52491, Start Num: 149

Candidate Starts for Samaymay_60:

(Start: 133 @54374 has 1 MA's), (Start: 149 @54350 has 248 MA's), (Start: 174 @54326 has 5 MA's), (Start: 186 @54320 has 3 MA's), (205, 54278), (212, 54257), (254, 54143), (256, 54137), (269, 54107), (296, 54047), (306, 54026), (323, 53972), (327, 53960), (332, 53942), (335, 53930), (372, 53825), (389, 53768), (400, 53732), (402, 53720), (411, 53693), (432, 53648), (465, 53591), (469, 53582), (471, 53579), (607, 53219), (612, 53186), (617, 53165), (647, 53072), (651, 53063), (668, 53000), (683, 52964), (685, 52961), (691, 52946), (717, 52868), (722, 52856), (730, 52835), (748, 52796), (775, 52706), (779, 52688), (781, 52682), (785, 52667), (793, 52643), (795, 52628), (796, 52625), (799, 52613), (809, 52589), (830, 52541), (840, 52517),

Gene: Samora_36 Start: 27510, Stop: 29363, Start Num: 191

Candidate Starts for Samora_36:

(Start: 191 @27510 has 828 MA's), (204, 27543), (221, 27591), (236, 27624), (288, 27741), (314, 27813), (315, 27816), (322, 27834), (328, 27849), (381, 28011), (454, 28146), (457, 28158), (470, 28188), (476, 28200), (482, 28218), (493, 28254), (527, 28344), (532, 28353), (559, 28410), (560, 28413), (563, 28422), (607, 28581), (611, 28611), (618, 28644), (623, 28662), (637, 28704), (644, 28734), (646, 28740), (647, 28743), (651, 28752), (656, 28770), (665, 28815), (679, 28869), (748, 29046), (752, 29052), (754, 29058), (768, 29106), (778, 29154), (781, 29163), (789, 29190), (791, 29196), (795, 29217), (812, 29274), (814, 29280), (820, 29295),

Gene: Samy_65 Start: 41466, Stop: 43436, Start Num: 191

Candidate Starts for Samy_65:

(Start: 191 @41466 has 828 MA's), (199, 41484), (236, 41583), (262, 41643), (264, 41649), (307, 41745), (322, 41799), (334, 41838), (375, 41964), (426, 42060), (476, 42165), (515, 42270), (532, 42318), (538, 42336), (609, 42576), (611, 42597), (614, 42603), (654, 42741), (656, 42750), (690, 42864), (704, 42915), (726, 42966), (747, 43014), (748, 43017), (754, 43029), (767, 43074), (776, 43113), (781, 43134), (812, 43245), (820, 43266), (842, 43320), (868, 43407),

Gene: SanaSana_45 Start: 31138, Stop: 33012, Start Num: 182

Candidate Starts for SanaSana_45:

(Start: 182 @31138 has 49 MA's), (216, 31207), (224, 31228), (328, 31474), (332, 31489), (340, 31516), (476, 31810), (564, 32044), (597, 32164), (598, 32167), (611, 32227), (614, 32233), (625, 32278), (632, 32293), (635, 32308), (644, 32344), (656, 32380), (680, 32473), (713, 32566), (747, 32644), (748, 32647), (770, 32716), (775, 32740), (778, 32755), (791, 32797), (794, 32815), (812, 32875), (820, 32896),

Gene: Sandaddy_44 Start: 34872, Stop: 33046, Start Num: 191

Candidate Starts for Sandaddy_44:

(Start: 191 @34872 has 828 MA's), (274, 34659), (283, 34644), (314, 34566), (322, 34545), (326, 34539), (328, 34530), (365, 34413), (372, 34386), (420, 34293), (428, 34278), (446, 34245), (470, 34194), (472, 34191), (494, 34125), (508, 34095), (518, 34065), (534, 34020), (556, 33981), (611, 33801), (623, 33753), (637, 33714), (656, 33648), (683, 33567), (685, 33564), (712, 33483), (770, 33333), (771, 33330), (778, 33294), (785, 33270), (788, 33261), (792, 33249), (812, 33174), (820, 33153),

Gene: SansAfet_43 Start: 29492, Stop: 31366, Start Num: 182

Candidate Starts for SansAfet_43:

(Start: 182 @29492 has 49 MA's), (216, 29561), (224, 29582), (328, 29828), (332, 29843), (340, 29870), (476, 30164), (523, 30299), (564, 30398), (598, 30521), (611, 30581), (614, 30587), (625, 30632), (632, 30647), (635, 30662), (644, 30698), (656, 30734), (680, 30827), (713, 30920), (747,

30998), (770, 31070), (778, 31109), (791, 31151), (794, 31169), (804, 31205), (812, 31229), (820, 31250),

Gene: SarBear_42 Start: 29278, Stop: 31152, Start Num: 182

Candidate Starts for SarBear_42:

(Start: 179 @29275 has 7 MA's), (Start: 182 @29278 has 49 MA's), (216, 29347), (224, 29368), (271, 29485), (307, 29548), (328, 29614), (340, 29656), (476, 29950), (523, 30085), (564, 30184), (598, 30307), (611, 30367), (614, 30373), (625, 30418), (632, 30433), (635, 30448), (644, 30484), (656, 30520), (680, 30613), (713, 30706), (747, 30784), (770, 30856), (778, 30895), (791, 30937), (794, 30955), (812, 31015), (820, 31036),

Gene: SarFire_43 Start: 34438, Stop: 32612, Start Num: 191

Candidate Starts for SarFire_43:

(Start: 191 @34438 has 828 MA's), (274, 34225), (283, 34210), (314, 34132), (322, 34111), (326, 34105), (328, 34096), (365, 33979), (372, 33952), (420, 33859), (428, 33844), (470, 33760), (472, 33757), (494, 33691), (508, 33661), (518, 33631), (534, 33586), (556, 33547), (611, 33367), (623, 33319), (637, 33280), (656, 33214), (666, 33175), (676, 33154), (683, 33133), (691, 33115), (712, 33049), (770, 32899), (771, 32896), (778, 32860), (788, 32827), (792, 32815), (803, 32767), (812, 32740), (820, 32719),

Gene: SassyCat97_59 Start: 54035, Stop: 52176, Start Num: 149

Candidate Starts for SassyCat97_59:

(Start: 133 @54059 has 1 MA's), (Start: 149 @54035 has 248 MA's), (Start: 174 @54011 has 5 MA's), (Start: 186 @54005 has 3 MA's), (205, 53963), (212, 53942), (254, 53828), (256, 53822), (269, 53792), (296, 53732), (306, 53711), (323, 53657), (327, 53645), (332, 53627), (335, 53615), (372, 53510), (389, 53453), (400, 53417), (402, 53405), (411, 53378), (421, 53351), (432, 53333), (442, 53315), (465, 53276), (469, 53267), (471, 53264), (576, 53006), (607, 52904), (612, 52871), (617, 52850), (647, 52757), (651, 52748), (668, 52685), (683, 52649), (685, 52646), (691, 52631), (717, 52553), (722, 52541), (730, 52520), (748, 52481), (775, 52391), (779, 52373), (781, 52367), (785, 52352), (793, 52328), (795, 52313), (796, 52310), (799, 52298), (809, 52274), (830, 52226), (840, 52202),

Gene: Satis_67 Start: 46746, Stop: 44782, Start Num: 92

Candidate Starts for Satis_67:

(Start: 92 @46746 has 10 MA's), (143, 46650), (178, 46605), (197, 46578), (205, 46557), (209, 46542), (214, 46530), (235, 46476), (262, 46392), (314, 46257), (342, 46158), (345, 46146), (351, 46119), (358, 46104), (399, 45966), (430, 45879), (480, 45783), (516, 45675), (517, 45672), (525, 45645), (536, 45618), (547, 45588), (557, 45558), (598, 45453), (622, 45345), (627, 45336), (634, 45330), (697, 45186), (701, 45168), (707, 45150), (748, 45096), (781, 44979), (784, 44967), (788, 44958), (792, 44946), (795, 44928), (801, 44904), (810, 44880), (818, 44862),

Gene: SaturnRing_46 Start: 31555, Stop: 29717, Start Num: 191

Candidate Starts for SaturnRing_46:

(Start: 191 @31555 has 828 MA's), (209, 31504), (236, 31438), (271, 31351), (302, 31291), (307, 31279), (326, 31222), (328, 31213), (366, 31093), (372, 31069), (420, 30973), (448, 30925), (476, 30865), (498, 30802), (523, 30733), (532, 30712), (566, 30640), (582, 30598), (592, 30556), (611, 30475), (623, 30427), (646, 30352), (656, 30322), (664, 30292), (685, 30211), (698, 30172), (704, 30148), (712, 30130), (760, 30001), (775, 29941), (812, 29806), (816, 29794), (820, 29785),

Gene: Scamp_45 Start: 31572, Stop: 29746, Start Num: 191

Candidate Starts for Scamp_45:

(Start: 191 @31572 has 828 MA's), (201, 31551), (209, 31521), (221, 31491), (291, 31329), (300, 31311), (326, 31239), (328, 31230), (366, 31110), (372, 31086), (420, 30993), (448, 30945), (458,

30924), (476, 30885), (523, 30753), (532, 30732), (556, 30687), (559, 30675), (609, 30522), (611, 30501), (646, 30378), (656, 30348), (666, 30309), (683, 30243), (685, 30240), (691, 30225), (698, 30201), (704, 30177), (775, 29970), (812, 29835), (816, 29823), (820, 29814),

Gene: Schadenfreude_60 Start: 53915, Stop: 52056, Start Num: 149

Candidate Starts for Schadenfreude_60:

(Start: 133 @53939 has 1 MA's), (Start: 149 @53915 has 248 MA's), (Start: 174 @53891 has 5 MA's), (Start: 186 @53885 has 3 MA's), (205, 53843), (212, 53822), (254, 53708), (256, 53702), (269, 53672), (296, 53612), (306, 53591), (323, 53537), (327, 53525), (332, 53507), (335, 53495), (372, 53390), (389, 53333), (400, 53297), (402, 53285), (410, 53261), (414, 53249), (421, 53231), (432, 53213), (442, 53195), (465, 53156), (469, 53147), (471, 53144), (473, 53141), (607, 52784), (612, 52751), (617, 52730), (647, 52637), (651, 52628), (668, 52565), (683, 52529), (685, 52526), (691, 52511), (717, 52433), (722, 52421), (730, 52400), (748, 52361), (775, 52271), (779, 52253), (781, 52247), (785, 52232), (793, 52208), (795, 52193), (796, 52190), (799, 52178), (809, 52154), (830, 52106), (840, 52082),

Gene: Scherzo_45 Start: 31727, Stop: 29934, Start Num: 191

Candidate Starts for Scherzo_45:

(Start: 191 @31727 has 828 MA's), (196, 31718), (209, 31676), (261, 31556), (262, 31553), (279, 31505), (308, 31445), (315, 31415), (319, 31403), (326, 31391), (372, 31238), (420, 31145), (484, 31007), (494, 30977), (559, 30818), (565, 30806), (579, 30779), (609, 30671), (611, 30650), (651, 30515), (656, 30497), (683, 30416), (698, 30374), (726, 30299), (733, 30278), (758, 30224), (770, 30182), (795, 30080), (812, 30023), (816, 30011), (820, 30002),

Gene: Schueller_62 Start: 54272, Stop: 52413, Start Num: 149

Candidate Starts for Schueller_62:

(Start: 133 @54296 has 1 MA's), (Start: 149 @54272 has 248 MA's), (Start: 174 @54248 has 5 MA's), (Start: 186 @54242 has 3 MA's), (205, 54200), (212, 54179), (254, 54065), (256, 54059), (269, 54029), (296, 53969), (306, 53948), (323, 53894), (327, 53882), (332, 53864), (335, 53852), (372, 53747), (389, 53690), (400, 53654), (402, 53642), (410, 53618), (414, 53606), (421, 53588), (432, 53570), (442, 53552), (465, 53513), (469, 53504), (471, 53501), (473, 53498), (576, 53243), (607, 53141), (612, 53108), (617, 53087), (647, 52994), (651, 52985), (668, 52922), (683, 52886), (685, 52883), (691, 52868), (717, 52790), (722, 52778), (730, 52757), (748, 52718), (775, 52628), (779, 52610), (781, 52604), (785, 52589), (793, 52565), (795, 52550), (796, 52547), (799, 52535), (809, 52511), (816, 52490), (830, 52463), (840, 52439), (845, 52424),

Gene: Scoot17C_61 Start: 53977, Stop: 52118, Start Num: 149

Candidate Starts for Scoot17C_61:

(Start: 133 @54001 has 1 MA's), (Start: 149 @53977 has 248 MA's), (Start: 174 @53953 has 5 MA's), (Start: 186 @53947 has 3 MA's), (205, 53905), (212, 53884), (254, 53770), (256, 53764), (269, 53734), (296, 53674), (306, 53653), (323, 53599), (327, 53587), (332, 53569), (335, 53557), (372, 53452), (389, 53395), (400, 53359), (402, 53347), (411, 53320), (421, 53293), (432, 53275), (442, 53257), (465, 53218), (469, 53209), (471, 53206), (576, 52948), (607, 52846), (612, 52813), (617, 52792), (647, 52699), (651, 52690), (668, 52627), (683, 52591), (685, 52588), (691, 52573), (717, 52495), (722, 52483), (730, 52462), (748, 52423), (775, 52333), (779, 52315), (781, 52309), (785, 52294), (793, 52270), (795, 52255), (796, 52252), (799, 52240), (809, 52216), (830, 52168), (840, 52144),

Gene: Scorpia_40 Start: 30133, Stop: 28268, Start Num: 191

Candidate Starts for Scorpia_40:

(Start: 164 @30166 has 2 MA's), (Start: 191 @30133 has 828 MA's), (235, 30022), (272, 29926), (307, 29857), (308, 29854), (314, 29827), (326, 29800), (328, 29791), (351, 29707), (355, 29698), (361, 29683), (372, 29647), (407, 29587), (420, 29551), (446, 29503), (457, 29482), (458, 29479), (483,

29419), (513, 29341), (528, 29293), (534, 29281), (558, 29233), (576, 29182), (611, 29047), (623, 28999), (632, 28981), (637, 28960), (639, 28951), (647, 28921), (656, 28894), (657, 28891), (683, 28813), (691, 28795), (704, 28747), (726, 28696), (750, 28642), (754, 28633), (760, 28615), (779, 28537), (812, 28420), (816, 28408), (859, 28303),

Gene: Scout_45 Start: 30682, Stop: 28844, Start Num: 191

Candidate Starts for Scout_45:

(Start: 141 @30754 has 23 MA's), (Start: 191 @30682 has 828 MA's), (209, 30631), (271, 30478), (302, 30418), (307, 30406), (326, 30349), (328, 30340), (331, 30328), (366, 30220), (372, 30196), (420, 30100), (448, 30052), (476, 29992), (498, 29929), (523, 29860), (532, 29839), (565, 29770), (568, 29764), (582, 29725), (611, 29602), (637, 29515), (646, 29479), (656, 29449), (664, 29419), (685, 29338), (698, 29299), (704, 29275), (712, 29257), (760, 29128), (775, 29068), (812, 28933), (816, 28921), (820, 28912),

Gene: Scowl_45 Start: 35221, Stop: 33395, Start Num: 191

Candidate Starts for Scowl_45:

(Start: 191 @35221 has 828 MA's), (274, 35008), (283, 34993), (307, 34945), (314, 34915), (322, 34894), (326, 34888), (328, 34879), (365, 34762), (372, 34735), (420, 34642), (428, 34627), (470, 34543), (472, 34540), (494, 34474), (508, 34444), (518, 34414), (534, 34369), (556, 34330), (611, 34150), (623, 34102), (637, 34063), (656, 33997), (666, 33958), (676, 33937), (683, 33916), (691, 33898), (712, 33832), (770, 33682), (771, 33679), (778, 33643), (785, 33619), (788, 33610), (792, 33598), (798, 33571), (812, 33523), (820, 33502),

Gene: Scrick_61 Start: 54049, Stop: 52190, Start Num: 149

Candidate Starts for Scrick_61:

(Start: 133 @54073 has 1 MA's), (Start: 149 @54049 has 248 MA's), (Start: 174 @54025 has 5 MA's), (Start: 186 @54019 has 3 MA's), (205, 53977), (212, 53956), (254, 53842), (256, 53836), (269, 53806), (296, 53746), (306, 53725), (323, 53671), (327, 53659), (332, 53641), (335, 53629), (372, 53524), (389, 53467), (400, 53431), (402, 53419), (410, 53395), (414, 53383), (421, 53365), (432, 53347), (442, 53329), (465, 53290), (469, 53281), (471, 53278), (473, 53275), (607, 52918), (612, 52885), (617, 52864), (647, 52771), (651, 52762), (668, 52699), (683, 52663), (685, 52660), (691, 52645), (717, 52567), (722, 52555), (730, 52534), (748, 52495), (775, 52405), (779, 52387), (781, 52381), (785, 52366), (793, 52342), (795, 52327), (796, 52324), (799, 52312), (809, 52288), (830, 52240), (840, 52216),

Gene: Seabiscuit_46 Start: 34373, Stop: 32547, Start Num: 191

Candidate Starts for Seabiscuit_46:

(Start: 191 @34373 has 828 MA's), (274, 34160), (307, 34097), (314, 34067), (322, 34046), (326, 34040), (328, 34031), (365, 33914), (372, 33887), (420, 33794), (428, 33779), (446, 33746), (470, 33695), (472, 33692), (494, 33626), (518, 33566), (534, 33521), (556, 33482), (611, 33302), (623, 33254), (637, 33215), (656, 33149), (666, 33110), (676, 33089), (683, 33068), (691, 33050), (712, 32984), (770, 32834), (771, 32831), (778, 32795), (788, 32762), (792, 32750), (803, 32702), (812, 32675), (820, 32654),

Gene: Seanderson_47 Start: 35777, Stop: 33948, Start Num: 191

Candidate Starts for Seanderson_47:

(Start: 191 @35777 has 828 MA's), (274, 35564), (283, 35549), (307, 35501), (314, 35471), (322, 35450), (326, 35444), (328, 35435), (365, 35318), (372, 35291), (420, 35198), (428, 35183), (470, 35099), (472, 35096), (494, 35030), (518, 34970), (534, 34925), (556, 34886), (611, 34706), (623, 34658), (639, 34610), (651, 34571), (656, 34553), (666, 34514), (676, 34493), (683, 34472), (690, 34457), (733, 34334), (789, 34163), (794, 34139), (808, 34091), (812, 34079), (820, 34058), (823, 34052), (842, 34004), (849, 33989),

Gene: Sebastisaurus_36 Start: 27845, Stop: 29776, Start Num: 191

Candidate Starts for Sebastisaurus_36:

(171, 27815), (Start: 191 @27845 has 828 MA's), (221, 27926), (262, 28025), (293, 28097), (296, 28103), (314, 28157), (315, 28160), (416, 28415), (423, 28433), (454, 28490), (458, 28505), (470, 28532), (475, 28541), (476, 28544), (478, 28547), (482, 28562), (532, 28697), (556, 28742), (563, 28766), (611, 28955), (614, 28961), (623, 29003), (637, 29042), (644, 29072), (654, 29099), (656, 29108), (664, 29138), (669, 29162), (691, 29225), (748, 29375), (752, 29381), (765, 29423), (768, 29435), (775, 29468), (778, 29483), (781, 29492), (789, 29519), (791, 29525), (794, 29543), (798, 29555), (812, 29603), (816, 29615), (842, 29678),

Gene: Selr12_62 Start: 54059, Stop: 52200, Start Num: 149

Candidate Starts for Selr12_62:

(Start: 133 @54083 has 1 MA's), (Start: 149 @54059 has 248 MA's), (Start: 174 @54035 has 5 MA's), (Start: 186 @54029 has 3 MA's), (205, 53987), (212, 53966), (254, 53852), (256, 53846), (269, 53816), (296, 53756), (306, 53735), (323, 53681), (327, 53669), (332, 53651), (335, 53639), (372, 53534), (389, 53477), (400, 53441), (402, 53429), (411, 53402), (421, 53375), (432, 53357), (442, 53339), (465, 53300), (469, 53291), (471, 53288), (607, 52928), (612, 52895), (617, 52874), (647, 52781), (651, 52772), (668, 52709), (683, 52673), (685, 52670), (691, 52655), (717, 52577), (722, 52565), (730, 52544), (748, 52505), (775, 52415), (779, 52397), (781, 52391), (785, 52376), (793, 52352), (795, 52337), (796, 52334), (799, 52322), (809, 52298), (830, 52250), (840, 52226),

Gene: SemperFi_45 Start: 31534, Stop: 29747, Start Num: 191

Candidate Starts for SemperFi_45:

(61, 31789), (Start: 191 @31534 has 828 MA's), (271, 31330), (272, 31327), (274, 31321), (283, 31306), (291, 31291), (307, 31258), (308, 31255), (314, 31228), (326, 31201), (331, 31180), (340, 31150), (372, 31048), (420, 30955), (446, 30907), (451, 30898), (458, 30883), (484, 30817), (515, 30736), (532, 30688), (534, 30682), (565, 30619), (592, 30544), (611, 30463), (625, 30412), (636, 30379), (637, 30376), (656, 30310), (666, 30271), (676, 30250), (701, 30175), (706, 30157), (726, 30112), (737, 30085), (754, 30049), (758, 30037), (760, 30031), (770, 29995), (775, 29971), (795, 29893), (812, 29836), (816, 29824), (820, 29815),

Gene: Serendipitous_56 Start: 53740, Stop: 51905, Start Num: 144

Candidate Starts for Serendipitous_56:

(Start: 128 @53764 has 3 MA's), (Start: 144 @53740 has 3 MA's), (Start: 186 @53704 has 3 MA's), (332, 53356), (341, 53326), (347, 53314), (363, 53278), (372, 53248), (400, 53155), (402, 53143), (405, 53134), (410, 53119), (414, 53107), (421, 53089), (460, 53026), (471, 53002), (515, 52897), (590, 52708), (595, 52690), (608, 52642), (612, 52615), (645, 52507), (647, 52501), (651, 52492), (674, 52408), (685, 52375), (691, 52360), (710, 52300), (717, 52282), (722, 52270), (730, 52249), (733, 52240), (735, 52237), (781, 52096), (783, 52087), (793, 52057), (795, 52042), (796, 52039), (805, 52015), (809, 52003), (810, 52000), (826, 51961), (840, 51931), (847, 51910),

Gene: Serendipity_60 Start: 54332, Stop: 52473, Start Num: 149

Candidate Starts for Serendipity_60:

(Start: 133 @54356 has 1 MA's), (Start: 149 @54332 has 248 MA's), (Start: 174 @54308 has 5 MA's), (Start: 186 @54302 has 3 MA's), (205, 54260), (212, 54239), (254, 54125), (256, 54119), (269, 54089), (296, 54029), (306, 54008), (323, 53954), (327, 53942), (332, 53924), (335, 53912), (372, 53807), (389, 53750), (400, 53714), (402, 53702), (411, 53675), (432, 53630), (465, 53573), (469, 53564), (471, 53561), (607, 53201), (612, 53168), (617, 53147), (647, 53054), (651, 53045), (668, 52982), (683, 52946), (685, 52943), (691, 52928), (717, 52850), (722, 52838), (730, 52817), (748, 52778), (775, 52688), (779, 52670), (781, 52664), (785, 52649), (793, 52625), (795, 52610), (796, 52607), (799, 52595), (809, 52571), (830, 52523), (840, 52499),

Gene: Serenity_45 Start: 30497, Stop: 28668, Start Num: 191

Candidate Starts for Serenity_45:

(Start: 191 @30497 has 828 MA's), (271, 30293), (272, 30290), (274, 30284), (283, 30269), (291, 30254), (306, 30224), (307, 30221), (314, 30191), (326, 30164), (331, 30143), (340, 30113), (372, 30011), (420, 29918), (446, 29870), (451, 29861), (458, 29846), (484, 29780), (515, 29699), (532, 29651), (556, 29606), (611, 29426), (623, 29378), (625, 29375), (637, 29339), (656, 29273), (666, 29234), (676, 29213), (701, 29138), (706, 29120), (726, 29075), (737, 29048), (754, 29012), (760, 28994), (770, 28958), (775, 28934), (795, 28856), (812, 28799), (816, 28787), (820, 28778), (839, 28730), (855, 28700), (860, 28682), (862, 28679),

Gene: Serpentine_0060 Start: 54415, Stop: 52556, Start Num: 149

Candidate Starts for Serpentine_0060:

(Start: 133 @54439 has 1 MA's), (Start: 149 @54415 has 248 MA's), (Start: 174 @54391 has 5 MA's), (Start: 186 @54385 has 3 MA's), (205, 54343), (212, 54322), (254, 54208), (256, 54202), (269, 54172), (296, 54112), (306, 54091), (323, 54037), (327, 54025), (332, 54007), (335, 53995), (372, 53890), (389, 53833), (400, 53797), (402, 53785), (411, 53758), (421, 53731), (432, 53713), (442, 53695), (465, 53656), (469, 53647), (471, 53644), (576, 53386), (607, 53284), (612, 53251), (617, 53230), (647, 53137), (651, 53128), (668, 53065), (683, 53029), (685, 53026), (691, 53011), (717, 52933), (722, 52921), (730, 52900), (748, 52861), (775, 52771), (779, 52753), (781, 52747), (785, 52732), (793, 52708), (795, 52693), (796, 52690), (799, 52678), (809, 52654), (830, 52606), (840, 52582),

Gene: Severus_42 Start: 30385, Stop: 28553, Start Num: 191

Candidate Starts for Severus_42:

(Start: 191 @30385 has 828 MA's), (209, 30334), (236, 30268), (271, 30181), (274, 30172), (302, 30121), (307, 30109), (326, 30052), (347, 29971), (351, 29959), (355, 29950), (366, 29923), (372, 29899), (420, 29806), (441, 29767), (476, 29698), (484, 29671), (534, 29539), (611, 29311), (632, 29245), (646, 29188), (656, 29158), (666, 29119), (685, 29047), (691, 29032), (698, 29008), (712, 28966), (726, 28933), (775, 28777), (781, 28753), (798, 28690), (812, 28642), (816, 28630), (820, 28621),

Gene: Shaka_45 Start: 31567, Stop: 29741, Start Num: 191

Candidate Starts for Shaka_45:

(Start: 191 @31567 has 828 MA's), (201, 31546), (209, 31516), (221, 31486), (291, 31324), (300, 31306), (326, 31234), (328, 31225), (366, 31105), (372, 31081), (420, 30988), (448, 30940), (458, 30919), (476, 30880), (523, 30748), (532, 30727), (556, 30682), (559, 30670), (609, 30517), (611, 30496), (646, 30373), (656, 30343), (666, 30304), (683, 30238), (685, 30235), (691, 30220), (698, 30196), (704, 30172), (775, 29965), (812, 29830), (816, 29818), (820, 29809),

Gene: ShakeltOph_47 Start: 30557, Stop: 32419, Start Num: 191

Candidate Starts for ShakeltOph_47:

(121, 30458), (130, 30476), (Start: 191 @30557 has 828 MA's), (208, 30605), (272, 30764), (274, 30770), (322, 30875), (336, 30920), (415, 31127), (476, 31256), (515, 31361), (532, 31409), (567, 31493), (611, 31667), (636, 31751), (644, 31784), (647, 31793), (663, 31844), (680, 31913), (720, 32024), (752, 32093), (754, 32099), (781, 32204), (812, 32315),

Gene: Sham4_44 Start: 30331, Stop: 28544, Start Num: 191

Candidate Starts for Sham4_44:

(Start: 191 @30331 has 828 MA's), (271, 30127), (307, 30055), (314, 30025), (326, 29998), (423, 29746), (451, 29695), (484, 29614), (501, 29569), (502, 29566), (532, 29485), (559, 29428), (581, 29386), (592, 29341), (611, 29260), (625, 29209), (637, 29173), (656, 29107), (676, 29047), (679, 29035), (716, 28933), (726, 28909), (732, 28891), (760, 28828), (768, 28801), (770, 28792), (775, 28768), (812, 28633), (816, 28621), (820, 28612),

Gene: Sharkboy_41 Start: 30011, Stop: 31882, Start Num: 182

Candidate Starts for Sharkboy_41:

(Start: 182 @30011 has 49 MA's), (264, 30194), (283, 30233), (293, 30251), (318, 30323), (328, 30347), (331, 30359), (332, 30362), (361, 30443), (455, 30635), (476, 30683), (509, 30773), (564, 30914), (598, 31037), (611, 31097), (632, 31163), (635, 31178), (644, 31214), (647, 31223), (656, 31250), (680, 31343), (713, 31436), (747, 31514), (770, 31586), (778, 31625), (791, 31667), (804, 31721), (812, 31745), (820, 31766), (831, 31790),

Gene: Shatter_51 Start: 45981, Stop: 44164, Start Num: 177

Candidate Starts for Shatter_51:

(34, 46302), (41, 46278), (Start: 177 @45981 has 10 MA's), (201, 45945), (205, 45930), (216, 45900), (265, 45774), (316, 45651), (324, 45636), (335, 45594), (372, 45498), (400, 45405), (460, 45276), (471, 45252), (595, 44940), (601, 44922), (612, 44865), (647, 44751), (651, 44742), (668, 44679), (685, 44640), (691, 44625), (717, 44547), (722, 44535), (730, 44514), (733, 44505), (768, 44418), (776, 44382), (778, 44370), (790, 44331), (793, 44322), (795, 44307), (809, 44262), (840, 44190),

Gene: Shawty_33 Start: 26720, Stop: 28573, Start Num: 191

Candidate Starts for Shawty_33:

(Start: 191 @26720 has 828 MA's), (221, 26801), (271, 26921), (322, 27044), (328, 27059), (423, 27299), (438, 27326), (454, 27356), (457, 27368), (470, 27398), (476, 27410), (482, 27428), (493, 27464), (527, 27554), (532, 27563), (560, 27623), (563, 27632), (607, 27791), (611, 27821), (618, 27854), (623, 27872), (631, 27887), (637, 27914), (644, 27944), (646, 27950), (647, 27953), (651, 27962), (654, 27971), (656, 27980), (661, 27995), (665, 28025), (679, 28079), (720, 28193), (748, 28256), (752, 28262), (754, 28268), (765, 28304), (768, 28316), (775, 28349), (778, 28364), (779, 28367), (781, 28373), (789, 28400), (791, 28406), (795, 28427), (812, 28484), (814, 28490), (816, 28496), (820, 28505),

Gene: ShayRa_48 Start: 29944, Stop: 28154, Start Num: 191

Candidate Starts for ShayRa_48:

(Start: 191 @29944 has 828 MA's), (262, 29770), (307, 29665), (308, 29662), (314, 29635), (326, 29608), (340, 29557), (372, 29455), (420, 29362), (444, 29317), (446, 29314), (451, 29305), (515, 29143), (523, 29116), (532, 29095), (534, 29089), (583, 28990), (592, 28951), (607, 28900), (611, 28870), (625, 28819), (636, 28786), (644, 28753), (646, 28747), (656, 28717), (676, 28657), (683, 28636), (698, 28594), (705, 28567), (712, 28552), (750, 28465), (770, 28402), (771, 28399), (812, 28243), (816, 28231), (821, 28219),

Gene: SheaKeira_43 Start: 30794, Stop: 29001, Start Num: 191

Candidate Starts for SheaKeira_43:

(Start: 191 @30794 has 828 MA's), (196, 30785), (209, 30743), (261, 30623), (262, 30620), (274, 30581), (279, 30572), (308, 30512), (314, 30485), (319, 30470), (326, 30458), (340, 30407), (372, 30305), (420, 30212), (433, 30188), (444, 30167), (494, 30044), (559, 29885), (560, 29882), (579, 29846), (582, 29840), (611, 29717), (632, 29651), (646, 29594), (651, 29582), (656, 29564), (676, 29504), (683, 29483), (691, 29465), (726, 29366), (754, 29303), (770, 29249), (791, 29168), (795, 29147), (812, 29090), (816, 29078), (820, 29069),

Gene: Sheen_44 Start: 33301, Stop: 31466, Start Num: 191

Candidate Starts for Sheen_44:

(Start: 191 @33301 has 828 MA's), (201, 33280), (235, 33190), (295, 33052), (322, 32974), (326, 32968), (372, 32815), (416, 32731), (420, 32719), (444, 32674), (448, 32671), (476, 32611), (492, 32560), (498, 32548), (532, 32458), (556, 32413), (582, 32344), (592, 32302), (609, 32242), (611, 32221), (623, 32173), (639, 32125), (646, 32098), (647, 32095), (656, 32068), (666, 32029), (685, 31960), (698, 31921), (712, 31879), (713, 31876), (726, 31846), (760, 31750), (768, 31723), (778, 31675), (779, 31672), (812, 31555), (816, 31543), (820, 31534),

Gene: Sheila_58 Start: 53417, Stop: 51558, Start Num: 149

Candidate Starts for Sheila_58:

(Start: 133 @53441 has 1 MA's), (Start: 149 @53417 has 248 MA's), (Start: 174 @53393 has 5 MA's), (Start: 186 @53387 has 3 MA's), (201, 53360), (205, 53345), (212, 53324), (256, 53204), (269, 53174), (296, 53114), (306, 53093), (323, 53039), (327, 53027), (332, 53009), (335, 52997), (372, 52892), (389, 52835), (400, 52799), (402, 52787), (411, 52760), (432, 52715), (465, 52658), (469, 52649), (471, 52646), (473, 52643), (576, 52388), (607, 52286), (612, 52253), (617, 52232), (647, 52139), (651, 52130), (668, 52067), (683, 52031), (685, 52028), (691, 52013), (717, 51935), (722, 51923), (730, 51902), (748, 51863), (775, 51773), (779, 51755), (781, 51749), (785, 51734), (793, 51710), (795, 51695), (796, 51692), (799, 51680), (809, 51656), (830, 51608), (840, 51584),

Gene: SheldonCooper_47 Start: 31993, Stop: 30167, Start Num: 191

Candidate Starts for SheldonCooper_47:

(Start: 191 @31993 has 828 MA's), (208, 31945), (271, 31789), (307, 31717), (326, 31660), (328, 31651), (366, 31531), (372, 31507), (420, 31414), (448, 31366), (458, 31345), (476, 31306), (490, 31261), (523, 31174), (526, 31165), (532, 31153), (556, 31108), (559, 31096), (609, 30943), (611, 30922), (646, 30799), (656, 30769), (666, 30730), (683, 30664), (685, 30661), (698, 30622), (704, 30598), (775, 30391), (812, 30256), (816, 30244), (820, 30235),

Gene: ShiVal_58 Start: 54054, Stop: 52195, Start Num: 149

Candidate Starts for ShiVal_58:

(Start: 133 @54078 has 1 MA's), (Start: 149 @54054 has 248 MA's), (Start: 174 @54030 has 5 MA's), (Start: 186 @54024 has 3 MA's), (205, 53982), (212, 53961), (254, 53847), (256, 53841), (269, 53811), (296, 53751), (306, 53730), (323, 53676), (327, 53664), (332, 53646), (335, 53634), (372, 53529), (389, 53472), (400, 53436), (402, 53424), (411, 53397), (421, 53370), (432, 53352), (442, 53334), (465, 53295), (469, 53286), (471, 53283), (576, 53025), (607, 52923), (612, 52890), (617, 52869), (647, 52776), (651, 52767), (668, 52704), (683, 52668), (685, 52665), (691, 52650), (717, 52572), (722, 52560), (730, 52539), (748, 52500), (775, 52410), (779, 52392), (781, 52386), (785, 52371), (793, 52347), (795, 52332), (796, 52329), (799, 52317), (809, 52293), (830, 52245), (840, 52221),

Gene: Shocker_43 Start: 33276, Stop: 31243, Start Num: 213

Candidate Starts for Shocker_43:

(Start: 213 @33276 has 1 MA's), (267, 33123), (281, 33090), (290, 33072), (308, 33033), (337, 32913), (341, 32904), (410, 32709), (431, 32664), (470, 32583), (474, 32577), (476, 32571), (483, 32550), (494, 32511), (506, 32481), (515, 32454), (528, 32412), (532, 32403), (554, 32343), (577, 32268), (648, 32001), (667, 31935), (716, 31803), (731, 31764), (761, 31668), (767, 31632), (771, 31617), (774, 31608), (781, 31566), (785, 31551), (797, 31497), (798, 31494), (812, 31440), (863, 31302), (866, 31293),

Gene: ShortQueendom_39 Start: 30936, Stop: 29110, Start Num: 191

Candidate Starts for ShortQueendom_39:

(Start: 191 @30936 has 828 MA's), (274, 30723), (283, 30708), (307, 30660), (314, 30630), (322, 30609), (326, 30603), (328, 30594), (365, 30477), (372, 30450), (420, 30357), (428, 30342), (446, 30309), (470, 30258), (472, 30255), (494, 30189), (508, 30159), (518, 30129), (534, 30084), (556, 30045), (611, 29865), (618, 29835), (623, 29817), (625, 29814), (637, 29778), (656, 29712), (683, 29631), (685, 29628), (712, 29547), (770, 29397), (771, 29394), (778, 29358), (785, 29334), (788, 29325), (792, 29313), (812, 29238), (820, 29217),

Gene: Shuman_36 Start: 28126, Stop: 26342, Start Num: 191

Candidate Starts for Shuman_36:

(Start: 191 @28126 has 828 MA's), (288, 27892), (302, 27862), (306, 27853), (307, 27850), (319, 27805), (326, 27793), (340, 27742), (372, 27640), (380, 27619), (420, 27547), (444, 27502), (446, 27499), (466, 27457), (468, 27451), (476, 27436), (484, 27409), (523, 27304), (526, 27295), (534, 27277), (556, 27238), (582, 27181), (611, 27058), (623, 27010), (656, 26905), (657, 26902), (676, 26845), (683, 26824), (700, 26776), (727, 26701), (758, 26632), (770, 26590), (775, 26566), (795, 26488), (812, 26431), (816, 26419), (820, 26410), (834, 26380), (839, 26362),

Gene: Shygu2_44 Start: 31522, Stop: 29693, Start Num: 191

Candidate Starts for Shygu2_44:

(Start: 191 @31522 has 828 MA's), (209, 31471), (221, 31441), (291, 31279), (300, 31261), (307, 31246), (326, 31189), (328, 31180), (331, 31168), (366, 31060), (372, 31036), (420, 30943), (448, 30895), (458, 30874), (476, 30835), (523, 30703), (532, 30682), (556, 30637), (559, 30625), (609, 30472), (611, 30451), (656, 30298), (665, 30262), (666, 30259), (685, 30187), (691, 30172), (698, 30148), (702, 30130), (704, 30124), (706, 30118), (775, 29917), (812, 29782), (816, 29770), (820, 29761),

Gene: Sibs6_45 Start: 33579, Stop: 31753, Start Num: 191

Candidate Starts for Sibs6_45:

(Start: 191 @33579 has 828 MA's), (274, 33366), (283, 33351), (307, 33303), (314, 33273), (322, 33252), (326, 33246), (328, 33237), (365, 33120), (372, 33093), (420, 33000), (428, 32985), (470, 32901), (472, 32898), (494, 32832), (508, 32802), (518, 32772), (534, 32727), (556, 32688), (611, 32508), (623, 32460), (637, 32421), (656, 32355), (666, 32316), (676, 32295), (683, 32274), (691, 32256), (712, 32190), (770, 32040), (771, 32037), (778, 32001), (785, 31977), (788, 31968), (792, 31956), (803, 31908), (812, 31881), (820, 31860),

Gene: Sigman_61 Start: 54010, Stop: 52151, Start Num: 149

Candidate Starts for Sigman_61:

(Start: 133 @54034 has 1 MA's), (Start: 149 @54010 has 248 MA's), (Start: 174 @53986 has 5 MA's), (Start: 186 @53980 has 3 MA's), (205, 53938), (212, 53917), (254, 53803), (256, 53797), (269, 53767), (296, 53707), (306, 53686), (323, 53632), (327, 53620), (332, 53602), (335, 53590), (372, 53485), (389, 53428), (400, 53392), (402, 53380), (410, 53356), (414, 53344), (421, 53326), (432, 53308), (442, 53290), (465, 53251), (469, 53242), (471, 53239), (473, 53236), (607, 52879), (612, 52846), (617, 52825), (647, 52732), (651, 52723), (668, 52660), (683, 52624), (685, 52621), (691, 52606), (717, 52528), (722, 52516), (730, 52495), (748, 52456), (775, 52366), (779, 52348), (781, 52342), (785, 52327), (793, 52303), (795, 52288), (796, 52285), (799, 52273), (809, 52249), (830, 52201), (840, 52177),

Gene: Simielle_60 Start: 54014, Stop: 52155, Start Num: 149

Candidate Starts for Simielle_60:

(Start: 133 @54038 has 1 MA's), (Start: 149 @54014 has 248 MA's), (Start: 174 @53990 has 5 MA's), (Start: 186 @53984 has 3 MA's), (205, 53942), (212, 53921), (254, 53807), (256, 53801), (269, 53771), (296, 53711), (306, 53690), (323, 53636), (327, 53624), (332, 53606), (335, 53594), (372, 53489), (389, 53432), (400, 53396), (402, 53384), (411, 53357), (432, 53312), (465, 53255), (469, 53246), (471, 53243), (576, 52985), (607, 52883), (612, 52850), (617, 52829), (647, 52736), (651, 52727), (668, 52664), (683, 52628), (685, 52625), (691, 52610), (717, 52532), (722, 52520), (730, 52499), (748, 52460), (775, 52370), (779, 52352), (781, 52346), (785, 52331), (793, 52307), (795, 52292), (796, 52289), (799, 52277), (809, 52253), (830, 52205), (840, 52181),

Gene: Simpson_43 Start: 29708, Stop: 31573, Start Num: 191

Candidate Starts for Simpson_43:

(Start: 191 @29708 has 828 MA's), (208, 29756), (314, 30005), (331, 30053), (343, 30095), (423, 30302), (428, 30311), (472, 30401), (476, 30410), (481, 30425), (496, 30470), (515, 30515), (532, 30563), (559, 30620), (583, 30701), (606, 30788), (611, 30821), (618, 30851), (637, 30908), (656,

30974), (680, 31067), (704, 31139), (752, 31247), (770, 31310), (775, 31334), (804, 31445), (812, 31469), (815, 31478),

Gene: SirJeffery_57 Start: 54475, Stop: 52676, Start Num: 186

Candidate Starts for SirJeffery_57:

(79, 54625), (107, 54559), (Start: 141 @54505 has 23 MA's), (Start: 172 @54484 has 1 MA's), (Start: 186 @54475 has 3 MA's), (201, 54448), (218, 54400), (266, 54289), (273, 54277), (332, 54127), (341, 54097), (347, 54085), (363, 54049), (372, 54019), (400, 53926), (402, 53914), (403, 53911), (410, 53890), (414, 53878), (421, 53860), (460, 53797), (471, 53773), (515, 53668), (559, 53545), (576, 53521), (586, 53494), (589, 53482), (590, 53479), (595, 53461), (608, 53413), (612, 53386), (626, 53335), (647, 53272), (651, 53263), (674, 53179), (685, 53146), (691, 53131), (710, 53071), (717, 53053), (722, 53041), (730, 53020), (733, 53011), (735, 53008), (775, 52891), (779, 52873), (781, 52867), (793, 52828), (794, 52816), (795, 52813), (799, 52798), (805, 52786), (809, 52774), (810, 52771), (826, 52732), (832, 52723), (840, 52702), (847, 52681),

Gene: Sisko_49 Start: 45974, Stop: 44160, Start Num: 174

Candidate Starts for Sisko_49:

(114, 46064), (117, 46058), (Start: 174 @45974 has 5 MA's), (Start: 186 @45965 has 3 MA's), (205, 45923), (254, 45797), (272, 45755), (291, 45713), (316, 45644), (331, 45605), (334, 45593), (335, 45590), (366, 45515), (372, 45494), (400, 45401), (458, 45275), (465, 45260), (471, 45248), (504, 45158), (595, 44936), (612, 44861), (647, 44747), (651, 44738), (668, 44675), (685, 44636), (691, 44621), (717, 44543), (722, 44531), (725, 44525), (730, 44510), (733, 44501), (738, 44492), (768, 44414), (775, 44381), (776, 44378), (791, 44324), (793, 44318), (800, 44282), (809, 44258), (840, 44186),

Gene: Sixama_172 Start: 99122, Stop: 97338, Start Num: 186

Candidate Starts for Sixama_172:

(Start: 144 @99188 has 3 MA's), (163, 99161), (Start: 186 @99122 has 3 MA's), (235, 99014), (261, 98954), (271, 98921), (306, 98858), (318, 98813), (334, 98768), (335, 98765), (367, 98687), (370, 98672), (371, 98669), (376, 98657), (420, 98588), (464, 98504), (476, 98477), (481, 98462), (539, 98303), (556, 98279), (604, 98138), (609, 98117), (611, 98096), (662, 97916), (670, 97859), (704, 97757), (708, 97748), (734, 97685), (740, 97673), (745, 97664), (776, 97544), (778, 97532), (781, 97523), (782, 97517), (789, 97496), (791, 97490), (793, 97484), (796, 97466), (798, 97460), (812, 97412), (838, 97361),

Gene: SkiPole_47 Start: 35312, Stop: 33483, Start Num: 191

Candidate Starts for SkiPole_47:

(Start: 191 @35312 has 828 MA's), (274, 35099), (283, 35084), (307, 35036), (314, 35006), (322, 34985), (326, 34979), (328, 34970), (365, 34853), (372, 34826), (420, 34733), (428, 34718), (470, 34634), (472, 34631), (494, 34565), (518, 34505), (534, 34460), (556, 34421), (611, 34241), (623, 34193), (639, 34145), (651, 34106), (656, 34088), (666, 34049), (676, 34028), (683, 34007), (690, 33992), (733, 33869), (789, 33698), (794, 33674), (808, 33626), (812, 33614), (820, 33593), (823, 33587), (842, 33539), (849, 33524),

Gene: Skipitt_44 Start: 31564, Stop: 29738, Start Num: 191

Candidate Starts for Skipitt_44:

(Start: 191 @31564 has 828 MA's), (201, 31543), (209, 31513), (221, 31483), (291, 31321), (300, 31303), (326, 31231), (328, 31222), (366, 31102), (372, 31078), (420, 30985), (448, 30937), (458, 30916), (476, 30877), (523, 30745), (532, 30724), (556, 30679), (559, 30667), (609, 30514), (611, 30493), (646, 30370), (656, 30340), (666, 30301), (683, 30235), (685, 30232), (691, 30217), (698, 30193), (704, 30169), (775, 29962), (812, 29827), (816, 29815), (820, 29806),

Gene: Skippy_61 Start: 54268, Stop: 52409, Start Num: 149

Candidate Starts for Skippy_61:

(Start: 133 @54292 has 1 MA's), (Start: 149 @54268 has 248 MA's), (Start: 174 @54244 has 5 MA's), (Start: 186 @54238 has 3 MA's), (205, 54196), (212, 54175), (254, 54061), (256, 54055), (269, 54025), (296, 53965), (306, 53944), (323, 53890), (327, 53878), (332, 53860), (335, 53848), (372, 53743), (389, 53686), (400, 53650), (402, 53638), (410, 53614), (414, 53602), (421, 53584), (432, 53566), (442, 53548), (465, 53509), (469, 53500), (471, 53497), (473, 53494), (576, 53239), (607, 53137), (612, 53104), (617, 53083), (647, 52990), (651, 52981), (668, 52918), (683, 52882), (685, 52879), (691, 52864), (717, 52786), (722, 52774), (730, 52753), (748, 52714), (775, 52624), (779, 52606), (781, 52600), (785, 52585), (793, 52561), (795, 52546), (796, 52543), (799, 52531), (809, 52507), (816, 52486), (830, 52459), (840, 52435),

Gene: Skylord_40 Start: 27452, Stop: 29320, Start Num: 179

Candidate Starts for Skylord_40:

(Start: 179 @27452 has 7 MA's), (Start: 182 @27455 has 49 MA's), (Start: 185 @27458 has 2 MA's), (216, 27527), (332, 27809), (340, 27836), (361, 27890), (441, 28055), (476, 28130), (483, 28151), (598, 28505), (611, 28565), (625, 28616), (644, 28682), (656, 28718), (680, 28811), (747, 28982), (770, 29054), (791, 29135), (811, 29210), (812, 29213), (820, 29234), (851, 29303),

Gene: Slagathor_47 Start: 35125, Stop: 33338, Start Num: 191

Candidate Starts for Slagathor_47:

(Start: 191 @35125 has 828 MA's), (274, 34912), (283, 34897), (314, 34819), (322, 34798), (326, 34792), (328, 34783), (365, 34666), (372, 34639), (420, 34546), (428, 34531), (446, 34498), (470, 34447), (472, 34444), (494, 34378), (508, 34348), (518, 34318), (534, 34273), (556, 34234), (611, 34054), (623, 34006), (637, 33967), (656, 33901), (679, 33829), (683, 33820), (712, 33736), (750, 33649), (785, 33523), (789, 33511), (812, 33427), (814, 33421),

Gene: Slatt_61 Start: 54333, Stop: 52474, Start Num: 149

Candidate Starts for Slatt_61:

(Start: 133 @54357 has 1 MA's), (Start: 149 @54333 has 248 MA's), (Start: 174 @54309 has 5 MA's), (Start: 186 @54303 has 3 MA's), (205, 54261), (212, 54240), (254, 54126), (256, 54120), (269, 54090), (296, 54030), (306, 54009), (323, 53955), (327, 53943), (332, 53925), (335, 53913), (372, 53808), (389, 53751), (400, 53715), (402, 53703), (411, 53676), (421, 53649), (432, 53631), (442, 53613), (465, 53574), (469, 53565), (471, 53562), (607, 53202), (612, 53169), (617, 53148), (647, 53055), (651, 53046), (668, 52983), (683, 52947), (685, 52944), (691, 52929), (717, 52851), (722, 52839), (730, 52818), (748, 52779), (775, 52689), (779, 52671), (781, 52665), (785, 52650), (793, 52626), (795, 52611), (796, 52608), (799, 52596), (809, 52572), (830, 52524), (840, 52500),

Gene: Slay_43 Start: 30006, Stop: 31880, Start Num: 182

Candidate Starts for Slay_43:

(Start: 179 @30003 has 7 MA's), (Start: 182 @30006 has 49 MA's), (216, 30075), (224, 30096), (271, 30213), (307, 30276), (328, 30342), (340, 30384), (476, 30678), (523, 30813), (564, 30912), (598, 31035), (611, 31095), (614, 31101), (625, 31146), (632, 31161), (635, 31176), (644, 31212), (656, 31248), (680, 31341), (713, 31434), (747, 31512), (770, 31584), (778, 31623), (791, 31665), (794, 31683), (812, 31743), (820, 31764),

Gene: SlippinJimmy_60 Start: 54842, Stop: 53025, Start Num: 183

Candidate Starts for SlippinJimmy_60:

(80, 55025), (Start: 183 @54842 has 42 MA's), (201, 54812), (274, 54632), (331, 54479), (334, 54467), (343, 54437), (349, 54431), (372, 54368), (375, 54362), (389, 54311), (400, 54275), (414, 54227), (471, 54122), (510, 54026), (533, 53975), (589, 53831), (601, 53792), (608, 53762), (612, 53735), (616, 53723), (645, 53627), (647, 53621), (651, 53612), (655, 53600), (674, 53528), (683, 53498), (691, 53480), (694, 53471), (717, 53402), (722, 53390), (730, 53369), (760, 53300), (765, 53285), (771, 53261), (775, 53240), (779, 53222), (781, 53216), (791, 53183), (793, 53177), (796,

53159), (799, 53147), (805, 53135), (809, 53123), (826, 53081), (840, 53051),

Gene: Smairt_47 Start: 35424, Stop: 33637, Start Num: 191

Candidate Starts for Smairt_47:

(Start: 191 @35424 has 828 MA's), (274, 35211), (283, 35196), (314, 35118), (322, 35097), (326, 35091), (328, 35082), (365, 34965), (372, 34938), (420, 34845), (428, 34830), (439, 34809), (446, 34797), (470, 34746), (472, 34743), (490, 34689), (494, 34677), (508, 34647), (518, 34617), (534, 34572), (556, 34533), (611, 34353), (623, 34305), (637, 34266), (656, 34200), (679, 34128), (683, 34119), (712, 34035), (750, 33948), (785, 33822), (789, 33810), (812, 33726), (814, 33720),

Gene: Smeadley_43 Start: 30722, Stop: 28878, Start Num: 191

Candidate Starts for Smeadley_43:

(95, 30887), (Start: 191 @30722 has 828 MA's), (209, 30671), (262, 30548), (271, 30518), (291, 30479), (307, 30446), (314, 30416), (322, 30395), (326, 30389), (328, 30380), (340, 30338), (355, 30287), (371, 30239), (372, 30236), (420, 30140), (435, 30113), (444, 30095), (446, 30092), (451, 30083), (476, 30029), (484, 30002), (502, 29954), (523, 29897), (534, 29870), (559, 29819), (566, 29804), (609, 29657), (611, 29636), (618, 29606), (623, 29588), (625, 29585), (632, 29570), (637, 29549), (639, 29540), (646, 29513), (651, 29501), (656, 29483), (683, 29402), (689, 29390), (704, 29336), (719, 29300), (733, 29264), (750, 29231), (758, 29210), (760, 29204), (771, 29165), (775, 29144), (779, 29126), (812, 29009), (814, 29003), (816, 28997),

Gene: Smeagan_47 Start: 31877, Stop: 30090, Start Num: 191

Candidate Starts for Smeagan_47:

(Start: 191 @31877 has 828 MA's), (272, 31670), (274, 31664), (283, 31649), (291, 31634), (308, 31598), (314, 31571), (326, 31544), (331, 31523), (372, 31391), (420, 31298), (444, 31253), (446, 31250), (451, 31241), (458, 31226), (484, 31160), (515, 31079), (532, 31031), (534, 31025), (611, 30806), (625, 30755), (636, 30722), (637, 30719), (656, 30653), (666, 30614), (676, 30593), (701, 30518), (704, 30506), (726, 30455), (754, 30392), (760, 30374), (770, 30338), (775, 30314), (795, 30236), (812, 30179), (816, 30167), (820, 30158),

Gene: Smeagol_46 Start: 35946, Stop: 34120, Start Num: 191

Candidate Starts for Smeagol_46:

(Start: 191 @35946 has 828 MA's), (274, 35733), (283, 35718), (314, 35640), (322, 35619), (326, 35613), (328, 35604), (365, 35487), (372, 35460), (420, 35367), (428, 35352), (446, 35319), (470, 35268), (472, 35265), (494, 35199), (508, 35169), (518, 35139), (534, 35094), (556, 35055), (611, 34875), (623, 34827), (625, 34824), (637, 34788), (656, 34722), (683, 34641), (685, 34638), (712, 34557), (770, 34407), (771, 34404), (778, 34368), (785, 34344), (792, 34323), (812, 34248), (820, 34227),

Gene: SmellyB_45 Start: 29627, Stop: 27786, Start Num: 191

Candidate Starts for SmellyB_45:

(Start: 191 @29627 has 828 MA's), (271, 29423), (307, 29348), (308, 29345), (314, 29318), (319, 29303), (326, 29291), (340, 29240), (368, 29150), (372, 29138), (420, 29045), (441, 29006), (451, 28988), (458, 28973), (484, 28907), (496, 28874), (498, 28871), (535, 28769), (565, 28709), (592, 28625), (611, 28544), (636, 28460), (637, 28457), (639, 28448), (646, 28421), (656, 28391), (676, 28331), (691, 28292), (770, 28076), (771, 28073), (775, 28052), (812, 27917), (816, 27905), (820, 27896), (821, 27893), (859, 27800),

Gene: SnapTap_44 Start: 31345, Stop: 29558, Start Num: 191

Candidate Starts for SnapTap_44:

(61, 31600), (Start: 191 @31345 has 828 MA's), (271, 31141), (272, 31138), (274, 31132), (283, 31117), (291, 31102), (307, 31069), (308, 31066), (314, 31039), (326, 31012), (331, 30991), (340, 30961), (372, 30859), (420, 30766), (446, 30718), (451, 30709), (458, 30694), (484, 30628), (515,

30547), (532, 30499), (534, 30493), (565, 30430), (592, 30355), (611, 30274), (625, 30223), (636, 30190), (637, 30187), (656, 30121), (666, 30082), (676, 30061), (701, 29986), (706, 29968), (726, 29923), (737, 29896), (754, 29860), (758, 29848), (760, 29842), (770, 29806), (775, 29782), (795, 29704), (812, 29647), (816, 29635), (820, 29626),

Gene: Snape_44 Start: 30329, Stop: 28542, Start Num: 191

Candidate Starts for Snape_44:

(Start: 191 @30329 has 828 MA's), (271, 30125), (307, 30053), (314, 30023), (326, 29996), (423, 29744), (451, 29693), (484, 29612), (501, 29567), (532, 29483), (559, 29426), (581, 29384), (592, 29339), (611, 29258), (625, 29207), (637, 29171), (656, 29105), (676, 29045), (679, 29033), (716, 28931), (726, 28907), (732, 28889), (760, 28826), (768, 28799), (770, 28790), (775, 28766), (812, 28631), (816, 28619), (820, 28610),

Gene: Snazzy_42 Start: 34003, Stop: 32177, Start Num: 191

Candidate Starts for Snazzy_42:

(Start: 191 @34003 has 828 MA's), (274, 33790), (283, 33775), (314, 33697), (322, 33676), (326, 33670), (328, 33661), (365, 33544), (372, 33517), (420, 33424), (428, 33409), (446, 33376), (470, 33325), (472, 33322), (494, 33256), (508, 33226), (518, 33196), (534, 33151), (556, 33112), (611, 32932), (618, 32902), (623, 32884), (625, 32881), (637, 32845), (656, 32779), (683, 32698), (685, 32695), (712, 32614), (770, 32464), (771, 32461), (778, 32425), (785, 32401), (788, 32392), (792, 32380), (812, 32305), (820, 32284),

Gene: Snek_40 Start: 28185, Stop: 30029, Start Num: 191

Candidate Starts for Snek_40:

(Start: 191 @28185 has 828 MA's), (208, 28233), (234, 28293), (271, 28389), (290, 28416), (308, 28455), (322, 28503), (343, 28572), (423, 28758), (476, 28866), (481, 28881), (527, 29010), (532, 29019), (583, 29157), (611, 29277), (637, 29364), (654, 29421), (656, 29430), (680, 29523), (770, 29766), (812, 29925), (815, 29934), (850, 30012),

Gene: Snickers_48 Start: 31826, Stop: 30012, Start Num: 191

Candidate Starts for Snickers_48:

(Start: 191 @31826 has 828 MA's), (206, 31787), (209, 31775), (271, 31622), (276, 31607), (307, 31550), (326, 31493), (328, 31484), (340, 31442), (355, 31391), (372, 31340), (420, 31247), (446, 31199), (451, 31190), (458, 31175), (476, 31136), (484, 31109), (494, 31079), (528, 30986), (558, 30926), (565, 30911), (611, 30755), (637, 30668), (656, 30602), (666, 30563), (685, 30491), (698, 30452), (704, 30428), (712, 30410), (726, 30377), (737, 30350), (760, 30296), (775, 30236), (795, 30158), (812, 30101), (816, 30089), (820, 30080),

Gene: SoYo_48 Start: 31764, Stop: 29950, Start Num: 191

Candidate Starts for SoYo_48:

(Start: 191 @31764 has 828 MA's), (206, 31725), (209, 31713), (271, 31560), (276, 31545), (307, 31488), (326, 31431), (328, 31422), (340, 31380), (355, 31329), (372, 31278), (420, 31185), (446, 31137), (451, 31128), (458, 31113), (476, 31074), (484, 31047), (494, 31017), (528, 30924), (558, 30864), (565, 30849), (611, 30693), (637, 30606), (656, 30540), (666, 30501), (685, 30429), (698, 30390), (704, 30366), (712, 30348), (726, 30315), (737, 30288), (760, 30234), (775, 30174), (795, 30096), (812, 30039), (816, 30027), (820, 30018),

Gene: SoilDragon_48 Start: 31301, Stop: 29487, Start Num: 191

Candidate Starts for SoilDragon_48:

(Start: 191 @31301 has 828 MA's), (206, 31262), (209, 31250), (271, 31097), (276, 31082), (307, 31025), (326, 30968), (328, 30959), (340, 30917), (355, 30866), (372, 30815), (420, 30722), (446, 30674), (451, 30665), (458, 30650), (476, 30611), (484, 30584), (494, 30554), (528, 30461), (534, 30449), (558, 30401), (565, 30386), (611, 30230), (637, 30143), (656, 30077), (666, 30038), (685,

29966), (698, 29927), (704, 29903), (712, 29885), (726, 29852), (737, 29825), (760, 29771), (775, 29711), (795, 29633), (812, 29576), (816, 29564), (820, 29555),

Gene: Soile_61 Start: 54557, Stop: 52698, Start Num: 149

Candidate Starts for Soile_61:

(Start: 133 @54581 has 1 MA's), (Start: 149 @54557 has 248 MA's), (Start: 174 @54533 has 5 MA's), (Start: 186 @54527 has 3 MA's), (205, 54485), (212, 54464), (254, 54350), (256, 54344), (269, 54314), (296, 54254), (306, 54233), (323, 54179), (327, 54167), (332, 54149), (335, 54137), (372, 54032), (389, 53975), (400, 53939), (402, 53927), (410, 53903), (414, 53891), (421, 53873), (432, 53855), (442, 53837), (465, 53798), (469, 53789), (471, 53786), (473, 53783), (607, 53426), (612, 53393), (617, 53372), (647, 53279), (651, 53270), (668, 53207), (683, 53171), (685, 53168), (691, 53153), (717, 53075), (722, 53063), (730, 53042), (748, 53003), (775, 52913), (779, 52895), (781, 52889), (785, 52874), (793, 52850), (795, 52835), (796, 52832), (799, 52820), (809, 52796), (830, 52748), (840, 52724),

Gene: Solon_44 Start: 34769, Stop: 32940, Start Num: 191

Candidate Starts for Solon_44:

(Start: 191 @34769 has 828 MA's), (274, 34556), (283, 34541), (307, 34493), (314, 34463), (322, 34442), (326, 34436), (328, 34427), (365, 34310), (372, 34283), (420, 34190), (428, 34175), (446, 34142), (470, 34091), (472, 34088), (494, 34022), (508, 33992), (518, 33962), (534, 33917), (556, 33878), (611, 33698), (623, 33650), (639, 33602), (651, 33563), (656, 33545), (666, 33506), (676, 33485), (683, 33464), (690, 33449), (733, 33326), (789, 33155), (794, 33131), (808, 33083), (812, 33071), (820, 33050), (823, 33044), (842, 32996), (849, 32981),

Gene: Solosis_59 Start: 54029, Stop: 52170, Start Num: 149

Candidate Starts for Solosis_59:

(Start: 133 @54053 has 1 MA's), (Start: 149 @54029 has 248 MA's), (Start: 174 @54005 has 5 MA's), (Start: 186 @53999 has 3 MA's), (205, 53957), (212, 53936), (254, 53822), (256, 53816), (269, 53786), (296, 53726), (306, 53705), (323, 53651), (327, 53639), (332, 53621), (335, 53609), (372, 53504), (389, 53447), (400, 53411), (402, 53399), (411, 53372), (432, 53327), (465, 53270), (469, 53261), (471, 53258), (607, 52898), (612, 52865), (617, 52844), (647, 52751), (651, 52742), (668, 52679), (683, 52643), (685, 52640), (691, 52625), (717, 52547), (722, 52535), (730, 52514), (748, 52475), (775, 52385), (779, 52367), (781, 52361), (785, 52346), (793, 52322), (795, 52307), (796, 52304), (799, 52292), (809, 52268), (830, 52220), (840, 52196),

Gene: Soondubu_36 Start: 30879, Stop: 32723, Start Num: 191

Candidate Starts for Soondubu_36:

(Start: 191 @30879 has 828 MA's), (297, 31125), (314, 31176), (457, 31518), (476, 31560), (481, 31575), (484, 31587), (523, 31692), (527, 31704), (532, 31713), (583, 31851), (611, 31971), (618, 32001), (656, 32124), (664, 32154), (680, 32217), (685, 32226), (770, 32460), (775, 32484), (785, 32523), (789, 32535), (791, 32541), (794, 32559), (812, 32619),

Gene: Sophia_59 Start: 54023, Stop: 52164, Start Num: 149

Candidate Starts for Sophia_59:

(Start: 133 @54047 has 1 MA's), (Start: 149 @54023 has 248 MA's), (Start: 174 @53999 has 5 MA's), (Start: 186 @53993 has 3 MA's), (205, 53951), (212, 53930), (254, 53816), (256, 53810), (269, 53780), (296, 53720), (306, 53699), (323, 53645), (327, 53633), (332, 53615), (335, 53603), (372, 53498), (389, 53441), (400, 53405), (402, 53393), (411, 53366), (432, 53321), (465, 53264), (469, 53255), (471, 53252), (576, 52994), (607, 52892), (612, 52859), (617, 52838), (647, 52745), (651, 52736), (668, 52673), (685, 52634), (691, 52619), (717, 52541), (722, 52529), (730, 52508), (748, 52469), (775, 52379), (779, 52361), (781, 52355), (785, 52340), (793, 52316), (795, 52301), (796, 52298), (799, 52286), (809, 52262), (830, 52214), (840, 52190),

Gene: SorJuana_54 Start: 36486, Stop: 34318, Start Num: 86

Candidate Starts for SorJuana_54:

(85, 36489), (Start: 86 @36486 has 11 MA's), (106, 36432), (160, 36348), (235, 36195), (237, 36186), (253, 36141), (278, 36063), (287, 36054), (294, 36039), (301, 36024), (303, 36021), (323, 35964), (346, 35871), (362, 35829), (422, 35634), (430, 35622), (434, 35616), (449, 35592), (459, 35571), (468, 35550), (476, 35535), (479, 35529), (500, 35466), (517, 35415), (550, 35328), (571, 35268), (591, 35220), (615, 35118), (616, 35112), (620, 35085), (621, 35082), (629, 35061), (641, 35019), (643, 35013), (650, 34989), (659, 34947), (660, 34944), (665, 34917), (674, 34884), (677, 34872), (692, 34836), (698, 34812), (700, 34806), (701, 34800), (723, 34746), (744, 34698), (746, 34695), (764, 34635), (770, 34611), (777, 34581), (790, 34527), (809, 34458), (813, 34446), (828, 34407),

Gene: SororFago_48 Start: 33066, Stop: 31273, Start Num: 191

Candidate Starts for SororFago_48:

(Start: 191 @33066 has 828 MA's), (196, 33057), (207, 33024), (235, 32955), (271, 32862), (307, 32787), (308, 32784), (326, 32730), (328, 32721), (366, 32601), (372, 32577), (420, 32484), (444, 32439), (494, 32316), (556, 32169), (579, 32118), (611, 31989), (623, 31941), (625, 31938), (632, 31923), (656, 31836), (676, 31776), (679, 31764), (683, 31755), (691, 31737), (712, 31671), (726, 31638), (737, 31611), (768, 31530), (770, 31521), (791, 31440), (795, 31419), (798, 31410), (812, 31362), (816, 31350), (820, 31341),

Gene: Sorpresa_43 Start: 34874, Stop: 33048, Start Num: 191

Candidate Starts for Sorpresa_43:

(Start: 191 @34874 has 828 MA's), (274, 34661), (283, 34646), (314, 34568), (322, 34547), (326, 34541), (328, 34532), (365, 34415), (372, 34388), (420, 34295), (428, 34280), (446, 34247), (470, 34196), (472, 34193), (494, 34127), (508, 34097), (518, 34067), (534, 34022), (556, 33983), (611, 33803), (623, 33755), (637, 33716), (656, 33650), (683, 33569), (685, 33566), (712, 33485), (770, 33335), (771, 33332), (778, 33296), (785, 33272), (788, 33263), (792, 33251), (812, 33176), (820, 33155),

Gene: Soshari_50 Start: 31880, Stop: 30066, Start Num: 191

Candidate Starts for Soshari_50:

(Start: 191 @31880 has 828 MA's), (206, 31841), (209, 31829), (271, 31676), (276, 31661), (307, 31604), (326, 31547), (328, 31538), (340, 31496), (355, 31445), (372, 31394), (405, 31340), (420, 31301), (446, 31253), (458, 31229), (476, 31190), (484, 31163), (494, 31133), (528, 31040), (534, 31028), (558, 30980), (565, 30965), (611, 30809), (625, 30758), (636, 30725), (637, 30722), (656, 30656), (666, 30617), (685, 30545), (698, 30506), (704, 30482), (712, 30464), (726, 30431), (760, 30350), (775, 30290), (798, 30203), (812, 30155), (816, 30143), (820, 30134), (821, 30131),

Gene: Soto_59 Start: 53590, Stop: 51731, Start Num: 149

Candidate Starts for Soto_59:

(Start: 133 @53614 has 1 MA's), (Start: 149 @53590 has 248 MA's), (Start: 174 @53566 has 5 MA's), (Start: 186 @53560 has 3 MA's), (201, 53533), (205, 53518), (212, 53497), (254, 53383), (256, 53377), (269, 53347), (296, 53287), (306, 53266), (323, 53212), (327, 53200), (332, 53182), (335, 53170), (372, 53065), (389, 53008), (400, 52972), (402, 52960), (411, 52933), (414, 52924), (432, 52888), (465, 52831), (469, 52822), (471, 52819), (473, 52816), (607, 52459), (612, 52426), (617, 52405), (647, 52312), (651, 52303), (668, 52240), (683, 52204), (685, 52201), (691, 52186), (717, 52108), (722, 52096), (730, 52075), (748, 52036), (775, 51946), (779, 51928), (781, 51922), (785, 51907), (793, 51883), (795, 51868), (796, 51865), (799, 51853), (809, 51829), (830, 51781), (840, 51757),

Gene: Soups_47 Start: 29943, Stop: 28153, Start Num: 191

Candidate Starts for Soups_47:

(Start: 191 @29943 has 828 MA's), (262, 29769), (307, 29664), (308, 29661), (314, 29634), (326, 29607), (340, 29556), (372, 29454), (420, 29361), (444, 29316), (446, 29313), (451, 29304), (515, 29142), (523, 29115), (532, 29094), (534, 29088), (583, 28989), (592, 28950), (607, 28899), (611, 28869), (625, 28818), (636, 28785), (644, 28752), (646, 28746), (656, 28716), (676, 28656), (683, 28635), (698, 28593), (705, 28566), (712, 28551), (750, 28464), (770, 28401), (771, 28398), (812, 28242), (816, 28230), (821, 28218),

Gene: Sour_53 Start: 49160, Stop: 47364, Start Num: 186

Candidate Starts for Sour_53:

(Start: 174 @49166 has 5 MA's), (Start: 186 @49160 has 3 MA's), (201, 49133), (204, 49121), (205, 49118), (216, 49088), (269, 48962), (316, 48842), (331, 48803), (335, 48788), (366, 48713), (372, 48695), (400, 48602), (414, 48554), (460, 48473), (471, 48449), (481, 48425), (494, 48383), (533, 48302), (539, 48284), (595, 48137), (612, 48062), (645, 47957), (647, 47951), (651, 47942), (668, 47879), (685, 47840), (686, 47837), (691, 47825), (717, 47747), (722, 47735), (730, 47714), (733, 47705), (753, 47666), (765, 47630), (768, 47618), (775, 47585), (776, 47582), (793, 47522), (795, 47507), (809, 47462), (830, 47414), (840, 47390),

Gene: Spartan300_60 Start: 54251, Stop: 52392, Start Num: 149

Candidate Starts for Spartan300_60:

(Start: 133 @54275 has 1 MA's), (Start: 149 @54251 has 248 MA's), (Start: 174 @54227 has 5 MA's), (Start: 186 @54221 has 3 MA's), (205, 54179), (212, 54158), (254, 54044), (256, 54038), (269, 54008), (296, 53948), (306, 53927), (323, 53873), (327, 53861), (332, 53843), (335, 53831), (372, 53726), (389, 53669), (400, 53633), (402, 53621), (410, 53597), (414, 53585), (421, 53567), (432, 53549), (442, 53531), (465, 53492), (469, 53483), (471, 53480), (473, 53477), (607, 53120), (612, 53087), (617, 53066), (647, 52973), (651, 52964), (668, 52901), (683, 52865), (685, 52862), (691, 52847), (717, 52769), (722, 52757), (730, 52736), (748, 52697), (775, 52607), (779, 52589), (781, 52583), (785, 52568), (793, 52544), (795, 52529), (796, 52526), (799, 52514), (809, 52490), (830, 52442), (840, 52418),

Gene: Sparxx_46 Start: 31565, Stop: 29739, Start Num: 191

Candidate Starts for Sparxx_46:

(Start: 191 @31565 has 828 MA's), (201, 31544), (209, 31514), (221, 31484), (291, 31322), (300, 31304), (326, 31232), (328, 31223), (366, 31103), (372, 31079), (420, 30986), (448, 30938), (458, 30917), (476, 30878), (532, 30725), (556, 30680), (559, 30668), (609, 30515), (611, 30494), (646, 30371), (656, 30341), (666, 30302), (683, 30236), (685, 30233), (691, 30218), (698, 30194), (704, 30170), (775, 29963), (812, 29828), (816, 29816), (820, 29807),

Gene: Spike509_48 Start: 31881, Stop: 30067, Start Num: 191

Candidate Starts for Spike509_48:

(Start: 191 @31881 has 828 MA's), (206, 31842), (209, 31830), (271, 31677), (276, 31662), (307, 31605), (326, 31548), (328, 31539), (340, 31497), (355, 31446), (372, 31395), (405, 31341), (420, 31302), (446, 31254), (458, 31230), (476, 31191), (484, 31164), (494, 31134), (528, 31041), (534, 31029), (558, 30981), (565, 30966), (611, 30810), (625, 30759), (636, 30726), (637, 30723), (656, 30657), (666, 30618), (685, 30546), (698, 30507), (704, 30483), (712, 30465), (726, 30432), (760, 30351), (775, 30291), (798, 30204), (812, 30156), (816, 30144), (820, 30135), (821, 30132),

Gene: SpikeBT_45 Start: 35111, Stop: 33285, Start Num: 191

Candidate Starts for SpikeBT_45:

(Start: 191 @35111 has 828 MA's), (274, 34898), (307, 34835), (314, 34805), (322, 34784), (326, 34778), (328, 34769), (365, 34652), (372, 34625), (420, 34532), (428, 34517), (446, 34484), (470, 34433), (472, 34430), (490, 34376), (494, 34364), (508, 34334), (518, 34304), (534, 34259), (556, 34220), (611, 34040), (618, 34010), (623, 33992), (625, 33989), (637, 33953), (656, 33887), (683, 33806), (685, 33803), (712, 33722), (770, 33572), (771, 33569), (778, 33533), (785, 33509), (788,

33500), (792, 33488), (812, 33413), (820, 33392),

Gene: Spino_44 Start: 31570, Stop: 29744, Start Num: 191

Candidate Starts for Spino_44:

(Start: 191 @31570 has 828 MA's), (201, 31549), (209, 31519), (221, 31489), (291, 31327), (300, 31309), (326, 31237), (328, 31228), (366, 31108), (372, 31084), (420, 30991), (448, 30943), (458, 30922), (476, 30883), (523, 30751), (532, 30730), (556, 30685), (559, 30673), (609, 30520), (611, 30499), (646, 30376), (656, 30346), (666, 30307), (683, 30241), (685, 30238), (691, 30223), (698, 30199), (704, 30175), (775, 29968), (812, 29833), (816, 29821), (820, 29812),

Gene: Spouty_43 Start: 31549, Stop: 29756, Start Num: 191

Candidate Starts for Spouty_43:

(Start: 191 @31549 has 828 MA's), (196, 31540), (209, 31498), (261, 31378), (262, 31375), (279, 31327), (308, 31267), (315, 31237), (319, 31225), (326, 31213), (372, 31060), (420, 30967), (484, 30829), (494, 30799), (559, 30640), (565, 30628), (579, 30601), (609, 30493), (611, 30472), (651, 30337), (656, 30319), (683, 30238), (698, 30196), (726, 30121), (758, 30046), (770, 30004), (795, 29902), (812, 29845), (816, 29833), (820, 29824),

Gene: Squee_44 Start: 34851, Stop: 33025, Start Num: 191

Candidate Starts for Squee_44:

(Start: 191 @34851 has 828 MA's), (274, 34638), (283, 34623), (307, 34575), (314, 34545), (322, 34524), (326, 34518), (328, 34509), (365, 34392), (372, 34365), (420, 34272), (428, 34257), (470, 34173), (472, 34170), (494, 34104), (508, 34074), (518, 34044), (534, 33999), (556, 33960), (611, 33780), (618, 33750), (623, 33732), (625, 33729), (637, 33693), (656, 33627), (683, 33546), (685, 33543), (712, 33462), (770, 33312), (771, 33309), (778, 33273), (785, 33249), (788, 33240), (792, 33228), (812, 33153), (820, 33132),

Gene: Squid_60 Start: 54035, Stop: 52176, Start Num: 149

Candidate Starts for Squid_60:

(Start: 133 @54059 has 1 MA's), (Start: 149 @54035 has 248 MA's), (Start: 174 @54011 has 5 MA's), (Start: 186 @54005 has 3 MA's), (205, 53963), (212, 53942), (254, 53828), (256, 53822), (269, 53792), (296, 53732), (306, 53711), (323, 53657), (327, 53645), (332, 53627), (335, 53615), (372, 53510), (389, 53453), (400, 53417), (402, 53405), (411, 53378), (421, 53351), (432, 53333), (442, 53315), (465, 53276), (469, 53267), (471, 53264), (576, 53006), (607, 52904), (612, 52871), (617, 52850), (647, 52757), (651, 52748), (668, 52685), (683, 52649), (685, 52646), (691, 52631), (717, 52553), (722, 52541), (730, 52520), (748, 52481), (775, 52391), (779, 52373), (781, 52367), (785, 52352), (793, 52328), (795, 52313), (796, 52310), (799, 52298), (809, 52274), (830, 52226), (840, 52202),

Gene: Squiggle_61 Start: 54043, Stop: 52184, Start Num: 149

Candidate Starts for Squiggle_61:

(Start: 133 @54067 has 1 MA's), (Start: 149 @54043 has 248 MA's), (Start: 174 @54019 has 5 MA's), (Start: 186 @54013 has 3 MA's), (205, 53971), (212, 53950), (254, 53836), (256, 53830), (269, 53800), (296, 53740), (306, 53719), (323, 53665), (327, 53653), (332, 53635), (335, 53623), (372, 53518), (389, 53461), (400, 53425), (402, 53413), (411, 53386), (432, 53341), (465, 53284), (469, 53275), (471, 53272), (607, 52912), (612, 52879), (617, 52858), (647, 52765), (651, 52756), (668, 52693), (683, 52657), (685, 52654), (691, 52639), (717, 52561), (722, 52549), (730, 52528), (748, 52489), (771, 52420), (775, 52399), (779, 52381), (781, 52375), (785, 52360), (793, 52336), (795, 52321), (796, 52318), (799, 52306), (809, 52282), (830, 52234), (840, 52210),

Gene: StAugustine_89 Start: 66670, Stop: 64871, Start Num: 180

Candidate Starts for StAugustine_89:

(Start: 180 @66670 has 7 MA's), (201, 66637), (205, 66622), (209, 66610), (225, 66583), (235, 66565), (241, 66538), (287, 66445), (296, 66427), (305, 66409), (323, 66352), (339, 66301), (389, 66160), (398, 66133), (400, 66124), (453, 66010), (471, 65971), (483, 65941), (488, 65923), (533, 65809), (576, 65704), (583, 65689), (607, 65602), (612, 65569), (615, 65563), (645, 65461), (647, 65455), (651, 65446), (683, 65347), (685, 65344), (691, 65329), (696, 65314), (717, 65251), (722, 65239), (730, 65218), (768, 65122), (775, 65089), (793, 65026), (799, 64996), (803, 64990), (805, 64984), (809, 64972), (829, 64924), (840, 64897), (845, 64882), (847, 64876),

Gene: StCroix_36 Start: 28126, Stop: 26342, Start Num: 191

Candidate Starts for StCroix_36:

(Start: 191 @28126 has 828 MA's), (288, 27892), (302, 27862), (306, 27853), (307, 27850), (319, 27805), (326, 27793), (340, 27742), (372, 27640), (380, 27619), (420, 27547), (444, 27502), (446, 27499), (466, 27457), (468, 27451), (476, 27436), (484, 27409), (523, 27304), (526, 27295), (534, 27277), (535, 27274), (556, 27238), (611, 27058), (623, 27010), (656, 26905), (657, 26902), (676, 26845), (683, 26824), (727, 26701), (760, 26626), (770, 26590), (775, 26566), (795, 26488), (812, 26431), (816, 26419), (834, 26380), (839, 26362),

Gene: Stagni_48 Start: 31855, Stop: 30041, Start Num: 191

Candidate Starts for Stagni_48:

(Start: 191 @31855 has 828 MA's), (206, 31816), (209, 31804), (271, 31651), (276, 31636), (307, 31579), (326, 31522), (328, 31513), (340, 31471), (355, 31420), (372, 31369), (420, 31276), (446, 31228), (451, 31219), (458, 31204), (476, 31165), (484, 31138), (494, 31108), (528, 31015), (558, 30955), (565, 30940), (611, 30784), (637, 30697), (656, 30631), (666, 30592), (685, 30520), (698, 30481), (704, 30457), (712, 30439), (726, 30406), (737, 30379), (760, 30325), (775, 30265), (795, 30187), (812, 30130), (816, 30118), (820, 30109),

Gene: StarStuff_47 Start: 31156, Stop: 29333, Start Num: 191

Candidate Starts for StarStuff_47:

(Start: 191 @31156 has 828 MA's), (271, 30952), (283, 30928), (291, 30910), (300, 30892), (307, 30877), (308, 30874), (314, 30847), (326, 30820), (340, 30769), (372, 30667), (420, 30574), (446, 30526), (451, 30517), (457, 30505), (484, 30436), (508, 30376), (556, 30262), (565, 30238), (581, 30199), (611, 30073), (625, 30022), (637, 29986), (656, 29920), (666, 29881), (685, 29812), (698, 29773), (713, 29728), (726, 29698), (754, 29635), (758, 29623), (760, 29617), (775, 29557), (812, 29422), (816, 29410), (820, 29401),

Gene: Stasia_44 Start: 31442, Stop: 29613, Start Num: 191

Candidate Starts for Stasia_44:

(129, 31535), (Start: 138 @31520 has 1 MA's), (140, 31517), (150, 31502), (Start: 191 @31442 has 828 MA's), (209, 31391), (221, 31361), (291, 31199), (300, 31181), (307, 31166), (326, 31109), (328, 31100), (366, 30980), (372, 30956), (420, 30863), (448, 30815), (458, 30794), (476, 30755), (523, 30623), (526, 30614), (532, 30602), (556, 30557), (609, 30392), (611, 30371), (646, 30248), (656, 30218), (666, 30179), (683, 30110), (685, 30107), (691, 30092), (698, 30068), (704, 30044), (706, 30038), (713, 30023), (775, 29837), (812, 29702), (816, 29690), (820, 29681),

Gene: Steamy_41 Start: 30942, Stop: 29098, Start Num: 191

Candidate Starts for Steamy_41:

(69, 31173), (94, 31104), (Start: 191 @30942 has 828 MA's), (201, 30921), (205, 30906), (208, 30894), (262, 30768), (274, 30729), (297, 30684), (308, 30660), (314, 30633), (326, 30606), (331, 30585), (372, 30453), (420, 30360), (446, 30312), (451, 30303), (458, 30288), (484, 30222), (581, 29982), (597, 29919), (611, 29856), (625, 29805), (637, 29769), (646, 29733), (656, 29703), (666, 29664), (676, 29643), (683, 29622), (726, 29505), (748, 29454), (754, 29442), (770, 29388), (771, 29385), (775, 29364), (791, 29307), (795, 29286), (802, 29259), (812, 29229), (816, 29217), (839, 29160),

Gene: StepMih_48 Start: 31846, Stop: 30032, Start Num: 191

Candidate Starts for StepMih_48:

(Start: 191 @31846 has 828 MA's), (206, 31807), (209, 31795), (271, 31642), (276, 31627), (307, 31570), (326, 31513), (328, 31504), (340, 31462), (355, 31411), (372, 31360), (420, 31267), (446, 31219), (451, 31210), (458, 31195), (476, 31156), (484, 31129), (494, 31099), (528, 31006), (558, 30946), (565, 30931), (611, 30775), (637, 30688), (656, 30622), (666, 30583), (685, 30511), (698, 30472), (704, 30448), (712, 30430), (726, 30397), (737, 30370), (760, 30316), (775, 30256), (795, 30178), (812, 30121), (816, 30109), (820, 30100),

Gene: Stephig9_43 Start: 30581, Stop: 28737, Start Num: 191

Candidate Starts for Stephig9_43:

(88, 30764), (95, 30746), (Start: 191 @30581 has 828 MA's), (209, 30530), (262, 30407), (271, 30377), (291, 30338), (307, 30305), (314, 30275), (322, 30254), (326, 30248), (328, 30239), (340, 30197), (355, 30146), (371, 30098), (372, 30095), (420, 29999), (435, 29972), (446, 29951), (451, 29942), (476, 29888), (484, 29861), (502, 29813), (515, 29783), (523, 29756), (534, 29729), (559, 29678), (566, 29663), (609, 29516), (611, 29495), (618, 29465), (623, 29447), (625, 29444), (632, 29429), (637, 29408), (639, 29399), (646, 29372), (651, 29360), (656, 29342), (683, 29261), (704, 29195), (719, 29159), (733, 29123), (750, 29090), (758, 29069), (760, 29063), (771, 29024), (775, 29003), (779, 28985), (812, 28868), (816, 28856),

Gene: StewieG_44 Start: 32301, Stop: 30472, Start Num: 191

Candidate Starts for StewieG_44:

(Start: 191 @32301 has 828 MA's), (274, 32088), (283, 32073), (307, 32025), (314, 31995), (322, 31974), (326, 31968), (328, 31959), (365, 31842), (372, 31815), (420, 31722), (428, 31707), (446, 31674), (470, 31623), (472, 31620), (494, 31554), (508, 31524), (518, 31494), (534, 31449), (556, 31410), (611, 31230), (623, 31182), (639, 31134), (651, 31095), (656, 31077), (666, 31038), (676, 31017), (683, 30996), (690, 30981), (733, 30858), (789, 30687), (794, 30663), (808, 30615), (812, 30603), (820, 30582), (823, 30576), (842, 30528), (849, 30513),

Gene: Stinger_54 Start: 52910, Stop: 51081, Start Num: 137

Candidate Starts for Stinger_54:

(Start: 137 @52910 has 1 MA's), (Start: 186 @52880 has 3 MA's), (201, 52853), (205, 52838), (212, 52817), (246, 52730), (254, 52712), (293, 52625), (306, 52598), (310, 52583), (332, 52517), (335, 52505), (341, 52487), (343, 52478), (347, 52475), (349, 52472), (358, 52445), (389, 52352), (395, 52334), (400, 52316), (402, 52304), (411, 52277), (469, 52166), (471, 52163), (483, 52133), (487, 52118), (494, 52097), (532, 52019), (590, 51869), (601, 51833), (608, 51803), (612, 51776), (645, 51668), (647, 51662), (651, 51653), (679, 51563), (683, 51554), (685, 51551), (691, 51536), (717, 51458), (722, 51446), (730, 51425), (733, 51416), (748, 51386), (768, 51329), (775, 51296), (779, 51278), (781, 51272), (789, 51245), (793, 51233), (795, 51218), (796, 51215), (799, 51203), (809, 51179), (826, 51137), (830, 51131), (840, 51107),

Gene: Stink_45 Start: 31990, Stop: 30161, Start Num: 191

Candidate Starts for Stink_45:

(Start: 191 @31990 has 828 MA's), (209, 31939), (221, 31909), (291, 31747), (300, 31729), (326, 31657), (328, 31648), (366, 31528), (372, 31504), (420, 31411), (448, 31363), (458, 31342), (476, 31303), (490, 31258), (492, 31252), (523, 31171), (526, 31162), (532, 31150), (556, 31105), (559, 31093), (611, 30919), (639, 30823), (646, 30796), (647, 30793), (656, 30766), (666, 30727), (683, 30658), (685, 30655), (691, 30640), (698, 30616), (704, 30592), (706, 30586), (775, 30385), (812, 30250), (816, 30238), (820, 30229),

Gene: StinkyVeggy_58 Start: 54598, Stop: 52751, Start Num: 136

Candidate Starts for StinkyVeggy_58:

(Start: 9 @55093 has 1 MA's), (10, 55087), (16, 55036), (17, 55018), (22, 54961), (51, 54817), (98, 54664), (136, 54598), (184, 54550), (201, 54523), (220, 54472), (235, 54451), (254, 54397), (273, 54352), (297, 54301), (332, 54202), (347, 54160), (363, 54124), (372, 54094), (400, 54001), (402, 53989), (410, 53965), (414, 53953), (421, 53935), (460, 53872), (471, 53848), (515, 53743), (559, 53620), (590, 53554), (595, 53536), (608, 53488), (612, 53461), (645, 53353), (647, 53347), (651, 53338), (657, 53317), (674, 53254), (685, 53221), (691, 53206), (710, 53146), (717, 53128), (722, 53116), (730, 53095), (733, 53086), (735, 53083), (742, 53071), (775, 52966), (779, 52948), (781, 52942), (793, 52903), (795, 52888), (796, 52885), (805, 52861), (809, 52849), (810, 52846), (832, 52798), (840, 52777),

Gene: Stoor_43 Start: 30807, Stop: 32681, Start Num: 182

Candidate Starts for Stoor_43:

(Start: 182 @30807 has 49 MA's), (216, 30876), (224, 30897), (328, 31143), (332, 31158), (340, 31185), (423, 31371), (438, 31398), (446, 31413), (476, 31479), (564, 31713), (597, 31833), (598, 31836), (611, 31896), (614, 31902), (625, 31947), (632, 31962), (635, 31977), (644, 32013), (656, 32049), (680, 32142), (713, 32235), (747, 32313), (748, 32316), (770, 32385), (775, 32409), (778, 32424), (791, 32466), (794, 32484), (812, 32544), (820, 32565),

Gene: Stromboli_43 Start: 30669, Stop: 32543, Start Num: 182

Candidate Starts for Stromboli_43:

(Start: 182 @30669 has 49 MA's), (216, 30738), (224, 30759), (328, 31005), (332, 31020), (340, 31047), (438, 31260), (446, 31275), (476, 31341), (564, 31575), (597, 31695), (598, 31698), (611, 31758), (614, 31764), (625, 31809), (632, 31824), (635, 31839), (644, 31875), (656, 31911), (680, 32004), (713, 32097), (747, 32175), (748, 32178), (770, 32247), (775, 32271), (778, 32286), (791, 32328), (794, 32346), (812, 32406), (820, 32427),

Gene: StrongArm_44 Start: 35747, Stop: 33960, Start Num: 191

Candidate Starts for StrongArm_44:

(Start: 191 @35747 has 828 MA's), (274, 35534), (307, 35471), (314, 35441), (322, 35420), (326, 35414), (328, 35405), (365, 35288), (372, 35261), (420, 35168), (428, 35153), (446, 35120), (470, 35069), (472, 35066), (494, 35000), (508, 34970), (518, 34940), (534, 34895), (556, 34856), (611, 34676), (623, 34628), (637, 34589), (656, 34523), (679, 34451), (683, 34442), (712, 34358), (750, 34271), (785, 34145), (789, 34133), (804, 34073), (812, 34049), (814, 34043),

Gene: Strosahl_47 Start: 29659, Stop: 27869, Start Num: 191

Candidate Starts for Strosahl_47:

(Start: 191 @29659 has 828 MA's), (262, 29485), (307, 29380), (308, 29377), (314, 29350), (326, 29323), (340, 29272), (372, 29170), (420, 29077), (444, 29032), (446, 29029), (451, 29020), (515, 28858), (523, 28831), (532, 28810), (534, 28804), (583, 28705), (592, 28666), (607, 28615), (611, 28585), (625, 28534), (636, 28501), (646, 28462), (656, 28432), (676, 28372), (683, 28351), (698, 28309), (705, 28282), (750, 28180), (770, 28117), (771, 28114), (812, 27958), (816, 27946), (821, 27934),

Gene: Struggle_61 Start: 54120, Stop: 52261, Start Num: 149

Candidate Starts for Struggle_61:

(Start: 133 @54144 has 1 MA's), (Start: 149 @54120 has 248 MA's), (Start: 174 @54096 has 5 MA's), (Start: 186 @54090 has 3 MA's), (205, 54048), (212, 54027), (254, 53913), (256, 53907), (269, 53877), (296, 53817), (306, 53796), (323, 53742), (327, 53730), (332, 53712), (335, 53700), (372, 53595), (389, 53538), (400, 53502), (402, 53490), (410, 53466), (414, 53454), (421, 53436), (432, 53418), (442, 53400), (465, 53361), (469, 53352), (471, 53349), (473, 53346), (607, 52989), (612, 52956), (617, 52935), (647, 52842), (651, 52833), (668, 52770), (683, 52734), (685, 52731), (691, 52716), (717, 52638), (722, 52626), (730, 52605), (748, 52566), (775, 52476), (779, 52458), (781, 52452), (785, 52437), (793, 52413), (795, 52398), (796, 52395), (799, 52383), (809, 52359), (816,

52338), (830, 52311), (840, 52287), (845, 52272),

Gene: SuMoo_50 Start: 32117, Stop: 33982, Start Num: 189

Candidate Starts for SuMoo_50:

(Start: 189 @32117 has 7 MA's), (343, 32504), (444, 32750), (476, 32819), (532, 32972), (561, 33035), (592, 33149), (611, 33230), (631, 33293), (644, 33347), (657, 33386), (713, 33569), (750, 33653), (793, 33806), (812, 33878), (824, 33908),

Gene: Success_19 Start: 11835, Stop: 10045, Start Num: 191

Candidate Starts for Success_19:

(Start: 191 @11835 has 828 MA's), (271, 11634), (274, 11625), (314, 11532), (326, 11505), (331, 11484), (340, 11454), (344, 11439), (372, 11352), (415, 11274), (420, 11259), (476, 11142), (532, 10989), (556, 10944), (560, 10929), (611, 10773), (628, 10710), (632, 10704), (642, 10659), (644, 10653), (656, 10617), (683, 10536), (699, 10491), (789, 10227), (804, 10167), (812, 10143), (839, 10074), (841, 10071),

Gene: Sue2_42 Start: 30222, Stop: 32132, Start Num: 191

Candidate Starts for Sue2_42:

(99, 30078), (127, 30132), (Start: 191 @30222 has 828 MA's), (208, 30270), (290, 30453), (293, 30459), (314, 30519), (343, 30609), (423, 30861), (428, 30870), (472, 30960), (476, 30969), (484, 30996), (496, 31029), (532, 31122), (559, 31179), (583, 31260), (611, 31380), (618, 31410), (632, 31446), (637, 31467), (646, 31503), (656, 31533), (680, 31626), (752, 31806), (758, 31827), (775, 31893), (812, 32028),

Gene: Suffolk_59 Start: 53538, Stop: 51679, Start Num: 149

Candidate Starts for Suffolk_59:

(Start: 133 @53562 has 1 MA's), (Start: 149 @53538 has 248 MA's), (Start: 174 @53514 has 5 MA's), (Start: 186 @53508 has 3 MA's), (205, 53466), (212, 53445), (254, 53331), (256, 53325), (269, 53295), (296, 53235), (306, 53214), (323, 53160), (327, 53148), (332, 53130), (335, 53118), (372, 53013), (389, 52956), (400, 52920), (402, 52908), (410, 52884), (414, 52872), (421, 52854), (432, 52836), (442, 52818), (465, 52779), (469, 52770), (471, 52767), (473, 52764), (607, 52407), (612, 52374), (617, 52353), (647, 52260), (651, 52251), (668, 52188), (683, 52152), (685, 52149), (691, 52134), (717, 52056), (722, 52044), (730, 52023), (748, 51984), (775, 51894), (779, 51876), (781, 51870), (785, 51855), (793, 51831), (795, 51816), (796, 51813), (799, 51801), (809, 51777), (830, 51729), (840, 51705),

Gene: Suigeneris_59 Start: 54668, Stop: 52842, Start Num: 141

Candidate Starts for Suigeneris_59:

(Start: 141 @54668 has 23 MA's), (201, 54614), (227, 54554), (273, 54443), (296, 54395), (332, 54293), (341, 54263), (347, 54251), (363, 54215), (372, 54185), (400, 54092), (402, 54080), (410, 54056), (414, 54044), (421, 54026), (460, 53963), (471, 53939), (473, 53936), (515, 53834), (590, 53645), (595, 53627), (601, 53609), (608, 53579), (612, 53552), (645, 53444), (647, 53438), (651, 53429), (657, 53408), (674, 53345), (685, 53312), (691, 53297), (710, 53237), (717, 53219), (722, 53207), (730, 53186), (733, 53177), (735, 53174), (775, 53057), (781, 53033), (793, 52994), (795, 52979), (796, 52976), (805, 52952), (809, 52940), (810, 52937), (816, 52919), (832, 52889), (840, 52868), (847, 52847),

Gene: Sumter_42 Start: 34474, Stop: 32645, Start Num: 191

Candidate Starts for Sumter_42:

(Start: 191 @34474 has 828 MA's), (274, 34261), (283, 34246), (314, 34168), (322, 34147), (326, 34141), (328, 34132), (365, 34015), (372, 33988), (420, 33895), (428, 33880), (446, 33847), (470, 33796), (472, 33793), (490, 33739), (494, 33727), (508, 33697), (518, 33667), (534, 33622), (556, 33583), (611, 33403), (623, 33355), (639, 33307), (651, 33268), (656, 33250), (666, 33211), (676,

33190), (683, 33169), (690, 33154), (733, 33031), (789, 32860), (794, 32836), (808, 32788), (812, 32776), (820, 32755), (823, 32749), (842, 32701), (849, 32686),

Gene: Sunshine924_45 Start: 34152, Stop: 32323, Start Num: 191

Candidate Starts for Sunshine924_45:

(Start: 191 @34152 has 828 MA's), (274, 33939), (307, 33876), (314, 33846), (322, 33825), (326, 33819), (328, 33810), (365, 33693), (372, 33666), (420, 33573), (428, 33558), (470, 33474), (472, 33471), (494, 33405), (508, 33375), (518, 33345), (534, 33300), (556, 33261), (611, 33081), (623, 33033), (639, 32985), (651, 32946), (656, 32928), (666, 32889), (676, 32868), (683, 32847), (690, 32832), (733, 32709), (789, 32538), (794, 32514), (808, 32466), (812, 32454), (820, 32433), (823, 32427), (842, 32379), (849, 32364),

Gene: SuperAwesome_45 Start: 29638, Stop: 27797, Start Num: 191

Candidate Starts for SuperAwesome_45:

(Start: 191 @29638 has 828 MA's), (271, 29434), (307, 29359), (308, 29356), (314, 29329), (319, 29314), (326, 29302), (340, 29251), (368, 29161), (372, 29149), (420, 29056), (441, 29017), (451, 28999), (458, 28984), (484, 28918), (496, 28885), (498, 28882), (535, 28780), (565, 28720), (592, 28636), (611, 28555), (636, 28471), (637, 28468), (639, 28459), (646, 28432), (656, 28402), (676, 28342), (691, 28303), (770, 28087), (771, 28084), (775, 28063), (812, 27928), (816, 27916), (820, 27907), (821, 27904), (859, 27811),

Gene: SuperCallie99_45 Start: 29637, Stop: 27796, Start Num: 191

Candidate Starts for SuperCallie99_45:

(Start: 191 @29637 has 828 MA's), (271, 29433), (307, 29358), (308, 29355), (314, 29328), (319, 29313), (326, 29301), (340, 29250), (368, 29160), (372, 29148), (420, 29055), (441, 29016), (451, 28998), (458, 28983), (484, 28917), (496, 28884), (498, 28881), (535, 28779), (565, 28719), (592, 28635), (611, 28554), (636, 28470), (637, 28467), (639, 28458), (646, 28431), (656, 28401), (676, 28341), (691, 28302), (770, 28086), (771, 28083), (775, 28062), (812, 27927), (816, 27915), (820, 27906), (821, 27903), (859, 27810),

Gene: Superchunk_44 Start: 30012, Stop: 28183, Start Num: 191

Candidate Starts for Superchunk_44:

(Start: 191 @30012 has 828 MA's), (271, 29808), (274, 29799), (291, 29769), (307, 29736), (308, 29733), (314, 29706), (326, 29679), (331, 29658), (372, 29526), (420, 29433), (446, 29385), (484, 29295), (502, 29247), (532, 29166), (611, 28941), (637, 28854), (646, 28818), (656, 28788), (666, 28749), (676, 28728), (683, 28707), (691, 28689), (726, 28590), (737, 28563), (754, 28527), (760, 28509), (770, 28473), (812, 28314), (816, 28302), (820, 28293), (839, 28245), (854, 28215),

Gene: Surely_60 Start: 54325, Stop: 52466, Start Num: 149

Candidate Starts for Surely_60:

(Start: 133 @54349 has 1 MA's), (Start: 149 @54325 has 248 MA's), (Start: 174 @54301 has 5 MA's), (Start: 186 @54295 has 3 MA's), (205, 54253), (212, 54232), (254, 54118), (256, 54112), (269, 54082), (296, 54022), (306, 54001), (323, 53947), (327, 53935), (332, 53917), (335, 53905), (372, 53800), (389, 53743), (400, 53707), (402, 53695), (411, 53668), (421, 53641), (432, 53623), (442, 53605), (465, 53566), (469, 53557), (471, 53554), (576, 53296), (607, 53194), (612, 53161), (617, 53140), (647, 53047), (651, 53038), (668, 52975), (683, 52939), (685, 52936), (691, 52921), (717, 52843), (722, 52831), (730, 52810), (748, 52771), (775, 52681), (779, 52663), (781, 52657), (785, 52642), (793, 52618), (795, 52603), (796, 52600), (799, 52588), (809, 52564), (816, 52543), (830, 52516), (840, 52492),

Gene: Swann_36 Start: 28113, Stop: 26329, Start Num: 191

Candidate Starts for Swann_36:

(Start: 191 @28113 has 828 MA's), (288, 27879), (302, 27849), (306, 27840), (307, 27837), (319, 27792), (326, 27780), (340, 27729), (372, 27627), (380, 27606), (420, 27534), (444, 27489), (446, 27486), (466, 27444), (468, 27438), (476, 27423), (484, 27396), (523, 27291), (526, 27282), (534, 27264), (535, 27261), (556, 27225), (582, 27168), (611, 27045), (623, 26997), (656, 26892), (657, 26889), (676, 26832), (683, 26811), (700, 26763), (727, 26688), (758, 26619), (770, 26577), (775, 26553), (795, 26475), (812, 26418), (816, 26406), (820, 26397), (834, 26367), (839, 26349),

Gene: SweetiePie_44 Start: 31345, Stop: 29558, Start Num: 191

Candidate Starts for SweetiePie_44:

(Start: 191 @31345 has 828 MA's), (271, 31141), (272, 31138), (274, 31132), (283, 31117), (291, 31102), (307, 31069), (308, 31066), (314, 31039), (326, 31012), (331, 30991), (340, 30961), (372, 30859), (420, 30766), (446, 30718), (451, 30709), (458, 30694), (484, 30628), (515, 30547), (532, 30499), (534, 30493), (565, 30430), (592, 30355), (611, 30274), (625, 30223), (636, 30190), (637, 30187), (656, 30121), (666, 30082), (676, 30061), (701, 29986), (706, 29968), (726, 29923), (737, 29896), (754, 29860), (758, 29848), (760, 29842), (770, 29806), (775, 29782), (795, 29704), (812, 29647), (816, 29635), (820, 29626),

Gene: Swervy_43 Start: 29550, Stop: 31424, Start Num: 182

Candidate Starts for Swervy_43:

(Start: 179 @29547 has 7 MA's), (Start: 182 @29550 has 49 MA's), (216, 29619), (224, 29640), (271, 29757), (307, 29820), (328, 29886), (340, 29928), (476, 30222), (523, 30357), (564, 30456), (598, 30579), (611, 30639), (614, 30645), (625, 30690), (635, 30720), (644, 30756), (656, 30792), (680, 30885), (713, 30978), (747, 31056), (770, 31128), (778, 31167), (791, 31209), (794, 31227), (812, 31287), (820, 31308),

Gene: Swiphy_64 Start: 54569, Stop: 52710, Start Num: 149

Candidate Starts for Swiphy_64:

(Start: 133 @54593 has 1 MA's), (Start: 149 @54569 has 248 MA's), (Start: 174 @54545 has 5 MA's), (Start: 186 @54539 has 3 MA's), (205, 54497), (212, 54476), (254, 54362), (256, 54356), (269, 54326), (296, 54266), (306, 54245), (323, 54191), (327, 54179), (332, 54161), (335, 54149), (372, 54044), (389, 53987), (400, 53951), (402, 53939), (410, 53915), (414, 53903), (421, 53885), (432, 53867), (442, 53849), (465, 53810), (469, 53801), (471, 53798), (473, 53795), (607, 53438), (612, 53405), (617, 53384), (647, 53291), (651, 53282), (668, 53219), (683, 53183), (685, 53180), (691, 53165), (717, 53087), (722, 53075), (730, 53054), (748, 53015), (775, 52925), (779, 52907), (781, 52901), (785, 52886), (793, 52862), (795, 52847), (796, 52844), (799, 52832), (809, 52808), (830, 52760), (840, 52736),

Gene: SwirlSquare_48 Start: 30249, Stop: 28459, Start Num: 191

Candidate Starts for SwirlSquare_48:

(Start: 191 @30249 has 828 MA's), (271, 30045), (279, 30027), (297, 29991), (307, 29970), (308, 29967), (314, 29940), (318, 29928), (326, 29913), (331, 29892), (372, 29760), (420, 29667), (446, 29619), (484, 29529), (532, 29400), (611, 29175), (637, 29088), (646, 29052), (656, 29022), (666, 28983), (676, 28962), (683, 28941), (691, 28923), (726, 28824), (737, 28797), (754, 28761), (760, 28743), (770, 28707), (775, 28683), (812, 28548), (816, 28536), (820, 28527),

Gene: Swirley_41 Start: 30927, Stop: 29062, Start Num: 191

Candidate Starts for Swirley_41:

(Start: 191 @30927 has 828 MA's), (209, 30876), (235, 30816), (262, 30753), (271, 30723), (272, 30720), (302, 30663), (307, 30651), (314, 30621), (326, 30594), (372, 30441), (420, 30345), (446, 30297), (483, 30213), (484, 30207), (513, 30135), (523, 30102), (528, 30087), (534, 30075), (576, 29976), (611, 29841), (618, 29811), (623, 29793), (632, 29775), (637, 29754), (639, 29745), (656, 29688), (666, 29649), (683, 29607), (691, 29589), (704, 29541), (726, 29490), (750, 29436), (754, 29427), (760, 29409), (775, 29349), (779, 29331), (804, 29238), (812, 29214), (816, 29202), (859,

29097),

Gene: Swish_62 Start: 54299, Stop: 52440, Start Num: 149

Candidate Starts for Swish_62:

(Start: 133 @54323 has 1 MA's), (Start: 149 @54299 has 248 MA's), (Start: 174 @54275 has 5 MA's), (Start: 186 @54269 has 3 MA's), (205, 54227), (212, 54206), (254, 54092), (256, 54086), (269, 54056), (296, 53996), (306, 53975), (323, 53921), (327, 53909), (332, 53891), (335, 53879), (372, 53774), (389, 53717), (400, 53681), (402, 53669), (410, 53645), (414, 53633), (421, 53615), (432, 53597), (442, 53579), (465, 53540), (469, 53531), (471, 53528), (473, 53525), (607, 53168), (612, 53135), (617, 53114), (647, 53021), (651, 53012), (668, 52949), (683, 52913), (685, 52910), (691, 52895), (717, 52817), (722, 52805), (730, 52784), (748, 52745), (775, 52655), (779, 52637), (781, 52631), (785, 52616), (793, 52592), (795, 52577), (796, 52574), (799, 52562), (809, 52538), (830, 52490), (840, 52466),

Gene: SwissCheese_46 Start: 34979, Stop: 33153, Start Num: 191

Candidate Starts for SwissCheese_46:

(Start: 191 @34979 has 828 MA's), (274, 34766), (283, 34751), (314, 34673), (322, 34652), (326, 34646), (328, 34637), (365, 34520), (372, 34493), (420, 34400), (428, 34385), (439, 34364), (446, 34352), (470, 34301), (472, 34298), (494, 34232), (508, 34202), (518, 34172), (534, 34127), (556, 34088), (611, 33908), (623, 33860), (637, 33821), (656, 33755), (666, 33716), (676, 33695), (683, 33674), (691, 33656), (712, 33590), (770, 33440), (771, 33437), (778, 33401), (785, 33377), (788, 33368), (792, 33356), (812, 33281), (820, 33260),

Gene: Switzer_45 Start: 34442, Stop: 32616, Start Num: 191

Candidate Starts for Switzer_45:

(Start: 191 @34442 has 828 MA's), (274, 34229), (307, 34166), (314, 34136), (322, 34115), (326, 34109), (328, 34100), (365, 33983), (372, 33956), (420, 33863), (428, 33848), (470, 33764), (472, 33761), (494, 33695), (508, 33665), (518, 33635), (534, 33590), (556, 33551), (611, 33371), (623, 33323), (637, 33284), (656, 33218), (666, 33179), (676, 33158), (683, 33137), (691, 33119), (712, 33053), (770, 32903), (771, 32900), (778, 32864), (788, 32831), (792, 32819), (798, 32792), (812, 32744), (820, 32723),

Gene: Switzerland_47 Start: 30042, Stop: 28252, Start Num: 191

Candidate Starts for Switzerland_47:

(Start: 191 @30042 has 828 MA's), (262, 29868), (307, 29763), (308, 29760), (314, 29733), (326, 29706), (340, 29655), (372, 29553), (420, 29460), (444, 29415), (446, 29412), (451, 29403), (515, 29241), (523, 29214), (532, 29193), (534, 29187), (583, 29088), (592, 29049), (607, 28998), (611, 28968), (625, 28917), (636, 28884), (644, 28851), (646, 28845), (656, 28815), (676, 28755), (683, 28734), (698, 28692), (705, 28665), (712, 28650), (750, 28563), (770, 28500), (771, 28497), (812, 28341), (816, 28329), (821, 28317),

Gene: Swole_45 Start: 34149, Stop: 32320, Start Num: 191

Candidate Starts for Swole_45:

(Start: 191 @34149 has 828 MA's), (274, 33936), (283, 33921), (307, 33873), (314, 33843), (322, 33822), (326, 33816), (328, 33807), (365, 33690), (372, 33663), (420, 33570), (428, 33555), (439, 33534), (470, 33471), (472, 33468), (494, 33402), (508, 33372), (518, 33342), (534, 33297), (556, 33258), (611, 33078), (623, 33030), (639, 32982), (651, 32943), (656, 32925), (666, 32886), (676, 32865), (683, 32844), (690, 32829), (733, 32706), (789, 32535), (794, 32511), (808, 32463), (812, 32451), (820, 32430), (823, 32424), (842, 32376), (849, 32361),

Gene: SydNat_40 Start: 31117, Stop: 29252, Start Num: 191

Candidate Starts for SydNat_40:

(Start: 191 @31117 has 828 MA's), (209, 31066), (235, 31006), (262, 30943), (271, 30913), (272, 30910), (302, 30853), (314, 30811), (326, 30784), (372, 30631), (420, 30535), (438, 30502), (446, 30487), (483, 30403), (484, 30397), (496, 30364), (528, 30277), (534, 30265), (556, 30226), (576, 30166), (611, 30031), (618, 30001), (623, 29983), (636, 29947), (637, 29944), (656, 29878), (666, 29839), (683, 29797), (691, 29779), (704, 29731), (706, 29725), (726, 29680), (750, 29626), (754, 29617), (760, 29599), (779, 29521), (794, 29464), (804, 29428), (812, 29404), (816, 29392), (867, 29260),

Gene: SynergyX_58 Start: 53681, Stop: 51864, Start Num: 183

Candidate Starts for SynergyX_58:

(80, 53864), (Start: 183 @53681 has 42 MA's), (201, 53651), (274, 53471), (331, 53318), (334, 53306), (343, 53276), (349, 53270), (372, 53207), (375, 53201), (389, 53150), (400, 53114), (414, 53066), (471, 52961), (510, 52865), (533, 52814), (589, 52670), (601, 52631), (608, 52601), (612, 52574), (616, 52562), (645, 52466), (647, 52460), (651, 52451), (655, 52439), (674, 52367), (683, 52337), (691, 52319), (694, 52310), (717, 52241), (722, 52229), (730, 52208), (760, 52139), (765, 52124), (771, 52100), (775, 52079), (779, 52061), (781, 52055), (791, 52022), (793, 52016), (796, 51998), (799, 51986), (805, 51974), (809, 51962), (826, 51920), (840, 51890),

Gene: TA17A_57 Start: 52484, Stop: 50655, Start Num: 147

Candidate Starts for TA17A_57:

(Start: 147 @52484 has 31 MA's), (Start: 186 @52457 has 3 MA's), (202, 52427), (205, 52415), (215, 52388), (216, 52385), (221, 52376), (235, 52358), (272, 52262), (296, 52211), (307, 52187), (312, 52163), (358, 52025), (368, 52001), (372, 51989), (389, 51932), (400, 51896), (410, 51860), (456, 51776), (469, 51746), (471, 51743), (483, 51713), (542, 51569), (565, 51503), (589, 51452), (595, 51431), (601, 51413), (612, 51356), (633, 51299), (639, 51272), (647, 51242), (651, 51233), (668, 51167), (679, 51140), (683, 51131), (691, 51113), (698, 51089), (717, 51035), (722, 51023), (730, 51002), (760, 50933), (775, 50873), (779, 50855), (789, 50822), (793, 50810), (795, 50795), (796, 50792), (799, 50780), (809, 50756), (810, 50753), (830, 50705), (832, 50702), (840, 50681), (847, 50660),

Gene: TG1_31 Start: 25848, Stop: 27695, Start Num: 191

Candidate Starts for TG1_31:

(134, 25767), (146, 25788), (158, 25803), (167, 25821), (Start: 191 @25848 has 828 MA's), (207, 25890), (221, 25929), (233, 25953), (271, 26049), (296, 26097), (313, 26148), (322, 26172), (375, 26337), (423, 26427), (425, 26430), (454, 26484), (458, 26499), (470, 26526), (476, 26538), (481, 26553), (493, 26592), (528, 26685), (532, 26691), (559, 26748), (560, 26751), (606, 26916), (611, 26949), (623, 26997), (631, 27012), (644, 27066), (646, 27072), (654, 27093), (656, 27102), (661, 27117), (665, 27147), (691, 27228), (696, 27243), (748, 27378), (752, 27384), (754, 27390), (765, 27426), (778, 27486), (781, 27495), (785, 27510), (789, 27522), (791, 27528), (798, 27558), (812, 27606), (814, 27612), (820, 27627), (823, 27633),

Gene: TNguyen7_46 Start: 31522, Stop: 29684, Start Num: 191

Candidate Starts for TNguyen7_46:

(Start: 191 @31522 has 828 MA's), (209, 31471), (236, 31405), (271, 31318), (302, 31258), (307, 31246), (326, 31189), (328, 31180), (366, 31060), (372, 31036), (420, 30940), (448, 30892), (476, 30832), (498, 30769), (523, 30700), (532, 30679), (566, 30607), (582, 30565), (592, 30523), (611, 30442), (623, 30394), (646, 30319), (656, 30289), (664, 30259), (685, 30178), (698, 30139), (704, 30115), (712, 30097), (760, 29968), (775, 29908), (812, 29773), (816, 29761), (820, 29752),

Gene: TP1604_48 Start: 39372, Stop: 37372, Start Num: 93

Candidate Starts for TP1604_48:

(Start: 93 @39372 has 10 MA's), (Start: 132 @39303 has 1 MA's), (209, 39171), (211, 39165), (214, 39159), (238, 39111), (240, 39099), (242, 39093), (252, 39072), (257, 39057), (282, 38988), (333,

38847), (365, 38751), (391, 38664), (399, 38640), (403, 38628), (407, 38616), (437, 38547), (504, 38400), (548, 38295), (553, 38280), (580, 38223), (586, 38202), (599, 38160), (607, 38130), (612, 38097), (627, 38043), (640, 38013), (658, 37944), (663, 37923), (684, 37860), (692, 37842), (695, 37830), (701, 37806), (775, 37605), (776, 37602), (792, 37548), (795, 37530), (805, 37497), (813, 37473), (835, 37425),

Gene: TPA2_63 Start: 52427, Stop: 50550, Start Num: 177

Candidate Starts for TPA2_63:

(34, 52787), (85, 52604), (Start: 177 @52427 has 10 MA's), (Start: 186 @52418 has 3 MA's), (204, 52379), (223, 52337), (229, 52325), (235, 52319), (269, 52232), (272, 52223), (291, 52181), (305, 52154), (311, 52133), (338, 52043), (347, 52022), (353, 52004), (357, 51998), (366, 51980), (389, 51902), (400, 51866), (402, 51854), (403, 51851), (410, 51830), (461, 51734), (477, 51701), (494, 51647), (560, 51482), (587, 51431), (601, 51383), (612, 51326), (637, 51248), (639, 51239), (645, 51215), (647, 51209), (668, 51137), (683, 51101), (691, 51083), (710, 51023), (717, 51005), (722, 50993), (730, 50972), (733, 50963), (757, 50912), (789, 50792), (793, 50780), (805, 50732), (808, 50723), (809, 50720), (812, 50711), (816, 50699), (837, 50651), (852, 50612), (858, 50594),

Gene: TWAMP_36 Start: 28113, Stop: 26329, Start Num: 191

Candidate Starts for TWAMP_36:

(Start: 191 @28113 has 828 MA's), (288, 27879), (302, 27849), (306, 27840), (307, 27837), (319, 27792), (326, 27780), (340, 27729), (372, 27627), (380, 27606), (420, 27534), (444, 27489), (446, 27486), (466, 27444), (468, 27438), (476, 27423), (484, 27396), (523, 27291), (526, 27282), (534, 27264), (535, 27261), (556, 27225), (611, 27045), (623, 26997), (656, 26892), (657, 26889), (676, 26832), (683, 26811), (700, 26763), (727, 26688), (758, 26619), (770, 26577), (775, 26553), (795, 26475), (812, 26418), (816, 26406), (820, 26397), (834, 26367), (839, 26349),

Gene: Takoda_36 Start: 28086, Stop: 26302, Start Num: 191

Candidate Starts for Takoda_36:

(Start: 191 @28086 has 828 MA's), (261, 27915), (291, 27843), (306, 27813), (307, 27810), (319, 27765), (326, 27753), (328, 27744), (340, 27702), (372, 27600), (380, 27579), (404, 27549), (420, 27507), (446, 27459), (476, 27396), (484, 27369), (523, 27264), (526, 27255), (534, 27237), (556, 27198), (611, 27018), (623, 26970), (656, 26865), (657, 26862), (676, 26805), (683, 26784), (700, 26736), (727, 26661), (758, 26592), (770, 26550), (775, 26526), (795, 26448), (812, 26391), (816, 26379), (834, 26340), (839, 26322),

Gene: Talia1610_101 Start: 77815, Stop: 79611, Start Num: 194

Candidate Starts for Talia1610_101:

(Start: 194 @77815 has 1 MA's), (235, 77911), (327, 78127), (334, 78154), (336, 78160), (365, 78229), (376, 78265), (464, 78412), (465, 78418), (476, 78439), (481, 78454), (556, 78643), (572, 78688), (584, 78721), (588, 78739), (597, 78772), (609, 78811), (611, 78832), (614, 78838), (644, 78952), (665, 79036), (667, 79042), (669, 79054), (680, 79102), (686, 79114), (698, 79150), (708, 79183), (712, 79192), (730, 79237), (738, 79255), (770, 79360), (776, 79387), (779, 79402), (789, 79435), (794, 79459), (800, 79483), (812, 79519), (823, 79546),

Gene: TallGrassMM_60 Start: 53939, Stop: 52080, Start Num: 149

Candidate Starts for TallGrassMM_60:

(Start: 133 @53963 has 1 MA's), (Start: 149 @53939 has 248 MA's), (Start: 174 @53915 has 5 MA's), (Start: 186 @53909 has 3 MA's), (205, 53867), (212, 53846), (254, 53732), (256, 53726), (269, 53696), (296, 53636), (306, 53615), (323, 53561), (327, 53549), (332, 53531), (335, 53519), (372, 53414), (389, 53357), (400, 53321), (402, 53309), (411, 53282), (432, 53237), (465, 53180), (469, 53171), (471, 53168), (607, 52808), (612, 52775), (617, 52754), (647, 52661), (651, 52652), (668, 52589), (683, 52553), (685, 52550), (691, 52535), (717, 52457), (722, 52445), (730, 52424), (748, 52385), (775, 52295), (779, 52277), (781, 52271), (785, 52256), (793, 52232), (795, 52217), (796,

52214), (799, 52202), (809, 52178), (830, 52130), (840, 52106),

Gene: Tallboi_42 Start: 30542, Stop: 32407, Start Num: 191

Candidate Starts for Tallboi_42:

(Start: 191 @30542 has 828 MA's), (208, 30590), (262, 30716), (314, 30839), (343, 30929), (423, 31136), (428, 31145), (476, 31244), (481, 31259), (484, 31271), (532, 31397), (583, 31535), (611, 31655), (618, 31685), (637, 31742), (656, 31808), (680, 31901), (704, 31973), (752, 32081), (770, 32144), (812, 32303), (815, 32312),

Gene: Taquarus_45 Start: 31573, Stop: 29747, Start Num: 191

Candidate Starts for Taquarus_45:

(Start: 191 @31573 has 828 MA's), (201, 31552), (209, 31522), (221, 31492), (291, 31330), (300, 31312), (326, 31240), (328, 31231), (366, 31111), (372, 31087), (420, 30994), (448, 30946), (458, 30925), (476, 30886), (523, 30754), (532, 30733), (556, 30688), (559, 30676), (609, 30523), (611, 30502), (646, 30379), (656, 30349), (666, 30310), (683, 30244), (685, 30241), (691, 30226), (698, 30202), (704, 30178), (775, 29971), (812, 29836), (816, 29824), (820, 29815),

Gene: Target_45 Start: 33552, Stop: 31723, Start Num: 191

Candidate Starts for Target_45:

(Start: 191 @33552 has 828 MA's), (274, 33339), (283, 33324), (307, 33276), (314, 33246), (322, 33225), (326, 33219), (328, 33210), (365, 33093), (372, 33066), (420, 32973), (428, 32958), (446, 32925), (470, 32874), (472, 32871), (494, 32805), (518, 32745), (534, 32700), (556, 32661), (611, 32481), (623, 32433), (639, 32385), (651, 32346), (656, 32328), (666, 32289), (676, 32268), (683, 32247), (690, 32232), (733, 32109), (789, 31938), (794, 31914), (808, 31866), (812, 31854), (820, 31833), (823, 31827), (842, 31779), (849, 31764),

Gene: TarsusIV_42 Start: 31027, Stop: 29240, Start Num: 191

Candidate Starts for TarsusIV_42:

(Start: 191 @31027 has 828 MA's), (274, 30814), (283, 30799), (291, 30784), (307, 30751), (308, 30748), (314, 30721), (326, 30694), (328, 30685), (372, 30541), (420, 30448), (439, 30412), (446, 30400), (451, 30391), (458, 30376), (515, 30229), (532, 30181), (534, 30175), (611, 29956), (625, 29905), (636, 29872), (637, 29869), (656, 29803), (666, 29764), (676, 29743), (701, 29668), (704, 29656), (726, 29605), (754, 29542), (770, 29488), (775, 29464), (791, 29407), (795, 29386), (812, 29329), (816, 29317), (820, 29308),

Gene: Tarynearal_37 Start: 30369, Stop: 28504, Start Num: 191

Candidate Starts for Tarynearal_37:

(Start: 191 @30369 has 828 MA's), (209, 30318), (235, 30258), (262, 30195), (271, 30165), (272, 30162), (302, 30105), (307, 30093), (314, 30063), (326, 30036), (372, 29883), (420, 29787), (446, 29739), (483, 29655), (484, 29649), (513, 29577), (523, 29544), (528, 29529), (534, 29517), (576, 29418), (611, 29283), (618, 29253), (623, 29235), (625, 29232), (637, 29196), (639, 29187), (644, 29166), (647, 29157), (656, 29130), (657, 29127), (676, 29070), (683, 29049), (726, 28932), (750, 28878), (754, 28869), (760, 28851), (775, 28791), (779, 28773), (794, 28716), (804, 28680), (812, 28656), (816, 28644),

Gene: Tasp14_46 Start: 35011, Stop: 33185, Start Num: 191

Candidate Starts for Tasp14_46:

(Start: 191 @35011 has 828 MA's), (274, 34798), (283, 34783), (314, 34705), (322, 34684), (326, 34678), (328, 34669), (365, 34552), (372, 34525), (420, 34432), (428, 34417), (470, 34333), (472, 34330), (494, 34264), (508, 34234), (518, 34204), (534, 34159), (556, 34120), (611, 33940), (623, 33892), (637, 33853), (656, 33787), (666, 33748), (676, 33727), (683, 33706), (691, 33688), (712, 33622), (770, 33472), (771, 33469), (778, 33433), (785, 33409), (788, 33400), (792, 33388), (812, 33313), (820, 33292),

Gene: Taurus_49 Start: 31852, Stop: 30038, Start Num: 191

Candidate Starts for Taurus_49:

(Start: 191 @31852 has 828 MA's), (206, 31813), (209, 31801), (271, 31648), (276, 31633), (307, 31576), (326, 31519), (328, 31510), (340, 31468), (355, 31417), (372, 31366), (420, 31273), (446, 31225), (451, 31216), (458, 31201), (476, 31162), (484, 31135), (494, 31105), (528, 31012), (558, 30952), (565, 30937), (611, 30781), (637, 30694), (656, 30628), (666, 30589), (685, 30517), (698, 30478), (704, 30454), (712, 30436), (726, 30403), (737, 30376), (760, 30322), (775, 30262), (795, 30184), (812, 30127), (816, 30115), (820, 30106),

Gene: Tbone_40 Start: 29503, Stop: 31368, Start Num: 191

Candidate Starts for Tbone_40:

(Start: 191 @29503 has 828 MA's), (208, 29551), (314, 29800), (343, 29890), (423, 30097), (428, 30106), (472, 30196), (476, 30205), (481, 30220), (496, 30265), (515, 30310), (532, 30358), (559, 30415), (583, 30496), (611, 30616), (618, 30646), (637, 30703), (656, 30769), (663, 30793), (680, 30862), (704, 30934), (708, 30943), (752, 31042), (770, 31105), (775, 31129), (812, 31264), (815, 31273),

Gene: Telesworld_58 Start: 54144, Stop: 52285, Start Num: 149

Candidate Starts for Telesworld_58:

(Start: 133 @54168 has 1 MA's), (Start: 149 @54144 has 248 MA's), (Start: 174 @54120 has 5 MA's), (Start: 186 @54114 has 3 MA's), (205, 54072), (212, 54051), (254, 53937), (256, 53931), (269, 53901), (296, 53841), (306, 53820), (323, 53766), (327, 53754), (332, 53736), (335, 53724), (372, 53619), (389, 53562), (400, 53526), (402, 53514), (411, 53487), (432, 53442), (465, 53385), (469, 53376), (471, 53373), (607, 53013), (612, 52980), (617, 52959), (647, 52866), (651, 52857), (668, 52794), (683, 52758), (685, 52755), (691, 52740), (717, 52662), (722, 52650), (730, 52629), (748, 52590), (775, 52500), (779, 52482), (781, 52476), (785, 52461), (793, 52437), (795, 52422), (796, 52419), (799, 52407), (809, 52383), (830, 52335), (840, 52311),

Gene: Teodoridan_43 Start: 34199, Stop: 32412, Start Num: 191

Candidate Starts for Teodoridan_43:

(Start: 191 @34199 has 828 MA's), (274, 33986), (307, 33923), (314, 33893), (322, 33872), (326, 33866), (328, 33857), (365, 33740), (372, 33713), (420, 33620), (428, 33605), (439, 33584), (470, 33521), (472, 33518), (494, 33452), (508, 33422), (518, 33392), (534, 33347), (556, 33308), (611, 33128), (623, 33080), (637, 33041), (656, 32975), (679, 32903), (683, 32894), (712, 32810), (750, 32723), (785, 32597), (789, 32585), (812, 32501), (814, 32495),

Gene: Texage_43 Start: 31598, Stop: 29760, Start Num: 191

Candidate Starts for Texage_43:

(Start: 191 @31598 has 828 MA's), (209, 31547), (271, 31394), (307, 31322), (314, 31292), (326, 31265), (328, 31256), (372, 31112), (420, 31016), (448, 30968), (476, 30908), (509, 30821), (523, 30776), (532, 30755), (566, 30683), (582, 30641), (592, 30599), (611, 30518), (623, 30470), (637, 30431), (646, 30395), (656, 30365), (664, 30335), (685, 30254), (698, 30215), (704, 30191), (712, 30173), (713, 30170), (760, 30044), (775, 29984), (798, 29897), (812, 29849), (816, 29837), (820, 29828),

Gene: TforTroy_42 Start: 29677, Stop: 31542, Start Num: 191

Candidate Starts for TforTroy_42:

(Start: 191 @29677 has 828 MA's), (208, 29725), (322, 29995), (351, 30094), (428, 30280), (476, 30379), (481, 30394), (484, 30406), (532, 30532), (583, 30670), (611, 30790), (618, 30820), (637, 30877), (656, 30943), (680, 31036), (770, 31279), (812, 31438), (815, 31447),

Gene: Thanksgivukkah_44 Start: 31568, Stop: 29742, Start Num: 191

Candidate Starts for Thanksgivukkah_44:

(Start: 191 @31568 has 828 MA's), (201, 31547), (209, 31517), (221, 31487), (291, 31325), (300, 31307), (307, 31292), (326, 31235), (328, 31226), (366, 31106), (372, 31082), (420, 30989), (448, 30941), (458, 30920), (476, 30881), (523, 30749), (532, 30728), (556, 30683), (559, 30671), (609, 30518), (611, 30497), (646, 30374), (656, 30344), (666, 30305), (683, 30239), (685, 30236), (691, 30221), (698, 30197), (704, 30173), (775, 29966), (812, 29831), (816, 29819), (820, 29810),

Gene: Theia_36 Start: 30392, Stop: 28533, Start Num: 191

Candidate Starts for Theia_36:

(Start: 191 @30392 has 828 MA's), (209, 30341), (235, 30281), (262, 30218), (271, 30188), (272, 30185), (302, 30128), (314, 30086), (326, 30059), (372, 29906), (420, 29810), (446, 29762), (483, 29678), (484, 29672), (513, 29600), (523, 29567), (528, 29552), (534, 29540), (576, 29441), (611, 29306), (618, 29276), (623, 29258), (625, 29255), (637, 29219), (639, 29210), (644, 29189), (647, 29180), (656, 29153), (657, 29150), (676, 29093), (683, 29072), (726, 28955), (750, 28901), (754, 28892), (760, 28874), (779, 28796), (804, 28703), (812, 28679), (816, 28667), (865, 28550), (866, 28547),

Gene: TheloniousMonk_46 Start: 36133, Stop: 34346, Start Num: 191

Candidate Starts for TheloniousMonk_46:

(Start: 191 @36133 has 828 MA's), (274, 35920), (283, 35905), (314, 35827), (322, 35806), (326, 35800), (328, 35791), (365, 35674), (372, 35647), (420, 35554), (428, 35539), (446, 35506), (470, 35455), (472, 35452), (490, 35398), (494, 35386), (508, 35356), (518, 35326), (534, 35281), (556, 35242), (611, 35062), (623, 35014), (637, 34975), (656, 34909), (679, 34837), (683, 34828), (712, 34744), (750, 34657), (785, 34531), (789, 34519), (812, 34435), (814, 34429),

Gene: Thonko_60 Start: 53153, Stop: 51336, Start Num: 172

Candidate Starts for Thonko_60:

(Start: 172 @53153 has 1 MA's), (Start: 186 @53135 has 3 MA's), (201, 53108), (243, 52991), (272, 52925), (372, 52664), (389, 52607), (400, 52571), (402, 52559), (414, 52523), (429, 52490), (465, 52430), (469, 52421), (471, 52418), (542, 52244), (589, 52127), (596, 52103), (608, 52058), (612, 52031), (617, 52010), (645, 51923), (647, 51917), (651, 51908), (668, 51845), (685, 51806), (688, 51800), (691, 51791), (717, 51713), (722, 51701), (730, 51680), (735, 51668), (748, 51641), (768, 51584), (775, 51551), (781, 51527), (793, 51488), (809, 51434), (840, 51362),

Gene: Thor_43 Start: 33796, Stop: 31970, Start Num: 191

Candidate Starts for Thor_43:

(Start: 191 @33796 has 828 MA's), (274, 33583), (283, 33568), (314, 33490), (322, 33469), (326, 33463), (328, 33454), (365, 33337), (372, 33310), (420, 33217), (428, 33202), (470, 33118), (472, 33115), (494, 33049), (508, 33019), (518, 32989), (534, 32944), (556, 32905), (611, 32725), (623, 32677), (637, 32638), (656, 32572), (666, 32533), (676, 32512), (683, 32491), (691, 32473), (712, 32407), (770, 32257), (771, 32254), (778, 32218), (788, 32185), (792, 32173), (803, 32125), (812, 32098), (820, 32077),

Gene: Thora_60 Start: 54321, Stop: 52462, Start Num: 149

Candidate Starts for Thora_60:

(Start: 133 @54345 has 1 MA's), (Start: 149 @54321 has 248 MA's), (Start: 174 @54297 has 5 MA's), (Start: 186 @54291 has 3 MA's), (205, 54249), (212, 54228), (254, 54114), (256, 54108), (269, 54078), (296, 54018), (306, 53997), (323, 53943), (327, 53931), (332, 53913), (335, 53901), (372, 53796), (389, 53739), (400, 53703), (402, 53691), (411, 53664), (421, 53637), (432, 53619), (442, 53601), (465, 53562), (469, 53553), (471, 53550), (576, 53292), (607, 53190), (612, 53157), (617, 53136), (647, 53043), (651, 53034), (668, 52971), (683, 52935), (685, 52932), (691, 52917), (717, 52839), (722, 52827), (730, 52806), (748, 52767), (775, 52677), (779, 52659), (781, 52653), (785, 52638), (793, 52614), (795, 52599), (796, 52596), (799, 52584), (809, 52560), (830, 52512), (840,

52488),

Gene: ThreeOh3D2_62 Start: 54542, Stop: 52683, Start Num: 149

Candidate Starts for ThreeOh3D2_62:

(Start: 133 @54566 has 1 MA's), (Start: 149 @54542 has 248 MA's), (Start: 174 @54518 has 5 MA's), (Start: 186 @54512 has 3 MA's), (205, 54470), (212, 54449), (254, 54335), (256, 54329), (269, 54299), (296, 54239), (306, 54218), (323, 54164), (327, 54152), (332, 54134), (335, 54122), (372, 54017), (389, 53960), (400, 53924), (402, 53912), (411, 53885), (421, 53858), (432, 53840), (442, 53822), (465, 53783), (469, 53774), (471, 53771), (473, 53768), (607, 53411), (612, 53378), (617, 53357), (647, 53264), (651, 53255), (668, 53192), (683, 53156), (685, 53153), (691, 53138), (717, 53060), (722, 53048), (730, 53027), (748, 52988), (775, 52898), (779, 52880), (781, 52874), (785, 52859), (793, 52835), (795, 52820), (796, 52817), (799, 52805), (809, 52781), (830, 52733), (840, 52709),

Gene: Thunderbird_61 Start: 54275, Stop: 52416, Start Num: 149

Candidate Starts for Thunderbird_61:

(Start: 133 @54299 has 1 MA's), (Start: 149 @54275 has 248 MA's), (Start: 174 @54251 has 5 MA's), (Start: 186 @54245 has 3 MA's), (205, 54203), (212, 54182), (254, 54068), (256, 54062), (269, 54032), (296, 53972), (306, 53951), (323, 53897), (327, 53885), (332, 53867), (335, 53855), (372, 53750), (389, 53693), (400, 53657), (402, 53645), (411, 53618), (432, 53573), (465, 53516), (469, 53507), (471, 53504), (607, 53144), (612, 53111), (617, 53090), (647, 52997), (651, 52988), (668, 52925), (683, 52889), (685, 52886), (691, 52871), (717, 52793), (722, 52781), (730, 52760), (748, 52721), (775, 52631), (779, 52613), (781, 52607), (785, 52592), (793, 52568), (795, 52553), (796, 52550), (799, 52538), (809, 52514), (830, 52466), (840, 52442), (845, 52427),

Gene: Thunderclap_54 Start: 36908, Stop: 34740, Start Num: 86

Candidate Starts for Thunderclap_54:

(85, 36911), (Start: 86 @36908 has 11 MA's), (106, 36854), (160, 36770), (235, 36617), (237, 36608), (253, 36563), (278, 36485), (287, 36476), (294, 36461), (301, 36446), (303, 36443), (323, 36386), (346, 36293), (362, 36251), (422, 36056), (430, 36044), (434, 36038), (449, 36014), (459, 35993), (468, 35972), (476, 35957), (479, 35951), (500, 35888), (517, 35837), (550, 35750), (571, 35690), (591, 35642), (615, 35540), (616, 35534), (620, 35507), (621, 35504), (629, 35483), (641, 35441), (643, 35435), (650, 35411), (659, 35369), (660, 35366), (665, 35339), (674, 35306), (677, 35294), (692, 35258), (698, 35234), (700, 35228), (701, 35222), (723, 35168), (744, 35120), (746, 35117), (764, 35057), (770, 35033), (777, 35003), (790, 34949), (809, 34880), (813, 34868), (828, 34829),

Gene: Tian_39 Start: 30363, Stop: 32228, Start Num: 191

Candidate Starts for Tian_39:

(Start: 132 @30285 has 1 MA's), (Start: 191 @30363 has 828 MA's), (208, 30411), (262, 30537), (271, 30567), (290, 30594), (293, 30600), (314, 30660), (343, 30750), (423, 30957), (428, 30966), (476, 31065), (481, 31080), (532, 31218), (583, 31356), (606, 31443), (611, 31476), (631, 31539), (637, 31563), (654, 31620), (656, 31629), (680, 31722), (704, 31794), (752, 31902), (770, 31965), (775, 31989), (812, 32124), (815, 32133),

Gene: Tiffany_48 Start: 31738, Stop: 29924, Start Num: 191

Candidate Starts for Tiffany_48:

(Start: 191 @31738 has 828 MA's), (206, 31699), (209, 31687), (271, 31534), (276, 31519), (307, 31462), (326, 31405), (328, 31396), (340, 31354), (355, 31303), (372, 31252), (420, 31159), (446, 31111), (451, 31102), (458, 31087), (476, 31048), (484, 31021), (494, 30991), (528, 30898), (558, 30838), (565, 30823), (611, 30667), (637, 30580), (656, 30514), (666, 30475), (685, 30403), (698, 30364), (704, 30340), (712, 30322), (726, 30289), (737, 30262), (760, 30208), (775, 30148), (795, 30070), (812, 30013), (816, 30001), (820, 29992),

Gene: Tiger_37 Start: 29925, Stop: 28066, Start Num: 191

Candidate Starts for Tiger_37:

(Start: 191 @29925 has 828 MA's), (209, 29874), (235, 29814), (262, 29751), (271, 29721), (272, 29718), (302, 29661), (307, 29649), (314, 29619), (326, 29592), (372, 29439), (420, 29343), (446, 29295), (457, 29274), (483, 29211), (484, 29205), (513, 29133), (523, 29100), (528, 29085), (534, 29073), (576, 28974), (611, 28839), (618, 28809), (623, 28791), (632, 28773), (637, 28752), (639, 28743), (656, 28686), (666, 28647), (683, 28605), (691, 28587), (704, 28539), (726, 28488), (750, 28434), (754, 28425), (760, 28407), (775, 28347), (779, 28329), (804, 28236), (812, 28212), (816, 28200), (865, 28083), (866, 28080),

Gene: Timmi_59 Start: 54024, Stop: 52165, Start Num: 149

Candidate Starts for Timmi_59:

(Start: 133 @54048 has 1 MA's), (Start: 149 @54024 has 248 MA's), (Start: 174 @54000 has 5 MA's), (Start: 186 @53994 has 3 MA's), (205, 53952), (212, 53931), (254, 53817), (256, 53811), (269, 53781), (296, 53721), (306, 53700), (323, 53646), (327, 53634), (332, 53616), (335, 53604), (372, 53499), (389, 53442), (400, 53406), (402, 53394), (411, 53367), (432, 53322), (465, 53265), (469, 53256), (471, 53253), (607, 52893), (612, 52860), (617, 52839), (647, 52746), (651, 52737), (668, 52674), (683, 52638), (685, 52635), (691, 52620), (717, 52542), (722, 52530), (730, 52509), (748, 52470), (775, 52380), (779, 52362), (781, 52356), (785, 52341), (793, 52317), (795, 52302), (796, 52299), (799, 52287), (809, 52263), (830, 52215), (840, 52191),

Gene: Timothy_45 Start: 30689, Stop: 28902, Start Num: 191

Candidate Starts for Timothy_45:

(Start: 191 @30689 has 828 MA's), (271, 30485), (307, 30413), (314, 30383), (326, 30356), (423, 30104), (451, 30053), (484, 29972), (501, 29927), (532, 29843), (559, 29786), (581, 29744), (592, 29699), (611, 29618), (625, 29567), (637, 29531), (656, 29465), (676, 29405), (679, 29393), (716, 29291), (726, 29267), (732, 29249), (760, 29186), (768, 29159), (770, 29150), (775, 29126), (812, 28991), (816, 28979), (820, 28970),

Gene: Timshel_43 Start: 33330, Stop: 31495, Start Num: 191

Candidate Starts for Timshel_43:

(Start: 191 @33330 has 828 MA's), (235, 33219), (274, 33117), (295, 33081), (306, 33057), (322, 33003), (326, 32997), (331, 32976), (355, 32895), (372, 32844), (415, 32763), (420, 32748), (435, 32721), (444, 32703), (448, 32700), (458, 32679), (476, 32640), (498, 32577), (522, 32511), (523, 32508), (532, 32487), (572, 32397), (582, 32376), (592, 32334), (611, 32253), (623, 32205), (639, 32157), (646, 32130), (656, 32100), (666, 32061), (683, 31992), (685, 31989), (691, 31974), (698, 31950), (712, 31908), (760, 31779), (768, 31752), (775, 31719), (779, 31701), (789, 31668), (812, 31584), (816, 31572), (820, 31563),

Gene: TinaFeyge_45 Start: 31565, Stop: 29739, Start Num: 191

Candidate Starts for TinaFeyge_45:

(Start: 191 @31565 has 828 MA's), (201, 31544), (209, 31514), (221, 31484), (291, 31322), (300, 31304), (326, 31232), (328, 31223), (366, 31103), (372, 31079), (420, 30986), (448, 30938), (458, 30917), (476, 30878), (523, 30746), (532, 30725), (556, 30680), (559, 30668), (609, 30515), (611, 30494), (646, 30371), (656, 30341), (666, 30302), (683, 30236), (685, 30233), (691, 30218), (698, 30194), (704, 30170), (775, 29963), (812, 29828), (816, 29816), (820, 29807),

Gene: Tinciduntolum_58 Start: 52640, Stop: 50811, Start Num: 147

Candidate Starts for Tinciduntolum_58:

(Start: 147 @52640 has 31 MA's), (Start: 186 @52613 has 3 MA's), (202, 52583), (205, 52571), (215, 52544), (216, 52541), (221, 52532), (235, 52514), (272, 52418), (296, 52367), (307, 52343), (358, 52181), (366, 52166), (368, 52157), (372, 52145), (389, 52088), (400, 52052), (402, 52040), (410, 52016), (456, 51932), (469, 51902), (471, 51899), (483, 51869), (542, 51725), (565, 51659), (586,

51620), (589, 51608), (595, 51587), (601, 51569), (612, 51512), (633, 51455), (639, 51428), (647, 51398), (651, 51389), (668, 51323), (679, 51296), (683, 51287), (691, 51269), (698, 51245), (717, 51191), (722, 51179), (730, 51158), (760, 51089), (775, 51029), (779, 51011), (789, 50978), (793, 50966), (795, 50951), (796, 50948), (799, 50936), (809, 50912), (810, 50909), (830, 50861), (832, 50858), (840, 50837), (847, 50816),

Gene: TinyTimmy_44 Start: 30732, Stop: 28945, Start Num: 191

Candidate Starts for TinyTimmy_44:

(Start: 191 @30732 has 828 MA's), (271, 30528), (307, 30456), (314, 30426), (326, 30399), (423, 30147), (451, 30096), (484, 30015), (501, 29970), (532, 29886), (559, 29829), (581, 29787), (592, 29742), (611, 29661), (625, 29610), (637, 29574), (656, 29508), (676, 29448), (679, 29436), (716, 29334), (726, 29310), (732, 29292), (760, 29229), (768, 29202), (770, 29193), (775, 29169), (812, 29034), (816, 29022), (820, 29013),

Gene: Tinybot_44 Start: 31597, Stop: 29771, Start Num: 191

Candidate Starts for Tinybot_44:

(Start: 191 @31597 has 828 MA's), (201, 31576), (209, 31546), (221, 31516), (291, 31354), (300, 31336), (326, 31264), (328, 31255), (366, 31135), (372, 31111), (420, 31018), (448, 30970), (458, 30949), (476, 30910), (523, 30778), (532, 30757), (556, 30712), (559, 30700), (609, 30547), (611, 30526), (646, 30403), (656, 30373), (666, 30334), (683, 30268), (685, 30265), (691, 30250), (698, 30226), (704, 30202), (775, 29995), (812, 29860), (816, 29848), (820, 29839),

Gene: TipsytheTRex_42 Start: 30574, Stop: 28787, Start Num: 190

Candidate Starts for TipsytheTRex_42:

(Start: 190 @30574 has 8 MA's), (271, 30370), (272, 30367), (274, 30361), (283, 30346), (291, 30331), (307, 30298), (314, 30268), (326, 30241), (331, 30220), (340, 30190), (372, 30088), (420, 29995), (446, 29947), (451, 29938), (458, 29923), (484, 29857), (515, 29776), (532, 29728), (556, 29683), (611, 29503), (623, 29455), (625, 29452), (637, 29416), (656, 29350), (666, 29311), (676, 29290), (701, 29215), (706, 29197), (726, 29152), (737, 29125), (754, 29089), (760, 29071), (770, 29035), (775, 29011), (795, 28933), (812, 28876), (816, 28864), (820, 28855), (821, 28852),

Gene: TiroTheta9_45 Start: 31564, Stop: 29738, Start Num: 191

Candidate Starts for TiroTheta9_45:

(Start: 191 @31564 has 828 MA's), (201, 31543), (209, 31513), (221, 31483), (291, 31321), (300, 31303), (326, 31231), (328, 31222), (366, 31102), (372, 31078), (420, 30985), (448, 30937), (458, 30916), (476, 30877), (523, 30745), (532, 30724), (556, 30679), (559, 30667), (609, 30514), (611, 30493), (646, 30370), (656, 30340), (666, 30301), (683, 30235), (685, 30232), (691, 30217), (698, 30193), (704, 30169), (775, 29962), (812, 29827), (816, 29815), (820, 29806),

Gene: Toaka_44 Start: 30969, Stop: 29176, Start Num: 190

Candidate Starts for Toaka_44:

(Start: 190 @30969 has 8 MA's), (196, 30960), (261, 30798), (262, 30795), (271, 30765), (288, 30732), (308, 30687), (314, 30660), (319, 30645), (326, 30633), (340, 30582), (366, 30504), (372, 30480), (420, 30387), (451, 30330), (494, 30219), (530, 30123), (579, 30021), (582, 30015), (611, 29892), (639, 29796), (646, 29769), (651, 29757), (656, 29739), (683, 29658), (726, 29541), (770, 29424), (812, 29265), (816, 29253),

Gene: Todacoro_44 Start: 31597, Stop: 29759, Start Num: 191

Candidate Starts for Todacoro_44:

(Start: 191 @31597 has 828 MA's), (209, 31546), (271, 31393), (307, 31321), (314, 31291), (326, 31264), (328, 31255), (372, 31111), (420, 31015), (448, 30967), (476, 30907), (509, 30820), (523, 30775), (532, 30754), (566, 30682), (582, 30640), (592, 30598), (611, 30517), (623, 30469), (637, 30430), (646, 30394), (656, 30364), (664, 30334), (685, 30253), (698, 30214), (704, 30190), (712,

30172), (713, 30169), (760, 30043), (775, 29983), (798, 29896), (812, 29848), (816, 29836), (820, 29827),

Gene: TomBombadil_60 Start: 54309, Stop: 52450, Start Num: 149

Candidate Starts for TomBombadil_60:

(Start: 133 @54333 has 1 MA's), (Start: 149 @54309 has 248 MA's), (Start: 174 @54285 has 5 MA's), (Start: 186 @54279 has 3 MA's), (205, 54237), (212, 54216), (254, 54102), (256, 54096), (269, 54066), (296, 54006), (306, 53985), (323, 53931), (327, 53919), (332, 53901), (335, 53889), (372, 53784), (389, 53727), (400, 53691), (402, 53679), (411, 53652), (421, 53625), (432, 53607), (442, 53589), (465, 53550), (469, 53541), (471, 53538), (576, 53280), (607, 53178), (612, 53145), (617, 53124), (647, 53031), (651, 53022), (668, 52959), (683, 52923), (685, 52920), (691, 52905), (717, 52827), (722, 52815), (730, 52794), (748, 52755), (775, 52665), (779, 52647), (781, 52641), (785, 52626), (793, 52602), (795, 52587), (796, 52584), (799, 52572), (809, 52548), (830, 52500), (840, 52476),

Gene: Tomathan_47 Start: 31153, Stop: 29330, Start Num: 191

Candidate Starts for Tomathan_47:

(Start: 191 @31153 has 828 MA's), (271, 30949), (283, 30925), (291, 30907), (300, 30889), (307, 30874), (308, 30871), (314, 30844), (326, 30817), (340, 30766), (372, 30664), (420, 30571), (446, 30523), (451, 30514), (457, 30502), (458, 30499), (484, 30433), (508, 30373), (556, 30259), (565, 30235), (581, 30196), (611, 30070), (625, 30019), (637, 29983), (656, 29917), (666, 29878), (685, 29809), (698, 29770), (713, 29725), (726, 29695), (754, 29632), (758, 29620), (760, 29614), (775, 29554), (812, 29419), (816, 29407), (820, 29398),

Gene: Tomlarah_61 Start: 54878, Stop: 53019, Start Num: 149

Candidate Starts for Tomlarah_61:

(Start: 133 @54902 has 1 MA's), (Start: 149 @54878 has 248 MA's), (Start: 174 @54854 has 5 MA's), (Start: 186 @54848 has 3 MA's), (205, 54806), (212, 54785), (254, 54671), (256, 54665), (269, 54635), (296, 54575), (306, 54554), (323, 54500), (327, 54488), (332, 54470), (335, 54458), (372, 54353), (389, 54296), (400, 54260), (402, 54248), (411, 54221), (421, 54194), (432, 54176), (442, 54158), (465, 54119), (469, 54110), (471, 54107), (576, 53849), (607, 53747), (612, 53714), (617, 53693), (647, 53600), (651, 53591), (668, 53528), (683, 53492), (685, 53489), (691, 53474), (717, 53396), (722, 53384), (730, 53363), (748, 53324), (775, 53234), (779, 53216), (781, 53210), (785, 53195), (793, 53171), (795, 53156), (796, 53153), (799, 53141), (809, 53117), (830, 53069), (840, 53045),

Gene: ToneTone_42 Start: 29354, Stop: 27513, Start Num: 191

Candidate Starts for ToneTone_42:

(Start: 170 @29384 has 3 MA's), (Start: 191 @29354 has 828 MA's), (271, 29150), (307, 29075), (308, 29072), (314, 29045), (319, 29030), (326, 29018), (340, 28967), (368, 28877), (372, 28865), (420, 28772), (441, 28733), (451, 28715), (458, 28700), (484, 28634), (496, 28601), (498, 28598), (535, 28496), (565, 28436), (592, 28352), (611, 28271), (636, 28187), (637, 28184), (639, 28175), (646, 28148), (656, 28118), (676, 28058), (691, 28019), (770, 27803), (771, 27800), (775, 27779), (812, 27644), (816, 27632), (820, 27623), (821, 27620), (859, 27527),

Gene: Toni_60 Start: 54471, Stop: 52612, Start Num: 149

Candidate Starts for Toni_60:

(Start: 133 @54495 has 1 MA's), (Start: 149 @54471 has 248 MA's), (Start: 174 @54447 has 5 MA's), (Start: 186 @54441 has 3 MA's), (205, 54399), (212, 54378), (254, 54264), (256, 54258), (269, 54228), (296, 54168), (306, 54147), (323, 54093), (327, 54081), (332, 54063), (335, 54051), (372, 53946), (389, 53889), (400, 53853), (402, 53841), (411, 53814), (421, 53787), (432, 53769), (442, 53751), (465, 53712), (469, 53703), (471, 53700), (473, 53697), (607, 53340), (612, 53307), (617, 53286), (647, 53193), (651, 53184), (668, 53121), (683, 53085), (685, 53082), (691, 53067), (717,

52989), (722, 52977), (730, 52956), (748, 52917), (775, 52827), (779, 52809), (781, 52803), (785, 52788), (793, 52764), (795, 52749), (796, 52746), (799, 52734), (809, 52710), (830, 52662), (840, 52638),

Gene: Tooj_59 Start: 53694, Stop: 51835, Start Num: 149

Candidate Starts for Tooj_59:

(Start: 133 @53718 has 1 MA's), (Start: 149 @53694 has 248 MA's), (Start: 174 @53670 has 5 MA's), (Start: 186 @53664 has 3 MA's), (205, 53622), (212, 53601), (254, 53487), (256, 53481), (269, 53451), (296, 53391), (306, 53370), (323, 53316), (327, 53304), (332, 53286), (335, 53274), (372, 53169), (389, 53112), (400, 53076), (402, 53064), (411, 53037), (414, 53028), (432, 52992), (465, 52935), (469, 52926), (471, 52923), (473, 52920), (607, 52563), (612, 52530), (617, 52509), (647, 52416), (651, 52407), (668, 52344), (683, 52308), (685, 52305), (691, 52290), (717, 52212), (722, 52200), (730, 52179), (748, 52140), (775, 52050), (779, 52032), (781, 52026), (785, 52011), (793, 51987), (795, 51972), (796, 51969), (799, 51957), (809, 51933), (830, 51885), (840, 51861),

Gene: Topanga_42 Start: 31142, Stop: 29307, Start Num: 191

Candidate Starts for Topanga_42:

(Start: 191 @31142 has 828 MA's), (209, 31091), (236, 31025), (271, 30938), (283, 30914), (302, 30878), (307, 30866), (326, 30809), (328, 30800), (351, 30716), (366, 30680), (368, 30668), (372, 30656), (420, 30563), (448, 30515), (476, 30455), (484, 30428), (522, 30326), (523, 30323), (532, 30302), (534, 30296), (582, 30188), (611, 30065), (623, 30017), (646, 29942), (656, 29912), (664, 29882), (666, 29873), (683, 29804), (685, 29801), (698, 29762), (704, 29738), (706, 29732), (712, 29720), (775, 29531), (781, 29507), (798, 29444), (812, 29396), (816, 29384), (820, 29375),

Gene: Topgun_44 Start: 34288, Stop: 32462, Start Num: 191

Candidate Starts for Topgun_44:

(Start: 191 @34288 has 828 MA's), (274, 34075), (283, 34060), (307, 34012), (314, 33982), (322, 33961), (326, 33955), (328, 33946), (365, 33829), (372, 33802), (420, 33709), (428, 33694), (470, 33610), (472, 33607), (494, 33541), (508, 33511), (518, 33481), (534, 33436), (556, 33397), (611, 33217), (623, 33169), (637, 33130), (656, 33064), (666, 33025), (676, 33004), (683, 32983), (691, 32965), (712, 32899), (770, 32749), (771, 32746), (778, 32710), (785, 32686), (788, 32677), (792, 32665), (803, 32617), (812, 32590), (820, 32569),

Gene: Tote_40 Start: 31416, Stop: 29587, Start Num: 191

Candidate Starts for Tote_40:

(Start: 191 @31416 has 828 MA's), (274, 31203), (283, 31188), (307, 31140), (314, 31110), (322, 31089), (326, 31083), (328, 31074), (365, 30957), (372, 30930), (420, 30837), (428, 30822), (439, 30801), (470, 30738), (472, 30735), (494, 30669), (508, 30639), (518, 30609), (534, 30564), (556, 30525), (611, 30345), (623, 30297), (639, 30249), (651, 30210), (656, 30192), (666, 30153), (676, 30132), (683, 30111), (690, 30096), (733, 29973), (789, 29802), (794, 29778), (808, 29730), (812, 29718), (820, 29697), (823, 29691), (842, 29643), (849, 29628),

Gene: Traft412_45 Start: 35231, Stop: 33405, Start Num: 191

Candidate Starts for Traft412_45:

(Start: 191 @35231 has 828 MA's), (274, 35018), (283, 35003), (314, 34925), (322, 34904), (326, 34898), (328, 34889), (365, 34772), (372, 34745), (420, 34652), (428, 34637), (439, 34616), (470, 34553), (472, 34550), (490, 34496), (494, 34484), (508, 34454), (518, 34424), (534, 34379), (556, 34340), (611, 34160), (623, 34112), (637, 34073), (656, 34007), (666, 33968), (676, 33947), (683, 33926), (691, 33908), (712, 33842), (770, 33692), (771, 33689), (778, 33653), (785, 33629), (788, 33620), (792, 33608), (798, 33581), (812, 33533), (820, 33512),

Gene: Treddle_46 Start: 35746, Stop: 33920, Start Num: 191

Candidate Starts for Treddle_46:

(Start: 191 @35746 has 828 MA's), (274, 35533), (283, 35518), (307, 35470), (314, 35440), (322, 35419), (326, 35413), (328, 35404), (365, 35287), (372, 35260), (420, 35167), (428, 35152), (470, 35068), (472, 35065), (494, 34999), (508, 34969), (518, 34939), (534, 34894), (556, 34855), (611, 34675), (623, 34627), (637, 34588), (656, 34522), (683, 34441), (685, 34438), (712, 34357), (770, 34207), (771, 34204), (778, 34168), (785, 34144), (788, 34135), (792, 34123), (812, 34048), (820, 34027),

Gene: Tres_57 Start: 52494, Stop: 50665, Start Num: 147

Candidate Starts for Tres_57:

(Start: 147 @52494 has 31 MA's), (Start: 186 @52467 has 3 MA's), (202, 52437), (205, 52425), (215, 52398), (216, 52395), (221, 52386), (235, 52368), (272, 52272), (296, 52221), (307, 52197), (358, 52035), (368, 52011), (372, 51999), (389, 51942), (400, 51906), (402, 51894), (410, 51870), (456, 51786), (469, 51756), (471, 51753), (483, 51723), (542, 51579), (565, 51513), (586, 51474), (589, 51462), (595, 51441), (601, 51423), (612, 51366), (633, 51309), (639, 51282), (647, 51252), (651, 51243), (668, 51177), (679, 51150), (683, 51141), (691, 51123), (698, 51099), (717, 51045), (722, 51033), (730, 51012), (760, 50943), (775, 50883), (779, 50865), (789, 50832), (793, 50820), (795, 50805), (796, 50802), (799, 50790), (809, 50766), (810, 50763), (830, 50715), (832, 50712), (840, 50691), (847, 50670),

Gene: Trike_42 Start: 30393, Stop: 28561, Start Num: 191

Candidate Starts for Trike_42:

(Start: 191 @30393 has 828 MA's), (209, 30342), (236, 30276), (271, 30189), (274, 30180), (302, 30129), (307, 30117), (326, 30060), (347, 29979), (351, 29967), (355, 29958), (366, 29931), (372, 29907), (420, 29814), (441, 29775), (476, 29706), (484, 29679), (534, 29547), (611, 29319), (632, 29253), (646, 29196), (656, 29166), (666, 29127), (685, 29055), (691, 29040), (698, 29016), (712, 28974), (726, 28941), (775, 28785), (781, 28761), (798, 28698), (812, 28650), (816, 28638), (820, 28629),

Gene: Trine_42 Start: 34854, Stop: 32935, Start Num: 112

Candidate Starts for Trine_42:

(Start: 112 @34854 has 1 MA's), (139, 34812), (155, 34788), (Start: 180 @34758 has 7 MA's), (202, 34722), (205, 34710), (216, 34680), (270, 34560), (297, 34500), (312, 34455), (323, 34428), (335, 34389), (339, 34377), (359, 34326), (372, 34293), (384, 34260), (388, 34242), (400, 34203), (438, 34107), (457, 34080), (465, 34062), (471, 34050), (483, 34020), (560, 33816), (589, 33747), (598, 33717), (601, 33708), (607, 33684), (612, 33651), (639, 33570), (647, 33540), (673, 33450), (683, 33429), (685, 33426), (691, 33411), (698, 33387), (717, 33333), (722, 33321), (750, 33258), (763, 33204), (768, 33186), (796, 33072), (809, 33036), (830, 32985), (840, 32961), (847, 32940),

Gene: Tripl3t_45 Start: 35417, Stop: 33591, Start Num: 191

Candidate Starts for Tripl3t_45:

(Start: 191 @35417 has 828 MA's), (274, 35204), (283, 35189), (307, 35141), (314, 35111), (322, 35090), (326, 35084), (328, 35075), (365, 34958), (372, 34931), (420, 34838), (428, 34823), (446, 34790), (470, 34739), (472, 34736), (494, 34670), (508, 34640), (518, 34610), (534, 34565), (556, 34526), (611, 34346), (623, 34298), (637, 34259), (656, 34193), (666, 34154), (676, 34133), (683, 34112), (691, 34094), (712, 34028), (770, 33878), (771, 33875), (778, 33839), (785, 33815), (788, 33806), (792, 33794), (812, 33719), (820, 33698),

Gene: Trixie_44 Start: 31811, Stop: 30024, Start Num: 191

Candidate Starts for Trixie_44:

(Start: 191 @31811 has 828 MA's), (272, 31604), (274, 31598), (283, 31583), (291, 31568), (308, 31532), (314, 31505), (326, 31478), (331, 31457), (340, 31427), (372, 31325), (420, 31232), (446, 31184), (451, 31175), (458, 31160), (484, 31094), (532, 30965), (611, 30740), (625, 30689), (636, 30656), (637, 30653), (656, 30587), (666, 30548), (676, 30527), (701, 30452), (704, 30440), (706,

30434), (754, 30326), (770, 30272), (775, 30248), (791, 30191), (795, 30170), (812, 30113), (816, 30101), (821, 30089),

Gene: Trooper_45 Start: 31579, Stop: 29792, Start Num: 191

Candidate Starts for Trooper_45:

(Start: 191 @31579 has 828 MA's), (272, 31372), (274, 31366), (283, 31351), (291, 31336), (307, 31303), (308, 31300), (314, 31273), (326, 31246), (328, 31237), (372, 31093), (376, 31084), (420, 31000), (446, 30952), (451, 30943), (458, 30928), (484, 30862), (515, 30781), (532, 30733), (534, 30727), (592, 30589), (611, 30508), (636, 30424), (637, 30421), (656, 30355), (666, 30316), (676, 30295), (701, 30220), (704, 30208), (754, 30094), (758, 30082), (760, 30076), (770, 30040), (775, 30016), (791, 29959), (795, 29938), (812, 29881), (816, 29869),

Gene: Trouble_46 Start: 35902, Stop: 34073, Start Num: 191

Candidate Starts for Trouble_46:

(Start: 191 @35902 has 828 MA's), (283, 35674), (314, 35596), (322, 35575), (326, 35569), (328, 35560), (365, 35443), (372, 35416), (420, 35323), (428, 35308), (446, 35275), (470, 35224), (472, 35221), (494, 35155), (508, 35125), (518, 35095), (534, 35050), (556, 35011), (611, 34831), (623, 34783), (639, 34735), (651, 34696), (656, 34678), (666, 34639), (676, 34618), (683, 34597), (690, 34582), (733, 34459), (778, 34324), (789, 34288), (794, 34264), (808, 34216), (812, 34204), (820, 34183), (823, 34177), (842, 34129), (849, 34114),

Gene: TroyPia_46 Start: 31568, Stop: 29742, Start Num: 191

Candidate Starts for TroyPia_46:

(Start: 191 @31568 has 828 MA's), (201, 31547), (209, 31517), (221, 31487), (291, 31325), (300, 31307), (326, 31235), (328, 31226), (366, 31106), (372, 31082), (420, 30989), (448, 30941), (458, 30920), (476, 30881), (523, 30749), (532, 30728), (556, 30683), (559, 30671), (609, 30518), (611, 30497), (646, 30374), (656, 30344), (666, 30305), (683, 30239), (685, 30236), (691, 30221), (698, 30197), (704, 30173), (775, 29966), (812, 29831), (816, 29819), (820, 29810),

Gene: True_59 Start: 54034, Stop: 52175, Start Num: 149

Candidate Starts for True_59:

(Start: 133 @54058 has 1 MA's), (Start: 149 @54034 has 248 MA's), (Start: 174 @54010 has 5 MA's), (Start: 186 @54004 has 3 MA's), (205, 53962), (212, 53941), (254, 53827), (256, 53821), (269, 53791), (296, 53731), (306, 53710), (323, 53656), (327, 53644), (332, 53626), (335, 53614), (372, 53509), (389, 53452), (400, 53416), (402, 53404), (410, 53380), (414, 53368), (421, 53350), (432, 53332), (442, 53314), (465, 53275), (469, 53266), (471, 53263), (473, 53260), (607, 52903), (612, 52870), (617, 52849), (647, 52756), (651, 52747), (668, 52684), (683, 52648), (685, 52645), (691, 52630), (717, 52552), (722, 52540), (730, 52519), (748, 52480), (775, 52390), (779, 52372), (781, 52366), (785, 52351), (793, 52327), (795, 52312), (796, 52309), (799, 52297), (809, 52273), (830, 52225), (840, 52201),

Gene: Trypo_63 Start: 54706, Stop: 52847, Start Num: 149

Candidate Starts for Trypo_63:

(Start: 133 @54730 has 1 MA's), (Start: 149 @54706 has 248 MA's), (Start: 174 @54682 has 5 MA's), (Start: 186 @54676 has 3 MA's), (205, 54634), (212, 54613), (254, 54499), (256, 54493), (269, 54463), (296, 54403), (306, 54382), (323, 54328), (327, 54316), (332, 54298), (335, 54286), (372, 54181), (389, 54124), (400, 54088), (402, 54076), (410, 54052), (414, 54040), (421, 54022), (432, 54004), (442, 53986), (465, 53947), (469, 53938), (471, 53935), (473, 53932), (576, 53677), (607, 53575), (612, 53542), (617, 53521), (647, 53428), (651, 53419), (668, 53356), (683, 53320), (685, 53317), (691, 53302), (717, 53224), (722, 53212), (730, 53191), (748, 53152), (775, 53062), (779, 53044), (781, 53038), (785, 53023), (793, 52999), (795, 52984), (796, 52981), (799, 52969), (809, 52945), (816, 52924), (830, 52897), (840, 52873),

Gene: Tubs_45 Start: 31483, Stop: 29690, Start Num: 191

Candidate Starts for Tubs_45:

(Start: 191 @31483 has 828 MA's), (196, 31474), (209, 31432), (261, 31312), (262, 31309), (279, 31261), (308, 31201), (315, 31171), (319, 31159), (326, 31147), (372, 30994), (420, 30901), (484, 30763), (494, 30733), (559, 30574), (565, 30562), (579, 30535), (609, 30427), (611, 30406), (651, 30271), (656, 30253), (683, 30172), (698, 30130), (726, 30055), (758, 29980), (770, 29938), (795, 29836), (812, 29779), (816, 29767), (820, 29758),

Gene: Tuck_44 Start: 31714, Stop: 33579, Start Num: 191

Candidate Starts for Tuck_44:

(Start: 191 @31714 has 828 MA's), (208, 31762), (271, 31918), (314, 32011), (343, 32101), (423, 32308), (472, 32407), (476, 32416), (481, 32431), (484, 32443), (515, 32521), (532, 32569), (559, 32626), (583, 32707), (611, 32827), (618, 32857), (637, 32914), (656, 32980), (680, 33073), (704, 33145), (752, 33253), (770, 33316), (812, 33475), (815, 33484), (850, 33562),

Gene: Tucker_46 Start: 29792, Stop: 27951, Start Num: 191

Candidate Starts for Tucker_46:

(Start: 170 @29822 has 3 MA's), (Start: 191 @29792 has 828 MA's), (271, 29588), (307, 29513), (308, 29510), (314, 29483), (319, 29468), (326, 29456), (340, 29405), (368, 29315), (372, 29303), (420, 29210), (441, 29171), (451, 29153), (458, 29138), (484, 29072), (496, 29039), (498, 29036), (535, 28934), (565, 28874), (592, 28790), (611, 28709), (636, 28625), (637, 28622), (639, 28613), (646, 28586), (656, 28556), (676, 28496), (691, 28457), (770, 28241), (771, 28238), (775, 28217), (812, 28082), (816, 28070), (820, 28061), (821, 28058), (859, 27965),

Gene: TukTuk_43 Start: 29558, Stop: 31432, Start Num: 182

Candidate Starts for TukTuk_43:

(Start: 179 @29555 has 7 MA's), (Start: 182 @29558 has 49 MA's), (216, 29627), (224, 29648), (307, 29828), (328, 29894), (340, 29936), (476, 30230), (523, 30365), (564, 30464), (598, 30587), (611, 30647), (614, 30653), (625, 30698), (635, 30728), (644, 30764), (656, 30800), (680, 30893), (713, 30986), (747, 31064), (770, 31136), (778, 31175), (791, 31217), (794, 31235), (812, 31295), (820, 31316),

Gene: Turab_38 Start: 28808, Stop: 30673, Start Num: 191

Candidate Starts for Turab_38:

(Start: 191 @28808 has 828 MA's), (208, 28856), (271, 29012), (322, 29126), (343, 29195), (423, 29402), (472, 29501), (476, 29510), (481, 29525), (484, 29537), (496, 29570), (532, 29663), (559, 29720), (583, 29801), (611, 29921), (618, 29951), (637, 30008), (654, 30065), (656, 30074), (680, 30167), (704, 30239), (708, 30248), (752, 30347), (770, 30410), (804, 30545), (812, 30569), (815, 30578), (850, 30656),

Gene: Turbido_45 Start: 31617, Stop: 29830, Start Num: 191

Candidate Starts for Turbido_45:

(118, 31704), (Start: 191 @31617 has 828 MA's), (272, 31410), (274, 31404), (283, 31389), (291, 31374), (308, 31338), (314, 31311), (326, 31284), (331, 31263), (372, 31131), (420, 31038), (446, 30990), (451, 30981), (458, 30966), (484, 30900), (515, 30819), (532, 30771), (534, 30765), (565, 30702), (611, 30546), (625, 30495), (636, 30462), (637, 30459), (656, 30393), (666, 30354), (676, 30333), (701, 30258), (704, 30246), (726, 30195), (754, 30132), (760, 30114), (770, 30078), (775, 30054), (795, 29976), (812, 29919), (816, 29907), (820, 29898),

Gene: Turj99_42 Start: 33989, Stop: 32163, Start Num: 191

Candidate Starts for Turj99_42:

(Start: 191 @33989 has 828 MA's), (274, 33776), (283, 33761), (314, 33683), (318, 33671), (322, 33662), (326, 33656), (328, 33647), (365, 33530), (372, 33503), (420, 33410), (428, 33395), (446,

33362), (470, 33311), (472, 33308), (490, 33254), (494, 33242), (508, 33212), (518, 33182), (534, 33137), (556, 33098), (611, 32918), (623, 32870), (625, 32867), (637, 32831), (656, 32765), (666, 32726), (676, 32705), (683, 32684), (691, 32666), (712, 32600), (770, 32450), (771, 32447), (778, 32411), (785, 32387), (788, 32378), (792, 32366), (803, 32318), (812, 32291), (820, 32270),

Gene: Tutumahutu_42 Start: 29675, Stop: 31540, Start Num: 191

Candidate Starts for Tutumahutu_42:

(58, 29414), (Start: 132 @29597 has 1 MA's), (Start: 191 @29675 has 828 MA's), (208, 29723), (314, 29972), (343, 30062), (423, 30269), (428, 30278), (472, 30368), (476, 30377), (481, 30392), (496, 30437), (515, 30482), (532, 30530), (559, 30587), (583, 30668), (606, 30755), (611, 30788), (618, 30818), (637, 30875), (656, 30941), (680, 31034), (704, 31106), (752, 31214), (770, 31277), (775, 31301), (804, 31412), (812, 31436), (815, 31445),

Gene: Tweety19_41 Start: 28185, Stop: 30029, Start Num: 191

Candidate Starts for Tweety19_41:

(Start: 191 @28185 has 828 MA's), (208, 28233), (234, 28293), (271, 28389), (290, 28416), (308, 28455), (322, 28503), (343, 28572), (423, 28758), (476, 28866), (481, 28881), (527, 29010), (532, 29019), (583, 29157), (611, 29277), (637, 29364), (654, 29421), (656, 29430), (680, 29523), (770, 29766), (812, 29925), (815, 29934), (850, 30012),

Gene: Twister_42 Start: 31053, Stop: 29218, Start Num: 191

Candidate Starts for Twister_42:

(Start: 191 @31053 has 828 MA's), (209, 31002), (236, 30936), (271, 30849), (283, 30825), (302, 30789), (307, 30777), (326, 30720), (328, 30711), (351, 30627), (366, 30591), (368, 30579), (372, 30567), (420, 30474), (448, 30426), (476, 30366), (484, 30339), (522, 30237), (523, 30234), (532, 30213), (534, 30207), (582, 30099), (611, 29976), (623, 29928), (646, 29853), (656, 29823), (664, 29793), (666, 29784), (683, 29715), (685, 29712), (698, 29673), (704, 29649), (706, 29643), (712, 29631), (775, 29442), (781, 29418), (798, 29355), (812, 29307), (816, 29295), (820, 29286),

Gene: TwoPeat_44 Start: 34739, Stop: 32910, Start Num: 191

Candidate Starts for TwoPeat_44:

(Start: 191 @34739 has 828 MA's), (274, 34526), (283, 34511), (307, 34463), (314, 34433), (322, 34412), (326, 34406), (328, 34397), (365, 34280), (372, 34253), (420, 34160), (428, 34145), (439, 34124), (470, 34061), (472, 34058), (494, 33992), (508, 33962), (518, 33932), (534, 33887), (556, 33848), (611, 33668), (623, 33620), (639, 33572), (651, 33533), (656, 33515), (666, 33476), (676, 33455), (683, 33434), (690, 33419), (733, 33296), (789, 33125), (794, 33101), (808, 33053), (812, 33041), (820, 33020), (823, 33014), (842, 32966), (849, 32951),

Gene: Tydolla_56 Start: 53884, Stop: 52067, Start Num: 183

Candidate Starts for Tydolla_56:

(32, 54268), (80, 54067), (Start: 183 @53884 has 42 MA's), (201, 53854), (274, 53674), (331, 53521), (334, 53509), (343, 53479), (349, 53473), (372, 53410), (375, 53404), (389, 53353), (398, 53326), (400, 53317), (414, 53269), (471, 53164), (510, 53068), (533, 53017), (589, 52873), (601, 52834), (608, 52804), (612, 52777), (616, 52765), (645, 52669), (647, 52663), (651, 52654), (655, 52642), (674, 52570), (683, 52540), (691, 52522), (694, 52513), (717, 52444), (722, 52432), (730, 52411), (760, 52342), (765, 52327), (771, 52303), (775, 52282), (779, 52264), (781, 52258), (791, 52225), (793, 52219), (796, 52201), (799, 52189), (805, 52177), (809, 52165), (826, 52123), (840, 52093),

Gene: TygerBlood_45 Start: 31570, Stop: 29744, Start Num: 191

Candidate Starts for TygerBlood_45:

(Start: 191 @31570 has 828 MA's), (201, 31549), (209, 31519), (221, 31489), (291, 31327), (300, 31309), (326, 31237), (328, 31228), (366, 31108), (372, 31084), (420, 30991), (448, 30943), (458, 30922), (476, 30883), (523, 30751), (532, 30730), (556, 30685), (559, 30673), (609, 30520), (611,

30499), (646, 30376), (656, 30346), (666, 30307), (683, 30241), (685, 30238), (691, 30223), (698, 30199), (704, 30175), (775, 29968), (812, 29833), (816, 29821), (820, 29812),

Gene: TyrionL_61 Start: 54131, Stop: 52272, Start Num: 149

Candidate Starts for TyrionL_61:

(Start: 133 @54155 has 1 MA's), (Start: 149 @54131 has 248 MA's), (Start: 174 @54107 has 5 MA's), (Start: 186 @54101 has 3 MA's), (205, 54059), (212, 54038), (254, 53924), (256, 53918), (269, 53888), (296, 53828), (306, 53807), (323, 53753), (327, 53741), (332, 53723), (335, 53711), (372, 53606), (389, 53549), (400, 53513), (402, 53501), (410, 53477), (414, 53465), (421, 53447), (432, 53429), (442, 53411), (465, 53372), (469, 53363), (471, 53360), (473, 53357), (576, 53102), (607, 53000), (612, 52967), (617, 52946), (647, 52853), (651, 52844), (668, 52781), (683, 52745), (685, 52742), (691, 52727), (717, 52649), (722, 52637), (730, 52616), (748, 52577), (775, 52487), (779, 52469), (781, 52463), (785, 52448), (793, 52424), (795, 52409), (796, 52406), (799, 52394), (809, 52370), (816, 52349), (830, 52322), (840, 52298), (845, 52283),

Gene: U2_43 Start: 34422, Stop: 32596, Start Num: 191

Candidate Starts for U2_43:

(Start: 191 @34422 has 828 MA's), (274, 34209), (283, 34194), (307, 34146), (314, 34116), (322, 34095), (326, 34089), (328, 34080), (372, 33936), (420, 33843), (428, 33828), (470, 33744), (472, 33741), (494, 33675), (518, 33615), (534, 33570), (556, 33531), (611, 33351), (623, 33303), (637, 33264), (656, 33198), (666, 33159), (676, 33138), (683, 33117), (691, 33099), (712, 33033), (770, 32883), (771, 32880), (778, 32844), (785, 32820), (788, 32811), (792, 32799), (812, 32724), (820, 32703),

Gene: UAch1_60 Start: 54265, Stop: 52406, Start Num: 149

Candidate Starts for UAch1_60:

(Start: 133 @54289 has 1 MA's), (Start: 149 @54265 has 248 MA's), (Start: 174 @54241 has 5 MA's), (Start: 186 @54235 has 3 MA's), (205, 54193), (212, 54172), (254, 54058), (256, 54052), (269, 54022), (296, 53962), (306, 53941), (323, 53887), (327, 53875), (332, 53857), (335, 53845), (372, 53740), (389, 53683), (400, 53647), (402, 53635), (410, 53611), (414, 53599), (421, 53581), (432, 53563), (442, 53545), (465, 53506), (469, 53497), (471, 53494), (473, 53491), (607, 53134), (612, 53101), (617, 53080), (647, 52987), (651, 52978), (668, 52915), (683, 52879), (685, 52876), (691, 52861), (717, 52783), (722, 52771), (730, 52750), (748, 52711), (775, 52621), (779, 52603), (781, 52597), (785, 52582), (793, 52558), (795, 52543), (796, 52540), (799, 52528), (809, 52504), (830, 52456), (840, 52432),

Gene: Ugenie5_42 Start: 31726, Stop: 29933, Start Num: 191

Candidate Starts for Ugenie5_42:

(Start: 191 @31726 has 828 MA's), (196, 31717), (209, 31675), (261, 31555), (262, 31552), (279, 31504), (308, 31444), (315, 31414), (319, 31402), (326, 31390), (372, 31237), (420, 31144), (484, 31006), (494, 30976), (559, 30817), (565, 30805), (579, 30778), (609, 30670), (611, 30649), (651, 30514), (656, 30496), (683, 30415), (698, 30373), (726, 30298), (733, 30277), (758, 30223), (770, 30181), (795, 30079), (812, 30022), (816, 30010), (820, 30001),

Gene: UhSalsa_36 Start: 28114, Stop: 26330, Start Num: 191

Candidate Starts for UhSalsa_36:

(Start: 191 @28114 has 828 MA's), (288, 27880), (302, 27850), (306, 27841), (307, 27838), (319, 27793), (326, 27781), (340, 27730), (372, 27628), (380, 27607), (420, 27535), (444, 27490), (446, 27487), (466, 27445), (468, 27439), (476, 27424), (484, 27397), (523, 27292), (526, 27283), (534, 27265), (556, 27226), (582, 27169), (611, 27046), (623, 26998), (656, 26893), (657, 26890), (676, 26833), (683, 26812), (700, 26764), (727, 26689), (758, 26620), (770, 26578), (775, 26554), (795, 26476), (812, 26419), (816, 26407), (820, 26398), (834, 26368), (839, 26350),

Gene: Ulysses_44 Start: 31247, Stop: 29421, Start Num: 191

Candidate Starts for Ulysses_44:

(Start: 191 @31247 has 828 MA's), (201, 31226), (209, 31196), (221, 31166), (291, 31004), (300, 30986), (326, 30914), (328, 30905), (366, 30785), (372, 30761), (420, 30668), (448, 30620), (458, 30599), (476, 30560), (490, 30515), (492, 30509), (523, 30428), (532, 30407), (556, 30362), (559, 30350), (609, 30197), (611, 30176), (646, 30053), (656, 30023), (666, 29984), (683, 29918), (685, 29915), (691, 29900), (698, 29876), (704, 29852), (775, 29645), (812, 29510), (816, 29498), (820, 29489),

Gene: UncleHowie_59 Start: 53736, Stop: 51877, Start Num: 149

Candidate Starts for UncleHowie_59:

(Start: 133 @53760 has 1 MA's), (Start: 149 @53736 has 248 MA's), (Start: 174 @53712 has 5 MA's), (Start: 186 @53706 has 3 MA's), (205, 53664), (212, 53643), (254, 53529), (256, 53523), (269, 53493), (296, 53433), (306, 53412), (323, 53358), (327, 53346), (332, 53328), (335, 53316), (372, 53211), (389, 53154), (400, 53118), (402, 53106), (411, 53079), (421, 53052), (432, 53034), (442, 53016), (465, 52977), (469, 52968), (471, 52965), (473, 52962), (607, 52605), (612, 52572), (617, 52551), (647, 52458), (651, 52449), (668, 52386), (683, 52350), (685, 52347), (691, 52332), (717, 52254), (722, 52242), (730, 52221), (748, 52182), (775, 52092), (779, 52074), (781, 52068), (785, 52053), (793, 52029), (795, 52014), (796, 52011), (799, 51999), (809, 51975), (830, 51927), (840, 51903),

Gene: UnionJack_39 Start: 29889, Stop: 28024, Start Num: 191

Candidate Starts for UnionJack_39:

(Start: 191 @29889 has 828 MA's), (235, 29778), (271, 29685), (272, 29682), (307, 29613), (314, 29583), (326, 29556), (328, 29547), (355, 29454), (361, 29439), (372, 29403), (420, 29307), (444, 29262), (446, 29259), (458, 29235), (483, 29175), (513, 29097), (523, 29064), (528, 29049), (534, 29037), (576, 28938), (611, 28803), (618, 28773), (623, 28755), (625, 28752), (637, 28716), (639, 28707), (644, 28686), (647, 28677), (656, 28650), (657, 28647), (676, 28590), (683, 28569), (704, 28503), (726, 28452), (750, 28398), (754, 28389), (760, 28371), (775, 28311), (779, 28293), (804, 28200), (812, 28176), (816, 28164), (859, 28059),

Gene: Updawg_45 Start: 31601, Stop: 29814, Start Num: 191

Candidate Starts for Updawg_45:

(Start: 191 @31601 has 828 MA's), (271, 31397), (272, 31394), (274, 31388), (291, 31358), (307, 31325), (308, 31322), (314, 31295), (326, 31268), (340, 31217), (372, 31115), (420, 31022), (446, 30974), (451, 30965), (458, 30950), (484, 30884), (515, 30803), (532, 30755), (592, 30611), (611, 30530), (625, 30479), (636, 30446), (656, 30377), (666, 30338), (676, 30317), (683, 30296), (689, 30284), (758, 30104), (760, 30098), (770, 30062), (775, 30038), (795, 29960), (812, 29903), (816, 29891),

Gene: Upyo_46 Start: 36456, Stop: 34090, Start Num: 9

Candidate Starts for Upyo_46:

(1, 36705), (2, 36570), (5, 36546), (6, 36540), (7, 36528), (8, 36480), (Start: 9 @36456 has 1 MA's), (20, 36330), (30, 36273), (42, 36219), (50, 36183), (66, 36114), (71, 36108), (106, 36009), (239, 35775), (251, 35748), (300, 35640), (323, 35574), (329, 35559), (339, 35523), (372, 35439), (376, 35430), (389, 35382), (400, 35346), (402, 35334), (419, 35280), (438, 35250), (453, 35232), (457, 35223), (471, 35193), (500, 35115), (533, 35043), (598, 34869), (601, 34860), (607, 34836), (612, 34803), (633, 34746), (639, 34722), (647, 34692), (655, 34671), (678, 34593), (691, 34566), (711, 34503), (717, 34488), (722, 34476), (730, 34455), (764, 34356), (775, 34308), (778, 34293), (781, 34284), (795, 34230), (796, 34227), (809, 34191), (830, 34140), (840, 34116),

Gene: Usavi_60 Start: 54404, Stop: 52545, Start Num: 149

Candidate Starts for Usavi_60:

(Start: 133 @54428 has 1 MA's), (Start: 149 @54404 has 248 MA's), (Start: 174 @54380 has 5 MA's), (Start: 186 @54374 has 3 MA's), (205, 54332), (212, 54311), (254, 54197), (256, 54191), (269, 54161), (296, 54101), (306, 54080), (323, 54026), (327, 54014), (332, 53996), (335, 53984), (372, 53879), (389, 53822), (400, 53786), (402, 53774), (411, 53747), (421, 53720), (432, 53702), (442, 53684), (465, 53645), (469, 53636), (471, 53633), (576, 53375), (607, 53273), (612, 53240), (617, 53219), (647, 53126), (651, 53117), (668, 53054), (683, 53018), (685, 53015), (691, 53000), (717, 52922), (722, 52910), (730, 52889), (748, 52850), (775, 52760), (779, 52742), (781, 52736), (785, 52721), (793, 52697), (795, 52682), (796, 52679), (799, 52667), (809, 52643), (830, 52595), (840, 52571),

Gene: UtzChips_47 Start: 31134, Stop: 32999, Start Num: 190

Candidate Starts for UtzChips_47:

(114, 31014), (Start: 124 @31032 has 2 MA's), (Start: 190 @31134 has 8 MA's), (234, 31242), (474, 31830), (476, 31836), (532, 31989), (561, 32052), (611, 32247), (631, 32310), (644, 32364), (646, 32370), (657, 32403), (713, 32586), (812, 32895), (844, 32973), (856, 32994),

Gene: VA6_43 Start: 31120, Stop: 29333, Start Num: 191

Candidate Starts for VA6_43:

(Start: 191 @31120 has 828 MA's), (271, 30916), (272, 30913), (274, 30907), (283, 30892), (291, 30877), (307, 30844), (308, 30841), (314, 30814), (326, 30787), (331, 30766), (340, 30736), (372, 30634), (420, 30541), (425, 30532), (446, 30493), (451, 30484), (458, 30469), (484, 30403), (515, 30322), (532, 30274), (534, 30268), (592, 30130), (611, 30049), (625, 29998), (636, 29965), (637, 29962), (656, 29896), (666, 29857), (676, 29836), (701, 29761), (706, 29743), (726, 29698), (737, 29671), (754, 29635), (760, 29617), (770, 29581), (775, 29557), (791, 29500), (812, 29422), (816, 29410), (820, 29401),

Gene: VC3_48 Start: 31569, Stop: 29770, Start Num: 191

Candidate Starts for VC3_48:

(Start: 191 @31569 has 828 MA's), (271, 31365), (307, 31290), (308, 31287), (314, 31260), (319, 31245), (326, 31233), (340, 31182), (372, 31080), (420, 30987), (425, 30978), (446, 30939), (451, 30930), (484, 30849), (496, 30816), (508, 30789), (556, 30675), (565, 30651), (611, 30486), (623, 30438), (637, 30399), (646, 30363), (656, 30333), (666, 30294), (676, 30273), (712, 30168), (726, 30135), (754, 30072), (770, 30018), (775, 29994), (812, 29859), (816, 29847), (820, 29838),

Gene: VResidence_41 Start: 29109, Stop: 31019, Start Num: 191

Candidate Starts for VResidence_41:

(Start: 191 @29109 has 828 MA's), (208, 29157), (262, 29283), (290, 29340), (322, 29427), (343, 29496), (423, 29748), (428, 29757), (476, 29856), (481, 29871), (532, 30009), (583, 30147), (592, 30186), (611, 30267), (637, 30354), (646, 30390), (654, 30411), (656, 30420), (704, 30585), (708, 30594), (770, 30756), (779, 30798), (789, 30831), (812, 30915), (815, 30924), (850, 31002),

Gene: Vaishali24_59 Start: 53939, Stop: 52080, Start Num: 149

Candidate Starts for Vaishali24_59:

(20, 54335), (34, 54248), (38, 54233), (39, 54227), (45, 54212), (49, 54194), (Start: 133 @53963 has 1 MA's), (Start: 149 @53939 has 248 MA's), (Start: 174 @53915 has 5 MA's), (Start: 186 @53909 has 3 MA's), (205, 53867), (212, 53846), (254, 53732), (256, 53726), (269, 53696), (296, 53636), (306, 53615), (323, 53561), (327, 53549), (335, 53519), (372, 53414), (389, 53357), (400, 53321), (402, 53309), (411, 53282), (414, 53273), (432, 53237), (442, 53219), (465, 53180), (469, 53171), (471, 53168), (607, 52808), (612, 52775), (617, 52754), (647, 52661), (651, 52652), (668, 52589), (683, 52553), (685, 52550), (691, 52535), (717, 52457), (722, 52445), (730, 52424), (748, 52385), (775, 52295), (779, 52277), (781, 52271), (785, 52256), (793, 52232), (795, 52217), (796, 52214), (799, 52202), (809, 52178), (830, 52130), (840, 52106),

Gene: Valjean_60 Start: 54261, Stop: 52402, Start Num: 149

Candidate Starts for Valjean_60:

(Start: 133 @54285 has 1 MA's), (Start: 149 @54261 has 248 MA's), (Start: 174 @54237 has 5 MA's), (Start: 186 @54231 has 3 MA's), (205, 54189), (212, 54168), (254, 54054), (256, 54048), (269, 54018), (296, 53958), (306, 53937), (323, 53883), (327, 53871), (332, 53853), (335, 53841), (372, 53736), (389, 53679), (400, 53643), (402, 53631), (410, 53607), (414, 53595), (421, 53577), (432, 53559), (442, 53541), (465, 53502), (469, 53493), (471, 53490), (473, 53487), (607, 53130), (612, 53097), (617, 53076), (647, 52983), (651, 52974), (668, 52911), (683, 52875), (685, 52872), (691, 52857), (717, 52779), (722, 52767), (730, 52746), (748, 52707), (775, 52617), (779, 52599), (781, 52593), (785, 52578), (793, 52554), (795, 52539), (796, 52536), (799, 52524), (809, 52500), (830, 52452), (840, 52428),

Gene: Vanisoa_44 Start: 32049, Stop: 30256, Start Num: 191

Candidate Starts for Vanisoa_44:

(Start: 191 @32049 has 828 MA's), (196, 32040), (209, 31998), (261, 31878), (262, 31875), (271, 31845), (279, 31827), (307, 31770), (308, 31767), (315, 31737), (319, 31725), (326, 31713), (328, 31704), (340, 31662), (345, 31644), (371, 31563), (372, 31560), (420, 31467), (494, 31299), (530, 31203), (559, 31140), (579, 31101), (582, 31095), (611, 30972), (618, 30942), (632, 30906), (639, 30876), (656, 30819), (683, 30738), (726, 30621), (770, 30504), (775, 30480), (795, 30402), (812, 30345), (816, 30333), (820, 30324),

Gene: Vash_34 Start: 26753, Stop: 28627, Start Num: 191

Candidate Starts for Vash_34:

(Start: 191 @26753 has 828 MA's), (221, 26834), (271, 26954), (314, 27056), (315, 27059), (322, 27077), (328, 27092), (457, 27401), (470, 27431), (476, 27443), (482, 27461), (493, 27497), (523, 27575), (527, 27587), (532, 27596), (559, 27653), (560, 27656), (561, 27659), (602, 27803), (611, 27854), (623, 27905), (644, 27977), (646, 27983), (647, 27986), (654, 28004), (656, 28013), (665, 28079), (679, 28133), (720, 28247), (748, 28310), (752, 28316), (754, 28322), (765, 28358), (768, 28370), (778, 28418), (781, 28427), (789, 28454), (795, 28481), (812, 28538), (814, 28544), (820, 28559), (823, 28565),

Gene: Vaticameos_57 Start: 52569, Stop: 50710, Start Num: 149

Candidate Starts for Vaticameos_57:

(Start: 133 @52593 has 1 MA's), (Start: 149 @52569 has 248 MA's), (Start: 174 @52545 has 5 MA's), (Start: 186 @52539 has 3 MA's), (205, 52497), (212, 52476), (254, 52362), (256, 52356), (269, 52326), (296, 52266), (306, 52245), (323, 52191), (327, 52179), (332, 52161), (335, 52149), (372, 52044), (389, 51987), (400, 51951), (402, 51939), (411, 51912), (421, 51885), (432, 51867), (442, 51849), (465, 51810), (469, 51801), (471, 51798), (576, 51540), (607, 51438), (612, 51405), (617, 51384), (647, 51291), (651, 51282), (668, 51219), (683, 51183), (685, 51180), (691, 51165), (717, 51087), (722, 51075), (730, 51054), (748, 51015), (775, 50925), (779, 50907), (781, 50901), (785, 50886), (793, 50862), (795, 50847), (796, 50844), (799, 50832), (809, 50808), (830, 50760), (840, 50736),

Gene: Veracruz_43 Start: 31597, Stop: 29759, Start Num: 191

Candidate Starts for Veracruz_43:

(Start: 191 @31597 has 828 MA's), (209, 31546), (271, 31393), (307, 31321), (314, 31291), (326, 31264), (328, 31255), (372, 31111), (420, 31015), (448, 30967), (476, 30907), (509, 30820), (523, 30775), (532, 30754), (566, 30682), (582, 30640), (592, 30598), (611, 30517), (623, 30469), (637, 30430), (646, 30394), (656, 30364), (664, 30334), (685, 30253), (698, 30214), (704, 30190), (712, 30172), (713, 30169), (760, 30043), (775, 29983), (798, 29896), (812, 29848), (816, 29836), (820, 29827),

Gene: Veritas_62 Start: 54399, Stop: 52540, Start Num: 149

Candidate Starts for Veritas_62:

(Start: 133 @54423 has 1 MA's), (Start: 149 @54399 has 248 MA's), (Start: 174 @54375 has 5 MA's), (Start: 186 @54369 has 3 MA's), (205, 54327), (212, 54306), (254, 54192), (256, 54186), (269, 54156), (296, 54096), (306, 54075), (323, 54021), (327, 54009), (332, 53991), (335, 53979), (372, 53874), (389, 53817), (400, 53781), (402, 53769), (411, 53742), (432, 53697), (465, 53640), (469, 53631), (471, 53628), (607, 53268), (612, 53235), (617, 53214), (647, 53121), (651, 53112), (668, 53049), (683, 53013), (685, 53010), (691, 52995), (717, 52917), (722, 52905), (730, 52884), (748, 52845), (775, 52755), (779, 52737), (781, 52731), (785, 52716), (793, 52692), (795, 52677), (796, 52674), (799, 52662), (809, 52638), (830, 52590), (840, 52566), (845, 52551),

Gene: Vincenzo_56 Start: 55146, Stop: 53320, Start Num: 141

Candidate Starts for Vincenzo_56:

(Start: 141 @55146 has 23 MA's), (Start: 172 @55128 has 1 MA's), (205, 55077), (212, 55056), (269, 54918), (293, 54864), (312, 54810), (332, 54756), (341, 54726), (347, 54714), (349, 54711), (389, 54591), (400, 54555), (402, 54543), (411, 54516), (465, 54414), (471, 54402), (484, 54366), (494, 54336), (511, 54303), (533, 54255), (608, 54042), (612, 54015), (645, 53907), (647, 53901), (651, 53892), (655, 53880), (668, 53829), (679, 53802), (683, 53793), (685, 53790), (686, 53787), (691, 53775), (717, 53697), (722, 53685), (730, 53664), (733, 53655), (738, 53646), (775, 53535), (779, 53517), (781, 53511), (793, 53472), (795, 53457), (799, 53442), (805, 53430), (809, 53418), (830, 53370), (840, 53346),

Gene: Violet_42 Start: 34578, Stop: 32752, Start Num: 191

Candidate Starts for Violet_42:

(Start: 191 @34578 has 828 MA's), (274, 34365), (307, 34302), (314, 34272), (322, 34251), (326, 34245), (328, 34236), (365, 34119), (372, 34092), (420, 33999), (428, 33984), (470, 33900), (472, 33897), (494, 33831), (518, 33771), (534, 33726), (556, 33687), (611, 33507), (623, 33459), (637, 33420), (656, 33354), (664, 33324), (666, 33315), (676, 33294), (683, 33273), (691, 33255), (712, 33189), (770, 33039), (771, 33036), (778, 33000), (785, 32976), (788, 32967), (792, 32955), (812, 32880), (820, 32859),

Gene: VioletZ_55 Start: 54089, Stop: 52266, Start Num: 141

Candidate Starts for VioletZ_55:

(Start: 128 @54107 has 3 MA's), (Start: 141 @54089 has 23 MA's), (Start: 186 @54065 has 3 MA's), (201, 54038), (205, 54023), (212, 54002), (246, 53915), (293, 53810), (306, 53783), (310, 53768), (332, 53702), (341, 53672), (343, 53663), (347, 53660), (349, 53657), (358, 53630), (389, 53537), (395, 53519), (400, 53501), (402, 53489), (411, 53462), (442, 53399), (469, 53351), (471, 53348), (483, 53318), (494, 53282), (589, 53057), (590, 53054), (601, 53018), (607, 52994), (612, 52961), (645, 52853), (647, 52847), (651, 52838), (683, 52739), (685, 52736), (691, 52721), (717, 52643), (722, 52631), (730, 52610), (733, 52601), (748, 52571), (760, 52541), (768, 52514), (775, 52481), (781, 52457), (793, 52418), (796, 52400), (799, 52388), (809, 52364), (826, 52322), (830, 52316), (840, 52292),

Gene: Virapocalypse_61 Start: 54360, Stop: 52501, Start Num: 149

Candidate Starts for Virapocalypse_61:

(Start: 133 @54384 has 1 MA's), (Start: 149 @54360 has 248 MA's), (Start: 174 @54336 has 5 MA's), (Start: 186 @54330 has 3 MA's), (205, 54288), (212, 54267), (254, 54153), (256, 54147), (269, 54117), (296, 54057), (306, 54036), (323, 53982), (327, 53970), (332, 53952), (335, 53940), (372, 53835), (389, 53778), (400, 53742), (402, 53730), (410, 53706), (414, 53694), (421, 53676), (432, 53658), (442, 53640), (465, 53601), (469, 53592), (471, 53589), (473, 53586), (607, 53229), (612, 53196), (617, 53175), (647, 53082), (651, 53073), (668, 53010), (683, 52974), (685, 52971), (691, 52956), (717, 52878), (722, 52866), (730, 52845), (748, 52806), (775, 52716), (779, 52698), (781, 52692), (785, 52677), (793, 52653), (795, 52638), (796, 52635), (799, 52623), (809, 52599), (830, 52551), (840, 52527),

Gene: Virgeve_60 Start: 53997, Stop: 52138, Start Num: 149

Candidate Starts for Virgeve_60:

(Start: 133 @54021 has 1 MA's), (Start: 149 @53997 has 248 MA's), (Start: 174 @53973 has 5 MA's), (Start: 186 @53967 has 3 MA's), (205, 53925), (212, 53904), (254, 53790), (256, 53784), (269, 53754), (296, 53694), (306, 53673), (323, 53619), (327, 53607), (332, 53589), (335, 53577), (372, 53472), (389, 53415), (400, 53379), (402, 53367), (410, 53343), (414, 53331), (421, 53313), (432, 53295), (442, 53277), (465, 53238), (469, 53229), (471, 53226), (473, 53223), (607, 52866), (612, 52833), (617, 52812), (647, 52719), (651, 52710), (668, 52647), (683, 52611), (685, 52608), (691, 52593), (717, 52515), (722, 52503), (730, 52482), (748, 52443), (775, 52353), (779, 52335), (781, 52329), (785, 52314), (793, 52290), (795, 52275), (796, 52272), (799, 52260), (809, 52236), (830, 52188), (840, 52164),

Gene: Vista_60 Start: 54037, Stop: 52178, Start Num: 149

Candidate Starts for Vista_60:

(Start: 133 @54061 has 1 MA's), (Start: 149 @54037 has 248 MA's), (Start: 174 @54013 has 5 MA's), (Start: 186 @54007 has 3 MA's), (205, 53965), (212, 53944), (254, 53830), (256, 53824), (269, 53794), (296, 53734), (306, 53713), (323, 53659), (327, 53647), (332, 53629), (335, 53617), (372, 53512), (389, 53455), (400, 53419), (402, 53407), (411, 53380), (421, 53353), (432, 53335), (442, 53317), (465, 53278), (469, 53269), (471, 53266), (607, 52906), (612, 52873), (617, 52852), (647, 52759), (651, 52750), (668, 52687), (683, 52651), (685, 52648), (691, 52633), (717, 52555), (722, 52543), (730, 52522), (748, 52483), (775, 52393), (779, 52375), (781, 52369), (785, 52354), (793, 52330), (795, 52315), (796, 52312), (799, 52300), (809, 52276), (830, 52228), (840, 52204),

Gene: Vitas_40 Start: 27434, Stop: 29302, Start Num: 179

Candidate Starts for Vitas_40:

(Start: 179 @27434 has 7 MA's), (Start: 182 @27437 has 49 MA's), (Start: 185 @27440 has 2 MA's), (216, 27509), (332, 27791), (340, 27818), (361, 27872), (441, 28037), (476, 28112), (483, 28133), (598, 28487), (611, 28547), (625, 28598), (644, 28664), (656, 28700), (680, 28793), (747, 28964), (770, 29036), (791, 29117), (811, 29192), (812, 29195), (820, 29216), (851, 29285),

Gene: Vivaldi_62 Start: 54495, Stop: 52636, Start Num: 149

Candidate Starts for Vivaldi_62:

(Start: 133 @54519 has 1 MA's), (Start: 149 @54495 has 248 MA's), (Start: 174 @54471 has 5 MA's), (Start: 186 @54465 has 3 MA's), (205, 54423), (212, 54402), (254, 54288), (256, 54282), (269, 54252), (296, 54192), (306, 54171), (323, 54117), (327, 54105), (332, 54087), (335, 54075), (372, 53970), (389, 53913), (400, 53877), (402, 53865), (410, 53841), (414, 53829), (421, 53811), (432, 53793), (442, 53775), (465, 53736), (469, 53727), (471, 53724), (473, 53721), (607, 53364), (612, 53331), (617, 53310), (647, 53217), (651, 53208), (668, 53145), (683, 53109), (685, 53106), (691, 53091), (717, 53013), (722, 53001), (730, 52980), (748, 52941), (775, 52851), (779, 52833), (781, 52827), (785, 52812), (793, 52788), (795, 52773), (796, 52770), (799, 52758), (809, 52734), (830, 52686), (840, 52662),

Gene: Vix_48 Start: 31935, Stop: 30121, Start Num: 191

Candidate Starts for Vix_48:

(Start: 191 @31935 has 828 MA's), (206, 31896), (209, 31884), (271, 31731), (276, 31716), (307, 31659), (326, 31602), (328, 31593), (340, 31551), (355, 31500), (372, 31449), (420, 31356), (446, 31308), (451, 31299), (458, 31284), (476, 31245), (484, 31218), (494, 31188), (528, 31095), (558, 31035), (565, 31020), (611, 30864), (637, 30777), (656, 30711), (666, 30672), (685, 30600), (698, 30561), (704, 30537), (712, 30519), (726, 30486), (737, 30459), (760, 30405), (775, 30345), (795, 30267), (812, 30210), (816, 30198), (820, 30189),

Gene: VohminGhazi_45 Start: 29628, Stop: 27787, Start Num: 191

Candidate Starts for VohminGhazi_45:

(Start: 191 @29628 has 828 MA's), (271, 29424), (307, 29349), (308, 29346), (314, 29319), (319, 29304), (326, 29292), (340, 29241), (368, 29151), (372, 29139), (420, 29046), (441, 29007), (451, 28989), (458, 28974), (484, 28908), (496, 28875), (498, 28872), (535, 28770), (565, 28710), (592, 28626), (611, 28545), (636, 28461), (637, 28458), (639, 28449), (646, 28422), (656, 28392), (676, 28332), (691, 28293), (770, 28077), (771, 28074), (775, 28053), (812, 27918), (816, 27906), (820, 27897), (821, 27894), (859, 27801),

Gene: Vortex_60 Start: 54019, Stop: 52160, Start Num: 149

Candidate Starts for Vortex_60:

(Start: 133 @54043 has 1 MA's), (Start: 149 @54019 has 248 MA's), (Start: 174 @53995 has 5 MA's), (Start: 186 @53989 has 3 MA's), (205, 53947), (212, 53926), (254, 53812), (256, 53806), (269, 53776), (296, 53716), (306, 53695), (323, 53641), (327, 53629), (332, 53611), (335, 53599), (372, 53494), (389, 53437), (400, 53401), (402, 53389), (411, 53362), (432, 53317), (465, 53260), (469, 53251), (471, 53248), (607, 52888), (612, 52855), (617, 52834), (647, 52741), (651, 52732), (668, 52669), (683, 52633), (685, 52630), (691, 52615), (717, 52537), (722, 52525), (730, 52504), (748, 52465), (775, 52375), (779, 52357), (781, 52351), (785, 52336), (793, 52312), (795, 52297), (796, 52294), (799, 52282), (809, 52258), (830, 52210), (840, 52186),

Gene: VroomVroom_45 Start: 30595, Stop: 32457, Start Num: 191

Candidate Starts for VroomVroom_45:

(Start: 191 @30595 has 828 MA's), (208, 30643), (307, 30862), (336, 30958), (415, 31165), (476, 31294), (496, 31354), (515, 31399), (532, 31447), (567, 31531), (611, 31705), (618, 31735), (644, 31822), (646, 31828), (680, 31951), (685, 31960), (720, 32062), (775, 32218), (781, 32242), (812, 32353),

Gene: Waits_47 Start: 29831, Stop: 28041, Start Num: 191

Candidate Starts for Waits_47:

(Start: 191 @29831 has 828 MA's), (307, 29552), (308, 29549), (314, 29522), (326, 29495), (340, 29444), (372, 29342), (420, 29249), (441, 29210), (451, 29192), (523, 29003), (556, 28937), (583, 28877), (592, 28838), (607, 28787), (609, 28778), (611, 28757), (625, 28706), (636, 28673), (644, 28640), (646, 28634), (656, 28604), (676, 28544), (683, 28523), (698, 28481), (705, 28454), (750, 28352), (770, 28289), (771, 28286), (812, 28130), (816, 28118), (821, 28106),

Gene: Waleliano_53 Start: 54042, Stop: 52219, Start Num: 141

Candidate Starts for Waleliano_53:

(Start: 128 @54060 has 3 MA's), (Start: 141 @54042 has 23 MA's), (Start: 186 @54018 has 3 MA's), (201, 53991), (205, 53976), (212, 53955), (246, 53868), (293, 53763), (306, 53736), (310, 53721), (332, 53655), (341, 53625), (343, 53616), (347, 53613), (349, 53610), (358, 53583), (389, 53490), (395, 53472), (400, 53454), (402, 53442), (411, 53415), (442, 53352), (465, 53313), (469, 53304), (471, 53301), (483, 53271), (494, 53235), (589, 53010), (590, 53007), (601, 52971), (607, 52947), (612, 52914), (645, 52806), (647, 52800), (651, 52791), (683, 52692), (685, 52689), (691, 52674), (717, 52596), (722, 52584), (730, 52563), (733, 52554), (748, 52524), (768, 52467), (775, 52434), (781, 52410), (793, 52371), (796, 52353), (799, 52341), (809, 52317), (826, 52275), (830, 52269), (840, 52245),

Gene: Wallhey_61 Start: 54135, Stop: 52276, Start Num: 149

Candidate Starts for Wallhey_61:

(Start: 133 @54159 has 1 MA's), (Start: 149 @54135 has 248 MA's), (Start: 174 @54111 has 5 MA's), (Start: 186 @54105 has 3 MA's), (205, 54063), (212, 54042), (254, 53928), (256, 53922), (269, 53892), (296, 53832), (306, 53811), (323, 53757), (327, 53745), (332, 53727), (335, 53715), (372, 53610), (389, 53553), (400, 53517), (402, 53505), (411, 53478), (432, 53433), (465, 53376), (469, 53367), (471, 53364), (576, 53106), (607, 53004), (612, 52971), (617, 52950), (647, 52857), (651,

52848), (668, 52785), (683, 52749), (685, 52746), (691, 52731), (717, 52653), (722, 52641), (730, 52620), (748, 52581), (775, 52491), (779, 52473), (781, 52467), (785, 52452), (793, 52428), (795, 52413), (796, 52410), (799, 52398), (809, 52374), (816, 52353), (830, 52326), (840, 52302), (845, 52287),

Gene: WalterMcMickey_42 Start: 31053, Stop: 29218, Start Num: 191

Candidate Starts for WalterMcMickey_42:

(Start: 191 @31053 has 828 MA's), (209, 31002), (236, 30936), (271, 30849), (283, 30825), (302, 30789), (307, 30777), (326, 30720), (328, 30711), (351, 30627), (366, 30591), (368, 30579), (372, 30567), (420, 30474), (448, 30426), (476, 30366), (484, 30339), (522, 30237), (523, 30234), (532, 30213), (534, 30207), (582, 30099), (611, 29976), (623, 29928), (646, 29853), (656, 29823), (664, 29793), (666, 29784), (683, 29715), (685, 29712), (698, 29673), (704, 29649), (706, 29643), (712, 29631), (775, 29442), (781, 29418), (798, 29355), (812, 29307), (816, 29295), (820, 29286),

Gene: Wander_45 Start: 31567, Stop: 29741, Start Num: 191

Candidate Starts for Wander_45:

(Start: 191 @31567 has 828 MA's), (201, 31546), (209, 31516), (221, 31486), (291, 31324), (300, 31306), (326, 31234), (328, 31225), (366, 31105), (372, 31081), (420, 30988), (448, 30940), (458, 30919), (476, 30880), (523, 30748), (532, 30727), (556, 30682), (559, 30670), (609, 30517), (611, 30496), (646, 30373), (656, 30343), (666, 30304), (683, 30238), (685, 30235), (691, 30220), (698, 30196), (704, 30172), (775, 29965), (812, 29830), (816, 29818), (820, 29809),

Gene: Warda_41 Start: 29679, Stop: 31544, Start Num: 191

Candidate Starts for Warda_41:

(Start: 191 @29679 has 828 MA's), (208, 29727), (314, 29976), (343, 30066), (423, 30273), (428, 30282), (472, 30372), (476, 30381), (481, 30396), (496, 30441), (515, 30486), (532, 30534), (559, 30591), (583, 30672), (611, 30792), (618, 30822), (637, 30879), (654, 30936), (656, 30945), (752, 31218), (770, 31281), (804, 31416), (812, 31440), (815, 31449),

Gene: WaterT_64 Start: 38299, Stop: 36338, Start Num: 92

Candidate Starts for WaterT_64:

(Start: 92 @38299 has 10 MA's), (120, 38239), (165, 38179), (200, 38125), (215, 38080), (233, 38056), (235, 38050), (269, 37942), (273, 37930), (350, 37777), (358, 37756), (365, 37738), (369, 37723), (385, 37672), (392, 37651), (395, 37642), (401, 37621), (412, 37585), (421, 37561), (427, 37549), (495, 37411), (513, 37384), (529, 37351), (540, 37324), (545, 37306), (547, 37303), (551, 37291), (592, 37183), (613, 37099), (669, 36880), (682, 36835), (703, 36769), (720, 36727), (735, 36697), (758, 36646), (760, 36640), (765, 36616), (774, 36589), (775, 36577), (776, 36574), (789, 36520), (794, 36496), (796, 36490), (813, 36436), (827, 36406), (837, 36382),

Gene: Waterdiva_60 Start: 54398, Stop: 52539, Start Num: 149

Candidate Starts for Waterdiva_60:

(Start: 133 @54422 has 1 MA's), (Start: 149 @54398 has 248 MA's), (Start: 174 @54374 has 5 MA's), (Start: 186 @54368 has 3 MA's), (205, 54326), (212, 54305), (254, 54191), (256, 54185), (269, 54155), (296, 54095), (306, 54074), (323, 54020), (327, 54008), (332, 53990), (335, 53978), (372, 53873), (389, 53816), (400, 53780), (402, 53768), (411, 53741), (421, 53714), (432, 53696), (442, 53678), (465, 53639), (469, 53630), (471, 53627), (576, 53369), (607, 53267), (612, 53234), (617, 53213), (647, 53120), (651, 53111), (668, 53048), (683, 53012), (685, 53009), (691, 52994), (717, 52916), (722, 52904), (730, 52883), (748, 52844), (775, 52754), (779, 52736), (781, 52730), (785, 52715), (793, 52691), (795, 52676), (796, 52673), (799, 52661), (809, 52637), (830, 52589), (840, 52565),

Gene: Watermelon_46 Start: 35165, Stop: 33339, Start Num: 191

Candidate Starts for Watermelon_46:

(Start: 191 @35165 has 828 MA's), (274, 34952), (283, 34937), (314, 34859), (322, 34838), (326, 34832), (328, 34823), (365, 34706), (372, 34679), (420, 34586), (428, 34571), (470, 34487), (472, 34484), (494, 34418), (508, 34388), (518, 34358), (534, 34313), (556, 34274), (611, 34094), (623, 34046), (637, 34007), (656, 33941), (683, 33860), (685, 33857), (712, 33776), (770, 33626), (771, 33623), (778, 33587), (785, 33563), (788, 33554), (792, 33542), (812, 33467), (820, 33446),

Gene: Watson_48 Start: 31845, Stop: 30031, Start Num: 191

Candidate Starts for Watson_48:

(Start: 191 @31845 has 828 MA's), (206, 31806), (209, 31794), (271, 31641), (276, 31626), (307, 31569), (326, 31512), (328, 31503), (340, 31461), (355, 31410), (372, 31359), (420, 31266), (446, 31218), (451, 31209), (458, 31194), (476, 31155), (484, 31128), (494, 31098), (528, 31005), (534, 30993), (558, 30945), (565, 30930), (611, 30774), (637, 30687), (656, 30621), (666, 30582), (685, 30510), (698, 30471), (704, 30447), (712, 30429), (726, 30396), (737, 30369), (760, 30315), (775, 30255), (795, 30177), (812, 30120), (816, 30108), (820, 30099),

Gene: Weher20_60 Start: 54841, Stop: 52982, Start Num: 149

Candidate Starts for Weher20_60:

(Start: 133 @54865 has 1 MA's), (Start: 149 @54841 has 248 MA's), (Start: 174 @54817 has 5 MA's), (Start: 186 @54811 has 3 MA's), (205, 54769), (212, 54748), (254, 54634), (256, 54628), (269, 54598), (296, 54538), (306, 54517), (323, 54463), (327, 54451), (332, 54433), (335, 54421), (372, 54316), (389, 54259), (400, 54223), (402, 54211), (410, 54187), (414, 54175), (421, 54157), (432, 54139), (442, 54121), (465, 54082), (469, 54073), (471, 54070), (473, 54067), (607, 53710), (612, 53677), (617, 53656), (647, 53563), (651, 53554), (668, 53491), (683, 53455), (685, 53452), (691, 53437), (717, 53359), (722, 53347), (730, 53326), (748, 53287), (775, 53197), (779, 53179), (781, 53173), (785, 53158), (793, 53134), (795, 53119), (796, 53116), (799, 53104), (809, 53080), (830, 53032), (840, 53008),

Gene: WeiHuaDA_48 Start: 32697, Stop: 30910, Start Num: 191

Candidate Starts for WeiHuaDA_48:

(Start: 191 @32697 has 828 MA's), (272, 32490), (274, 32484), (291, 32454), (306, 32424), (308, 32418), (314, 32391), (326, 32364), (331, 32343), (340, 32313), (368, 32223), (372, 32211), (420, 32118), (446, 32070), (451, 32061), (458, 32046), (484, 31980), (515, 31899), (532, 31851), (611, 31626), (625, 31575), (636, 31542), (637, 31539), (656, 31473), (666, 31434), (676, 31413), (701, 31338), (704, 31326), (706, 31320), (754, 31212), (770, 31158), (775, 31134), (791, 31077), (795, 31056), (812, 30999), (816, 30987), (821, 30975),

Gene: West99_57 Start: 52637, Stop: 50808, Start Num: 147

Candidate Starts for West99_57:

(Start: 147 @52637 has 31 MA's), (Start: 186 @52610 has 3 MA's), (202, 52580), (205, 52568), (215, 52541), (216, 52538), (221, 52529), (235, 52511), (272, 52415), (296, 52364), (307, 52340), (358, 52178), (366, 52163), (368, 52154), (372, 52142), (389, 52085), (400, 52049), (402, 52037), (410, 52013), (456, 51929), (469, 51899), (471, 51896), (483, 51866), (542, 51722), (565, 51656), (586, 51617), (589, 51605), (595, 51584), (601, 51566), (612, 51509), (639, 51425), (647, 51395), (651, 51386), (668, 51320), (679, 51293), (683, 51284), (691, 51266), (698, 51242), (717, 51188), (722, 51176), (730, 51155), (760, 51086), (775, 51026), (779, 51008), (789, 50975), (793, 50963), (795, 50948), (796, 50945), (799, 50933), (809, 50909), (810, 50906), (830, 50858), (832, 50855), (840, 50834), (847, 50813),

Gene: Whabigail7_45 Start: 31605, Stop: 29818, Start Num: 191

Candidate Starts for Whabigail7_45:

(118, 31692), (Start: 191 @31605 has 828 MA's), (272, 31398), (274, 31392), (283, 31377), (291, 31362), (308, 31326), (314, 31299), (326, 31272), (331, 31251), (372, 31119), (420, 31026), (446, 30978), (451, 30969), (458, 30954), (484, 30888), (515, 30807), (532, 30759), (534, 30753), (565,

30690), (611, 30534), (625, 30483), (636, 30450), (637, 30447), (656, 30381), (666, 30342), (676, 30321), (701, 30246), (704, 30234), (726, 30183), (754, 30120), (760, 30102), (770, 30066), (775, 30042), (795, 29964), (812, 29907), (816, 29895), (820, 29886),

Gene: Wheeler_45 Start: 34873, Stop: 33047, Start Num: 191

Candidate Starts for Wheeler_45:

(Start: 191 @34873 has 828 MA's), (274, 34660), (283, 34645), (307, 34597), (314, 34567), (322, 34546), (326, 34540), (328, 34531), (365, 34414), (372, 34387), (420, 34294), (428, 34279), (446, 34246), (470, 34195), (472, 34192), (494, 34126), (508, 34096), (518, 34066), (534, 34021), (556, 33982), (611, 33802), (618, 33772), (623, 33754), (625, 33751), (637, 33715), (656, 33649), (683, 33568), (685, 33565), (712, 33484), (770, 33334), (771, 33331), (778, 33295), (785, 33271), (788, 33262), (792, 33250), (812, 33175), (820, 33154),

Gene: WideWale_45 Start: 31601, Stop: 29814, Start Num: 191

Candidate Starts for WideWale_45:

(Start: 191 @31601 has 828 MA's), (271, 31397), (272, 31394), (274, 31388), (291, 31358), (307, 31325), (308, 31322), (314, 31295), (326, 31268), (340, 31217), (372, 31115), (420, 31022), (446, 30974), (451, 30965), (458, 30950), (484, 30884), (515, 30803), (532, 30755), (592, 30611), (611, 30530), (625, 30479), (636, 30446), (656, 30377), (666, 30338), (676, 30317), (683, 30296), (689, 30284), (758, 30104), (760, 30098), (770, 30062), (775, 30038), (795, 29960), (812, 29903), (816, 29891),

Gene: Widow_43 Start: 35284, Stop: 32969, Start Num: 3

Candidate Starts for Widow_43:

(Start: 3 @35284 has 5 MA's), (4, 35275), (12, 35179), (15, 35149), (21, 35083), (99, 34924), (Start: 112 @34894 has 1 MA's), (120, 34882), (155, 34828), (171, 34807), (221, 34708), (235, 34687), (249, 34642), (270, 34594), (339, 34411), (366, 34348), (372, 34327), (376, 34318), (400, 34237), (402, 34225), (419, 34171), (438, 34141), (457, 34114), (469, 34087), (471, 34084), (473, 34081), (533, 33934), (560, 33850), (584, 33799), (595, 33760), (598, 33751), (601, 33742), (612, 33685), (639, 33604), (647, 33574), (673, 33484), (678, 33472), (691, 33445), (717, 33367), (722, 33355), (733, 33325), (764, 33235), (768, 33220), (775, 33187), (795, 33109), (796, 33106), (805, 33082), (809, 33070), (830, 33019), (840, 32995),

Gene: Wiks_44 Start: 29422, Stop: 27581, Start Num: 191

Candidate Starts for Wiks_44:

(Start: 170 @29452 has 3 MA's), (Start: 191 @29422 has 828 MA's), (271, 29218), (307, 29143), (308, 29140), (314, 29113), (319, 29098), (326, 29086), (340, 29035), (368, 28945), (372, 28933), (420, 28840), (441, 28801), (451, 28783), (458, 28768), (484, 28702), (496, 28669), (498, 28666), (535, 28564), (565, 28504), (592, 28420), (611, 28339), (636, 28255), (637, 28252), (639, 28243), (646, 28216), (656, 28186), (676, 28126), (691, 28087), (770, 27871), (771, 27868), (775, 27847), (812, 27712), (816, 27700), (820, 27691), (821, 27688), (859, 27595),

Gene: Wilbur_45 Start: 31567, Stop: 29741, Start Num: 191

Candidate Starts for Wilbur_45:

(Start: 191 @31567 has 828 MA's), (201, 31546), (209, 31516), (221, 31486), (291, 31324), (300, 31306), (326, 31234), (328, 31225), (366, 31105), (372, 31081), (420, 30988), (448, 30940), (458, 30919), (476, 30880), (523, 30748), (532, 30727), (556, 30682), (559, 30670), (609, 30517), (611, 30496), (646, 30373), (656, 30343), (666, 30304), (683, 30238), (685, 30235), (691, 30220), (698, 30196), (704, 30172), (775, 29965), (812, 29830), (816, 29818), (820, 29809),

Gene: Wildwest_40 Start: 29139, Stop: 30983, Start Num: 191

Candidate Starts for Wildwest_40:

(75, 28944), (109, 29022), (126, 29052), (Start: 191 @29139 has 828 MA's), (262, 29313), (271, 29343), (290, 29370), (314, 29436), (343, 29526), (423, 29712), (428, 29721), (444, 29751), (476, 29820), (481, 29835), (532, 29973), (583, 30111), (611, 30231), (637, 30318), (654, 30375), (656, 30384), (704, 30549), (770, 30720), (812, 30879), (815, 30888), (820, 30900),

Gene: Wile_44 Start: 31553, Stop: 29724, Start Num: 191

Candidate Starts for Wile_44:

(Start: 191 @31553 has 828 MA's), (209, 31502), (221, 31472), (291, 31310), (300, 31292), (307, 31277), (326, 31220), (328, 31211), (366, 31091), (372, 31067), (401, 31025), (420, 30974), (448, 30926), (458, 30905), (476, 30866), (490, 30821), (492, 30815), (523, 30734), (532, 30713), (556, 30668), (609, 30503), (611, 30482), (656, 30329), (666, 30290), (685, 30218), (691, 30203), (698, 30179), (702, 30161), (704, 30155), (706, 30149), (775, 29948), (812, 29813), (816, 29801), (820, 29792),

Gene: Wilkins_44 Start: 34221, Stop: 32395, Start Num: 191

Candidate Starts for Wilkins_44:

(Start: 191 @34221 has 828 MA's), (274, 34008), (283, 33993), (307, 33945), (314, 33915), (322, 33894), (326, 33888), (328, 33879), (365, 33762), (372, 33735), (420, 33642), (428, 33627), (470, 33543), (472, 33540), (494, 33474), (508, 33444), (518, 33414), (534, 33369), (556, 33330), (611, 33150), (623, 33102), (637, 33063), (656, 32997), (666, 32958), (676, 32937), (683, 32916), (691, 32898), (712, 32832), (770, 32682), (771, 32679), (778, 32643), (785, 32619), (788, 32610), (792, 32598), (803, 32550), (812, 32523), (820, 32502),

Gene: Windsor_60 Start: 54584, Stop: 52725, Start Num: 149

Candidate Starts for Windsor_60:

(Start: 133 @54608 has 1 MA's), (Start: 149 @54584 has 248 MA's), (Start: 174 @54560 has 5 MA's), (Start: 186 @54554 has 3 MA's), (205, 54512), (212, 54491), (254, 54377), (256, 54371), (269, 54341), (296, 54281), (306, 54260), (323, 54206), (327, 54194), (332, 54176), (335, 54164), (372, 54059), (389, 54002), (400, 53966), (402, 53954), (410, 53930), (414, 53918), (421, 53900), (432, 53882), (442, 53864), (465, 53825), (469, 53816), (471, 53813), (473, 53810), (607, 53453), (612, 53420), (617, 53399), (647, 53306), (651, 53297), (668, 53234), (683, 53198), (685, 53195), (691, 53180), (717, 53102), (722, 53090), (730, 53069), (748, 53030), (775, 52940), (779, 52922), (781, 52916), (785, 52901), (793, 52877), (795, 52862), (796, 52859), (799, 52847), (809, 52823), (830, 52775), (840, 52751),

Gene: Wizard007_45 Start: 31575, Stop: 29749, Start Num: 191

Candidate Starts for Wizard007_45:

(Start: 191 @31575 has 828 MA's), (201, 31554), (209, 31524), (221, 31494), (291, 31332), (300, 31314), (326, 31242), (328, 31233), (366, 31113), (372, 31089), (420, 30996), (448, 30948), (458, 30927), (476, 30888), (523, 30756), (532, 30735), (556, 30690), (559, 30678), (609, 30525), (611, 30504), (646, 30381), (656, 30351), (666, 30312), (683, 30246), (685, 30243), (691, 30228), (698, 30204), (704, 30180), (775, 29973), (812, 29838), (816, 29826), (820, 29817),

Gene: Wooldri_50 Start: 31764, Stop: 29950, Start Num: 191

Candidate Starts for Wooldri_50:

(Start: 191 @31764 has 828 MA's), (206, 31725), (209, 31713), (271, 31560), (276, 31545), (307, 31488), (326, 31431), (328, 31422), (340, 31380), (355, 31329), (372, 31278), (420, 31185), (446, 31137), (451, 31128), (458, 31113), (476, 31074), (484, 31047), (494, 31017), (528, 30924), (558, 30864), (565, 30849), (611, 30693), (637, 30606), (656, 30540), (666, 30501), (685, 30429), (698, 30390), (704, 30366), (712, 30348), (726, 30315), (737, 30288), (760, 30234), (775, 30174), (795, 30096), (812, 30039), (816, 30027), (820, 30018),

Gene: Wooper_54 Start: 47982, Stop: 46165, Start Num: 177

Candidate Starts for Wooper_54:

(Start: 177 @47982 has 10 MA's), (Start: 186 @47973 has 3 MA's), (201, 47946), (204, 47934), (212, 47910), (216, 47901), (289, 47727), (316, 47652), (341, 47577), (372, 47499), (389, 47442), (400, 47406), (402, 47394), (410, 47370), (460, 47277), (471, 47253), (480, 47235), (589, 46962), (601, 46923), (608, 46893), (612, 46866), (645, 46758), (647, 46752), (651, 46743), (678, 46653), (683, 46644), (685, 46641), (691, 46626), (717, 46548), (722, 46536), (725, 46530), (730, 46515), (753, 46467), (768, 46419), (775, 46386), (781, 46362), (793, 46323), (795, 46308), (809, 46263), (840, 46191),

Gene: WunderPhul_45 Start: 29420, Stop: 27579, Start Num: 191

Candidate Starts for WunderPhul_45:

(Start: 170 @29450 has 3 MA's), (Start: 191 @29420 has 828 MA's), (271, 29216), (307, 29141), (308, 29138), (314, 29111), (319, 29096), (326, 29084), (340, 29033), (368, 28943), (372, 28931), (420, 28838), (441, 28799), (451, 28781), (458, 28766), (484, 28700), (496, 28667), (498, 28664), (535, 28562), (565, 28502), (592, 28418), (611, 28337), (636, 28253), (637, 28250), (639, 28241), (646, 28214), (656, 28184), (676, 28124), (691, 28085), (770, 27869), (771, 27866), (775, 27845), (812, 27710), (816, 27698), (820, 27689), (821, 27686), (859, 27593),

Gene: Xavier_59 Start: 54026, Stop: 52167, Start Num: 149

Candidate Starts for Xavier_59:

(Start: 133 @54050 has 1 MA's), (Start: 149 @54026 has 248 MA's), (Start: 174 @54002 has 5 MA's), (Start: 186 @53996 has 3 MA's), (205, 53954), (212, 53933), (254, 53819), (256, 53813), (269, 53783), (296, 53723), (306, 53702), (323, 53648), (327, 53636), (332, 53618), (335, 53606), (372, 53501), (389, 53444), (400, 53408), (402, 53396), (411, 53369), (432, 53324), (465, 53267), (469, 53258), (471, 53255), (607, 52895), (612, 52862), (617, 52841), (647, 52748), (651, 52739), (668, 52676), (683, 52640), (685, 52637), (691, 52622), (717, 52544), (722, 52532), (730, 52511), (748, 52472), (775, 52382), (779, 52364), (781, 52358), (785, 52343), (793, 52319), (795, 52304), (796, 52301), (799, 52289), (809, 52265), (830, 52217), (840, 52193),

Gene: Xena_43 Start: 31519, Stop: 29690, Start Num: 191

Candidate Starts for Xena_43:

(Start: 191 @31519 has 828 MA's), (209, 31468), (221, 31438), (291, 31276), (300, 31258), (307, 31243), (326, 31186), (328, 31177), (366, 31057), (372, 31033), (401, 30991), (420, 30940), (448, 30892), (458, 30871), (476, 30832), (490, 30787), (492, 30781), (523, 30700), (532, 30679), (556, 30634), (609, 30469), (611, 30448), (656, 30295), (666, 30256), (685, 30184), (691, 30169), (698, 30145), (702, 30127), (704, 30121), (706, 30115), (775, 29914), (812, 29779), (816, 29767), (820, 29758),

Gene: XianYue_44 Start: 31263, Stop: 29476, Start Num: 191

Candidate Starts for XianYue_44:

(Start: 191 @31263 has 828 MA's), (271, 31059), (272, 31056), (274, 31050), (291, 31020), (302, 30999), (307, 30987), (314, 30957), (326, 30930), (331, 30909), (372, 30777), (420, 30684), (451, 30627), (458, 30612), (484, 30546), (515, 30465), (532, 30417), (566, 30345), (611, 30192), (625, 30141), (636, 30108), (637, 30105), (656, 30039), (666, 30000), (676, 29979), (701, 29904), (704, 29892), (706, 29886), (726, 29841), (754, 29778), (770, 29724), (775, 29700), (795, 29622), (812, 29565), (816, 29553), (820, 29544),

Gene: Xkcd426_52 Start: 45445, Stop: 43514, Start Num: 93

Candidate Starts for Xkcd426_52:

(Start: 93 @45445 has 10 MA's), (161, 45334), (163, 45331), (178, 45307), (181, 45304), (209, 45244), (309, 44998), (330, 44968), (333, 44959), (341, 44929), (352, 44890), (372, 44839), (391, 44776), (395, 44767), (407, 44728), (437, 44659), (497, 44527), (536, 44437), (543, 44419), (550, 44404), (553, 44392), (580, 44335), (585, 44320), (607, 44242), (612, 44209), (619, 44176), (627,

44155), (638, 44137), (652, 44095), (684, 44002), (692, 43984), (693, 43978), (695, 43972), (701, 43948), (758, 43816), (775, 43747), (776, 43744), (795, 43672), (805, 43639), (813, 43615),

Gene: YDN12_50 Start: 39191, Stop: 37182, Start Num: 93

Candidate Starts for YDN12_50:

(68, 39257), (70, 39254), (Start: 93 @39191 has 10 MA's), (Start: 132 @39122 has 1 MA's), (209, 38990), (211, 38984), (238, 38930), (240, 38918), (242, 38912), (252, 38891), (259, 38867), (282, 38807), (310, 38741), (352, 38588), (365, 38561), (371, 38540), (383, 38504), (391, 38474), (399, 38450), (403, 38438), (407, 38426), (437, 38357), (489, 38246), (553, 38090), (580, 38033), (586, 38012), (599, 37970), (607, 37940), (612, 37907), (619, 37874), (627, 37853), (638, 37835), (684, 37670), (692, 37652), (695, 37640), (699, 37625), (701, 37616), (758, 37484), (769, 37439), (775, 37415), (776, 37412), (795, 37340), (805, 37307), (813, 37283), (825, 37262), (835, 37235),

Gene: Yago84_49 Start: 46049, Stop: 44235, Start Num: 174

Candidate Starts for Yago84_49:

(114, 46139), (117, 46133), (Start: 174 @46049 has 5 MA's), (Start: 186 @46040 has 3 MA's), (205, 45998), (254, 45872), (272, 45830), (291, 45788), (316, 45719), (331, 45680), (334, 45668), (335, 45665), (366, 45590), (372, 45569), (400, 45476), (458, 45350), (465, 45335), (471, 45323), (504, 45233), (595, 45011), (612, 44936), (647, 44822), (651, 44813), (668, 44750), (685, 44711), (691, 44696), (717, 44618), (722, 44606), (725, 44600), (730, 44585), (733, 44576), (738, 44567), (768, 44489), (775, 44456), (776, 44453), (791, 44399), (793, 44393), (800, 44357), (809, 44333), (840, 44261),

Gene: Yahalom_57 Start: 53658, Stop: 51841, Start Num: 183

Candidate Starts for Yahalom_57:

(32, 54042), (80, 53841), (Start: 183 @53658 has 42 MA's), (201, 53628), (274, 53448), (331, 53295), (334, 53283), (343, 53253), (349, 53247), (372, 53184), (375, 53178), (389, 53127), (398, 53100), (400, 53091), (414, 53043), (471, 52938), (510, 52842), (533, 52791), (589, 52647), (601, 52608), (608, 52578), (612, 52551), (616, 52539), (645, 52443), (647, 52437), (651, 52428), (655, 52416), (674, 52344), (683, 52314), (691, 52296), (694, 52287), (717, 52218), (722, 52206), (730, 52185), (760, 52116), (765, 52101), (771, 52077), (775, 52056), (779, 52038), (781, 52032), (791, 51999), (793, 51993), (796, 51975), (799, 51963), (805, 51951), (809, 51939), (826, 51897), (840, 51867),

Gene: Yang_41 Start: 29089, Stop: 31023, Start Num: 132

Candidate Starts for Yang_41:

(Start: 132 @29089 has 1 MA's), (Start: 191 @29158 has 828 MA's), (208, 29206), (314, 29455), (351, 29575), (423, 29752), (428, 29761), (476, 29860), (481, 29875), (484, 29887), (532, 30013), (583, 30151), (611, 30271), (637, 30358), (654, 30415), (656, 30424), (663, 30448), (708, 30598), (770, 30760), (812, 30919),

Gene: Yecey3_46 Start: 30987, Stop: 29194, Start Num: 191

Candidate Starts for Yecey3_46:

(Start: 191 @30987 has 828 MA's), (196, 30978), (271, 30783), (289, 30747), (291, 30741), (307, 30708), (314, 30678), (326, 30651), (328, 30642), (372, 30498), (420, 30405), (494, 30237), (523, 30159), (579, 30039), (582, 30033), (611, 29910), (632, 29844), (646, 29787), (651, 29775), (656, 29757), (679, 29685), (683, 29676), (760, 29478), (775, 29418), (795, 29340), (812, 29283), (816, 29271), (834, 29232),

Gene: Yeezus_55 Start: 36878, Stop: 34710, Start Num: 86

Candidate Starts for Yeezus_55:

(85, 36881), (Start: 86 @36878 has 11 MA's), (106, 36824), (160, 36740), (235, 36587), (237, 36578), (253, 36533), (278, 36455), (287, 36446), (294, 36431), (301, 36416), (303, 36413), (323, 36356), (346, 36263), (362, 36221), (422, 36026), (430, 36014), (434, 36008), (449, 35984), (459, 35963),

(468, 35942), (476, 35927), (479, 35921), (500, 35858), (517, 35807), (550, 35720), (571, 35660), (591, 35612), (615, 35510), (616, 35504), (620, 35477), (621, 35474), (629, 35453), (641, 35411), (643, 35405), (650, 35381), (659, 35339), (660, 35336), (665, 35309), (674, 35276), (677, 35264), (692, 35228), (698, 35204), (700, 35198), (701, 35192), (723, 35138), (744, 35090), (746, 35087), (764, 35027), (770, 35003), (777, 34973), (790, 34919), (809, 34850), (813, 34838), (828, 34799),

Gene: YesChef_41 Start: 29651, Stop: 31516, Start Num: 191

Candidate Starts for YesChef_41:

(Start: 191 @29651 has 828 MA's), (208, 29699), (314, 29948), (343, 30038), (423, 30245), (428, 30254), (472, 30344), (476, 30353), (481, 30368), (496, 30413), (515, 30458), (532, 30506), (559, 30563), (583, 30644), (606, 30731), (611, 30764), (618, 30794), (637, 30851), (656, 30917), (663, 30941), (680, 31010), (704, 31082), (708, 31091), (752, 31190), (770, 31253), (775, 31277), (804, 31388), (812, 31412), (815, 31421),

Gene: Yinz_58 Start: 53540, Stop: 51720, Start Num: 180

Candidate Starts for Yinz_58:

(80, 53720), (Start: 180 @53540 has 7 MA's), (201, 53507), (274, 53327), (331, 53174), (334, 53162), (343, 53132), (349, 53126), (372, 53063), (375, 53057), (389, 53006), (398, 52979), (400, 52970), (414, 52922), (471, 52817), (510, 52721), (533, 52670), (589, 52526), (601, 52487), (608, 52457), (612, 52430), (616, 52418), (645, 52322), (647, 52316), (651, 52307), (655, 52295), (674, 52223), (683, 52193), (691, 52175), (694, 52166), (717, 52097), (722, 52085), (730, 52064), (760, 51995), (765, 51980), (771, 51956), (775, 51935), (781, 51911), (793, 51872), (796, 51854), (799, 51842), (805, 51830), (809, 51818), (826, 51776), (840, 51746),

Gene: YoSam321_45 Start: 31564, Stop: 29738, Start Num: 191

Candidate Starts for YoSam321_45:

(Start: 191 @31564 has 828 MA's), (201, 31543), (209, 31513), (221, 31483), (291, 31321), (300, 31303), (326, 31231), (328, 31222), (366, 31102), (372, 31078), (420, 30985), (448, 30937), (458, 30916), (476, 30877), (523, 30745), (532, 30724), (556, 30679), (559, 30667), (609, 30514), (611, 30493), (646, 30370), (656, 30340), (666, 30301), (683, 30235), (685, 30232), (691, 30217), (698, 30193), (704, 30169), (775, 29962), (812, 29827), (816, 29815), (820, 29806),

Gene: Yogi_36 Start: 28087, Stop: 26303, Start Num: 191

Candidate Starts for Yogi_36:

(Start: 191 @28087 has 828 MA's), (288, 27853), (302, 27823), (306, 27814), (307, 27811), (319, 27766), (326, 27754), (328, 27745), (340, 27703), (372, 27601), (380, 27580), (420, 27508), (444, 27463), (446, 27460), (466, 27418), (468, 27412), (476, 27397), (484, 27370), (523, 27265), (534, 27238), (556, 27199), (611, 27019), (623, 26971), (656, 26866), (657, 26863), (676, 26806), (683, 26785), (700, 26737), (727, 26662), (758, 26593), (770, 26551), (775, 26527), (795, 26449), (812, 26392), (816, 26380), (839, 26323),

Gene: Yokurt_45 Start: 29422, Stop: 27581, Start Num: 191

Candidate Starts for Yokurt_45:

(Start: 170 @29452 has 3 MA's), (Start: 191 @29422 has 828 MA's), (271, 29218), (307, 29143), (308, 29140), (314, 29113), (319, 29098), (326, 29086), (340, 29035), (368, 28945), (372, 28933), (420, 28840), (441, 28801), (451, 28783), (458, 28768), (484, 28702), (496, 28669), (498, 28666), (535, 28564), (565, 28504), (592, 28420), (611, 28339), (636, 28255), (637, 28252), (639, 28243), (646, 28216), (656, 28186), (676, 28126), (691, 28087), (770, 27871), (771, 27868), (775, 27847), (812, 27712), (816, 27700), (820, 27691), (821, 27688), (859, 27595),

Gene: Yoncess_36 Start: 28088, Stop: 26304, Start Num: 191

Candidate Starts for Yoncess_36:

(Start: 191 @28088 has 828 MA's), (288, 27854), (302, 27824), (306, 27815), (307, 27812), (319, 27767), (326, 27755), (340, 27704), (372, 27602), (380, 27581), (420, 27509), (444, 27464), (446, 27461), (466, 27419), (468, 27413), (470, 27410), (476, 27398), (484, 27371), (507, 27317), (523, 27266), (534, 27239), (556, 27200), (611, 27020), (623, 26972), (656, 26867), (657, 26864), (676, 26807), (683, 26786), (700, 26738), (727, 26663), (758, 26594), (770, 26552), (775, 26528), (795, 26450), (812, 26393), (816, 26381), (839, 26324),

Gene: Yoshand_62 Start: 54312, Stop: 52453, Start Num: 149

Candidate Starts for Yoshand_62:

(Start: 133 @54336 has 1 MA's), (Start: 149 @54312 has 248 MA's), (Start: 174 @54288 has 5 MA's), (Start: 186 @54282 has 3 MA's), (205, 54240), (212, 54219), (254, 54105), (256, 54099), (269, 54069), (296, 54009), (306, 53988), (323, 53934), (327, 53922), (332, 53904), (335, 53892), (372, 53787), (389, 53730), (400, 53694), (402, 53682), (410, 53658), (414, 53646), (421, 53628), (432, 53610), (442, 53592), (465, 53553), (469, 53544), (471, 53541), (473, 53538), (607, 53181), (612, 53148), (617, 53127), (647, 53034), (651, 53025), (668, 52962), (683, 52926), (685, 52923), (691, 52908), (717, 52830), (722, 52818), (730, 52797), (748, 52758), (775, 52668), (779, 52650), (781, 52644), (785, 52629), (793, 52605), (795, 52590), (796, 52587), (799, 52575), (809, 52551), (830, 52503), (840, 52479),

Gene: YouGoGlencoco_61 Start: 54264, Stop: 52405, Start Num: 149

Candidate Starts for YouGoGlencoco_61:

(Start: 133 @54288 has 1 MA's), (Start: 149 @54264 has 248 MA's), (Start: 174 @54240 has 5 MA's), (Start: 186 @54234 has 3 MA's), (205, 54192), (212, 54171), (254, 54057), (256, 54051), (269, 54021), (296, 53961), (306, 53940), (323, 53886), (327, 53874), (332, 53856), (335, 53844), (372, 53739), (389, 53682), (400, 53646), (402, 53634), (411, 53607), (421, 53580), (432, 53562), (442, 53544), (465, 53505), (469, 53496), (471, 53493), (576, 53235), (607, 53133), (612, 53100), (617, 53079), (647, 52986), (651, 52977), (668, 52914), (683, 52878), (685, 52875), (691, 52860), (717, 52782), (722, 52770), (730, 52749), (748, 52710), (775, 52620), (779, 52602), (781, 52596), (785, 52581), (793, 52557), (795, 52542), (796, 52539), (799, 52527), (809, 52503), (830, 52455), (840, 52431),

Gene: Zaider_61 Start: 54505, Stop: 52646, Start Num: 149

Candidate Starts for Zaider_61:

(Start: 133 @54529 has 1 MA's), (Start: 149 @54505 has 248 MA's), (Start: 174 @54481 has 5 MA's), (Start: 186 @54475 has 3 MA's), (205, 54433), (212, 54412), (254, 54298), (256, 54292), (269, 54262), (296, 54202), (306, 54181), (323, 54127), (327, 54115), (332, 54097), (335, 54085), (372, 53980), (389, 53923), (400, 53887), (402, 53875), (410, 53851), (414, 53839), (421, 53821), (432, 53803), (442, 53785), (465, 53746), (469, 53737), (471, 53734), (473, 53731), (607, 53374), (612, 53341), (617, 53320), (647, 53227), (651, 53218), (668, 53155), (683, 53119), (685, 53116), (691, 53101), (717, 53023), (722, 53011), (730, 52990), (748, 52951), (775, 52861), (779, 52843), (781, 52837), (785, 52822), (793, 52798), (795, 52783), (796, 52780), (799, 52768), (809, 52744), (830, 52696), (840, 52672),

Gene: Zaka_45 Start: 29422, Stop: 27581, Start Num: 191

Candidate Starts for Zaka_45:

(Start: 170 @29452 has 3 MA's), (Start: 191 @29422 has 828 MA's), (271, 29218), (307, 29143), (308, 29140), (314, 29113), (319, 29098), (326, 29086), (340, 29035), (368, 28945), (372, 28933), (420, 28840), (441, 28801), (451, 28783), (458, 28768), (484, 28702), (496, 28669), (498, 28666), (535, 28564), (565, 28504), (592, 28420), (611, 28339), (636, 28255), (637, 28252), (639, 28243), (646, 28216), (656, 28186), (676, 28126), (691, 28087), (770, 27871), (771, 27868), (775, 27847), (812, 27712), (816, 27700), (820, 27691), (821, 27688), (859, 27595),

Gene: Zeeculate_43 Start: 34848, Stop: 33013, Start Num: 191

Candidate Starts for Zeeculate_43:

(Start: 191 @34848 has 828 MA's), (261, 34677), (283, 34620), (314, 34542), (322, 34521), (326, 34515), (328, 34506), (355, 34413), (365, 34389), (372, 34362), (420, 34269), (428, 34254), (446, 34221), (470, 34170), (472, 34167), (494, 34101), (508, 34071), (518, 34041), (534, 33996), (556, 33957), (611, 33777), (618, 33747), (623, 33729), (637, 33690), (656, 33624), (683, 33543), (685, 33540), (712, 33459), (770, 33309), (771, 33306), (778, 33270), (785, 33246), (792, 33225), (812, 33150), (820, 33129),

Gene: Zelda_61 Start: 54666, Stop: 52807, Start Num: 149

Candidate Starts for Zelda_61:

(Start: 133 @54690 has 1 MA's), (Start: 149 @54666 has 248 MA's), (Start: 174 @54642 has 5 MA's), (Start: 186 @54636 has 3 MA's), (205, 54594), (212, 54573), (254, 54459), (256, 54453), (269, 54423), (296, 54363), (306, 54342), (323, 54288), (327, 54276), (332, 54258), (335, 54246), (372, 54141), (389, 54084), (400, 54048), (402, 54036), (411, 54009), (432, 53964), (465, 53907), (469, 53898), (471, 53895), (607, 53535), (612, 53502), (617, 53481), (647, 53388), (651, 53379), (668, 53316), (683, 53280), (685, 53277), (691, 53262), (717, 53184), (722, 53172), (730, 53151), (748, 53112), (775, 53022), (779, 53004), (781, 52998), (785, 52983), (793, 52959), (795, 52944), (796, 52941), (799, 52929), (809, 52905), (830, 52857), (840, 52833),

Gene: Zemanar_54 Start: 53874, Stop: 52054, Start Num: 145

Candidate Starts for Zemanar_54:

(Start: 128 @53892 has 3 MA's), (Start: 145 @53874 has 1 MA's), (Start: 186 @53850 has 3 MA's), (201, 53823), (205, 53808), (235, 53736), (236, 53730), (291, 53601), (296, 53592), (297, 53589), (307, 53568), (312, 53544), (327, 53508), (329, 53502), (335, 53478), (336, 53475), (341, 53460), (343, 53451), (347, 53448), (389, 53325), (395, 53307), (400, 53289), (402, 53277), (411, 53250), (469, 53139), (471, 53136), (480, 53118), (483, 53106), (498, 53064), (502, 53052), (533, 52989), (589, 52845), (590, 52842), (601, 52806), (607, 52782), (608, 52776), (612, 52749), (647, 52635), (651, 52626), (679, 52536), (683, 52527), (691, 52509), (717, 52431), (722, 52419), (730, 52398), (738, 52380), (748, 52359), (760, 52329), (775, 52269), (779, 52251), (781, 52245), (793, 52206), (795, 52191), (796, 52188), (799, 52176), (809, 52152), (826, 52110), (830, 52104), (832, 52101), (840, 52080),

Gene: Zenteno07_62 Start: 54178, Stop: 52334, Start Num: 170

Candidate Starts for Zenteno07_62:

(Start: 170 @54178 has 3 MA's), (205, 54121), (215, 54094), (232, 54058), (256, 53992), (296, 53905), (307, 53881), (314, 53851), (323, 53830), (331, 53806), (335, 53791), (372, 53686), (400, 53593), (402, 53581), (414, 53545), (471, 53440), (533, 53293), (560, 53209), (562, 53203), (589, 53143), (590, 53140), (601, 53104), (607, 53080), (612, 53047), (647, 52933), (651, 52924), (683, 52810), (691, 52792), (717, 52714), (722, 52702), (730, 52681), (760, 52612), (765, 52597), (775, 52552), (781, 52528), (793, 52489), (795, 52474), (799, 52459), (809, 52435), (826, 52390), (830, 52384), (840, 52360),

Gene: Zephyr_44 Start: 34559, Stop: 32733, Start Num: 191

Candidate Starts for Zephyr_44:

(Start: 191 @34559 has 828 MA's), (261, 34388), (274, 34346), (283, 34331), (307, 34283), (314, 34253), (322, 34232), (326, 34226), (328, 34217), (365, 34100), (372, 34073), (420, 33980), (428, 33965), (470, 33881), (472, 33878), (494, 33812), (508, 33782), (518, 33752), (534, 33707), (556, 33668), (611, 33488), (618, 33458), (623, 33440), (637, 33401), (656, 33335), (683, 33254), (685, 33251), (712, 33170), (770, 33020), (771, 33017), (778, 32981), (785, 32957), (788, 32948), (792, 32936), (812, 32861), (820, 32840),

Gene: Zeta1847_40 Start: 29119, Stop: 31065, Start Num: 189

Candidate Starts for Zeta1847_40:

(103, 28978), (117, 29005), (150, 29059), (152, 29062), (Start: 189 @29119 has 7 MA's), (208, 29167), (234, 29227), (257, 29284), (262, 29293), (271, 29323), (305, 29380), (308, 29389), (331, 29464), (371, 29593), (415, 29692), (423, 29713), (468, 29806), (476, 29821), (481, 29836), (532, 29974), (561, 30040), (582, 30112), (611, 30235), (617, 30256), (644, 30352), (646, 30358), (669, 30442), (691, 30505), (698, 30529), (702, 30547), (713, 30574), (757, 30679), (771, 30727), (785, 30787), (812, 30883), (831, 30928),

Gene: Zetzy_47 Start: 31416, Stop: 29602, Start Num: 191

Candidate Starts for Zetzy_47:

(Start: 191 @31416 has 828 MA's), (206, 31377), (209, 31365), (271, 31212), (276, 31197), (307, 31140), (326, 31083), (328, 31074), (340, 31032), (355, 30981), (372, 30930), (420, 30837), (446, 30789), (451, 30780), (458, 30765), (476, 30726), (484, 30699), (494, 30669), (523, 30591), (528, 30576), (558, 30516), (565, 30501), (611, 30345), (636, 30261), (637, 30258), (656, 30192), (666, 30153), (685, 30081), (698, 30042), (704, 30018), (712, 30000), (726, 29967), (737, 29940), (760, 29886), (775, 29826), (812, 29691), (816, 29679), (820, 29670),

Gene: Zeuska_44 Start: 34791, Stop: 32962, Start Num: 191

Candidate Starts for Zeuska_44:

(Start: 191 @34791 has 828 MA's), (274, 34578), (283, 34563), (307, 34515), (314, 34485), (322, 34464), (326, 34458), (328, 34449), (365, 34332), (372, 34305), (420, 34212), (428, 34197), (446, 34164), (470, 34113), (472, 34110), (494, 34044), (508, 34014), (518, 33984), (534, 33939), (556, 33900), (611, 33720), (623, 33672), (639, 33624), (651, 33585), (656, 33567), (666, 33528), (676, 33507), (683, 33486), (690, 33471), (733, 33348), (789, 33177), (794, 33153), (808, 33105), (812, 33093), (820, 33072), (823, 33066), (842, 33018), (849, 33003),

Gene: Zimmer_42 Start: 32129, Stop: 30285, Start Num: 191

Candidate Starts for Zimmer_42:

(102, 32273), (115, 32246), (Start: 191 @32129 has 828 MA's), (245, 31991), (262, 31955), (271, 31925), (291, 31883), (308, 31847), (322, 31799), (326, 31793), (331, 31772), (368, 31652), (372, 31640), (420, 31547), (425, 31538), (446, 31499), (451, 31490), (458, 31475), (484, 31409), (502, 31361), (526, 31292), (565, 31211), (581, 31169), (592, 31124), (600, 31097), (611, 31043), (625, 30992), (637, 30956), (656, 30890), (666, 30851), (676, 30830), (683, 30809), (726, 30692), (754, 30629), (770, 30575), (771, 30572), (775, 30551), (791, 30494), (795, 30473), (812, 30416), (816, 30404), (839, 30347),

Gene: Zolita_39 Start: 31121, Stop: 29256, Start Num: 191

Candidate Starts for Zolita_39:

(Start: 191 @31121 has 828 MA's), (209, 31070), (235, 31010), (262, 30947), (271, 30917), (272, 30914), (302, 30857), (314, 30815), (326, 30788), (372, 30635), (420, 30539), (438, 30506), (446, 30491), (483, 30407), (484, 30401), (496, 30368), (528, 30281), (534, 30269), (556, 30230), (576, 30170), (611, 30035), (618, 30005), (623, 29987), (636, 29951), (637, 29948), (656, 29882), (666, 29843), (683, 29801), (691, 29783), (704, 29735), (706, 29729), (726, 29684), (750, 29630), (754, 29621), (760, 29603), (779, 29525), (794, 29468), (804, 29432), (812, 29408), (816, 29396), (867, 29264),

Gene: Zonia_62 Start: 54586, Stop: 52727, Start Num: 149

Candidate Starts for Zonia_62:

(Start: 133 @54610 has 1 MA's), (Start: 149 @54586 has 248 MA's), (Start: 174 @54562 has 5 MA's), (Start: 186 @54556 has 3 MA's), (205, 54514), (212, 54493), (254, 54379), (256, 54373), (269, 54343), (296, 54283), (306, 54262), (323, 54208), (327, 54196), (332, 54178), (335, 54166), (372, 54061), (389, 54004), (400, 53968), (402, 53956), (411, 53929), (432, 53884), (465, 53827), (469, 53818), (471, 53815), (576, 53557), (607, 53455), (612, 53422), (617, 53401), (647, 53308), (651, 53299), (668, 53236), (683, 53200), (685, 53197), (691, 53182), (717, 53104), (722, 53092), (730,

53071), (748, 53032), (775, 52942), (779, 52924), (781, 52918), (785, 52903), (793, 52879), (795, 52864), (796, 52861), (799, 52849), (809, 52825), (816, 52804), (830, 52777), (840, 52753), (845, 52738),

Gene: Zooman_100 Start: 78594, Stop: 76723, Start Num: 180

Candidate Starts for Zooman_100:

(Start: 141 @78654 has 23 MA's), (146, 78648), (163, 78624), (169, 78615), (173, 78606), (Start: 180 @78594 has 7 MA's), (261, 78393), (284, 78333), (293, 78318), (334, 78210), (336, 78204), (370, 78111), (377, 78093), (405, 78066), (425, 78018), (464, 77934), (476, 77907), (496, 77847), (510, 77814), (524, 77772), (556, 77709), (566, 77682), (573, 77661), (611, 77520), (624, 77469), (642, 77406), (664, 77322), (668, 77307), (669, 77298), (696, 77211), (698, 77202), (708, 77169), (765, 77013), (789, 76917), (795, 76890), (800, 76869), (812, 76833),

Gene: Zulu_46 Start: 29773, Stop: 27932, Start Num: 191

Candidate Starts for Zulu_46:

(Start: 170 @29803 has 3 MA's), (Start: 191 @29773 has 828 MA's), (271, 29569), (307, 29494), (308, 29491), (314, 29464), (319, 29449), (326, 29437), (340, 29386), (368, 29296), (372, 29284), (420, 29191), (441, 29152), (451, 29134), (458, 29119), (484, 29053), (496, 29020), (498, 29017), (535, 28915), (565, 28855), (592, 28771), (611, 28690), (636, 28606), (637, 28603), (639, 28594), (646, 28567), (656, 28537), (676, 28477), (691, 28438), (770, 28222), (771, 28219), (775, 28198), (812, 28063), (816, 28051), (820, 28042), (821, 28039), (859, 27946),

Gene: phiBT1_11 Start: 28224, Stop: 30098, Start Num: 191

Candidate Starts for phiBT1_11:

(Start: 191 @28224 has 828 MA's), (221, 28305), (236, 28338), (271, 28425), (311, 28512), (314, 28527), (322, 28548), (328, 28563), (371, 28704), (416, 28785), (423, 28803), (454, 28860), (470, 28902), (476, 28914), (482, 28932), (493, 28968), (523, 29046), (527, 29058), (532, 29067), (556, 29112), (559, 29124), (563, 29136), (589, 29232), (602, 29274), (611, 29325), (623, 29376), (644, 29448), (646, 29454), (647, 29457), (651, 29466), (656, 29484), (665, 29550), (679, 29604), (748, 29781), (752, 29787), (765, 29829), (768, 29841), (775, 29874), (778, 29889), (781, 29898), (789, 29925), (795, 29952), (812, 30009), (814, 30015), (820, 30030),

Gene: phiSASD1_12 Start: 28284, Stop: 30140, Start Num: 191

Candidate Starts for phiSASD1_12:

(Start: 191 @28284 has 828 MA's), (208, 28332), (209, 28335), (288, 28530), (327, 28638), (345, 28701), (423, 28881), (454, 28938), (466, 28971), (476, 28992), (515, 29097), (556, 29190), (561, 29208), (598, 29343), (609, 29382), (611, 29403), (614, 29409), (623, 29451), (637, 29490), (638, 29493), (642, 29514), (646, 29526), (647, 29529), (656, 29556), (669, 29610), (698, 29697), (713, 29742), (747, 29820), (781, 29940), (794, 29991), (812, 30051),