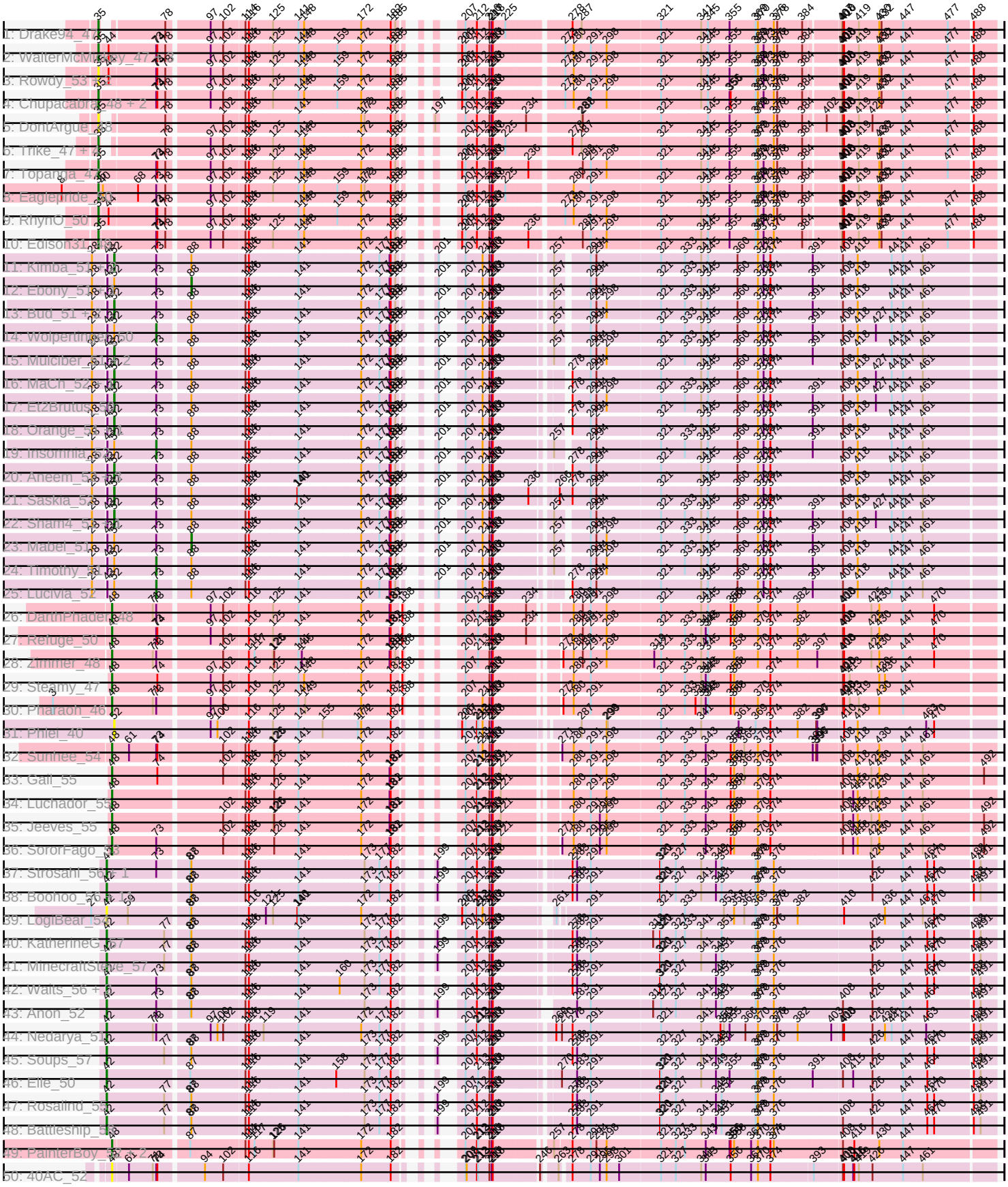
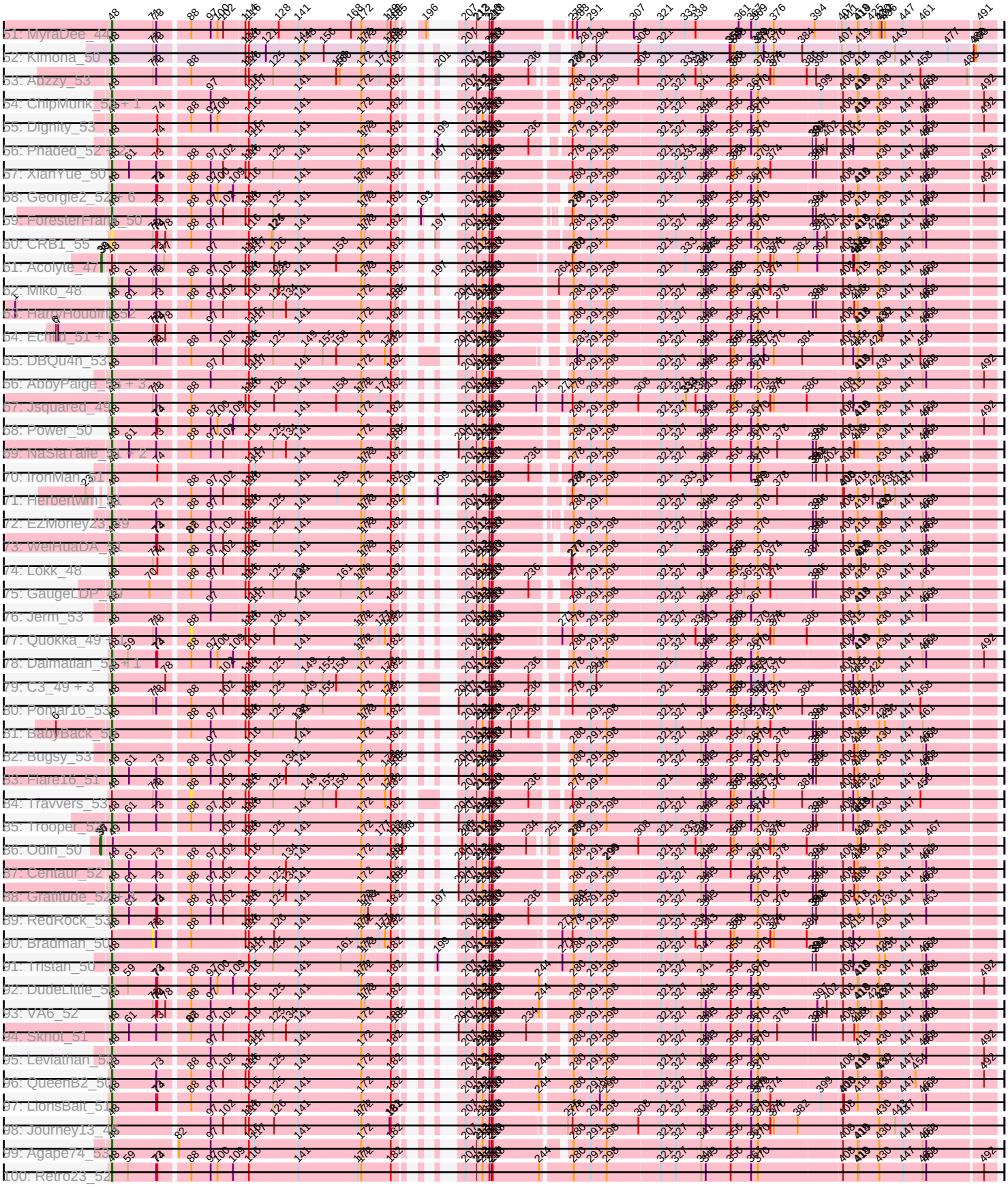
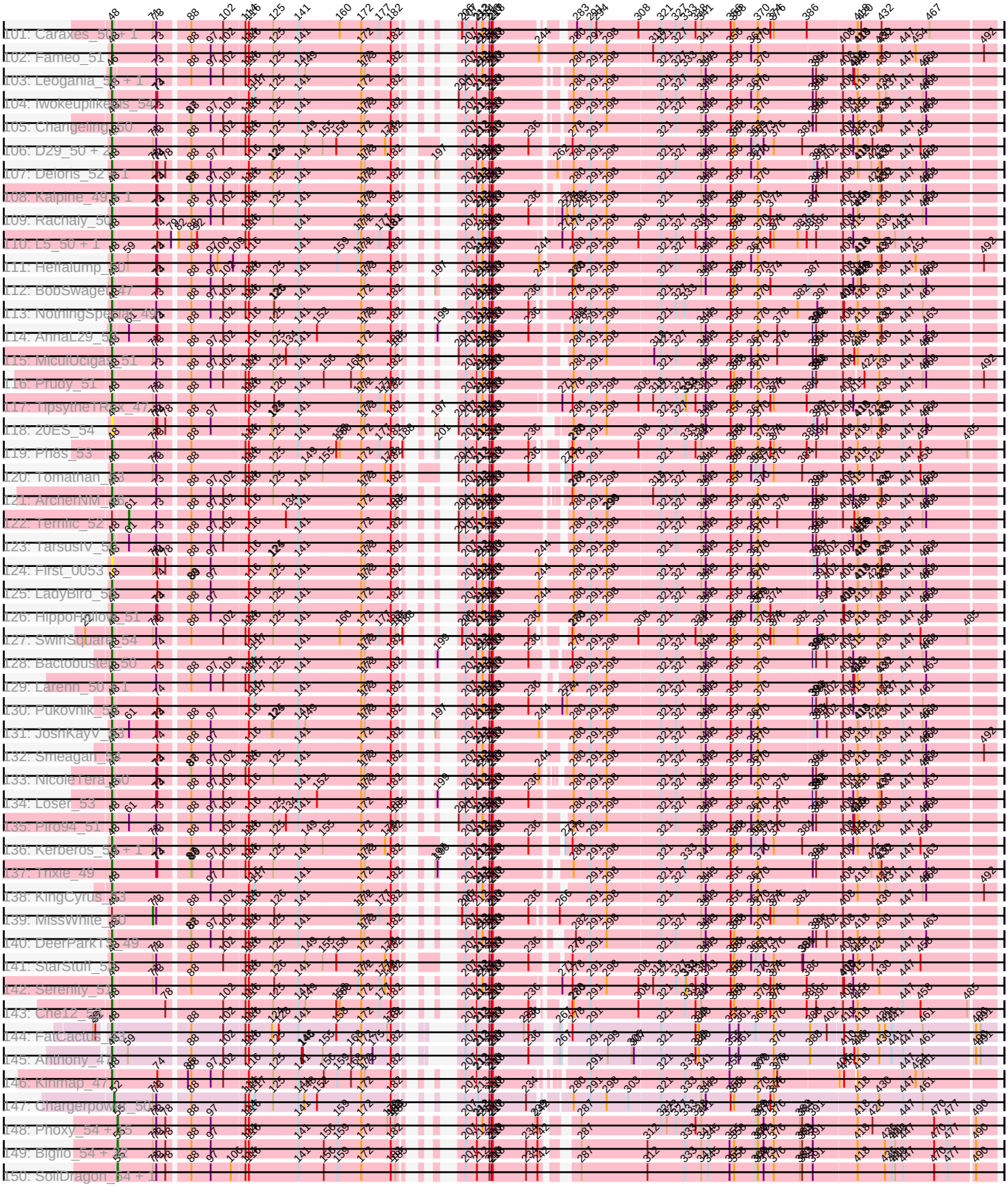
Pham 343422



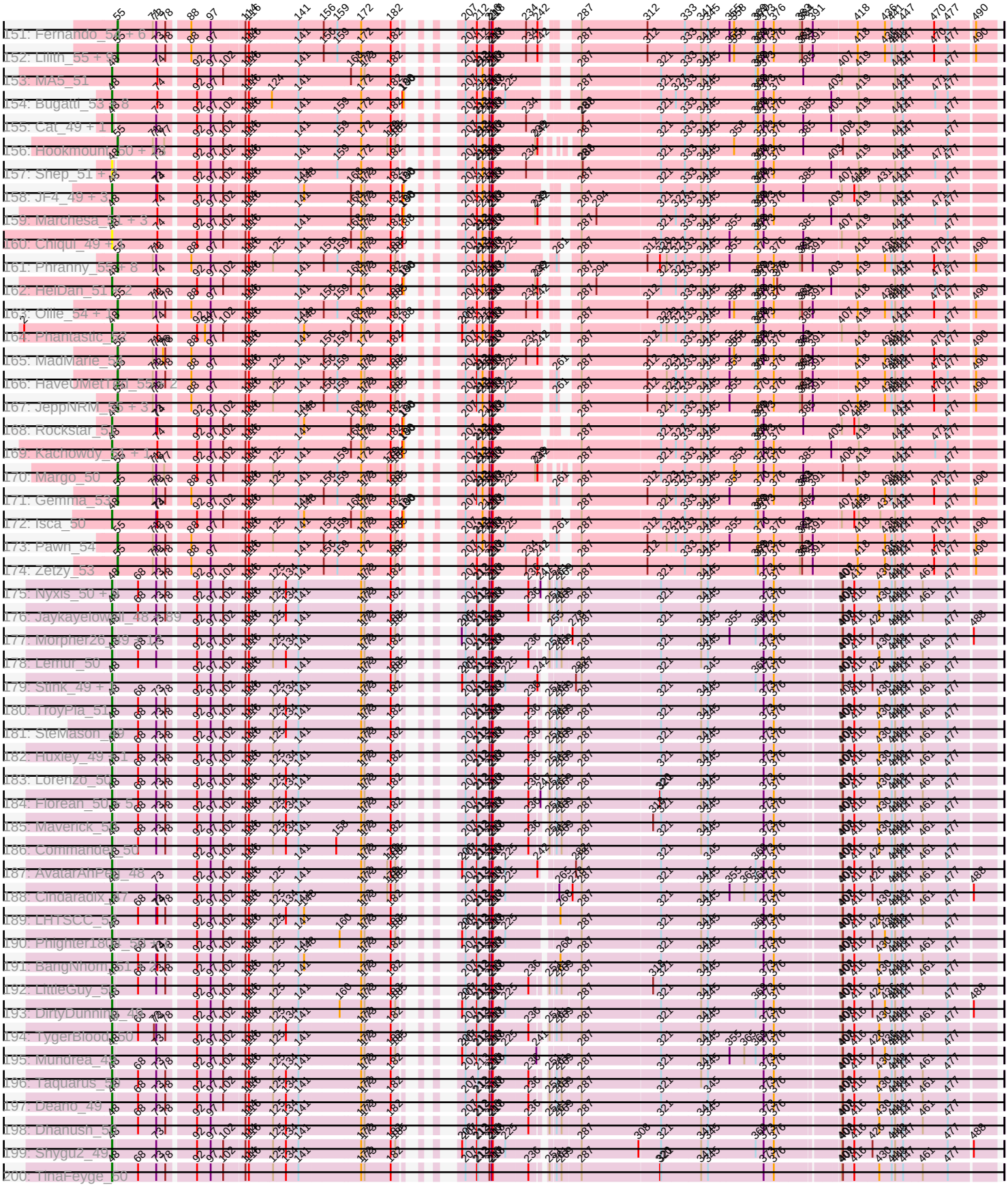
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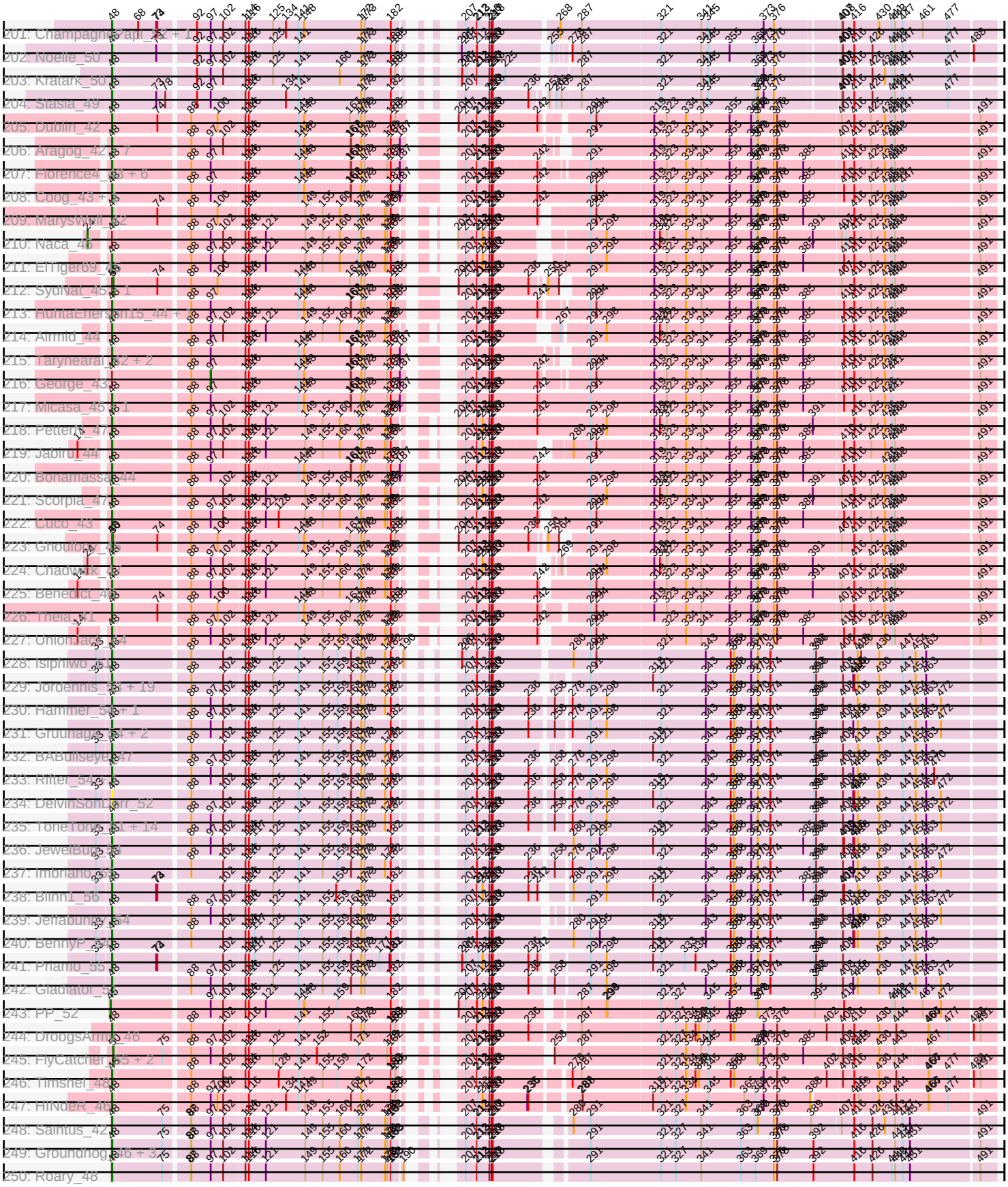
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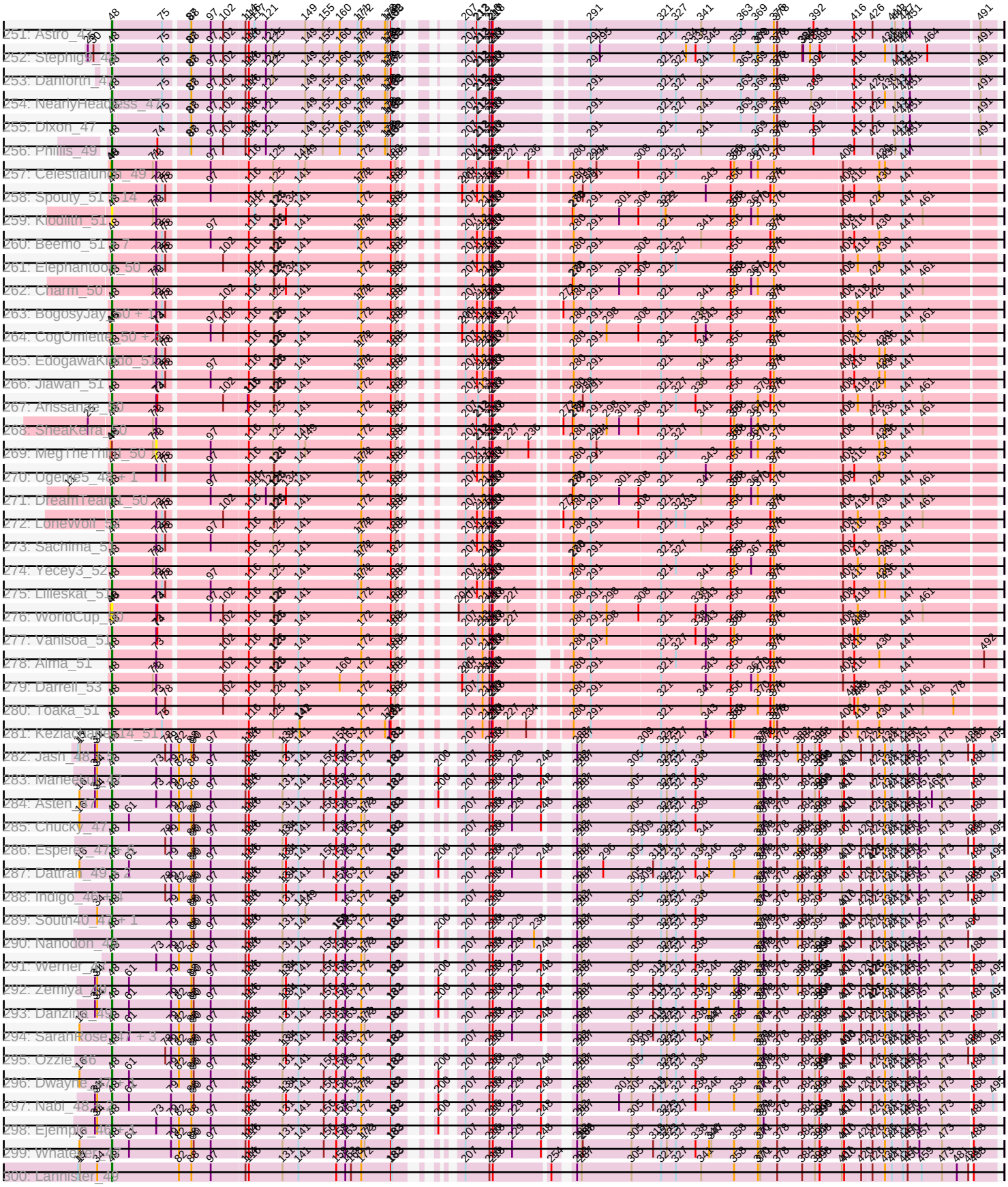
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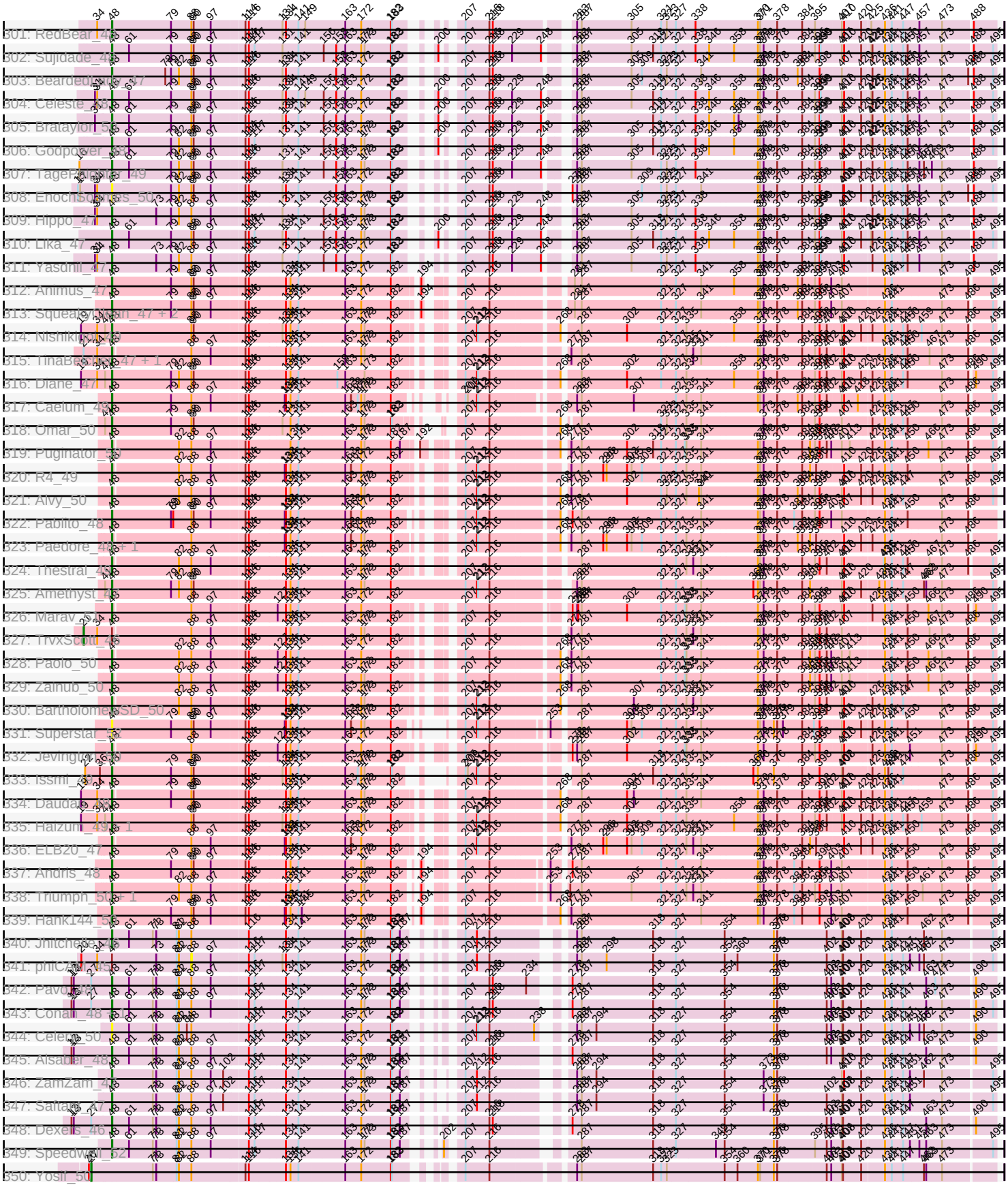
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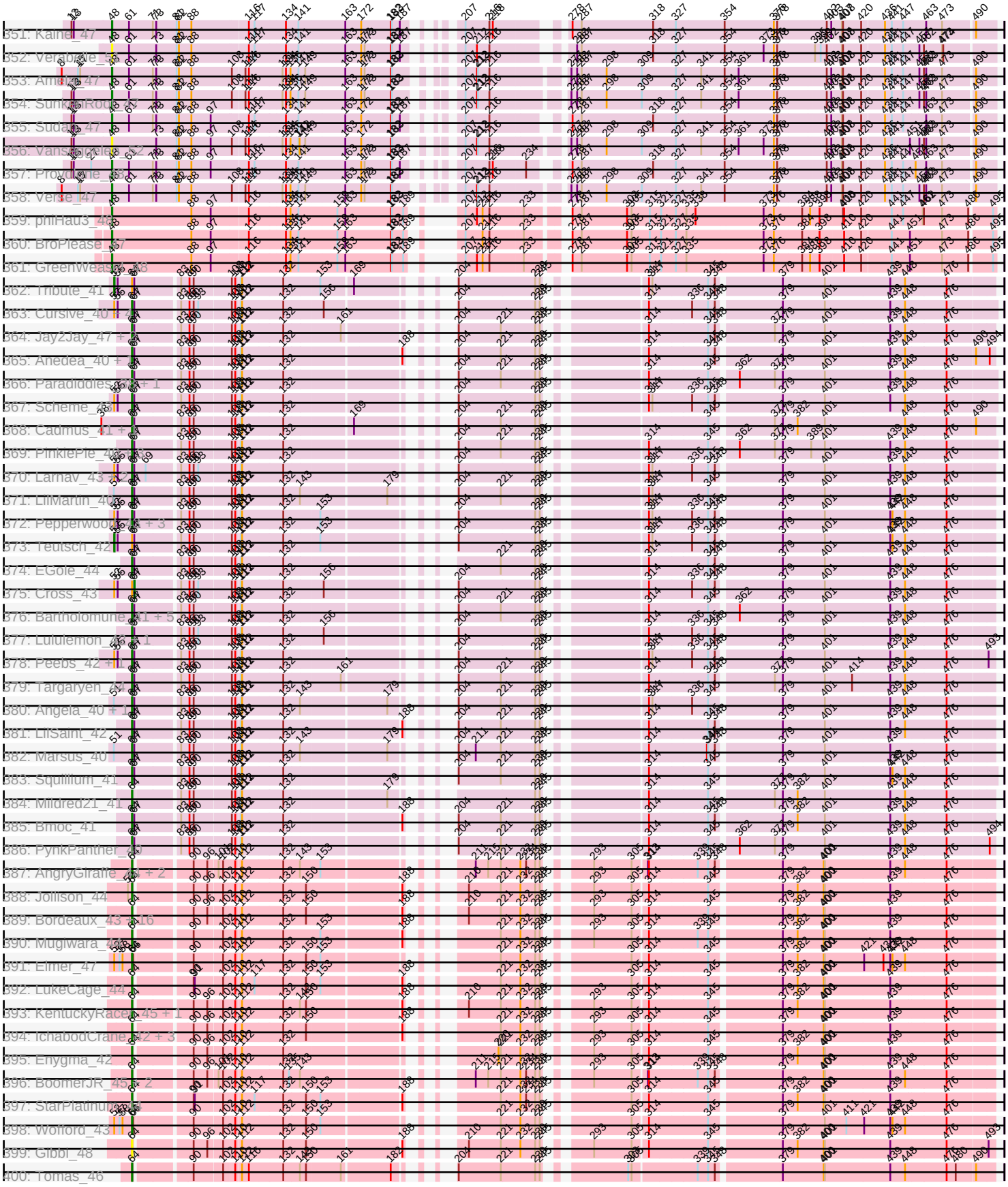
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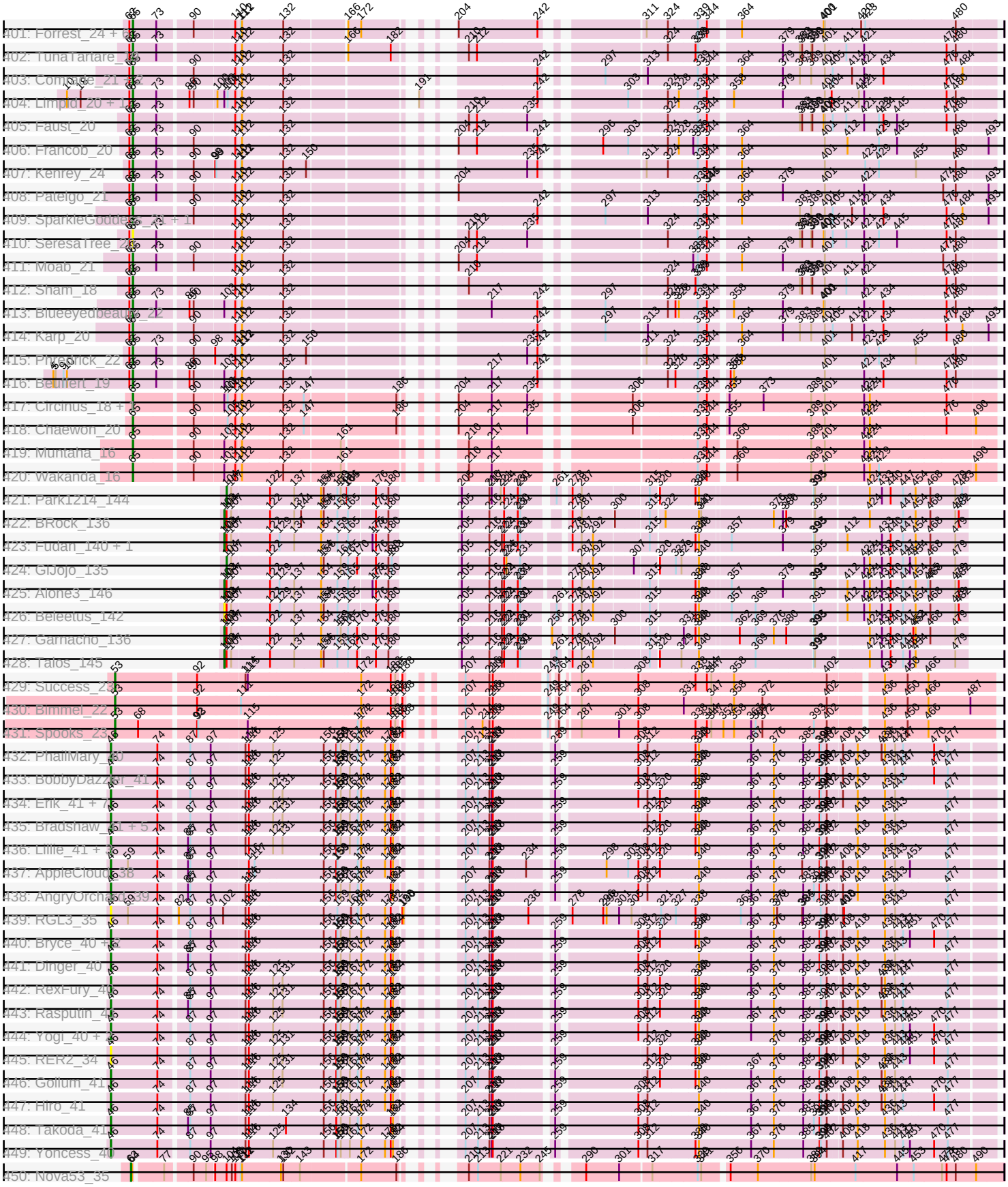
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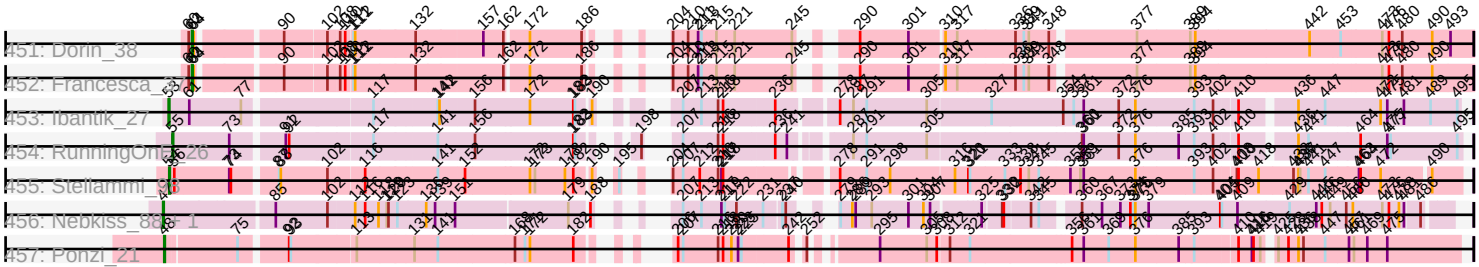
Pham 343422



Pham 343422



Pham 343422


451: Dorin_38
452: Francesca_53
453: Ibantik_27
454: RunningOnIce_26
455: Stellammi_46
456: Nebkiss_88
457: Ponzi_21

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 343422 Report

This analysis was run 11/14/26 on database version 672.

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 343422 has 961 members, 60 are drafts.

Phages represented in each track:
- Track 1 : Drake94_47
- Track 2 : WalterMcMickey_47, Rebeuca_49, Twister_47, Kristoff_49
- Track 3 : Rowdy_53, DustyMartin_53, Shapes_53
- Track 4 : Chupacabra_48, Goose_49, OKCentral2016_48
- Track 5 : DontArgue_48
- Track 6 : Trike_47, Poompha_48, Severus_47, PeaceMeal1_47, KittenMittens_46
- Track 7 : Topanga_47
- Track 8 : Eaglepride_50
- Track 9 : RhynO_50
- Track 10 : Edison31_48
- Track 11 : Kimba_51, Jabith_52, TinyTimmy_51
- Track 12 : Ebony_51, Salz_50
- Track 13 : Bud_51, Hutc2_51, Fibonacci_51
- Track 14 : Wolpertinger_50
- Track 15 : Mulciber_51, Flaverint_52, Snape_51
- Track 16 : MaCh_52, Bachome_53
- Track 17 : Et2Brutus_50
- Track 18 : Orange_51, Bowtie_52
- Track 19 : Insomnia_52
- Track 20 : Aneem_52, Joselito_52, Munch_52, Gilberta_52
- Track 21 : Saskia_52
- Track 22 : Sham4_51, Petersenfast_51
- Track 23 : Mabel_51
- Track 24 : Timothy_51
- Track 25 : Lucivia_52
- Track 26 : DarthPhader_48
- Track 27 : Refuge_50
- Track 28 : Zimmer_48
- Track 29 : Steamy_47
- Track 30 : Pharaoh_46
- Track 31 : Phlei_40
- Track 32 : Sunhee_54
- Track 33 : Gail_55

• Track 34 : Luchador_55
• Track 35 : Jeeves_55
• Track 36 : SororFago_53
• Track 37 : Strosahl_56, Remus_56
• Track 38 : Boohoo_56, LastResort_55, JSwag_55, Epsocamisio_54, Nebulosus_55, ReMo_55, Looper_56, DekHockey33_56, ShayRa_57, Anaysia_56, Ravana_58, Switzerland_56
• Track 39 : LogiBear_54
• Track 40 : KatherineG_57
• Track 41 : MinecraftSteve_57
• Track 42 : Waits_56, Warrior24_58, Oofda_56
• Track 43 : Anon_52
• Track 44 : Nedarya_51
• Track 45 : Soups_57
• Track 46 : Elle_50
• Track 47 : Rosalind_55
• Track 48 : Battleship_58
• Track 49 : PainterBoy_52, Lucyedi_52, EagleEye_53
• Track 50 : 40AC_52
• Track 51 : MyraDee_44
• Track 52 : Kimona_50
• Track 53 : Adzzy_53
• Track 54 : ChipMunk_53, EvilGenius_53
• Track 55 : Dignity_53
• Track 56 : Phaded_52, Jaan_51, Landor_51
• Track 57 : XianYue_50
• Track 58 : Georgie2_52, FiringLine_51, SemperFi_52, SweetiePie_51, SnapTap_51, Crucio_51, QueenBeesly_51
• Track 59 : ForesterFrank_50
• Track 60 : CRB1_55
• Track 61 : Acolyte_47
• Track 62 : Miko_48
• Track 63 : HarryHoudini_52
• Track 64 : Echild_51, Benvolio_48
• Track 65 : DBQu4n_53
• Track 66 : AbbyPaige_53, Whabigail7_52, LilTurb_52, Turbido_52
• Track 67 : Jsquared_49
• Track 68 : Power_50
• Track 69 : NaSiaTalie_51, Drake55_53, Baehexic_50
• Track 70 : IronMan_51
• Track 71 : Herbertwm_51
• Track 72 : EZMoney23_49
• Track 73 : WeiHuaDA_51
• Track 74 : Lokk_48
• Track 75 : GaugeLDP_49
• Track 76 : Jerm_53
• Track 77 : Quokka_49, MajorMajor_50
• Track 78 : Dalmatian_52, Anselm_52
• Track 79 : C3_49, AN9_54, ANI8_54, VC3_54
• Track 80 : Pomar16_53
• Track 81 : BabyBack_50
• Track 82 : Bugsy_53
• Track 83 : Flare16_51

• Track 84 : Travvers_53
• Track 85 : Trooper_52
• Track 86 : Odin_50
• Track 87 : Centaur_52
• Track 88 : Gratitude_52, Updawg_52, WideWale_52, Equemioh13_52
• Track 89 : RedRock_53
• Track 90 : Bradman_50
• Track 91 : Tristan_50
• Track 92 : DudeLittle_50
• Track 93 : VA6_52
• Track 94 : Sknot_51
• Track 95 : Leviathan_53
• Track 96 : QueenB2_50
• Track 97 : LionsBait_51
• Track 98 : Journey13_45
• Track 99 : Agape74_53
• Track 100 : Retro23_52
• Track 101 : Caraxes_50, Superchunk_50
• Track 102 : Fameo_51
• Track 103 : Leogania_51, BiancaTri92_51
• Track 104 : Iwokeuplikedis_54
• Track 105 : Changeling_50
• Track 106 : D29_50, Naji_53, D32_52
• Track 107 : Deloris_52, BengiVuitton_53
• Track 108 : Kalpine_49, Colin_50
• Track 109 : Rachaly_50
• Track 110 : L5_50, Koduck_52
• Track 111 : Heffalump_50
• Track 112 : BobSwaget_47
• Track 113 : NothingSpecial_49
• Track 114 : AnnaL29_53
• Track 115 : MiculUcigas_51
• Track 116 : Prudy_51
• Track 117 : TipsytheTRex_47
• Track 118 : 20ES_54
• Track 119 : Ph8s_53
• Track 120 : Tomathan_53
• Track 121 : ArcherNM_46
• Track 122 : Terrific_52
• Track 123 : TarsusIV_50
• Track 124 : First_0053
• Track 125 : LadyBird_56
• Track 126 : HippoHollow_51
• Track 127 : SwirlSquare_54
• Track 128 : Bactobuster_50
• Track 129 : Larenn_50, Malec_51
• Track 130 : Pukovnik_50
• Track 131 : JoshKayV_53
• Track 132 : Smeagan_54
• Track 133 : NicoleTera_50
• Track 134 : Loser_53
• Track 135 : Piro94_51
• Track 136 : Kerberos_53, Duplo_53

• Track 137 : Trixie_49
• Track 138 : KingCyrus_53
• Track 139 : MissWhite_50
• Track 140 : DeerParkTS_49
• Track 141 : StarStuff_53
• Track 142 : Serenity_51
• Track 143 : Che12_53
• Track 144 : FatCactus_43
• Track 145 : Anthony_47
• Track 146 : Kinmap_47
• Track 147 : Chargerpower_50
• Track 148 : Phoxy_54, Spike509_54, Methuselah_50, BuzzBuzz_52, LarryKay_54, AgronaGT15_53, KADY_54, HashRod_55, Daishi_53, Farber_54, TinyPebbles_53, Misomonster_55, Louie6_53, Soshari_56, Bxz2_50, Rummer_53
• Track 149 : Bigflo_54, Hercules11_54, Wooldri_56, Aglet_55, LBerry_55, Snickers_54, Beauxregard13_54, Anubis_57, PotatoSplit_56, P28Green_55, Sabinator_53, Vix_54, SoYo_54, DaHudson_54, BreSam8_54, Gwennie_54, Croquant_55, Phoebe_55, Dieselweasel_55, JHC117_54, Mainiac_54, Penny1_55, Grif_54, Colbster_54, EpicPhail_55, MarQuardt_54, StepMih_54, Grum1_54, GtownJaz_54, Tiffany_54, Watson_54, Stagni_54, Montavir_53
• Track 150 : SoilDragon_54, Jobu08_53
• Track 151 : Fernando_54, LugYA_57, Taurus_55, MoneyMay_54, Marie_54, JenCasNa_55, Cullens_54
• Track 152 : Lilith_55, Malinsilva_56, Grub_54, Sabia_54, MuchMore_57, PGHhamlin_56, Microwolf_54, Pembroke_54, AugsMagnumOpus_57, Lowa_54
• Track 153 : MA5_51
• Track 154 : Bugatti_53, Giroux_53, Idleandcovert_52, Pistachio_53, Clammy_53, TNguyen7_52, Puppy_53, SaturnRing_52, BlueBird_53
• Track 155 : Cat_49, BabyRay_51
• Track 156 : Hookmount_50, EtoileNova_51, Pocahontas_50, Texage_49, Popcicle_50, ResDef_50, Norbert_49, Panamaxus_48, Lambert1_50, Caviar_50, Noella_50, Veracruz_49, Todacoro_50, QuinnKiro_49
• Track 157 : Shep_51, Goose1D_45, Goose1X_51
• Track 158 : JF4_49, JF2_49, B1_46, MK4_51
• Track 159 : Marchesa_51, Roimos_51, Zarafa_51, DropBear_51
• Track 160 : Chiqui_49, BabyJohn_49
• Track 161 : Phranny_55, Manu_54, Reba_54, Calvinny_54, PurpleHaze_54, Kalb97_55, Groupthink_55, Heliosoles_53, ClownCar_54
• Track 162 : HelDan_51, Scout_51, Fred313_51
• Track 163 : Ollie_54, GingkoMaracino_54
• Track 164 : Phantastic_52
• Track 165 : MadMarie_54
• Track 166 : HaveUMetTed_55, PhishRPhriends_52, OlanP_53
• Track 167 : JeppNRM_55, ACFishhook_53, Kalnoky_55, Marius_55
• Track 168 : Rockstar_51
• Track 169 : Kachowdy_51, Heathen_51
• Track 170 : Margo_50
• Track 171 : Gemma_53
• Track 172 : Isca_50
• Track 173 : Pawn_54
• Track 174 : Zetzy_53
• Track 175 : Nyxis_50, Northrop_50, Connomayer_50, Peaches_50, Rocksand_50, Citius_50, Sabertooth_50, Holli_49, Sparxx_51, Broseidon_50

• Track 176 : Jaykayelowell_48, Relief_49, SenorClean_50, HamSlice_49, Chaph_50, JetBlade_50, Obama12_51, Caelakin_50, Clarenza_49, Phacado_50, Albee_50, Gadost_50, Wizard007_50, Burger_48, Thanksgivukkah_49, Eurydice_51, Tinybot_49, Kremtemulon_50, LeoAvram_50, MeeZee_50, Koreni_49, Eagle_50, BellusTerra_51, Eros_50, Shaka_50, Eapen_50, Junimo_49, Phontbonne_50, Ohfah_51, Annyong_50, BubbleTrouble_49, Palestino_49, OKaNui_50, ICleared_50, Wilbur_50, Mazhar510_50, Roosevelt_49, Pipcraft_48, Polymorphads_51, Millski_49, NorthStar_49, Nebs_51, NotAPhaseMom_50, Medusa_50, LittleB_50, Rosa24_49, Lunsford_51, Morrow_51, Abdiel_50, Bruiser_49, Camperdownii_48, Iracema64_51, Mayonnaise_49, Iceman_50, Houdini22_50, Koan_48, Flux_50, Eris_49, Pumbaa_50, LochMonster_51, Kingmustik0402_50, Skadoosh_51, Buckaroo_49, KekoraPapaka_50, Melvin_52, Wander_50, Nemo27_50, Ulysses_49, JoongJeon_49, PeterPeter_50, RockieBear_50, Sultana_50, Bombshell_50, Funston_49, Phelipe_51, Ruin_50, Avle17_50, Cintron_49, Alberto7_51, Maxo_51, Skipitt_49, Romney_50, Kyee_50, Scamp_50, LappelDuVide_50, Cocoaberry_50, Spino_49, KFPoly_49, Kampy_50, CentreCat_50
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• Track 178 : Lemur_50
• Track 179 : Stink_49, Miramae_48
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• Track 184 : Florean_50, Blackmoor_50, Bartimeaus_50, Baby16_50, TiroTheta9_50, Druantia_50
• Track 185 : Maverick_50
• Track 186 : Commander_50
• Track 187 : AvatarAhPeg_48
• Track 188 : Cindaradix_47
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• Track 190 : Phighter1804_50, Arturo_49
• Track 191 : BangNhom_51, Cerulean_51, SheldonCooper_52
• Track 192 : LittleGuy_50
• Track 193 : DirtyDunning_49
• Track 194 : TygerBlood_50
• Track 195 : Mundrea_49
• Track 196 : Taquarus_50
• Track 197 : Deano_49
• Track 198 : Dhanush_50
• Track 199 : Shygu2_49
• Track 200 : TinaFeyge_50
• Track 201 : ChampagnePapi_52, Happiness_49
• Track 202 : Noelle_50
• Track 203 : Kratark_50
• Track 204 : Stasia_49
• Track 205 : Dublin_42
• Track 206 : Aragog_42, Conspiracy_43, Tiger_42, PickleBack_43, AgentM_42, Jovo_43, ForGetIt_43, Lev2_43
• Track 207 : Florence4_43, Discoknowium_42, Milcery_44, Prinashe11_43, Phlorence_42, Archetta_43, Florence1_42
• Track 208 : Coog_43, Midas2_43

• Track 209 : MarysWell_42
• Track 210 : Naca_45
• Track 211 : ElTiger69_45
• Track 212 : SydNat_45, Zolita_44
• Track 213 : HuhtaEnerson15_44, LittleCherry_44
• Track 214 : Airmid_44
• Track 215 : Tarynearal_42, Swirley_46, Twigg_44
• Track 216 : George_43
• Track 217 : Micasa_45, Bluefalcon_42
• Track 218 : PetterN_47
• Track 219 : Jabiru_44
• Track 220 : Bonamassa_44
• Track 221 : Scorpia_47
• Track 222 : Cuco_43
• Track 223 : Ghoulboy_45
• Track 224 : Chadwick_47
• Track 225 : Benedict_46
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• Track 227 : UnionJack_44
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• Track 229 : Jordennis_53, SuperAwesome_53, Chartreuse_52, Candra_54, VohminGhazi_53, Pmask_53, DaVinci_52, SuperCallie99_52, Hoot_48, Dorothea_53, Kazan_54, SmellyB_53, EricB_53, Polyphemus_55, GreedyLawyer_53, Newrala_53, McFly_53, Neeharika16_52, Kipper29_53, Cookiedough_53
• Track 230 : Hammer_54, Roksolana_55
• Track 231 : Gruunaga_54, Koko_55, Hexamo_54
• Track 232 : BABullseye_47
• Track 233 : Rifter_54, Tucker_54
• Track 234 : DelvinSonDorr_52
• Track 235 : ToneTone_51, CloudWang3_54, Indra_57, Yokurt_54, Blue7_55, Zulu_55, Lilbunny_53, Artemis2UCLA_54, Helmet_56, Garak_56, WunderPhul_54, Wiks_53, Temprado_55, Zaka_54, BlessJoy_54
• Track 236 : JewelBug_54
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• Track 240 : BennyP_54
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• Track 244 : DroogsArmy_46
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• Track 250 : Roary_48
• Track 251 : Astro_47
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• Track 254 : NearlyHeadless_47
• Track 255 : Dixon_47

• Track 256 : Phillis_49
• Track 257 : Celestialunch_49
• Track 258 : Spouty_51, Qobbit_51, EmyBug_50, Phaeder_51, Fayely_51, Priya_51, Eidsmoe_51, Myxus_51, PackMan_50, Ayanochan_50, Aliter_51, Conquerage_51, Catalina_52, HortumSL17_51, Tubs_51
• Track 259 : Klodlith_51
• Track 260 : Beemo_51, RyeScarlet_51, ExplosioNervosa_51, Pioneer_51, Holex_51, Phonnegut_51, Hanray_51, Onglai_50
• Track 261 : Elephantoon_50
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• Track 263 : BogosyJay_50, Maminiaina_50
• Track 264 : CogOmlette_50, Rahalelujah_51, Minispark_50, Bellris_51
• Track 265 : EdogawaKiddo_51
• Track 266 : Jiawan_51
• Track 267 : Arissanae_50
• Track 268 : SheaKeira_50
• Track 269 : MegTheThird_50
• Track 270 : Ugenie5_48, Scherzo_51
• Track 271 : DreamTeam1_50
• Track 272 : LoneWolf_52
• Track 273 : Sachima_51
• Track 274 : Yecey3_52
• Track 275 : Lilleskat_51
• Track 276 : WorldCup_50
• Track 277 : Vanisoa_51
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• Track 283 : Maneekul_47
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• Track 285 : Chucky_47
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• Track 293 : Danzina_49
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• Track 295 : Ozzie_46
• Track 296 : Dwayne_47, Emaanora_50
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• Track 298 : Ejemplo_46, TuanPN_46
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• Track 301 : RedBear_48
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- Track 304 : Celeste_48
- Track 305 : Brataylor_50
- Track 306 : Godpower_48
- Track 307 : TagePhighter_49
- Track 308 : EnochSoames_50
- Track 309 : Hippo_47
- Track 310 : Lika_47
- Track 311 : Yasdnil_47
- Track 312 : Animus_47
- Track 313 : SqueakyClean_47, GirlDinner_47, Janus_48
- Track 314 : Nishikigoi_49
- Track 315 : TinaBelcher_47, Bowden_47
- Track 316 : Diane_47
- Track 317 : Caelum_49
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- Track 320 : R4_49
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- Track 322 : Pablito_48
- Track 323 : Paedore_48, Loofah_49
- Track 324 : Thestral_49
- Track 325 : Amethyst_47
- Track 326 : Marav_51
- Track 327 : TrvxScott_46
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- Track 329 : Zainub_50
- Track 330 : BartholomewSD_50
- Track 331 : Superstar_52
- Track 332 : Jevington_50
- Track 333 : Issmi_49
- Track 334 : Daudau_48
- Track 335 : Haizum_49, Tefunt_49
- Track 336 : ELB20_47
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- Track 338 : Triumph_50, Axiom_49
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- Track 341 : phiCAM_45
- Track 342 : Pavo_48
- Track 343 : Conan_48, ElGato_48
- Track 344 : Celery_50
- Track 345 : Alsaber_48
- Track 346 : ZamZam_47
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- Track 354 : SunkenRoot_47
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• Track 357 : Provolone_48
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• Track 365 : Anedea_40, Riptide_40
• Track 366 : Paradiddles_38, NootNoot_38
• Track 367 : Scheme_43
• Track 368 : Cadmus_41, Daubenski_44
• Track 369 : PinkiePie_40, Liandry_41, FreddyDRoo_41, Eliot67_40
• Track 370 : Larnav_43, Coogler_43, ArianaSWT_43
• Track 371 : LilMartin_40
• Track 372 : Pepperwood_43, Sushi23_43, Samisti12_42, WashU_43
• Track 373 : Teutsch_42
• Track 374 : EGole_44
• Track 375 : Cross_43
• Track 376 : Bartholomune_41, Braelyn_41, Navo_40, WhereRU_39, Davielle_39, Persimmon_38
• Track 377 : Lululemon_42, PacManQ_42
• Track 378 : Peebs_42, Shuckle_41
• Track 379 : Targaryen_44
• Track 380 : Angela_40, MulchMansion_40
• Track 381 : LilSaint_42
• Track 382 : Marsus_40
• Track 383 : Squillium_41
• Track 384 : Mildred21_41
• Track 385 : Bmoc_41
• Track 386 : PynkPanther_40
• Track 387 : AngryGiraffe_44, Genie2_45, Yaboi_45
• Track 388 : Jollison_44
• Track 389 : Bordeaux_43, Birchlyn_42, SaltySpitoon_45, AcciDwight_49, JimJam_45, Starbow_43, Tuesday_49, MindFlayer_43, Wipeout_42, Battuta_43, Quaran19_45, TomSawyer_43, Amabiko_45, Rikishi_45, Daisy123_44, Spelly_45, PumpkinSpice_44
• Track 390 : Mugiwara_44
• Track 391 : Elmer_47
• Track 392 : LukeCage_44
• Track 393 : KentuckyRacer_45, CeilingFan_44
• Track 394 : IchabodCrane_42, Karimac_44, Brizzy_44, Spilled_45
• Track 395 : Enygma_42
• Track 396 : BoomerJR_45, Stanimal_45, Sollertia_45
• Track 397 : StarPlatinum_44
• Track 398 : Wofford_43
• Track 399 : Gibbi_48
• Track 400 : Tomas_46
• Track 401 : Forrest_24, DeluluLabubu_22, Gilson_24, Emma1919_24, Maupel_24, MeganTheeKilla_22, Jada_22
• Track 402 : TunaTartare_19
• Track 403 : Comrade_21, Belfort_22, Westy_21

• Track 404 : Limpid_20, Annadreamy_20
• Track 405 : Faust_20
• Track 406 : Francob_20
• Track 407 : Kenrey_24
• Track 408 : Patelgo_21
• Track 409 : SparkleGoddess_21, Stigma_21
• Track 410 : SeresaTree_20
• Track 411 : Moab_21
• Track 412 : Sham_18
• Track 413 : Blueeyedbeauty_22
• Track 414 : Karp_20
• Track 415 : Phredrick_22
• Track 416 : Beuffert_19
• Track 417 : Circinus_18, BillNye_16
• Track 418 : Chaewon_20
• Track 419 : Muntaha_16
• Track 420 : Wakanda_16
• Track 421 : Park1214_144
• Track 422 : BRock_136
• Track 423 : Fudan_140, LuckySocke_141
• Track 424 : GiJojo_135
• Track 425 : Alone3_146
• Track 426 : Beleetus_142
• Track 427 : Garnacho_136
• Track 428 : Talos_145
• Track 429 : Success_23
• Track 430 : Bimmel_22
• Track 431 : Spooks_23
• Track 432 : PhailMary_40
• Track 433 : BobbyDazzler_41
• Track 434 : Erik_41, Nancinator_41, Shuman_41, Natosaleda_40, Espica_41, Phrankenstein_41, Belenaria_41, UhSalsa_41
• Track 435 : Bradshaw_41, StCroix_40, Krishelle_41, Naiad_40, Alatin_40, Swann_41
• Track 436 : Lillie_41, CosmicSans_41, Rhodalysa_41, TWAMP_41
• Track 437 : AppleCloud_38
• Track 438 : AngryOrchard_39
• Track 439 : RGL3_35
• Track 440 : Bryce_40, Jester_40, Harlequin_40
• Track 441 : Dinger_40
• Track 442 : RexFury_40
• Track 443 : Rasputin_41
• Track 444 : Yogi_40, Alpacados_40, Bonanza_41
• Track 445 : RER2_34
• Track 446 : Gollum_41
• Track 447 : Hiro_41
• Track 448 : Takoda_41
• Track 449 : Yoncess_40
• Track 450 : Nova53_35
• Track 451 : Dorin_38
• Track 452 : Francesca_37
• Track 453 : Ibantik_27
• Track 454 : RunningOnE_26

• Track 455 : Stellammi_98
• Track 456 : Nebkiss_88, Gaia_89
• Track 457 : Ponzi_21

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

The start number called the most often in the published annotations is 48, it was called in 546 of the 901 non-draft genes in the pham.

Genes that call this "Most Annotated" start:
• 20ES_54, 40AC_52, AN9_54, ANI8_54, Aaronocolus_47, AbbyPaige_53, AbbysRanger_49, Abdiel_50, Achebe_48, Adzzy_53, Agape74_53, AgentM_42, Airmid_44, Albee_50, Alberto7_51, Aliter_51, Alma_51, Alsaber_48, Alvy_50, Amela_47, Amethyst_47, Andris_48, Animus_47, Annyong_50, Anselm_52, Anthony_47, Aragog_42, ArcherNM_46, Archetta_43, Arissanae_50, Artemis2UCLA_54, Arturo_49, Asten_47, Astro_47, AvatarAhPeg_48, Avle17_50, Axiom_49, Ayanochan_50, B1_46, BABullseye_47, Baby16_50, BabyBack_50, BabyJohn_49, BabyRay_51, Backyardigan_48, Bactobuster_50, Badger_48, Baehexic_50, BangNhom_51, BarryBee_50, BartholomewSD_50, Bartimeaus_50, BeardedLady_47, Beemo_51, Bellris_51, BellusTerra_51, Benedict_46, BengiVuitton_53, BennyP_54, Benvolio_48, Blackmoor_50, BlessJoy_54, Blinn1_56, Blue7_55, BlueBird_53, Bluefalcon_42, BobSwaget_47, BogosyJay_50, Bombshell_50, Bonamassa_44, Bovely_47, Bowden_47, Brataylor_50, BroPlease_47, Broseidon_50, Bruiser_49, BryanRecycles_48, BubbleTrouble_49, Buckaroo_49, Bugatti_53, Bugsy_53, Bumblebee11_48, Burger_48, C3_49, CRB1_55, Caelakin_50, Caelum_49, Caitlin_47, Caliburn_46, Camperdownii_48, Candra_54, Caraxes_50, Cat_49, Catalina_52, Celery_50, Celeste_48, Celestialunch_49, Centaur_52, CentreCat_50, Cerulean_51, Chadwick_47, ChampagnePapi_52, Changeling_50, Chaph_50, Charm_50, Chartreuse_52, Che12_53, ChipMunk_53, Chiqui_49, Chucky_47, Cici_49, Cindaradix_47, Cintron_49, Citius_50, Clammy_53, Clarenza_49, CloudWang3_54, Cocoaberry_50, CogOmlette_50, Colin_50, Commander_50, Conan_48, Connomayer_50, Conquerage_51, Conspiracy_43, Coog_43, Cookiedough_53, Crucio_51, Cuco_43, D29_50, D32_52, DBQu4n_53, DaVinci_52, Dalmatian_52, Danforth_47, Danzina_49, Darrell_53, DarthPhader_48, Dattran_49, Datway_49, Daudau_48, Deano_49, DeerParkTS_49, Deloris_52, DelvinSonDorr_52, Dexers_46, Dhanush_50, Diane_47, Dignity_53, DirtyDunning_49, Discoknowium_42, Dixon_47, Dorothea_53, Drake55_53, DreamTeam1_50, DroogsArmy_46, DropBear_51, Druantia_50, Dublin_42, DudeLittle_50, Duplo_53, Dwayne_47, ELB20_47, EZMoney23_49, EagleEye_53, Eagle_50, Eapen_50, Echild_51, Eddasa_48, EdogawaKiddo_51, Eidsmoe_51, Ejemplo_46, ElGato_48, ElTiger69_45, Elephantoon_50, Emaanora_50, EmyBug_50, EnochSoames_50, Equemioh13_52, EricB_53, Eris_49, Eros_50, Esperer_47, Eurydice_51, EvilGenius_53, Expelliarmus_47, ExplosioNervosa_51, Fameo_51, FatCactus_43, Fayely_51, FiringLine_51, First_0053, Flare16_51, Florean_50, Florence1_42, Florence4_43, Flux_50, ForGetIt_43, ForesterFrank_50, Fred313_51, Funston_49, Gadost_50, Gail_55, Garak_56, GaugeLDP_49, Georgie2_52, Ghoulboy_45, GirlDinner_47, Giroux_53, Gladiator_51, Goby_47, Godpower_48, Goose1D_45, Goose1X_51, Gratitude_52, GreedyLawyer_53, GreenWeasel_48, Groundhog_46, Gruunaga_54, HINdeR_46, Haizum_49, HamSlice_49, Hammer_54, Hank144_50, Hanray_51,

Happiness_49, HarryHoudini_52, Heathen_51, Heffalump_50, HelDan_51, Helmet_56, Herbertwm_51, Hexamo_54, HippoHollow_51, Hippo_47, Holex_51, Holli_49, Hoot_48, HortumSL17_51, Houdini22_50, HuhtaEnerson15_44, Huxley_49, Hydra_48, ICleared_50, Iceman_50, Idleandcovert_52, Imbriano_55, Indigo_46, Indra_57, Iracema64_51, IronMan_51, Isca_50, Isiphiwo_51, Issmi_49, Iwokeuplikedis_54, Izzy_48, JF2_49, JF4_49, Jaan_51, Jabiru_44, Janus_48, Jash_48, Jaykayelowell_48, Jeeves_55, Jeffabunny_54, Jerm_53, JetBlade_50, Jevington_50, JewelBug_54, Jhitchelle_46, Jiawan_51, JoongJeon_49, Jordennis_53, JoshKayV_53, Journey13_45, Jovo_43, Jsquared_49, Junimo_49, KFPoly_49, Kachowdy_51, Kaine_47, Kalpine_49, Kampy_50, Katalie136_49, Katalie_47, Kazan_54, KekoraPapaka_50, Kerberos_53, Keziacharles14_51, Kimona_50, KingCyrus_53, Kingmustik0402_50, Kinmap_47, Kipper29_53, Klodlith_51, Koan_48, Koduck_52, Koko_55, Koreni_49, Kratark_50, Kremtemulon_50, Kyee_50, L5_50, LHTSCC_52, LadyBird_56, Landor_51, Lannister_49, LappelDuVide_50, Larenn_50, Legacy_46, Lemur_50, LeoAvram_50, Lev2_43, Leviathan_53, Leviticus_47, Lika_47, LilTurb_52, Lilbunny_53, Lilleskat_51, LionsBait_51, LittleB_50, LittleCherry_44, LittleGuy_50, LochMonster_51, Lokk_48, LoneWolf_52, Loofah_49, Lorelei_48, Lorenzo_50, Loser_53, Luchador_55, Lucyedi_52, Lunsford_51, MA5_51, MK4_51, Malec_51, Maminiaina_50, Maneekul_47, Marav_51, Marchesa_51, MarysWell_42, Maverick_50, Maxo_51, Mayonnaise_49, Mazhar510_50, McFly_53, Medusa_50, MeeZee_50, Melvin_52, Micasa_45, MiculUcigas_51, Midas2_43, Miko_48, Milcery_44, Millski_49, Minispark_50, Miramae_48, Morpher26_49, Morrow_51, Mundrea_49, MyraDee_44, Myxus_51, NaSiaTalie_51, Nabi_48, Naji_53, Nanodon_49, NearlyHeadless_47, Nebs_51, Neeharika16_52, Nemo27_50, Nerdos_46, Newrala_53, NicoleTera_50, Nishikigoi_49, Noelle_50, NorthStar_49, Northrop_50, NotAPhaseMom_50, NothingSpecial_49, Nyxis_50, OKaNui_50, Obama12_51, Ohfah_51, Oliynyk_48, Omar_50, Onglai_50, Ozzie_46, OzzyJ_48, Pablito_48, PackMan_50, Paedore_48, PainterBoy_52, Palestino_49, Paolo_50, Pavo_48, Peaches_50, Perplexer_49, PeterPeter_50, PetiteSangsue_49, PetterN_47, Ph8s_53, Phacado_50, Phaded_52, Phaeder_51, Phantastic_52, Pharaoh_46, Phelipe_51, Phettuccine_47, Phighter1804_50, Phillis_49, Phlorence_42, Phonnegut_51, Phontbonne_50, PickleBack_43, Pioneer_51, Pipcraft_48, Piro94_51, Pistachio_53, Pmask_53, Polymorphads_51, Polyphemus_55, Pomar16_53, Ponzi_21, Power_50, Priamo_55, Prinashe11_43, Priya_51, Provolone_48, Prudy_51, Puginator_50, Pukovnik_50, Pumbaa_50, Puppy_53, Qobbit_51, QueenB2_50, QueenBeesly_51, R4_49, Rachaly_50, Rahalelujah_51, Rana_48, RedBear_48, RedRock_53, Refuge_50, Relief_49, Retro23_52, Rifter_54, Roary_48, RockieBear_50, Rocksand_50, Rockstar_51, Roimos_51, Roksolana_55, Romney_50, Roosevelt_49, Rosa24_49, Ruin_50, Rusticus_48, RyeScarlet_51, Sabertooth_50, Sachima_51, Saftant_47, Saintus_42, SarahRose_47, SaturnRing_52, Scamp_50, Scherzo_51, Scorpia_47, Scout_51, SemperFi_52, SenorClean_50, Serenity_51, Shaka_50, SheaKeira_50, SheldonCooper_52, Shep_51, Shygu2_49, Skadoosh_51, Skipitt_49, Sknot_51, Smeadley_48, Smeagan_54, SmellyB_53, SnapTap_51, Snorlax_47, SororFago_53, South40_47, Sparxx_51, Speedwell_52, Spino_49, Spouty_51, SqueakyClean_47, StarStuff_53, Stasia_49, SteMason_49, Steamy_47, Stephig9_48, Stink_49, Sudan_47, Sujidade_48, Sultana_50, Sunhee_54, SunkenRoot_47, SunsetPointe_46, SuperAwesome_53, SuperCallie99_52, Superchunk_50, Superstar_52, SweetiePie_51, SwirlSquare_54, Swirley_46, TNguyen7_52, TagePhighter_49, Taquarus_50, TarsusIV_50, Tarynearal_42, Tefunt_49, Temprado_55, Thanksgivukkah_49, Theia_41, Thestral_49, Tiger_42, Timshel_48, TinaBelcher_47, TinaFeyge_50, Tinybot_49, TipsytheTRex_47, TiroTheta9_50, Toaka_51, Toma_47, Tomathan_53, ToneTone_51, Tristan_50, Triumph_50,

Trixie_49, Trooper_52, TroyPia_51, TuanPN_46, Tubs_51, Tucker_54, Turbido_52, Twigg_44, TygerBlood_50, Ugenie5_48, Ulysses_49, UnionJack_44, Unstoppable_47, Updawg_52, VA6_52, VC3_54, Vanisoa_51, Vanseggelen_52, Verabelle_51, Verse_47, VohminGhazi_53, Wander_50, WeiHuaDA_51, Werner_47, Whabigail7_52, Whatever_47, WideWale_52, Wiks_53, Wilbur_50, Wile_49, Wizard007_50, WorldCup_50, WunderPhul_54, Xena_48, XianYue_50, Yasdnil_47, Yecey3_52, YoSam321_50, Yokurt_54, Zainub_50, Zaka_54, ZamZam_47, Zarafa_51, Zemlya_49, Zimmer_48, Zulu_55, phiHau3_48,

Genes that have the "Most Annotated" start but do not call it:
• Acolyte_47, Bradman_50, George_43, MajorMajor_50, MegTheThird_50, MissWhite_50, Naca_45, Quokka_49, SydNat_45, Terrific_52, Travvers_53, TrvxScott_46, Zolita_44, phiCAM_45,

Genes that do not have the "Most Annotated" start:
• ACFishhook_53, AcciDwight_49, Aglet_55, AgronaGT15_53, Alatin_40, Alone3_146, Alpacados_40, Amabiko_45, Anaysia_56, Anedea_40, Aneem_52, Angela_40, AngryGiraffe_44, AngryOrchard_39, AnnaL29_53, Annadreamy_20, Anon_52, Anubis_57, AppleCloud_38, ArianaSWT_43, AugsMagnumOpus_57, BRock_136, Bachome_53, Bartholomune_41, Battleship_58, Battuta_43, Beauxregard13_54, Beleetus_142, Belenaria_41, Belfort_22, Beuffert_19, BiancaTri92_51, Bigflo_54, BillNye_16, Bimmel_22, Birchlyn_42, BlueOtter_43, Blueeyedbeauty_22, Bmoc_41, BobbyDazzler_41, Bonanza_41, Boohoo_56, BoomerJR_45, Bordeaux_43, Bowtie_52, Bradshaw_41, Braelyn_41, BreSam8_54, Brizzy_44, Bryce_40, Bud_51, BuzzBuzz_52, Bxz2_50, Cadmus_41, Calvinny_54, Caviar_50, CeilingFan_44, Chaewon_20, Chargerpower_50, Chupacabra_48, Circinus_18, ClownCar_54, Colbster_54, Comrade_21, Coogler_43, CosmicSans_41, Croquant_55, Cross_43, Cullens_54, Cursive_40, DaHudson_54, Daishi_53, Daisy123_44, Daubenski_44, Davielle_39, DekHockey33_56, DeluluLabubu_22, Dieselweasel_55, Dinger_40, DontArgue_48, Dorin_38, Drake94_47, DustyMartin_53, EGole_44, Eaglepride_50, Ebony_51, Edison31_48, Eliot67_40, Elle_50, Elmer_47, Emma1919_24, Enygma_42, EpicPhail_55, Epsocamisio_54, Erik_41, Espica_41, Et2Brutus_50, EtoileNova_51, Evy_44, Farber_54, Faust_20, Fernando_54, Fibonacci_51, Flaverint_52, FlyCatcher_55, Forrest_24, Francesca_37, Francob_20, FreddyDRoo_41, Fudan_140, Gaia_89, Garnacho_136, Gemma_53, Genie2_45, GiJojo_135, Gibbi_48, Gilberta_52, Gilson_24, GingkoMaracino_54, Gollum_41, Goose_49, Grif_54, Groupthink_55, Grub_54, Grum1_54, GtownJaz_54, Gwennie_54, HangryHippo_43, Harlequin_40, HashRod_55, HaveUMetTed_55, Heliosoles_53, Hercules11_54, Hiro_41, Hookmount_50, Hutc2_51, Ibantik_27, IchabodCrane_42, Insomnia_52, JHC117_54, JSwag_55, Jabith_52, Jada_22, Jay2Jay_47, JenCasNa_55, JeppNRM_55, Jester_40, JimJam_45, Jobu08_53, Jollison_44, Joselito_52, KADY_54, Kalb97_55, Kalnoky_55, Karimac_44, Karp_20, KatherineG_57, Kenrey_24, KentuckyRacer_45, Kimba_51, KittenMittens_46, Krishelle_41, Kristoff_49, LBerry_55, Lambert1_50, Larnav_43, LarryKay_54, LastResort_55, Leo04_43, Leogania_51, Liandry_41, LilMartin_40, LilSaint_42, Lilith_55, Lillie_41, Limpid_20, LogiBear_54, Looper_56, Louie6_53, Lowa_54, Lucivia_52, LuckySocke_141, LugYA_57, LukeCage_44, Lululemon_42, MaCh_52, Mabel_51, MadMarie_54, Mainiac_54, Malinsilva_56, Manu_54, MarQuardt_54, Margo_50, Marie_54, Marius_55, Marsus_40, Maupel_24, MeganTheeKilla_22, Methuselah_50, Microwolf_54, Mildred21_41, MindFlayer_43, MinecraftSteve_57, Misomonster_55, Moab_21, MoneyMay_54, Montavir_53, MuchMore_57, Mugiwara_44, MulchMansion_40, Mulciber_51, Munch_52, Muntaha_16, Naiad_40, Nancinator_41, Natosaleda_40, Navo_40, Nebkiss_88,

Nebulosus_55, Nedarya_51, Noella_50, NootNoot_38, Norbert_49, Nova53_35, OKCentral2016_48, Odin_50, OlanP_53, Ollie_54, Oofda_56, Orange_51, P28Green_55, PGHhamlin_56, PP_52, PacManQ_42, Panamaxus_48, Paradiddles_38, Park1214_144, Patelgo_21, Pawn_54, PeaceMeal1_47, Peebs_42, Pembroke_54, Penny1_55, Pepperwood_43, Persimmon_38, Petersenfast_51, PhailMary_40, PhishRPhriends_52, Phlei_40, Phoebe_55, Phoxy_54, Phrankenstein_41, Phranny_55, Phredrick_22, PinkiePie_40, Pocahontas_50, Poompha_48, Popcicle_50, PotatoSplit_56, PumpkinSpice_44, PurpleHaze_54, PynkPanther_40, Quaran19_45, QuinnKiro_49, RER2_34, RGL3_35, Rasputin_41, Ravana_58, ReMo_55, Reba_54, Rebeuca_49, Remus_56, ResDef_50, RexFury_40, Rhodalysa_41, RhynO_50, Rikishi_45, Riptide_40, Rosalind_55, Rowdy_53, Rummer_53, RunningOnE_26, Sabia_54, Sabinator_53, SaltySpitoon_45, Salz_50, Samisti12_42, Saskia_52, Scheme_43, SeresaTree_20, Severus_47, Sham4_51, Sham_18, Shapes_53, ShayRa_57, Sheen_51, Shuckle_41, Shuman_41, Snape_51, Snickers_54, SoYo_54, SoilDragon_54, Sollertia_45, Soshari_56, Soups_57, SparkleGoddess_21, Spelly_45, Spike509_54, Spilled_45, Spooks_23, Squillium_41, StCroix_40, Stagni_54, Stanimal_45, StarPlatinum_44, Starbow_43, Stellammi_98, StepMih_54, Stigma_21, Strosahl_56, Success_23, Sushi23_43, Swann_41, Switzerland_56, TWAMP_41, Takoda_41, Talos_145, Targaryen_44, Taurus_55, Teutsch_42, Texage_49, Tiffany_54, Timothy_51, TinyPebbles_53, TinyTimmy_51, Todacoro_50, TomSawyer_43, Tomas_46, Topanga_47, Toro_53, Tribute_41, Trike_47, Tuesday_49, TunaTartare_19, Twister_47, UhSalsa_41, Veracruz_49, Vix_54, Waits_56, Wakanda_16, WalterMcMickey_47, Warpy_47, Warrior24_58, WashU_43, Watermoore_42, Watson_54, Westy_21, WhereRU_39, Wipeout_42, Wofford_43, Wolpertinger_50, Wooldri_56, Yaboi_45, Yogi_40, Yoncess_40, Yosif_50, Zetzy_53,

Summary by start number:

Start 21:
• Found in 3 of 961 (0.3%) of genes in pham
• Manual Annotations of this start: 1 of 901
• Called 33.3% of time when present
• Phage (with cluster) where this start called: TrvxScott_46 (BD2),

Start 24:
• Found in 2 of 961 (0.2%) of genes in pham
• Manual Annotations of this start: 1 of 901
• Called 50.0% of time when present
• Phage (with cluster) where this start called: Naca_45 (A5),

Start 27:
• Found in 7 of 961 (0.7%) of genes in pham
• Manual Annotations of this start: 1 of 901
• Called 14.3% of time when present
• Phage (with cluster) where this start called: Yosif_50 (BD3),

Start 35:
• Found in 21 of 961 (2.2%) of genes in pham
• Manual Annotations of this start: 17 of 901
• Called 100.0% of time when present
• Phage (with cluster) where this start called: Chupacabra_48 (A10), DontArgue_48 (A10), Drake94_47 (A10), DustyMartin_53 (A10), Eaglepride_50 (A10), Edison31_48

(A10), Goose_49 (A10), KittenMittens_46 (A10), Kristoff_49 (A10), OKCentral2016_48 (A10), PeaceMeal1_47 (A10), Poompha_48 (A10), Rebeuca_49 (A10), RhynO_50 (A10), Rowdy_53 (A10), Severus_47 (A10), Shapes_53 (A10), Topanga_47 (A10), Trike_47 (A10), Twister_47 (A10), WalterMcMickey_47 (A10),

Start 37:
• Found in 1 of 961 (0.1%) of genes in pham
• Manual Annotations of this start: 1 of 901
• Called 100.0% of time when present
• Phage (with cluster) where this start called: Odin_50 (A2),

Start 38:
• Found in 3 of 961 (0.3%) of genes in pham
• Manual Annotations of this start: 1 of 901
• Called 33.3% of time when present
• Phage (with cluster) where this start called: Acolyte_47 (A2),

Start 42:
• Found in 26 of 961 (2.7%) of genes in pham
• Manual Annotations of this start: 25 of 901
• Called 100.0% of time when present
• Phage (with cluster) where this start called: Anaysia_56 (A15), Anon_52 (A15), Battleship_58 (A15), Boohoo_56 (A15), DekHockey33_56 (A15), Elle_50 (A15), Epsocamisio_54 (A15), JSwag_55 (A15), KatherineG_57 (A15), LastResort_55 (A15), LogiBear_54 (A15), Looper_56 (A15), MinecraftSteve_57 (A15), Nebulosus_55 (A15), Nedarya_51 (A15), Oofda_56 (A15), Ravana_58 (A15), ReMo_55 (A15), Remus_56 (A15), Rosalind_55 (A15), ShayRa_57 (A15), Soups_57 (A15), Strosahl_56 (A15), Switzerland_56 (A15), Waits_56 (A15), Warrior24_58 (A15),

Start 45:
• Found in 1 of 961 (0.1%) of genes in pham
• Manual Annotations of this start: 1 of 901
• Called 100.0% of time when present
• Phage (with cluster) where this start called: PP_52 (A7),

Start 46:
• Found in 47 of 961 (4.9%) of genes in pham
• Manual Annotations of this start: 38 of 901
• Called 85.1% of time when present
• Phage (with cluster) where this start called: Alatin_40 (CA), Alpacados_40 (CA), AngryOrchard_39 (CA), AnnaL29_53 (A2), AppleCloud_38 (CA), Belenaria_41 (CA), BiancaTri92_51 (A2), BobbyDazzler_41 (CA), Bonanza_41 (CA), Bradshaw_41 (CA), Bryce_40 (CA), CosmicSans_41 (CA), Dinger_40 (CA), Erik_41 (CA), Espica_41 (CA), Gollum_41 (CA), Harlequin_40 (CA), Hiro_41 (CA), Jester_40 (CA), Krishelle_41 (CA), Leogania_51 (A2), Lillie_41 (CA), Naiad_40 (CA), Nancinator_41 (CA), Natosaleda_40 (CA), PhailMary_40 (CA), Phrankenstein_41 (CA), RER2_34 (CA), RGL3_35 (CA), Rasputin_41 (CA), RexFury_40 (CA), Rhodalysa_41 (CA), Shuman_41 (CA), StCroix_40 (CA), Swann_41 (CA), TWAMP_41 (CA), Takoda_41 (CA), UhSalsa_41 (CA), Yogi_40 (CA), Yoncess_40 (CA),

Start 47:
• Found in 2 of 961 (0.2%) of genes in pham
• Manual Annotations of this start: 2 of 901

• Called 100.0% of time when present
• Phage (with cluster) where this start called: Gaia_89 (X), Nebkiss_88 (X),

Start 48:
• Found in 594 of 961 (61.8%) of genes in pham
• Manual Annotations of this start: 546 of 901
• Called 97.6% of time when present
• Phage (with cluster) where this start called: 20ES_54 (A2), 40AC_52 (A17), AN9_54 (A2), ANI8_54 (A2), Aaronocolus_47 (BD1), AbbyPaige_53 (A2), AbbysRanger_49 (A4), Abdiel_50 (A4), Achebe_48 (A4), Adzzy_53 (A2), Agape74_53 (A2), AgentM_42 (A5), Airmid_44 (A5), Albee_50 (A4), Alberto7_51 (A4), Aliter_51 (A9), Alma_51 (A9), Alsaber_48 (BD3), Alvy_50 (BD2), Amela_47 (BD3), Amethyst_47 (BD2), Andris_48 (BD2), Animus_47 (BD2), Annyong_50 (A4), Anselm_52 (A2), Anthony_47 (A20), Aragog_42 (A5), ArcherNM_46 (A2), Archetta_43 (A5), Arissanae_50 (A9), Artemis2UCLA_54 (A6), Arturo_49 (A4), Asten_47 (BD1), Astro_47 (A8), AvatarAhPeg_48 (A4), Avle17_50 (A4), Axiom_49 (BD2), Ayanochan_50 (A9), B1_46 (A3), BABullseye_47 (A6), Baby16_50 (A4), BabyBack_50 (A2), BabyJohn_49 (A3), BabyRay_51 (A3), Backyardigan_48 (A4), Bactobuster_50 (A2), Badger_48 (A4), Baehexic_50 (A2), BangNhom_51 (A4), BarryBee_50 (BD1), BartholomewSD_50 (BD2), Bartimeaus_50 (A4), BeardedLady_47 (BD1), Beemo_51 (A9), Bellris_51 (A9), BellusTerra_51 (A4), Benedict_46 (A5), BengiVuitton_53 (A2), BennyP_54 (A6), Benvolio_48 (A2), Blackmoor_50 (A4), BlessJoy_54 (A6), Blinn1_56 (A6), Blue7_55 (A6), BlueBird_53 (A3), Bluefalcon_42 (A5), BobSwaget_47 (A2), BogosyJay_50 (A9), Bombshell_50 (A4), Bonamassa_44 (A5), Bovely_47 (BD1), Bowden_47 (BD2), Brataylor_50 (BD1), BroPlease_47 (BD4), Broseidon_50 (A4), Bruiser_49 (A4), BryanRecycles_48 (BD1), BubbleTrouble_49 (A4), Buckaroo_49 (A4), Bugatti_53 (A3), Bugsy_53 (A2), Bumblebee11_48 (A4), Burger_48 (A4), C3_49 (A2), CRB1_55 (A2), Caelakin_50 (A4), Caelum_49 (BD2), Caitlin_47 (A8), Caliburn_46 (BD1), Camperdownii_48 (A4), Candra_54 (A6), Caraxes_50 (A2), Cat_49 (A3), Catalina_52 (A9), Celery_50 (BD3), Celeste_48 (BD1), Celestialunch_49 (A9), Centaur_52 (A2), CentreCat_50 (A4), Cerulean_51 (A4), Chadwick_47 (A5), ChampagnePapi_52 (A4), Changeling_50 (A2), Chaph_50 (A4), Charm_50 (A9), Chartreuse_52 (A6), Che12_53 (A2), ChipMunk_53 (A2), Chiqui_49 (A3), Chucky_47 (BD1), Cici_49 (A4), Cindaradix_47 (A4), Cintron_49 (A4), Citius_50 (A4), Clammy_53 (A3), Clarenza_49 (A4), CloudWang3_54 (A6), Cocoaberry_50 (A4), CogOmlette_50 (A9), Colin_50 (A2), Commander_50 (A4), Conan_48 (BD3), Connomayer_50 (A4), Conquerage_51 (A9), Conspiracy_43 (A5), Coog_43 (A5), Cookiedough_53 (A6), Crucio_51 (A2), Cuco_43 (A5), D29_50 (A2), D32_52 (A2), DBQu4n_53 (A2), DaVinci_52 (A6), Dalmatian_52 (A2), Danforth_47 (A8), Danzina_49 (BD1), Darrell_53 (A9), DarthPhader_48 (A12), Dattran_49 (BD1), Datway_49 (A4), Daudau_48 (BD2), Deano_49 (A4), DeerParkTS_49 (A2), Deloris_52 (A2), DelvinSonDorr_52 (A6), Dexers_46 (BD3), Dhanush_50 (A4), Diane_47 (BD2), Dignity_53 (A2), DirtyDunning_49 (A4), Discoknowium_42 (A5), Dixon_47 (A8), Dorothea_53 (A6), Drake55_53 (A2), DreamTeam1_50 (A9), DroogsArmy_46 (A7), DropBear_51 (A3), Druantia_50 (A4), Dublin_42 (A5), DudeLittle_50 (A2), Duplo_53 (A2), Dwayne_47 (BD1), ELB20_47 (BD2), EZMoney23_49 (A2), EagleEye_53 (A16), Eagle_50 (A4), Eapen_50 (A4), Echild_51 (A2), Eddasa_48 (BD1), EdogawaKiddo_51 (A9), Eidsmoe_51 (A9), Ejemplo_46 (BD1), ElGato_48 (BD3), ElTiger69_45 (A5), Elephantoon_50 (A9), Emaanora_50 (BD1), EmyBug_50 (A9), EnochSoames_50 (BD1), Equemioh13_52 (A2), EricB_53 (A6), Eris_49 (A4), Eros_50 (A4), Esperer_47 (BD1), Eurydice_51 (A4), EvilGenius_53 (A2), Expelliarmus_47 (A8), ExplosioNervosa_51 (A9), Fameo_51 (A2), FatCactus_43 (A20), Fayely_51 (A9), FiringLine_51 (A2), First_0053 (A2), Flare16_51 (A2), Florean_50 (A4), Florence1_42

(A5), Florence4_43 (A5), Flux_50 (A4), ForGetIt_43 (A5), ForesterFrank_50 (A2), Fred313_51 (A3), Funston_49 (A4), Gadost_50 (A4), Gail_55 (A14), Garak_56 (A6), GaugeLDP_49 (A2), Georgie2_52 (A2), Ghoulboy_45 (A5), GirlDinner_47 (BD2), Giroux_53 (A3), Gladiator_51 (A6), Goby_47 (BD1), Godpower_48 (BD1), Goose1D_45 (A3), Goose1X_51 (A3), Gratitude_52 (A2), GreedyLawyer_53 (A6), GreenWeasel_48 (BD4), Groundhog_46 (A8), Gruunaga_54 (A6), HINdeR_46 (A7), Haizum_49 (BD2), HamSlice_49 (A4), Hammer_54 (A6), Hank144_50 (BD2), Hanray_51 (A9), Happiness_49 (A4), HarryHoudini_52 (A2), Heathen_51 (A3), Heffalump_50 (A2), HelDan_51 (A3), Helmet_56 (A6), Herbertwm_51 (A2), Hexamo_54 (A6), HippoHollow_51 (A2), Hippo_47 (BD1), Holex_51 (A9), Holli_49 (A4), Hoot_48 (A6), HortumSL17_51 (A9), Houdini22_50 (A4), HuhtaEnerson15_44 (A5), Huxley_49 (A4), Hydra_48 (BD1), ICleared_50 (A4), Iceman_50 (A4), Idleandcovert_52 (A3), Imbriano_55 (A6), Indigo_46 (BD1), Indra_57 (A6), Iracema64_51 (A4), IronMan_51 (A2), Isca_50 (A3), Isiphiwo_51 (A6), Issmi_49 (BD2), Iwokeuplikedis_54 (A2), Izzy_48 (BD1), JF2_49 (A3), JF4_49 (A3), Jaan_51 (A2), Jabiru_44 (A5), Janus_48 (BD2), Jash_48 (BD1), Jaykayelowell_48 (A4), Jeeves_55 (A14), Jeffabunny_54 (A6), Jerm_53 (A2), JetBlade_50 (A4), Jevington_50 (BD2), JewelBug_54 (A6), Jhitchelle_46 (BD3), Jiawan_51 (A9), JoongJeon_49 (A4), Jordennis_53 (A6), JoshKayV_53 (A2), Journey13_45 (A2), Jovo_43 (A5), Jsquared_49 (A2), Junimo_49 (A4), KFPoly_49 (A4), Kachowdy_51 (A3), Kaine_47 (BD3), Kalpine_49 (A2), Kampy_50 (A4), Katalie136_49 (A4), Katalie_47 (BD1), Kazan_54 (A6), KekoraPapaka_50 (A4), Kerberos_53 (A2), Keziacharles14_51 (A9), Kimona_50 (A19), KingCyrus_53 (A2), Kingmustik0402_50 (A4), Kinmap_47 (A21), Kipper29_53 (A6), Klodlith_51 (A9), Koan_48 (A4), Koduck_52 (A2), Koko_55 (A6), Koreni_49 (A4), Kratark_50 (A4), Kremtemulon_50 (A4), Kyee_50 (A4), L5_50 (A2), LHTSCC_52 (A4), LadyBird_56 (A2), Landor_51 (A2), Lannister_49 (BD1), LappelDuVide_50 (A4), Larenn_50 (A2), Legacy_46 (BD1), Lemur_50 (A4), LeoAvram_50 (A4), Lev2_43 (A5), Leviathan_53 (A2), Leviticus_47 (BD1), Lika_47 (BD1), LilTurb_52 (A2), Lilbunny_53 (A6), Lilleskat_51 (A9), LionsBait_51 (A2), LittleB_50 (A4), LittleCherry_44 (A5), LittleGuy_50 (A4), LochMonster_51 (A4), Lokk_48 (A2), LoneWolf_52 (A9), Loofah_49 (BD2), Lorelei_48 (BD1), Lorenzo_50 (A4), Loser_53 (A2), Luchador_55 (A14), Lucyedi_52 (A16), Lunsford_51 (A4), MA5_51 (A3), MK4_51 (A3), Malec_51 (A2), Maminiaina_50 (A9), Maneekul_47 (BD1), Marav_51 (BD2), Marchesa_51 (A3), MarysWell_42 (A5), Maverick_50 (A4), Maxo_51 (A4), Mayonnaise_49 (A4), Mazhar510_50 (A4), McFly_53 (A6), Medusa_50 (A4), MeeZee_50 (A4), Melvin_52 (A4), Micasa_45 (A5), MiculUcigas_51 (A2), Midas2_43 (A5), Miko_48 (A2), Milcery_44 (A5), Millski_49 (A4), Minispark_50 (A9), Miramae_48 (A4), Morpher26_49 (A4), Morrow_51 (A4), Mundrea_49 (A4), MyraDee_44 (A18), Myxus_51 (A9), NaSiaTalie_51 (A2), Nabi_48 (BD1), Naji_53 (A2), Nanodon_49 (BD1), NearlyHeadless_47 (A8), Nebs_51 (A4), Neeharika16_52 (A6), Nemo27_50 (A4), Nerdos_46 (BD1), Newrala_53 (A6), NicoleTera_50 (A2), Nishikigoi_49 (BD2), Noelle_50 (A4), NorthStar_49 (A4), Northrop_50 (A4), NotAPhaseMom_50 (A4), NothingSpecial_49 (A2), Nyxis_50 (A4), OKaNui_50 (A4), Obama12_51 (A4), Ohfah_51 (A4), Oliynyk_48 (BD1), Omar_50 (BD2), Onglai_50 (A9), Ozzie_46 (BD1), OzzyJ_48 (BD1), Pablito_48 (BD2), PackMan_50 (A9), Paedore_48 (BD2), PainterBoy_52 (A16), Palestino_49 (A4), Paolo_50 (BD2), Pavo_48 (BD3), Peaches_50 (A4), Perplexer_49 (A4), PeterPeter_50 (A4), PetiteSangsue_49 (A4), PetterN_47 (A5), Ph8s_53 (A2), Phacado_50 (A4), Phaded_52 (A2), Phaeder_51 (A9), Phantastic_52 (A3), Pharaoh_46 (A12), Phelipe_51 (A4), Phettuccine_47 (BD1), Phighter1804_50 (A4), Phillis_49 (A8), Phlorence_42 (A5), Phonnegut_51 (A9), Phontbonne_50 (A4), PickleBack_43 (A5), Pioneer_51 (A9), Pipcraft_48 (A4), Piro94_51 (A2), Pistachio_53 (A3), Pmask_53 (A6), Polymorphads_51 (A4), Polyphemus_55 (A6), Pomar16_53

(A2), Ponzi_21 (singleton), Power_50 (A2), Priamo_55 (A6), Prinashe11_43 (A5), Priya_51 (A9), Provolone_48 (BD3), Prudy_51 (A2), Puginator_50 (BD2), Pukovnik_50 (A2), Pumbaa_50 (A4), Puppy_53 (A3), Qobbit_51 (A9), QueenB2_50 (A2), QueenBeesly_51 (A2), R4_49 (BD2), Rachaly_50 (A2), Rahalelujah_51 (A9), Rana_48 (BD1), RedBear_48 (BD1), RedRock_53 (A2), Refuge_50 (A12), Relief_49 (A4), Retro23_52 (A2), Rifter_54 (A6), Roary_48 (A8), RockieBear_50 (A4), Rocksand_50 (A4), Rockstar_51 (A3), Roimos_51 (A3), Roksolana_55 (A6), Romney_50 (A4), Roosevelt_49 (A4), Rosa24_49 (A4), Ruin_50 (A4), Rusticus_48 (BD1), RyeScarlet_51 (A9), Sabertooth_50 (A4), Sachima_51 (A9), Saftant_47 (BD3), Saintus_42 (A8), SarahRose_47 (BD1), SaturnRing_52 (A3), Scamp_50 (A4), Scherzo_51 (A9), Scorpia_47 (A5), Scout_51 (A3), SemperFi_52 (A2), SenorClean_50 (A4), Serenity_51 (A2), Shaka_50 (A4), SheaKeira_50 (A9), SheldonCooper_52 (A4), Shep_51 (A3), Shygu2_49 (A4), Skadoosh_51 (A4), Skipitt_49 (A4), Sknot_51 (A2), Smeadley_48 (A8), Smeagan_54 (A2), SmellyB_53 (A6), SnapTap_51 (A2), Snorlax_47 (BD1), SororFago_53 (A14), South40_47 (BD1), Sparxx_51 (A4), Speedwell_52 (BD3), Spino_49 (A4), Spouty_51 (A9), SqueakyClean_47 (BD2), StarStuff_53 (A2), Stasia_49 (A4), SteMason_49 (A4), Steamy_47 (A12), Stephig9_48 (A8), Stink_49 (A4), Sudan_47 (BD3), Sujidade_48 (BD1), Sultana_50 (A4), Sunhee_54 (A14), SunkenRoot_47 (BD3), SunsetPointe_46 (BD1), SuperAwesome_53 (A6), SuperCallie99_52 (A6), Superchunk_50 (A2), Superstar_52 (BD2), SweetiePie_51 (A2), SwirlSquare_54 (A2), Swirley_46 (A5), TNguyen7_52 (A3), TagePhighter_49 (BD1), Taquarus_50 (A4), TarsusIV_50 (A2), Tarynearal_42 (A5), Tefunt_49 (BD2), Temprado_55 (A6), Thanksgivukkah_49 (A4), Theia_41 (A5), Thestral_49 (BD2), Tiger_42 (A5), Timshel_48 (A7), TinaBelcher_47 (BD2), TinaFeyge_50 (A4), Tinybot_49 (A4), TipsytheTRex_47 (A2), TiroTheta9_50 (A4), Toaka_51 (A9), Toma_47 (BD1), Tomathan_53 (A2), ToneTone_51 (A6), Tristan_50 (A2), Triumph_50 (BD2), Trixie_49 (A2), Trooper_52 (A2), TroyPia_51 (A4), TuanPN_46 (BD1), Tubs_51 (A9), Tucker_54 (A6), Turbido_52 (A2), Twigg_44 (A5), TygerBlood_50 (A4), Ugenie5_48 (A9), Ulysses_49 (A4), UnionJack_44 (A5), Unstoppable_47 (BD1), Updawg_52 (A2), VA6_52 (A2), VC3_54 (A2), Vanisoa_51 (A9), Vanseggelen_52 (BD3), Verabelle_51 (BD3), Verse_47 (BD3), VohminGhazi_53 (A6), Wander_50 (A4), WeiHuaDA_51 (A2), Werner_47 (BD1), Whabigail7_52 (A2), Whatever_47 (BD1), WideWale_52 (A2), Wiks_53 (A6), Wilbur_50 (A4), Wile_49 (A4), Wizard007_50 (A4), WorldCup_50 (A9), WunderPhul_54 (A6), Xena_48 (A4), XianYue_50 (A2), Yasdnil_47 (BD1), Yecey3_52 (A9), YoSam321_50 (A4), Yokurt_54 (A6), Zainub_50 (BD2), Zaka_54 (A6), ZamZam_47 (BD3), Zarafa_51 (A3), Zemlya_49 (BD1), Zimmer_48 (A12), Zulu_55 (A6), phiHau3_48 (BD4),

Start 50:
• Found in 6 of 961 (0.6%) of genes in pham
• Manual Annotations of this start: 3 of 901
• Called 83.3% of time when present
• Phage (with cluster) where this start called: FlyCatcher_55 (A7), Sheen_51 (A7), SydNat_45 (A5), Toro_53 (A7), Zolita_44 (A5),

Start 52:
• Found in 50 of 961 (5.2%) of genes in pham
• Manual Annotations of this start: 24 of 901
• Called 50.0% of time when present
• Phage (with cluster) where this start called: Aneem_52 (A11), Bachome_53 (A11), Bowtie_52 (A11), Bud_51 (A11), Chargerpower_50 (A22), Et2Brutus_50 (A11), Fibonacci_51 (A11), Flaverint_52 (A11), Gilberta_52 (A11), Hutc2_51 (A11),

Jabith_52 (A11), Joselito_52 (A11), Kimba_51 (A11), MaCh_52 (A11), Mulciber_51 (A11), Munch_52 (A11), Orange_51 (A11), Petersenfast_51 (A11), Phlei_40 (A13), Saskia_52 (A11), Sham4_51 (A11), Snape_51 (A11), Teutsch_42 (BE1), TinyTimmy_51 (A11), Tribute_41 (BE1),

Start 53:
• Found in 4 of 961 (0.4%) of genes in pham
• Manual Annotations of this start: 4 of 901
• Called 100.0% of time when present
• Phage (with cluster) where this start called: Bimmel_22 (BT), Ibantik_27 (JN), Spooks_23 (BT), Success_23 (BT),

Start 54:
• Found in 1 of 961 (0.1%) of genes in pham
• Manual Annotations of this start: 1 of 901
• Called 100.0% of time when present
• Phage (with cluster) where this start called: Stellammi_98 (UNK),

Start 55:
• Found in 124 of 961 (12.9%) of genes in pham
• Manual Annotations of this start: 103 of 901
• Called 85.5% of time when present
• Phage (with cluster) where this start called: ACFishhook_53 (A3), Aglet_55 (A3), AgronaGT15_53 (A3), Anubis_57 (A3), AugsMagnumOpus_57 (A3), Beauxregard13_54 (A3), Bigflo_54 (A3), BreSam8_54 (A3), BuzzBuzz_52 (A3), Bxz2_50 (A3), Calvinny_54 (A3), Caviar_50 (A3), ClownCar_54 (A3), Colbster_54 (A3), Croquant_55 (A3), Cullens_54 (A3), DaHudson_54 (A3), Daishi_53 (A3), Dieselweasel_55 (A3), EpicPhail_55 (A3), EtoileNova_51 (A3), Farber_54 (A3), Fernando_54 (A3), Gemma_53 (A3), GingkoMaracino_54 (A3), Grif_54 (A3), Groupthink_55 (A3), Grub_54 (A3), Grum1_54 (A3), GtownJaz_54 (A3), Gwennie_54 (A3), HashRod_55 (A3), HaveUMetTed_55 (A3), Heliosoles_53 (A3), Hercules11_54 (A3), Hookmount_50 (A3), JHC117_54 (A3), JenCasNa_55 (A3), JeppNRM_55 (A3), Jobu08_53 (A3), KADY_54 (A3), Kalb97_55 (A3), Kalnoky_55 (A3), LBerry_55 (A3), Lambert1_50 (A3), LarryKay_54 (A3), Lilith_55 (A3), Louie6_53 (A3), Lowa_54 (A3), LugYA_57 (A3), MadMarie_54 (A3), Mainiac_54 (A3), Malinsilva_56 (A3), Manu_54 (A3), MarQuardt_54 (A3), Margo_50 (A3), Marie_54 (A3), Marius_55 (A3), Methuselah_50 (A3), Microwolf_54 (A3), Misomonster_55 (A3), MoneyMay_54 (A3), Montavir_53 (A3), MuchMore_57 (A3), Noella_50 (A3), Norbert_49 (A3), OlanP_53 (A3), Ollie_54 (A3), P28Green_55 (A3), PGHhamlin_56 (A3), Panamaxus_48 (A3), Pawn_54 (A3), Pembroke_54 (A3), Penny1_55 (A3), PhishRPhriends_52 (A3), Phoebe_55 (A3), Phoxy_54 (A3), Phranny_55 (A3), Pocahontas_50 (A3), Popcicle_50 (A3), PotatoSplit_56 (A3), PurpleHaze_54 (A3), QuinnKiro_49 (A3), Reba_54 (A3), ResDef_50 (A3), Rummer_53 (A3), RunningOnE_26 (JN), Sabia_54 (A3), Sabinator_53 (A3), Snickers_54 (A3), SoYo_54 (A3), SoilDragon_54 (A3), Soshari_56 (A3), Spike509_54 (A3), Stagni_54 (A3), StepMih_54 (A3), Taurus_55 (A3), Texage_49 (A3), Tiffany_54 (A3), TinyPebbles_53 (A3), Todacoro_50 (A3), Veracruz_49 (A3), Vix_54 (A3), Watson_54 (A3), Wooldri_56 (A3), Zetzy_53 (A3),

Start 61:
• Found in 60 of 961 (6.2%) of genes in pham
• Manual Annotations of this start: 1 of 901
• Called 1.7% of time when present
• Phage (with cluster) where this start called: Terrific_52 (A2),

Start 63:
• Found in 3 of 961 (0.3%) of genes in pham
• Manual Annotations of this start: 3 of 901
• Called 100.0% of time when present
• Phage (with cluster) where this start called: Dorin_38 (CG), Francesca_37 (CG), Nova53_35 (CG),

Start 64:
• Found in 91 of 961 (9.5%) of genes in pham
• Manual Annotations of this start: 81 of 901
• Called 93.4% of time when present
• Phage (with cluster) where this start called: AcciDwight_49 (BE2), Amabiko_45 (BE2), Anedea_40 (BE1), Angela_40 (BE1), AngryGiraffe_44 (BE2), ArianaSWT_43 (BE1), Bartholomune_41 (BE1), Battuta_43 (BE2), Birchlyn_42 (BE2), BlueOtter_43 (BE1), Bmoc_41 (BE1), BoomerJR_45 (BE2), Bordeaux_43 (BE2), Braelyn_41 (BE1), Brizzy_44 (BE2), Cadmus_41 (BE1), CeilingFan_44 (BE2), Coogler_43 (BE1), Cursive_40 (BE1), Daisy123_44 (BE2), Daubenski_44 (BE1), Davielle_39 (BE1), EGole_44 (BE1), Eliot67_40 (BE1), Elmer_47 (BE2), Enygma_42 (BE2), Evy_44 (BE1), FreddyDRoo_41 (BE1), Genie2_45 (BE2), Gibbi_48 (BE2), HangryHippo_43 (BE1), IchabodCrane_42 (BE2), Jay2Jay_47 (BE1), JimJam_45 (BE2), Jollison_44 (BE2), Karimac_44 (BE2), KentuckyRacer_45 (BE2), Larnav_43 (BE1), Leo04_43 (BE1), Liandry_41 (BE1), LilMartin_40 (BE1), LilSaint_42 (BE1), LukeCage_44 (BE2), Lululemon_42 (BE1), Marsus_40 (BE1), Mildred21_41 (BE1), MindFlayer_43 (BE2), Mugiwara_44 (BE2), MulchMansion_40 (BE1), Navo_40 (BE1), NootNoot_38 (BE1), PacManQ_42 (BE1), Paradiddles_38 (BE1), Peebs_42 (BE1), Pepperwood_43 (BE1), Persimmon_38 (BE1), PinkiePie_40 (BE1), PumpkinSpice_44 (BE2), PynkPanther_40 (BE1), Quaran19_45 (BE2), Rikishi_45 (BE2), Riptide_40 (BE1), SaltySpitoon_45 (BE2), Samisti12_42 (BE1), Scheme_43 (BE1), Shuckle_41 (BE1), Sollertia_45 (BE2), Spelly_45 (BE2), Spilled_45 (BE2), Squillium_41 (BE1), Stanimal_45 (BE2), StarPlatinum_44 (BE2), Starbow_43 (BE2), Sushi23_43 (BE1), Targaryen_44 (BE1), TomSawyer_43 (BE2), Tomas_46 (BE2), Tuesday_49 (BE2), Warpy_47 (BE1), WashU_43 (BE1), Watermoore_42 (BE1), WhereRU_39 (BE1), Wipeout_42 (BE2), Wofford_43 (BE2), Yaboi_45 (BE2),

Start 65:
• Found in 31 of 961 (3.2%) of genes in pham
• Manual Annotations of this start: 29 of 901
• Called 100.0% of time when present
• Phage (with cluster) where this start called: Annadreamy_20 (BK1), Belfort_22 (BK1), Beuffert_19 (BK1), BillNye_16 (BK2), Blueeyedbeauty_22 (BK1), Chaewon_20 (BK2), Circinus_18 (BK2), Comrade_21 (BK1), DeluluLababu_22 (BK1), Emma1919_24 (BK1), Faust_20 (BK1), Forrest_24 (BK1), Francob_20 (BK1), Gilson_24 (BK1), Jada_22 (BK1), Karp_20 (BK1), Kenrey_24 (BK1), Limpid_20 (BK1), Maupel_24 (BK1), MeganTheeKilla_22 (BK1), Moab_21 (BK1), Muntaha_16 (BK2), Patelgo_21 (BK1), Phredrick_22 (BK1), SeresaTree_20 (BK1), Sham_18 (BK1), SparkleGoddess_21 (BK1), Stigma_21 (BK1), TunaTartare_19 (BK1), Wakanda_16 (BK2), Westy_21 (BK1),

Start 67:
• Found in 49 of 961 (5.1%) of genes in pham
• Manual Annotations of this start: 1 of 901
• Called 2.0% of time when present

• Phage (with cluster) where this start called: Cross_43 (BE1),

Start 71:
• Found in 160 of 961 (16.6%) of genes in pham
• Manual Annotations of this start: 1 of 901
• Called 1.2% of time when present
• Phage (with cluster) where this start called: Bradman_50 (A2), MissWhite_50 (A2),

Start 73:
• Found in 506 of 961 (52.7%) of genes in pham
• Manual Annotations of this start: 4 of 901
• Called 1.0% of time when present
• Phage (with cluster) where this start called: Insomnia_52 (A11), Lucivia_52 (A11), MegTheThird_50 (A9), Timothy_51 (A11), Wolpertinger_50 (A11),

Start 88:
• Found in 464 of 961 (48.3%) of genes in pham
• Manual Annotations of this start: 3 of 901
• Called 1.5% of time when present
• Phage (with cluster) where this start called: Ebony_51 (A11), Mabel_51 (A11), MajorMajor_50 (A2), Quokka_49 (A2), Salz_50 (A11), Travvers_53 (A2), phiCAM_45 (BD3),

Start 97:
• Found in 644 of 961 (67.0%) of genes in pham
• Manual Annotations of this start: 1 of 901
• Called 0.2% of time when present
• Phage (with cluster) where this start called: George_43 (A5),

Start 103:
• Found in 15 of 961 (1.6%) of genes in pham
• Manual Annotations of this start: 6 of 901
• Called 46.7% of time when present
• Phage (with cluster) where this start called: Alone3_146 (BS), BRock_136 (BS), Beleetus_142 (BS), Fudan_140 (BS), Garnacho_136 (BS), LuckySocke_141 (BS), Talos_145 (BS),

Start 104:
• Found in 10 of 961 (1.0%) of genes in pham
• Manual Annotations of this start: 2 of 901
• Called 20.0% of time when present
• Phage (with cluster) where this start called: GiJojo_135 (BS), Park1214_144 (BS),

Summary by clusters:

There are 37 clusters represented in this pham: singleton, UNK, BT, JN, BS, A15, A14, A17, A16, A11, A10, A13, A12, A19, A18, BD4, A3, A2, BD1, A4, BD3, BD2, A9, A8, A7, CA, A6, CG, BK1, BK2, X, A5, A20, A21, A22, BE2, BE1,

Info for manual annotations of cluster A10:
•Start number 35 was manually annotated 17 times for cluster A10.

Info for manual annotations of cluster A11:

•Start number 52 was manually annotated 21 times for cluster A11.
•Start number 73 was manually annotated 4 times for cluster A11.
•Start number 88 was manually annotated 3 times for cluster A11.

Info for manual annotations of cluster A12:
•Start number 48 was manually annotated 5 times for cluster A12.

Info for manual annotations of cluster A14:
•Start number 48 was manually annotated 5 times for cluster A14.

Info for manual annotations of cluster A15:
•Start number 42 was manually annotated 25 times for cluster A15.

Info for manual annotations of cluster A16:
•Start number 48 was manually annotated 3 times for cluster A16.

Info for manual annotations of cluster A18:
•Start number 48 was manually annotated 1 time for cluster A18.

Info for manual annotations of cluster A19:
•Start number 48 was manually annotated 1 time for cluster A19.

Info for manual annotations of cluster A2:
•Start number 37 was manually annotated 1 time for cluster A2.
•Start number 38 was manually annotated 1 time for cluster A2.
•Start number 46 was manually annotated 3 times for cluster A2.
•Start number 48 was manually annotated 109 times for cluster A2.
•Start number 61 was manually annotated 1 time for cluster A2.
•Start number 71 was manually annotated 1 time for cluster A2.

Info for manual annotations of cluster A20:
•Start number 48 was manually annotated 2 times for cluster A20.

Info for manual annotations of cluster A21:
•Start number 48 was manually annotated 1 time for cluster A21.

Info for manual annotations of cluster A22:
•Start number 52 was manually annotated 1 time for cluster A22.

Info for manual annotations of cluster A3:
•Start number 48 was manually annotated 23 times for cluster A3.
•Start number 55 was manually annotated 102 times for cluster A3.

Info for manual annotations of cluster A4:
•Start number 48 was manually annotated 144 times for cluster A4.

Info for manual annotations of cluster A5:
•Start number 24 was manually annotated 1 time for cluster A5.
•Start number 48 was manually annotated 36 times for cluster A5.
•Start number 50 was manually annotated 2 times for cluster A5.
•Start number 97 was manually annotated 1 time for cluster A5.

Info for manual annotations of cluster A6:
•Start number 48 was manually annotated 50 times for cluster A6.

Info for manual annotations of cluster A7:
•Start number 45 was manually annotated 1 time for cluster A7.
•Start number 48 was manually annotated 3 times for cluster A7.
•Start number 50 was manually annotated 1 time for cluster A7.

Info for manual annotations of cluster A8:
•Start number 48 was manually annotated 12 times for cluster A8.

Info for manual annotations of cluster A9:
•Start number 48 was manually annotated 46 times for cluster A9.

Info for manual annotations of cluster BD1:
•Start number 48 was manually annotated 54 times for cluster BD1.

Info for manual annotations of cluster BD2:
•Start number 21 was manually annotated 1 time for cluster BD2.
•Start number 48 was manually annotated 32 times for cluster BD2.

Info for manual annotations of cluster BD3:
•Start number 27 was manually annotated 1 time for cluster BD3.
•Start number 48 was manually annotated 15 times for cluster BD3.

Info for manual annotations of cluster BD4:
•Start number 48 was manually annotated 3 times for cluster BD4.

Info for manual annotations of cluster BE1:
•Start number 52 was manually annotated 2 times for cluster BE1.
•Start number 64 was manually annotated 46 times for cluster BE1.
•Start number 67 was manually annotated 1 time for cluster BE1.

Info for manual annotations of cluster BE2:
•Start number 64 was manually annotated 35 times for cluster BE2.

Info for manual annotations of cluster BK1:
•Start number 65 was manually annotated 24 times for cluster BK1.

Info for manual annotations of cluster BK2:
•Start number 65 was manually annotated 5 times for cluster BK2.

Info for manual annotations of cluster BS:
•Start number 103 was manually annotated 6 times for cluster BS.
•Start number 104 was manually annotated 2 times for cluster BS.

Info for manual annotations of cluster BT:
•Start number 53 was manually annotated 3 times for cluster BT.

Info for manual annotations of cluster CA:
•Start number 46 was manually annotated 35 times for cluster CA.

Info for manual annotations of cluster CG:
•Start number 63 was manually annotated 3 times for cluster CG.

Info for manual annotations of cluster JN:
•Start number 53 was manually annotated 1 time for cluster JN.
•Start number 55 was manually annotated 1 time for cluster JN.

Info for manual annotations of cluster UNK:
•Start number 54 was manually annotated 1 time for cluster UNK.

Info for manual annotations of cluster X:
•Start number 47 was manually annotated 2 times for cluster X.

Gene Information:

Gene: 20ES_54 Start: 36264, Stop: 34231, Start Num: 48
Candidate Starts for 20ES_54:
(Start: 48 @36264 has 546 MA's), (Start: 71 @36159 has 1 MA's), (Start: 73 @36150 has 4 MA's), (74, 36147), (78, 36126), (Start: 88 @36075 has 3 MA's), (Start: 97 @36024 has 1 MA's), (116, 35934), (124, 35877), (125, 35874), (141, 35814), (172, 35658), (173, 35649), (182, 35580), (197, 35544), (204, 35532), (207, 35514), (212, 35484), (213, 35481), (214, 35469), (216, 35451), (217, 35445), (218, 35442), (280, 35283), (291, 35238), (298, 35196), (321, 35058), (327, 35022), (341, 34956), (343, 34944), (356, 34884), (367, 34830), (370, 34812), (393, 34680), (397, 34671), (402, 34650), (408, 34617), (418, 34578), (419, 34575), (425, 34545), (430, 34524), (432, 34518), (447, 34461), (461, 34413), (463, 34404),

Gene: 40AC_52 Start: 36996, Stop: 34954, Start Num: 48
Candidate Starts for 40AC_52:
(Start: 48 @36996 has 546 MA's), (Start: 61 @36957 has 1 MA's), (Start: 71 @36894 has 1 MA's), (Start: 73 @36885 has 4 MA's), (74, 36882), (94, 36774), (102, 36726), (116, 36669), (141, 36549), (172, 36393), (182, 36315), (207, 36243), (208, 36240), (212, 36213), (213, 36210), (216, 36180), (217, 36174), (218, 36171), (246, 36063), (263, 36030), (278, 36009), (291, 35961), (295, 35937), (298, 35919), (301, 35886), (321, 35781), (327, 35745), (341, 35679), (343, 35667), (356, 35607), (367, 35553), (370, 35535), (374, 35502), (393, 35403), (408, 35340), (410, 35337), (415, 35313), (416, 35310), (419, 35298), (426, 35265), (447, 35184), (461, 35136),

Gene: ACFishhook_53 Start: 35868, Stop: 33853, Start Num: 55
Candidate Starts for ACFishhook_53:
(Start: 55 @35868 has 103 MA's), (Start: 71 @35775 has 1 MA's), (Start: 73 @35766 has 4 MA's), (Start: 88 @35691 has 3 MA's), (Start: 97 @35640 has 1 MA's), (114, 35559), (116, 35550), (125, 35493), (141, 35433), (156, 35373), (159, 35337), (172, 35277), (173, 35268), (182, 35199), (185, 35187), (207, 35127), (212, 35097), (213, 35094), (214, 35082), (216, 35064), (217, 35058), (218, 35055), (225, 35022), (261, 34920), (287, 34890), (312, 34719), (323, 34668), (327, 34647), (333, 34623), (341, 34581), (345, 34563), (355, 34515), (370, 34440), (376, 34398), (383, 34335), (384, 34329), (391, 34305), (418, 34200), (436, 34131), (441, 34113), (443, 34104), (447, 34083), (470, 34005), (477, 33969), (490, 33906),

Gene: AN9_54 Start: 35980, Stop: 33899, Start Num: 48
Candidate Starts for AN9_54:
(Start: 48 @35980 has 546 MA's), (78, 35842), (102, 35707), (114, 35659), (116, 35650), (125, 35590), (149, 35512), (155, 35473), (158, 35437), (172, 35374), (178, 35311), (182, 35296), (207, 35200),

(212, 35170), (213, 35167), (216, 35137), (217, 35131), (218, 35128), (236, 35041), (278, 34966), (291, 34918), (294, 34903), (321, 34738), (341, 34636), (343, 34624), (356, 34564), (358, 34555), (367, 34510), (369, 34498), (373, 34477), (376, 34450), (408, 34285), (415, 34258), (418, 34246), (426, 34210), (447, 34129),

Gene: ANI8_54 Start: 35980, Stop: 33899, Start Num: 48
Candidate Starts for ANI8_54:
(Start: 48 @35980 has 546 MA's), (78, 35842), (102, 35707), (114, 35659), (116, 35650), (125, 35590), (149, 35512), (155, 35473), (158, 35437), (172, 35374), (178, 35311), (182, 35296), (207, 35200), (212, 35170), (213, 35167), (216, 35137), (217, 35131), (218, 35128), (236, 35041), (278, 34966), (291, 34918), (294, 34903), (321, 34738), (341, 34636), (343, 34624), (356, 34564), (358, 34555), (367, 34510), (369, 34498), (373, 34477), (376, 34450), (408, 34285), (415, 34258), (418, 34246), (426, 34210), (447, 34129),

Gene: Aaronocolus_47 Start: 31664, Stop: 33754, Start Num: 48
Candidate Starts for Aaronocolus_47:
(Start: 48 @31664 has 546 MA's), (78, 31805), (79, 31820), (Start: 88 @31874 has 3 MA's), (90, 31880), (Start: 97 @31925 has 1 MA's), (114, 32006), (116, 32015), (131, 32093), (134, 32102), (141, 32135), (158, 32228), (163, 32252), (172, 32294), (182, 32372), (183, 32375), (207, 32462), (216, 32525), (218, 32534), (283, 32699), (287, 32711), (305, 32843), (309, 32870), (321, 32921), (323, 32936), (327, 32957), (341, 33023), (370, 33167), (371, 33173), (373, 33182), (378, 33218), (382, 33266), (384, 33278), (395, 33305), (398, 33317), (407, 33371), (420, 33422), (426, 33443), (436, 33476), (441, 33494), (447, 33524), (450, 33536), (457, 33563), (473, 33623), (486, 33692), (488, 33695), (495, 33746),

Gene: AbbyPaige_53 Start: 36195, Stop: 34156, Start Num: 48
Candidate Starts for AbbyPaige_53:
(Start: 48 @36195 has 546 MA's), (Start: 97 @35955 has 1 MA's), (116, 35865), (117, 35850), (141, 35745), (172, 35589), (182, 35511), (207, 35439), (212, 35409), (213, 35406), (214, 35394), (216, 35376), (217, 35370), (218, 35367), (280, 35208), (291, 35163), (298, 35121), (321, 34983), (327, 34947), (341, 34881), (343, 34869), (356, 34809), (367, 34755), (370, 34737), (418, 34503), (419, 34500), (430, 34449), (447, 34386), (461, 34338), (463, 34329), (492, 34188),

Gene: AbbysRanger_49 Start: 35423, Stop: 33405, Start Num: 48
Candidate Starts for AbbysRanger_49:
(Start: 48 @35423 has 546 MA's), (Start: 73 @35312 has 4 MA's), (92, 35222), (Start: 97 @35186 has 1 MA's), (102, 35153), (114, 35105), (116, 35096), (125, 35036), (141, 34976), (172, 34820), (173, 34811), (182, 34742), (185, 34730), (205, 34679), (207, 34670), (212, 34640), (213, 34637), (216, 34607), (217, 34601), (218, 34598), (255, 34478), (278, 34454), (287, 34430), (321, 34226), (341, 34124), (345, 34106), (355, 34055), (369, 33986), (373, 33965), (376, 33938), (407, 33794), (408, 33791), (416, 33761), (426, 33716), (441, 33665), (443, 33656), (447, 33635), (477, 33521), (488, 33464),

Gene: Abdiel_50 Start: 35449, Stop: 33416, Start Num: 48
Candidate Starts for Abdiel_50:
(Start: 48 @35449 has 546 MA's), (68, 35386), (Start: 73 @35338 has 4 MA's), (78, 35314), (92, 35248), (Start: 97 @35212 has 1 MA's), (102, 35179), (114, 35131), (116, 35122), (125, 35065), (134, 35038), (141, 35005), (172, 34849), (173, 34840), (182, 34771), (207, 34699), (212, 34669), (213, 34666), (216, 34636), (217, 34630), (218, 34627), (236, 34540), (251, 34510), (261, 34498), (269, 34489), (287, 34441), (321, 34237), (341, 34135), (345, 34117), (373, 33976), (376, 33949), (407, 33805), (408, 33802), (416, 33772), (430, 33709), (441, 33676), (443, 33667), (447, 33646), (461, 33598), (477, 33532),

Gene: AcciDwight_49 Start: 19488, Stop: 21428, Start Num: 64
Candidate Starts for AcciDwight_49:
(Start: 64 @19488 has 81 MA's), (90, 19620), (96, 19656), (102, 19692), (110, 19719), (112, 19731), (132, 19836), (150, 19893), (188, 20118), (210, 20172), (221, 20256), (232, 20307), (239, 20346), (245, 20358), (293, 20436), (305, 20535), (314, 20571), (345, 20718), (379, 20892), (382, 20928), (400, 20997), (401, 21000), (439, 21171), (476, 21309),

Gene: Achebe_48 Start: 35406, Stop: 33388, Start Num: 48
Candidate Starts for Achebe_48:
(Start: 48 @35406 has 546 MA's), (Start: 73 @35295 has 4 MA's), (92, 35205), (Start: 97 @35169 has 1 MA's), (102, 35136), (114, 35088), (116, 35079), (125, 35019), (141, 34959), (172, 34803), (173, 34794), (182, 34725), (185, 34713), (205, 34662), (207, 34653), (212, 34623), (213, 34620), (216, 34590), (217, 34584), (218, 34581), (255, 34461), (278, 34437), (287, 34413), (321, 34209), (341, 34107), (345, 34089), (355, 34038), (369, 33969), (373, 33948), (376, 33921), (407, 33777), (408, 33774), (416, 33744), (426, 33699), (441, 33648), (443, 33639), (447, 33618), (477, 33504), (488, 33447),

Gene: Acolyte_47 Start: 35157, Stop: 33094, Start Num: 38
Candidate Starts for Acolyte_47:
(Start: 38 @35157 has 1 MA's), (39, 35154), (Start: 48 @35136 has 546 MA's), (Start: 73 @35028 has 4 MA's), (77, 35007), (Start: 97 @34902 has 1 MA's), (114, 34821), (116, 34812), (117, 34797), (126, 34749), (141, 34692), (158, 34599), (172, 34536), (182, 34458), (207, 34392), (212, 34362), (213, 34359), (216, 34329), (217, 34323), (218, 34320), (278, 34149), (280, 34146), (291, 34101), (321, 33921), (333, 33861), (341, 33819), (343, 33807), (345, 33801), (356, 33747), (370, 33675), (374, 33642), (376, 33633), (382, 33576), (397, 33531), (408, 33480), (415, 33453), (416, 33450), (418, 33441), (419, 33438), (430, 33387), (447, 33324),

Gene: Adzzy_53 Start: 34679, Stop: 32661, Start Num: 48
Candidate Starts for Adzzy_53:
(Start: 48 @34679 has 546 MA's), (Start: 71 @34577 has 1 MA's), (Start: 73 @34568 has 4 MA's), (Start: 88 @34493 has 3 MA's), (114, 34361), (116, 34352), (125, 34292), (141, 34232), (158, 34139), (160, 34130), (172, 34076), (177, 34028), (182, 33998), (201, 33953), (207, 33932), (212, 33902), (213, 33899), (216, 33869), (217, 33863), (218, 33860), (236, 33773), (278, 33716), (280, 33713), (291, 33668), (308, 33542), (321, 33488), (333, 33428), (338, 33401), (341, 33386), (356, 33314), (358, 33305), (370, 33242), (374, 33209), (376, 33200), (386, 33119), (396, 33101), (408, 33047), (418, 33008), (430, 32954), (447, 32891), (458, 32849), (485, 32726),

Gene: Agape74_53 Start: 36189, Stop: 34150, Start Num: 48
Candidate Starts for Agape74_53:
(Start: 48 @36189 has 546 MA's), (82, 36033), (Start: 97 @35949 has 1 MA's), (116, 35859), (117, 35844), (141, 35739), (172, 35583), (182, 35505), (207, 35433), (212, 35403), (213, 35400), (214, 35388), (216, 35370), (217, 35364), (218, 35361), (280, 35202), (291, 35157), (298, 35115), (321, 34977), (327, 34941), (341, 34875), (356, 34803), (367, 34749), (370, 34731), (408, 34536), (418, 34497), (419, 34494), (430, 34443), (447, 34380), (461, 34332), (463, 34323),

Gene: AgentM_42 Start: 34160, Stop: 32091, Start Num: 48
Candidate Starts for AgentM_42:
(Start: 48 @34160 has 546 MA's), (Start: 88 @33974 has 3 MA's), (Start: 97 @33923 has 1 MA's), (102, 33890), (114, 33842), (116, 33833), (141, 33713), (148, 33698), (167, 33587), (168, 33584), (172, 33557), (173, 33548), (179, 33488), (182, 33479), (187, 33455), (207, 33368), (212, 33338), (213, 33335), (216, 33305), (217, 33299), (218, 33296), (291, 33104), (319, 32942), (323, 32909), (334, 32861), (341, 32822), (355, 32753), (367, 32696), (369, 32684), (370, 32678), (376, 32636), (378, 32627), (407, 32480), (416, 32447), (425, 32405), (436, 32369), (441, 32351), (443, 32342),

(491, 32132),

Gene: Aglet_55 Start: 35907, Stop: 33889, Start Num: 55
Candidate Starts for Aglet_55:
(Start: 55 @35907 has 103 MA's), (Start: 71 @35814 has 1 MA's), (Start: 73 @35805 has 4 MA's), (78, 35781), (Start: 88 @35730 has 3 MA's), (Start: 97 @35679 has 1 MA's), (114, 35598), (116, 35589), (141, 35469), (156, 35409), (159, 35373), (172, 35313), (182, 35235), (207, 35163), (212, 35133), (216, 35100), (217, 35094), (218, 35091), (234, 35010), (242, 34980), (287, 34926), (312, 34755), (333, 34659), (341, 34617), (345, 34599), (355, 34551), (358, 34539), (369, 34482), (370, 34476), (373, 34461), (376, 34434), (383, 34371), (384, 34365), (391, 34341), (418, 34236), (436, 34167), (441, 34149), (443, 34140), (447, 34119), (470, 34041), (477, 34005), (490, 33942),

Gene: AgronaGT15_53 Start: 35755, Stop: 33737, Start Num: 55
Candidate Starts for AgronaGT15_53:
(Start: 55 @35755 has 103 MA's), (Start: 71 @35662 has 1 MA's), (Start: 73 @35653 has 4 MA's), (78, 35629), (Start: 88 @35578 has 3 MA's), (Start: 97 @35527 has 1 MA's), (114, 35446), (116, 35437), (141, 35320), (159, 35224), (172, 35164), (179, 35095), (182, 35086), (183, 35083), (185, 35074), (207, 35014), (212, 34984), (213, 34981), (214, 34969), (216, 34951), (217, 34945), (218, 34942), (239, 34837), (242, 34831), (287, 34774), (321, 34570), (323, 34555), (327, 34534), (333, 34510), (338, 34483), (341, 34468), (369, 34330), (370, 34324), (373, 34309), (376, 34282), (383, 34219), (384, 34213), (391, 34189), (418, 34084), (426, 34048), (447, 33967), (470, 33889), (477, 33853), (490, 33790),

Gene: Airmid_44 Start: 34153, Stop: 32126, Start Num: 48
Candidate Starts for Airmid_44:
(Start: 48 @34153 has 546 MA's), (Start: 88 @33967 has 3 MA's), (Start: 97 @33916 has 1 MA's), (102, 33883), (114, 33835), (116, 33826), (121, 33784), (149, 33688), (155, 33649), (160, 33604), (171, 33559), (172, 33550), (178, 33487), (179, 33481), (182, 33472), (207, 33400), (212, 33370), (213, 33367), (216, 33337), (217, 33331), (218, 33328), (267, 33205), (291, 33139), (298, 33097), (319, 32977), (320, 32962), (323, 32944), (334, 32896), (341, 32857), (355, 32788), (367, 32731), (369, 32719), (370, 32713), (376, 32671), (378, 32662), (385, 32599), (410, 32509), (416, 32482), (425, 32440), (436, 32404), (441, 32386), (443, 32377), (491, 32167),

Gene: Alatin_40 Start: 32141, Stop: 30096, Start Num: 46
Candidate Starts for Alatin_40:
(Start: 46 @32141 has 38 MA's), (74, 32021), (87, 31952), (Start: 97 @31898 has 1 MA's), (114, 31817), (116, 31808), (125, 31748), (131, 31730), (156, 31628), (158, 31595), (159, 31592), (161, 31583), (167, 31562), (171, 31541), (172, 31532), (178, 31469), (182, 31454), (184, 31448), (207, 31388), (213, 31355), (216, 31325), (217, 31319), (218, 31316), (259, 31181), (312, 30968), (320, 30935), (338, 30845), (340, 30836), (367, 30704), (376, 30644), (385, 30572), (398, 30533), (399, 30530), (402, 30518), (418, 30446), (436, 30374), (443, 30347), (477, 30212),

Gene: Albee_50 Start: 35448, Stop: 33415, Start Num: 48
Candidate Starts for Albee_50:
(Start: 48 @35448 has 546 MA's), (68, 35385), (Start: 73 @35337 has 4 MA's), (78, 35313), (92, 35247), (Start: 97 @35211 has 1 MA's), (102, 35178), (114, 35130), (116, 35121), (125, 35064), (134, 35037), (141, 35004), (172, 34848), (173, 34839), (182, 34770), (207, 34698), (212, 34668), (213, 34665), (216, 34635), (217, 34629), (218, 34626), (236, 34539), (251, 34509), (261, 34497), (269, 34488), (287, 34440), (321, 34236), (341, 34134), (345, 34116), (373, 33975), (376, 33948), (407, 33804), (408, 33801), (416, 33771), (430, 33708), (441, 33675), (443, 33666), (447, 33645), (461, 33597), (477, 33531),

Gene: Alberto7_51 Start: 35785, Stop: 33752, Start Num: 48

Candidate Starts for Alberto7_51:
(Start: 48 @35785 has 546 MA's), (68, 35722), (Start: 73 @35674 has 4 MA's), (78, 35650), (92, 35584), (Start: 97 @35548 has 1 MA's), (102, 35515), (114, 35467), (116, 35458), (125, 35401), (134, 35374), (141, 35341), (172, 35185), (173, 35176), (182, 35107), (207, 35035), (212, 35005), (213, 35002), (216, 34972), (217, 34966), (218, 34963), (236, 34876), (251, 34846), (261, 34834), (269, 34825), (287, 34777), (321, 34573), (341, 34471), (345, 34453), (373, 34312), (376, 34285), (407, 34141), (408, 34138), (416, 34108), (430, 34045), (441, 34012), (443, 34003), (447, 33982), (461, 33934), (477, 33868),

Gene: Aliter_51 Start: 35598, Stop: 33559, Start Num: 48
Candidate Starts for Aliter_51:
(Start: 48 @35598 has 546 MA's), (Start: 73 @35484 has 4 MA's), (75, 35469), (78, 35460), (Start: 97 @35358 has 1 MA's), (116, 35268), (125, 35208), (141, 35148), (171, 35001), (172, 34992), (182, 34914), (185, 34902), (206, 34857), (207, 34848), (212, 34818), (214, 34803), (216, 34785), (217, 34779), (218, 34776), (280, 34611), (288, 34587), (291, 34566), (321, 34386), (343, 34272), (356, 34212), (374, 34107), (376, 34098), (408, 33945), (416, 33915), (430, 33852), (447, 33789),

Gene: Alma_51 Start: 35778, Stop: 33757, Start Num: 48
Candidate Starts for Alma_51:
(Start: 48 @35778 has 546 MA's), (Start: 73 @35664 has 4 MA's), (102, 35505), (116, 35448), (125, 35388), (126, 35385), (141, 35328), (172, 35172), (182, 35094), (185, 35082), (207, 35028), (214, 34983), (216, 34965), (217, 34959), (218, 34956), (280, 34809), (291, 34764), (321, 34584), (327, 34548), (343, 34470), (356, 34410), (374, 34305), (376, 34296), (408, 34143), (416, 34113), (430, 34050), (447, 33987), (492, 33789),

Gene: Alone3_146 Start: 78919, Stop: 80550, Start Num: 103
Candidate Starts for Alone3_146:
(Start: 103 @78919 has 6 MA's), (Start: 104 @78925 has 2 MA's), (107, 78937), (122, 79030), (129, 79054), (137, 79093), (154, 79159), (159, 79198), (165, 79222), (175, 79279), (176, 79288), (180, 79321), (205, 79354), (216, 79426), (222, 79456), (224, 79462), (230, 79495), (231, 79501), (278, 79603), (287, 79627), (292, 79657), (315, 79783), (338, 79894), (340, 79903), (357, 79975), (379, 80104), (393, 80173), (395, 80176), (412, 80245), (421, 80287), (424, 80299), (433, 80329), (440, 80350), (447, 80383), (454, 80416), (465, 80449), (468, 80455), (479, 80518), (482, 80527),

Gene: Alpacados_40 Start: 32046, Stop: 30001, Start Num: 46
Candidate Starts for Alpacados_40:
(Start: 46 @32046 has 38 MA's), (74, 31926), (87, 31857), (Start: 97 @31803 has 1 MA's), (114, 31722), (116, 31713), (125, 31653), (156, 31533), (158, 31500), (159, 31497), (161, 31488), (167, 31467), (171, 31446), (172, 31437), (178, 31374), (182, 31359), (184, 31353), (207, 31293), (213, 31260), (216, 31230), (217, 31224), (218, 31221), (259, 31086), (308, 30891), (312, 30873), (338, 30750), (340, 30741), (367, 30609), (376, 30549), (385, 30477), (398, 30438), (399, 30435), (402, 30423), (408, 30390), (418, 30351), (436, 30279), (443, 30252), (447, 30231), (451, 30213), (470, 30153), (477, 30117),

Gene: Alsaber_48 Start: 33339, Stop: 35402, Start Num: 48
Candidate Starts for Alsaber_48:
(12, 33237), (13, 33243), (Start: 48 @33339 has 546 MA's), (Start: 61 @33378 has 1 MA's), (Start: 71 @33441 has 1 MA's), (Start: 73 @33450 has 4 MA's), (81, 33501), (82, 33507), (Start: 88 @33540 has 3 MA's), (Start: 97 @33591 has 1 MA's), (116, 33681), (117, 33696), (134, 33768), (141, 33801), (163, 33918), (172, 33960), (182, 34038), (183, 34041), (187, 34062), (207, 34128), (216, 34191), (218, 34200), (278, 34341), (287, 34365), (318, 34554), (327, 34611), (354, 34734), (376, 34860), (378, 34869), (402, 34986), (403, 34998), (407, 35022), (408, 35025), (420, 35073), (436, 35127), (441, 35145), (447, 35175), (463, 35229), (473, 35271), (490, 35349),

Gene: Alvy_50 Start: 33162, Stop: 35276, Start Num: 48
Candidate Starts for Alvy_50:
(Start: 48 @33162 has 546 MA's), (82, 33330), (Start: 88 @33363 has 3 MA's), (Start: 97 @33414 has 1 MA's), (114, 33495), (116, 33504), (134, 33591), (136, 33603), (141, 33624), (163, 33741), (172, 33783), (173, 33792), (182, 33861), (207, 33969), (212, 33999), (213, 34002), (216, 34032), (268, 34197), (277, 34206), (287, 34233), (302, 34353), (321, 34443), (323, 34458), (327, 34479), (335, 34506), (340, 34539), (341, 34545), (370, 34689), (371, 34695), (373, 34704), (378, 34740), (382, 34788), (384, 34800), (395, 34827), (398, 34839), (407, 34893), (410, 34899), (420, 34944), (426, 34965), (436, 34998), (441, 35016), (447, 35046), (473, 35145), (486, 35214), (495, 35268),

Gene: Amabiko_45 Start: 19533, Stop: 21473, Start Num: 64
Candidate Starts for Amabiko_45:
(Start: 64 @19533 has 81 MA's), (90, 19665), (96, 19701), (102, 19737), (110, 19764), (112, 19776), (132, 19881), (150, 19938), (188, 20163), (210, 20217), (221, 20301), (232, 20352), (239, 20391), (245, 20403), (293, 20481), (305, 20580), (314, 20616), (345, 20763), (379, 20937), (382, 20973), (400, 21042), (401, 21045), (439, 21216), (476, 21354),

Gene: Amela_47 Start: 34136, Stop: 36250, Start Num: 48
Candidate Starts for Amela_47:
(8, 34010), (15, 34049), (17, 34055), (Start: 48 @34136 has 546 MA's), (Start: 61 @34178 has 1 MA's), (Start: 71 @34241 has 1 MA's), (Start: 73 @34250 has 4 MA's), (81, 34301), (82, 34307), (Start: 88 @34340 has 3 MA's), (108, 34445), (114, 34475), (116, 34484), (131, 34562), (134, 34571), (136, 34583), (141, 34604), (149, 34622), (163, 34721), (172, 34763), (173, 34772), (182, 34841), (183, 34844), (207, 34949), (212, 34979), (213, 34982), (216, 35012), (277, 35186), (283, 35201), (287, 35213), (298, 35279), (309, 35372), (327, 35459), (341, 35525), (354, 35582), (361, 35615), (376, 35708), (378, 35717), (402, 35834), (403, 35846), (407, 35870), (408, 35873), (420, 35921), (436, 35975), (441, 35993), (447, 36023), (457, 36059), (462, 36071), (463, 36077), (473, 36119), (490, 36197),

Gene: Amethyst_47 Start: 32641, Stop: 34839, Start Num: 48
Candidate Starts for Amethyst_47:
(41, 32623), (Start: 48 @32641 has 546 MA's), (79, 32797), (82, 32818), (Start: 88 @32851 has 3 MA's), (90, 32857), (114, 32983), (116, 32992), (134, 33079), (136, 33091), (141, 33112), (163, 33229), (172, 33271), (173, 33280), (182, 33349), (207, 33547), (212, 33577), (213, 33580), (216, 33610), (283, 33784), (287, 33796), (321, 34006), (327, 34042), (341, 34108), (368, 34240), (370, 34252), (371, 34258), (373, 34267), (378, 34303), (384, 34363), (388, 34381), (407, 34456), (410, 34462), (420, 34507), (430, 34546), (436, 34561), (441, 34579), (447, 34609), (462, 34660), (463, 34666), (473, 34708), (495, 34831),

Gene: Anaysia_56 Start: 34919, Stop: 32856, Start Num: 42
Candidate Starts for Anaysia_56:
(Start: 42 @34919 has 25 MA's), (87, 34724), (Start: 88 @34721 has 3 MA's), (114, 34589), (116, 34580), (141, 34460), (173, 34295), (177, 34256), (182, 34226), (199, 34184), (207, 34160), (212, 34130), (216, 34097), (217, 34091), (218, 34088), (278, 33914), (283, 33902), (291, 33866), (320, 33689), (321, 33686), (327, 33650), (341, 33584), (349, 33545), (351, 33533), (369, 33446), (370, 33440), (376, 33398), (426, 33167), (447, 33086), (464, 33026), (470, 33008), (488, 32915), (491, 32897),

Gene: Andris_48 Start: 32794, Stop: 34884, Start Num: 48
Candidate Starts for Andris_48:
(Start: 48 @32794 has 546 MA's), (79, 32950), (Start: 88 @33004 has 3 MA's), (90, 33010), (Start: 97 @33055 has 1 MA's), (114, 33136), (116, 33145), (134, 33232), (136, 33244), (141, 33265), (163,

33382), (172, 33424), (173, 33433), (182, 33502), (194, 33547), (207, 33592), (216, 33655), (253, 33784), (278, 33817), (287, 33841), (321, 34051), (327, 34087), (341, 34153), (370, 34297), (371, 34303), (373, 34312), (378, 34348), (381, 34387), (384, 34408), (398, 34447), (403, 34477), (407, 34501), (436, 34606), (441, 34624), (450, 34666), (473, 34753), (486, 34822), (495, 34876),

Gene: Anedea_40 Start: 18408, Stop: 20351, Start Num: 64
Candidate Starts for Anedea_40:
(Start: 64 @18408 has 81 MA's), (Start: 67 @18414 has 1 MA's), (83, 18516), (86, 18537), (90, 18546), (108, 18636), (110, 18645), (111, 18654), (112, 18657), (132, 18762), (188, 19044), (204, 19071), (221, 19182), (239, 19272), (245, 19284), (314, 19497), (345, 19644), (348, 19662), (379, 19818), (401, 19926), (439, 20097), (448, 20136), (476, 20235), (490, 20307), (494, 20337),

Gene: Aneem_52 Start: 35307, Stop: 33283, Start Num: 52
Candidate Starts for Aneem_52:
(28, 35358), (43, 35325), (Start: 52 @35307 has 24 MA's), (Start: 73 @35199 has 4 MA's), (Start: 88 @35124 has 3 MA's), (114, 34992), (116, 34983), (141, 34863), (172, 34707), (177, 34659), (181, 34632), (182, 34629), (185, 34617), (201, 34584), (207, 34563), (214, 34518), (216, 34500), (217, 34494), (218, 34491), (278, 34341), (291, 34293), (294, 34278), (321, 34113), (341, 34011), (345, 33993), (360, 33921), (370, 33867), (373, 33852), (374, 33834), (408, 33672), (418, 33633), (441, 33543), (447, 33513), (461, 33465),

Gene: Angela_40 Start: 18390, Stop: 20333, Start Num: 64
Candidate Starts for Angela_40:
(51, 18345), (Start: 64 @18390 has 81 MA's), (Start: 67 @18396 has 1 MA's), (83, 18498), (86, 18519), (90, 18528), (108, 18618), (110, 18627), (111, 18636), (112, 18639), (132, 18744), (143, 18786), (179, 18996), (204, 19053), (221, 19164), (239, 19254), (245, 19266), (314, 19479), (317, 19488), (336, 19584), (345, 19626), (379, 19800), (401, 19908), (439, 20079), (448, 20118), (476, 20217),

Gene: AngryGiraffe_44 Start: 19477, Stop: 21417, Start Num: 64
Candidate Starts for AngryGiraffe_44:
(Start: 64 @19477 has 81 MA's), (90, 19609), (96, 19645), (101, 19669), (102, 19681), (110, 19708), (112, 19720), (132, 19825), (143, 19867), (153, 19915), (211, 20179), (215, 20212), (221, 20245), (232, 20296), (234, 20311), (239, 20335), (245, 20347), (293, 20425), (305, 20524), (313, 20557), (314, 20560), (339, 20680), (345, 20707), (348, 20725), (379, 20881), (400, 20986), (401, 20989), (439, 21160), (448, 21199), (476, 21298),

Gene: AngryOrchard_39 Start: 31939, Stop: 29894, Start Num: 46
Candidate Starts for AngryOrchard_39:
(Start: 46 @31939 has 38 MA's), (74, 31819), (85, 31756), (87, 31750), (Start: 97 @31696 has 1 MA's), (114, 31615), (116, 31606), (156, 31426), (158, 31393), (159, 31390), (161, 31381), (167, 31360), (171, 31339), (172, 31330), (182, 31252), (184, 31246), (207, 31186), (216, 31123), (217, 31117), (218, 31114), (259, 30979), (308, 30784), (312, 30766), (340, 30634), (367, 30502), (376, 30442), (385, 30370), (393, 30346), (398, 30331), (399, 30328), (402, 30316), (408, 30283), (418, 30244), (436, 30172), (443, 30145), (477, 30010),

Gene: Animus_47 Start: 33036, Stop: 35159, Start Num: 48
Candidate Starts for Animus_47:
(Start: 48 @33036 has 546 MA's), (79, 33192), (Start: 88 @33246 has 3 MA's), (90, 33252), (Start: 97 @33297 has 1 MA's), (114, 33378), (116, 33387), (134, 33474), (136, 33486), (141, 33507), (163, 33624), (172, 33666), (182, 33744), (194, 33801), (207, 33852), (216, 33915), (281, 34098), (287, 34116), (321, 34326), (327, 34362), (341, 34428), (358, 34509), (370, 34572), (371, 34578), (373, 34587), (378, 34623), (382, 34671), (384, 34683), (395, 34710), (398, 34722), (403, 34752), (407, 34776), (436, 34881), (441, 34899), (473, 35028), (486, 35097), (495, 35151),

Gene: AnnaL29_53 Start: 36744, Stop: 34702, Start Num: 46
Candidate Starts for AnnaL29_53:
(Start: 46 @36744 has 38 MA's), (Start: 61 @36702 has 1 MA's), (Start: 73 @36630 has 4 MA's), (74, 36627), (Start: 88 @36555 has 3 MA's), (102, 36471), (116, 36414), (125, 36354), (141, 36294), (152, 36249), (172, 36138), (173, 36129), (182, 36060), (199, 36012), (207, 35988), (212, 35958), (213, 35955), (214, 35943), (216, 35925), (217, 35919), (218, 35916), (236, 35829), (280, 35754), (285, 35739), (291, 35709), (298, 35667), (321, 35529), (341, 35427), (343, 35415), (356, 35355), (370, 35283), (378, 35232), (391, 35151), (393, 35148), (396, 35142), (408, 35088), (418, 35049), (430, 34995), (432, 34989), (447, 34932), (463, 34875),

Gene: Annadreamy_20 Start: 7774, Stop: 9717, Start Num: 65
Candidate Starts for Annadreamy_20:
(10, 7600), (18, 7636), (62, 7765), (Start: 65 @7774 has 29 MA's), (Start: 73 @7831 has 4 MA's), (86, 7903), (90, 7912), (100, 7969), (Start: 103 @7987 has 6 MA's), (105, 7996), (110, 8011), (112, 8023), (132, 8128), (191, 8413), (242, 8641), (303, 8815), (324, 8908), (328, 8935), (339, 8980), (344, 9004), (358, 9055), (379, 9181), (401, 9289), (404, 9307), (419, 9379), (421, 9391), (476, 9598), (480, 9622),

Gene: Annyong_50 Start: 35493, Stop: 33460, Start Num: 48
Candidate Starts for Annyong_50:
(Start: 48 @35493 has 546 MA's), (68, 35430), (Start: 73 @35382 has 4 MA's), (78, 35358), (92, 35292), (Start: 97 @35256 has 1 MA's), (102, 35223), (114, 35175), (116, 35166), (125, 35109), (134, 35082), (141, 35049), (172, 34893), (173, 34884), (182, 34815), (207, 34743), (212, 34713), (213, 34710), (216, 34680), (217, 34674), (218, 34671), (236, 34584), (251, 34554), (261, 34542), (269, 34533), (287, 34485), (321, 34281), (341, 34179), (345, 34161), (373, 34020), (376, 33993), (407, 33849), (408, 33846), (416, 33816), (430, 33753), (441, 33720), (443, 33711), (447, 33690), (461, 33642), (477, 33576),

Gene: Anon_52 Start: 34217, Stop: 32169, Start Num: 42
Candidate Starts for Anon_52:
(Start: 42 @34217 has 25 MA's), (Start: 73 @34094 has 4 MA's), (87, 34022), (Start: 88 @34019 has 3 MA's), (114, 33887), (116, 33878), (141, 33758), (173, 33593), (182, 33524), (199, 33482), (207, 33458), (212, 33428), (216, 33395), (217, 33389), (218, 33386), (283, 33215), (291, 33179), (318, 33020), (321, 32999), (327, 32963), (341, 32897), (349, 32858), (351, 32846), (369, 32759), (370, 32753), (376, 32711), (408, 32558), (426, 32480), (447, 32399), (464, 32339), (488, 32228), (491, 32210),

Gene: Anselm_52 Start: 36117, Stop: 34081, Start Num: 48
Candidate Starts for Anselm_52:
(Start: 48 @36117 has 546 MA's), (59, 36081), (Start: 73 @36006 has 4 MA's), (74, 36003), (Start: 88 @35931 has 3 MA's), (Start: 97 @35880 has 1 MA's), (100, 35862), (109, 35826), (116, 35790), (141, 35670), (171, 35523), (172, 35514), (182, 35436), (207, 35364), (212, 35334), (213, 35331), (214, 35319), (216, 35301), (217, 35295), (218, 35292), (280, 35133), (291, 35088), (298, 35046), (321, 34908), (327, 34872), (341, 34806), (343, 34794), (356, 34734), (367, 34680), (370, 34662), (408, 34467), (418, 34428), (419, 34425), (430, 34374), (447, 34311), (461, 34263), (463, 34254), (492, 34113),

Gene: Anthony_47 Start: 33618, Stop: 31591, Start Num: 48
Candidate Starts for Anthony_47:
(Start: 48 @33618 has 546 MA's), (59, 33582), (Start: 88 @33432 has 3 MA's), (102, 33348), (114, 33300), (116, 33291), (125, 33231), (145, 33162), (146, 33159), (155, 33120), (168, 33048), (172, 33021), (175, 32991), (182, 32943), (207, 32880), (212, 32850), (213, 32847), (216, 32817), (217, 32811), (218, 32808), (236, 32721), (267, 32667), (291, 32604), (299, 32559), (305, 32496), (307,

32490), (321, 32424), (338, 32337), (340, 32328), (355, 32253), (361, 32229), (376, 32136), (388, 32049), (410, 31974), (416, 31947), (418, 31938), (430, 31884), (441, 31851), (447, 31821), (461, 31773), (490, 31644), (491, 31632),

Gene: Anubis_57 Start: 35793, Stop: 33775, Start Num: 55
Candidate Starts for Anubis_57:
(Start: 55 @35793 has 103 MA's), (Start: 71 @35700 has 1 MA's), (Start: 73 @35691 has 4 MA's), (78, 35667), (Start: 88 @35616 has 3 MA's), (Start: 97 @35565 has 1 MA's), (114, 35484), (116, 35475), (141, 35355), (156, 35295), (159, 35259), (172, 35199), (182, 35121), (207, 35049), (212, 35019), (216, 34986), (217, 34980), (218, 34977), (234, 34896), (242, 34866), (287, 34812), (312, 34641), (333, 34545), (341, 34503), (345, 34485), (355, 34437), (358, 34425), (369, 34368), (370, 34362), (373, 34347), (376, 34320), (383, 34257), (384, 34251), (391, 34227), (418, 34122), (436, 34053), (441, 34035), (443, 34026), (447, 34005), (470, 33927), (477, 33891), (490, 33828),

Gene: AppleCloud_38 Start: 31871, Stop: 29826, Start Num: 46
Candidate Starts for AppleCloud_38:
(Start: 46 @31871 has 38 MA's), (59, 31829), (74, 31751), (85, 31688), (87, 31682), (Start: 97 @31628 has 1 MA's), (116, 31538), (117, 31523), (156, 31358), (158, 31325), (159, 31322), (171, 31271), (172, 31262), (178, 31199), (182, 31184), (184, 31178), (207, 31118), (216, 31055), (217, 31049), (218, 31046), (234, 30965), (259, 30911), (298, 30800), (303, 30743), (308, 30716), (312, 30698), (320, 30665), (340, 30566), (367, 30434), (376, 30374), (384, 30305), (398, 30263), (399, 30260), (402, 30248), (408, 30215), (418, 30176), (436, 30104), (443, 30077), (451, 30038), (477, 29942),

Gene: Aragog_42 Start: 34180, Stop: 32111, Start Num: 48
Candidate Starts for Aragog_42:
(Start: 48 @34180 has 546 MA's), (Start: 88 @33994 has 3 MA's), (Start: 97 @33943 has 1 MA's), (102, 33910), (114, 33862), (116, 33853), (141, 33733), (148, 33718), (167, 33607), (168, 33604), (172, 33577), (173, 33568), (179, 33508), (182, 33499), (187, 33475), (207, 33388), (212, 33358), (213, 33355), (216, 33325), (217, 33319), (218, 33316), (291, 33124), (319, 32962), (323, 32929), (334, 32881), (341, 32842), (355, 32773), (367, 32716), (369, 32704), (370, 32698), (376, 32656), (378, 32647), (407, 32500), (416, 32467), (425, 32425), (436, 32389), (441, 32371), (443, 32362), (491, 32152),

Gene: ArcherNM_46 Start: 35706, Stop: 33682, Start Num: 48
Candidate Starts for ArcherNM_46:
(Start: 48 @35706 has 546 MA's), (Start: 73 @35595 has 4 MA's), (Start: 88 @35520 has 3 MA's), (Start: 97 @35469 has 1 MA's), (102, 35436), (114, 35388), (116, 35379), (125, 35319), (141, 35259), (172, 35103), (173, 35094), (182, 35025), (207, 34953), (212, 34923), (213, 34920), (214, 34908), (216, 34890), (217, 34884), (218, 34881), (278, 34731), (280, 34728), (291, 34683), (298, 34641), (318, 34524), (321, 34503), (327, 34467), (341, 34401), (343, 34389), (356, 34329), (370, 34257), (391, 34125), (396, 34116), (408, 34062), (415, 34035), (430, 33975), (432, 33969), (447, 33912), (461, 33864), (463, 33855),

Gene: Archetta_43 Start: 34770, Stop: 32641, Start Num: 48
Candidate Starts for Archetta_43:
(Start: 48 @34770 has 546 MA's), (Start: 88 @34584 has 3 MA's), (Start: 97 @34533 has 1 MA's), (114, 34452), (116, 34443), (141, 34323), (148, 34308), (167, 34197), (168, 34194), (172, 34167), (173, 34158), (179, 34098), (182, 34089), (187, 34065), (207, 33978), (212, 33948), (213, 33945), (216, 33915), (217, 33909), (218, 33906), (242, 33795), (291, 33654), (319, 33492), (323, 33459), (334, 33411), (341, 33372), (355, 33303), (367, 33246), (369, 33234), (370, 33228), (376, 33186), (378, 33177), (385, 33114), (410, 33024), (416, 32997), (425, 32955), (436, 32919), (441, 32901), (443, 32892), (491, 32682),

Gene: ArianaSWT_43 Start: 19604, Stop: 21547, Start Num: 64
Candidate Starts for ArianaSWT_43:
(Start: 52 @19559 has 24 MA's), (Start: 55 @19568 has 103 MA's), (Start: 64 @19604 has 81 MA's), (Start: 67 @19610 has 1 MA's), (69, 19634), (83, 19712), (86, 19733), (90, 19742), (93, 19754), (108, 19832), (110, 19841), (111, 19850), (112, 19853), (132, 19958), (204, 20267), (239, 20468), (245, 20480), (314, 20693), (317, 20702), (336, 20798), (345, 20840), (348, 20858), (379, 21014), (401, 21122), (439, 21293), (448, 21332), (476, 21431),

Gene: Arissanae_50 Start: 36302, Stop: 34263, Start Num: 48
Candidate Starts for Arissanae_50:
(Start: 48 @36302 has 546 MA's), (Start: 73 @36188 has 4 MA's), (74, 36185), (102, 36029), (115, 35975), (116, 35972), (125, 35912), (126, 35909), (141, 35852), (172, 35696), (182, 35618), (185, 35606), (207, 35552), (213, 35519), (216, 35489), (217, 35483), (218, 35480), (280, 35315), (288, 35291), (291, 35270), (321, 35090), (327, 35054), (338, 35003), (356, 34916), (370, 34844), (374, 34811), (376, 34802), (408, 34649), (418, 34610), (426, 34574), (447, 34493), (461, 34445),

Gene: Artemis2UCLA_54 Start: 34910, Stop: 32856, Start Num: 48
Candidate Starts for Artemis2UCLA_54:
(Start: 48 @34910 has 546 MA's), (Start: 88 @34724 has 3 MA's), (Start: 97 @34673 has 1 MA's), (102, 34640), (114, 34592), (116, 34583), (125, 34523), (141, 34463), (155, 34406), (159, 34367), (168, 34334), (172, 34307), (173, 34298), (178, 34244), (182, 34229), (207, 34157), (212, 34127), (216, 34094), (217, 34088), (218, 34085), (236, 33998), (258, 33944), (278, 33911), (291, 33863), (298, 33821), (321, 33683), (343, 33569), (356, 33509), (358, 33500), (367, 33455), (370, 33437), (374, 33404), (393, 33302), (396, 33296), (408, 33242), (415, 33215), (418, 33203), (430, 33149), (447, 33086), (454, 33056), (463, 33029), (472, 32990),

Gene: Arturo_49 Start: 35720, Stop: 33690, Start Num: 48
Candidate Starts for Arturo_49:
(Start: 48 @35720 has 546 MA's), (92, 35519), (Start: 97 @35483 has 1 MA's), (102, 35450), (114, 35402), (116, 35393), (125, 35336), (141, 35276), (160, 35174), (172, 35120), (173, 35111), (182, 35042), (185, 35030), (206, 34979), (207, 34970), (212, 34940), (213, 34937), (216, 34907), (217, 34901), (218, 34898), (225, 34865), (287, 34715), (321, 34511), (341, 34409), (345, 34391), (369, 34271), (373, 34250), (376, 34223), (407, 34079), (408, 34076), (416, 34046), (426, 34001), (436, 33968), (441, 33950), (443, 33941), (447, 33920), (477, 33806),

Gene: Asten_47 Start: 31991, Stop: 34081, Start Num: 48
Candidate Starts for Asten_47:
(16, 31910), (31, 31949), (34, 31955), (Start: 48 @31991 has 546 MA's), (Start: 73 @32108 has 4 MA's), (79, 32147), (82, 32168), (Start: 88 @32201 has 3 MA's), (Start: 97 @32252 has 1 MA's), (114, 32333), (116, 32342), (131, 32420), (141, 32462), (156, 32522), (158, 32555), (163, 32579), (172, 32621), (182, 32699), (183, 32702), (200, 32759), (207, 32789), (216, 32852), (218, 32861), (229, 32912), (248, 32981), (283, 33026), (287, 33038), (305, 33170), (321, 33248), (323, 33263), (327, 33284), (338, 33335), (370, 33494), (371, 33500), (373, 33509), (378, 33545), (384, 33605), (395, 33632), (398, 33644), (399, 33647), (407, 33698), (410, 33704), (426, 33770), (436, 33803), (441, 33821), (447, 33851), (450, 33863), (457, 33890), (469, 33923), (473, 33950), (488, 34022),

Gene: Astro_47 Start: 33968, Stop: 31923, Start Num: 48
Candidate Starts for Astro_47:
(Start: 48 @33968 has 546 MA's), (75, 33842), (87, 33785), (Start: 88 @33782 has 3 MA's), (Start: 97 @33731 has 1 MA's), (102, 33698), (114, 33650), (116, 33641), (117, 33626), (121, 33599), (149, 33503), (155, 33464), (160, 33419), (171, 33374), (172, 33365), (178, 33302), (179, 33296), (182, 33287), (183, 33284), (207, 33215), (212, 33185), (213, 33182), (216, 33152), (217, 33146), (218, 33143), (291, 32945), (321, 32762), (327, 32726), (341, 32660), (363, 32561), (369, 32522), (376,

32474), (378, 32465), (392, 32381), (416, 32279), (426, 32234), (441, 32183), (443, 32174), (447, 32153), (451, 32135), (491, 31964),

Gene: AugsMagnumOpus_57 Start: 35898, Stop: 33880, Start Num: 55
Candidate Starts for AugsMagnumOpus_57:
(Start: 55 @35898 has 103 MA's), (Start: 73 @35796 has 4 MA's), (78, 35772), (Start: 88 @35721 has 3 MA's), (Start: 97 @35670 has 1 MA's), (114, 35589), (116, 35580), (141, 35460), (156, 35400), (159, 35364), (172, 35304), (182, 35226), (207, 35154), (212, 35124), (216, 35091), (217, 35085), (218, 35082), (234, 35001), (242, 34971), (287, 34917), (312, 34746), (333, 34650), (341, 34608), (345, 34590), (355, 34542), (358, 34530), (369, 34473), (370, 34467), (373, 34452), (376, 34425), (383, 34362), (384, 34356), (391, 34332), (418, 34227), (436, 34158), (441, 34140), (443, 34131), (447, 34110), (470, 34032), (477, 33996), (490, 33933),

Gene: AvatarAhPeg_48 Start: 35233, Stop: 33197, Start Num: 48
Candidate Starts for AvatarAhPeg_48:
(Start: 48 @35233 has 546 MA's), (92, 35032), (Start: 97 @34996 has 1 MA's), (102, 34963), (114, 34915), (116, 34906), (141, 34789), (172, 34633), (173, 34624), (179, 34564), (182, 34555), (185, 34543), (206, 34492), (207, 34483), (212, 34453), (213, 34450), (216, 34420), (217, 34414), (218, 34411), (225, 34378), (242, 34300), (282, 34237), (287, 34222), (321, 34018), (345, 33898), (369, 33778), (373, 33757), (376, 33730), (407, 33586), (408, 33583), (416, 33553), (426, 33508), (441, 33457), (443, 33448), (447, 33427), (461, 33379), (477, 33313),

Gene: Avle17_50 Start: 35445, Stop: 33412, Start Num: 48
Candidate Starts for Avle17_50:
(Start: 48 @35445 has 546 MA's), (68, 35382), (Start: 73 @35334 has 4 MA's), (78, 35310), (92, 35244), (Start: 97 @35208 has 1 MA's), (102, 35175), (114, 35127), (116, 35118), (125, 35061), (134, 35034), (141, 35001), (172, 34845), (173, 34836), (182, 34767), (207, 34695), (212, 34665), (213, 34662), (216, 34632), (217, 34626), (218, 34623), (236, 34536), (251, 34506), (261, 34494), (269, 34485), (287, 34437), (321, 34233), (341, 34131), (345, 34113), (373, 33972), (376, 33945), (407, 33801), (408, 33798), (416, 33768), (430, 33705), (441, 33672), (443, 33663), (447, 33642), (461, 33594), (477, 33528),

Gene: Axiom_49 Start: 32982, Stop: 35072, Start Num: 48
Candidate Starts for Axiom_49:
(Start: 48 @32982 has 546 MA's), (82, 33159), (Start: 88 @33192 has 3 MA's), (Start: 97 @33243 has 1 MA's), (114, 33324), (116, 33333), (134, 33420), (136, 33432), (141, 33453), (163, 33570), (172, 33612), (173, 33621), (182, 33690), (194, 33735), (207, 33780), (216, 33843), (253, 33972), (276, 33999), (287, 34029), (305, 34161), (321, 34239), (327, 34275), (335, 34302), (337, 34320), (341, 34341), (370, 34485), (371, 34491), (373, 34500), (378, 34536), (381, 34575), (384, 34596), (395, 34623), (398, 34635), (403, 34665), (407, 34689), (436, 34794), (441, 34812), (450, 34854), (461, 34890), (473, 34941), (486, 35010), (495, 35064),

Gene: Ayanochan_50 Start: 35756, Stop: 33717, Start Num: 48
Candidate Starts for Ayanochan_50:
(Start: 48 @35756 has 546 MA's), (Start: 73 @35642 has 4 MA's), (75, 35627), (78, 35618), (Start: 97 @35516 has 1 MA's), (116, 35426), (125, 35366), (141, 35306), (171, 35159), (172, 35150), (182, 35072), (185, 35060), (206, 35015), (207, 35006), (212, 34976), (214, 34961), (216, 34943), (217, 34937), (218, 34934), (280, 34769), (288, 34745), (291, 34724), (321, 34544), (343, 34430), (356, 34370), (374, 34265), (376, 34256), (408, 34103), (416, 34073), (430, 34010), (447, 33947),

Gene: B1_46 Start: 33913, Stop: 31892, Start Num: 48
Candidate Starts for B1_46:

(Start: 48 @33913 has 546 MA's), (Start: 73 @33802 has 4 MA's), (74, 33799), (92, 33712), (Start: 97 @33676 has 1 MA's), (102, 33643), (114, 33595), (116, 33586), (141, 33466), (148, 33451), (168, 33337), (172, 33310), (173, 33301), (182, 33232), (188, 33211), (190, 33208), (207, 33166), (212, 33136), (214, 33121), (216, 33103), (217, 33097), (218, 33094), (287, 32929), (321, 32725), (333, 32665), (341, 32623), (345, 32605), (369, 32485), (370, 32479), (373, 32464), (385, 32365), (407, 32281), (416, 32248), (419, 32236), (431, 32182), (443, 32143), (447, 32122), (477, 32008),

Gene: BABullseye_47 Start: 32492, Stop: 30468, Start Num: 48
Candidate Starts for BABullseye_47:
(33, 32525), (Start: 48 @32492 has 546 MA's), (Start: 88 @32306 has 3 MA's), (102, 32222), (114, 32174), (116, 32165), (125, 32105), (141, 32045), (155, 31988), (159, 31949), (168, 31916), (172, 31889), (173, 31880), (178, 31826), (182, 31811), (207, 31739), (212, 31709), (216, 31676), (217, 31670), (218, 31667), (291, 31475), (318, 31316), (321, 31295), (343, 31181), (356, 31121), (358, 31112), (367, 31067), (370, 31049), (374, 31016), (393, 30914), (396, 30908), (408, 30854), (418, 30815), (430, 30761), (447, 30698), (454, 30668), (463, 30641),

Gene: BRock_136 Start: 73464, Stop: 75080, Start Num: 103
Candidate Starts for BRock_136:
(Start: 103 @73464 has 6 MA's), (Start: 104 @73470 has 2 MA's), (107, 73482), (122, 73575), (137, 73638), (144, 73656), (154, 73704), (156, 73710), (159, 73743), (165, 73767), (176, 73833), (180, 73866), (205, 73899), (216, 73971), (224, 74007), (230, 74040), (231, 74046), (278, 74133), (287, 74157), (300, 74238), (315, 74313), (322, 74346), (340, 74433), (341, 74439), (376, 74613), (379, 74634), (380, 74643), (395, 74706), (424, 74829), (447, 74913), (454, 74946), (468, 74985), (479, 75048), (482, 75057),

Gene: Baby16_50 Start: 35459, Stop: 33426, Start Num: 48
Candidate Starts for Baby16_50:
(Start: 48 @35459 has 546 MA's), (68, 35396), (Start: 73 @35348 has 4 MA's), (78, 35324), (92, 35258), (Start: 97 @35222 has 1 MA's), (102, 35189), (114, 35141), (116, 35132), (125, 35075), (134, 35048), (141, 35015), (172, 34859), (173, 34850), (182, 34781), (207, 34709), (212, 34679), (213, 34676), (216, 34646), (217, 34640), (218, 34637), (236, 34550), (247, 34526), (251, 34520), (261, 34508), (269, 34499), (287, 34451), (320, 34250), (321, 34247), (341, 34145), (345, 34127), (373, 33986), (376, 33959), (407, 33815), (408, 33812), (416, 33782), (430, 33719), (441, 33686), (443, 33677), (447, 33656), (461, 33608), (477, 33542),

Gene: BabyBack_50 Start: 36429, Stop: 34393, Start Num: 48
Candidate Starts for BabyBack_50:
(6, 36570), (Start: 48 @36429 has 546 MA's), (Start: 88 @36240 has 3 MA's), (Start: 97 @36189 has 1 MA's), (114, 36108), (116, 36099), (125, 36039), (138, 35985), (141, 35979), (172, 35823), (173, 35814), (182, 35745), (207, 35673), (212, 35643), (213, 35640), (214, 35628), (216, 35610), (217, 35604), (218, 35601), (228, 35553), (236, 35514), (291, 35400), (298, 35358), (321, 35220), (327, 35184), (341, 35118), (356, 35046), (365, 35010), (370, 34974), (374, 34941), (391, 34842), (396, 34833), (408, 34779), (418, 34740), (430, 34686), (436, 34671), (447, 34623), (461, 34575),

Gene: BabyJohn_49 Start: 35737, Stop: 33716, Start Num: 48
Candidate Starts for BabyJohn_49:
(Start: 48 @35737 has 546 MA's), (74, 35623), (92, 35536), (Start: 97 @35500 has 1 MA's), (102, 35467), (114, 35419), (116, 35410), (141, 35290), (168, 35161), (172, 35134), (173, 35125), (182, 35056), (188, 35035), (207, 34990), (212, 34960), (213, 34957), (214, 34945), (216, 34927), (217, 34921), (218, 34918), (287, 34753), (321, 34549), (333, 34489), (341, 34447), (345, 34429), (355, 34378), (369, 34309), (370, 34303), (373, 34288), (385, 34189), (407, 34105), (419, 34060), (443, 33967), (447, 33946), (477, 33832),

Gene: BabyRay_51 Start: 35710, Stop: 33650, Start Num: 48
Candidate Starts for BabyRay_51:
(Start: 48 @35710 has 546 MA's), (Start: 73 @35602 has 4 MA's), (92, 35512), (Start: 97 @35476 has 1 MA's), (102, 35443), (114, 35395), (116, 35386), (141, 35269), (159, 35173), (172, 35113), (182, 35035), (207, 34963), (212, 34933), (213, 34930), (214, 34918), (216, 34900), (217, 34894), (218, 34891), (234, 34810), (287, 34687), (288, 34684), (321, 34483), (333, 34423), (341, 34381), (345, 34363), (369, 34243), (370, 34237), (373, 34222), (376, 34195), (385, 34123), (403, 34057), (419, 33994), (443, 33901), (447, 33880), (477, 33766),

Gene: Bachome_53 Start: 35287, Stop: 33263, Start Num: 52
Candidate Starts for Bachome_53:
(28, 35338), (43, 35305), (Start: 52 @35287 has 24 MA's), (Start: 73 @35179 has 4 MA's), (Start: 88 @35104 has 3 MA's), (114, 34972), (116, 34963), (141, 34843), (172, 34687), (177, 34639), (181, 34612), (182, 34609), (185, 34597), (201, 34564), (207, 34543), (214, 34498), (216, 34480), (217, 34474), (218, 34471), (278, 34321), (291, 34273), (294, 34258), (321, 34093), (341, 33991), (345, 33973), (360, 33901), (370, 33847), (373, 33832), (374, 33814), (408, 33652), (418, 33613), (427, 33565), (441, 33523), (447, 33493), (461, 33445),

Gene: Backyardigan_48 Start: 35439, Stop: 33421, Start Num: 48
Candidate Starts for Backyardigan_48:
(Start: 48 @35439 has 546 MA's), (Start: 73 @35328 has 4 MA's), (92, 35238), (Start: 97 @35202 has 1 MA's), (102, 35169), (114, 35121), (116, 35112), (125, 35052), (141, 34992), (172, 34836), (173, 34827), (182, 34758), (185, 34746), (205, 34695), (207, 34686), (212, 34656), (213, 34653), (216, 34623), (217, 34617), (218, 34614), (255, 34494), (278, 34470), (287, 34446), (321, 34242), (341, 34140), (345, 34122), (355, 34071), (369, 34002), (373, 33981), (376, 33954), (407, 33810), (408, 33807), (416, 33777), (426, 33732), (441, 33681), (443, 33672), (447, 33651), (477, 33537), (488, 33480),

Gene: Bactobuster_50 Start: 36673, Stop: 34643, Start Num: 48
Candidate Starts for Bactobuster_50:
(Start: 48 @36673 has 546 MA's), (74, 36559), (116, 36346), (117, 36331), (141, 36226), (172, 36070), (173, 36061), (182, 35992), (199, 35944), (207, 35920), (212, 35890), (213, 35887), (214, 35875), (216, 35857), (217, 35851), (218, 35848), (236, 35761), (278, 35692), (291, 35644), (298, 35602), (321, 35464), (327, 35428), (341, 35362), (343, 35350), (356, 35290), (370, 35218), (391, 35086), (393, 35083), (396, 35077), (402, 35056), (408, 35023), (415, 34996), (430, 34936), (447, 34873), (461, 34825), (463, 34816),

Gene: Badger_48 Start: 35407, Stop: 33389, Start Num: 48
Candidate Starts for Badger_48:
(Start: 48 @35407 has 546 MA's), (Start: 73 @35296 has 4 MA's), (92, 35206), (Start: 97 @35170 has 1 MA's), (102, 35137), (114, 35089), (116, 35080), (125, 35020), (141, 34960), (172, 34804), (173, 34795), (182, 34726), (185, 34714), (205, 34663), (207, 34654), (212, 34624), (213, 34621), (216, 34591), (217, 34585), (218, 34582), (255, 34462), (278, 34438), (287, 34414), (321, 34210), (341, 34108), (345, 34090), (355, 34039), (369, 33970), (373, 33949), (376, 33922), (407, 33778), (408, 33775), (416, 33745), (426, 33700), (441, 33649), (443, 33640), (447, 33619), (477, 33505), (488, 33448),

Gene: Baehexic_50 Start: 35873, Stop: 33837, Start Num: 48
Candidate Starts for Baehexic_50:
(Start: 48 @35873 has 546 MA's), (Start: 61 @35834 has 1 MA's), (Start: 73 @35762 has 4 MA's), (Start: 88 @35687 has 3 MA's), (Start: 97 @35636 has 1 MA's), (102, 35603), (116, 35546), (125, 35486), (134, 35459), (141, 35426), (172, 35270), (182, 35192), (185, 35180), (204, 35138), (207, 35120), (212, 35090), (213, 35087), (214, 35075), (216, 35057), (217, 35051), (218, 35048), (280,

34889), (291, 34844), (298, 34802), (321, 34664), (327, 34628), (341, 34562), (343, 34550), (356, 34490), (367, 34436), (370, 34418), (378, 34367), (391, 34286), (396, 34277), (408, 34223), (416, 34193), (418, 34184), (430, 34130), (447, 34067), (461, 34019), (463, 34010),

Gene: BangNhom_51 Start: 35884, Stop: 33833, Start Num: 48
Candidate Starts for BangNhom_51:
(Start: 48 @35884 has 546 MA's), (68, 35821), (Start: 73 @35773 has 4 MA's), (74, 35770), (78, 35749), (92, 35683), (Start: 97 @35647 has 1 MA's), (102, 35614), (114, 35566), (116, 35557), (125, 35500), (141, 35440), (148, 35425), (172, 35284), (173, 35275), (182, 35206), (207, 35134), (212, 35104), (213, 35101), (216, 35071), (217, 35065), (218, 35062), (268, 34909), (287, 34858), (321, 34654), (341, 34552), (345, 34534), (373, 34393), (376, 34366), (407, 34222), (408, 34219), (416, 34189), (430, 34126), (441, 34093), (443, 34084), (447, 34063), (461, 34015), (477, 33949),

Gene: BarryBee_50 Start: 32001, Stop: 34091, Start Num: 48
Candidate Starts for BarryBee_50:
(16, 31920), (Start: 48 @32001 has 546 MA's), (Start: 61 @32046 has 1 MA's), (79, 32157), (82, 32178), (Start: 88 @32211 has 3 MA's), (90, 32217), (Start: 97 @32262 has 1 MA's), (114, 32343), (116, 32352), (131, 32430), (141, 32472), (156, 32532), (158, 32565), (163, 32589), (172, 32631), (173, 32640), (182, 32709), (183, 32712), (207, 32799), (216, 32862), (218, 32871), (229, 32922), (248, 32991), (283, 33036), (287, 33048), (305, 33180), (318, 33237), (321, 33258), (323, 33273), (327, 33294), (338, 33345), (346, 33381), (347, 33387), (358, 33441), (370, 33504), (371, 33510), (378, 33555), (384, 33615), (395, 33642), (398, 33654), (407, 33708), (410, 33714), (420, 33759), (426, 33780), (436, 33813), (441, 33831), (447, 33861), (450, 33873), (457, 33900), (473, 33960), (488, 34032),

Gene: BartholomewSD_50 Start: 33161, Stop: 35275, Start Num: 48
Candidate Starts for BartholomewSD_50:
(Start: 48 @33161 has 546 MA's), (82, 33329), (Start: 88 @33362 has 3 MA's), (Start: 97 @33413 has 1 MA's), (114, 33494), (116, 33503), (134, 33590), (136, 33602), (141, 33623), (163, 33740), (172, 33782), (173, 33791), (182, 33860), (207, 33968), (212, 33998), (213, 34001), (216, 34031), (268, 34196), (287, 34232), (307, 34370), (321, 34442), (327, 34478), (335, 34505), (337, 34523), (341, 34544), (370, 34688), (371, 34694), (373, 34703), (378, 34739), (384, 34799), (395, 34826), (398, 34838), (402, 34856), (407, 34892), (410, 34898), (426, 34964), (436, 34997), (441, 35015), (447, 35045), (473, 35144), (486, 35213), (495, 35267),

Gene: Bartholomune_41 Start: 18300, Stop: 20243, Start Num: 64
Candidate Starts for Bartholomune_41:
(Start: 64 @18300 has 81 MA's), (Start: 67 @18306 has 1 MA's), (83, 18408), (86, 18429), (90, 18438), (108, 18528), (110, 18537), (111, 18546), (112, 18549), (132, 18654), (204, 18963), (221, 19074), (239, 19164), (245, 19176), (314, 19389), (345, 19536), (362, 19599), (379, 19710), (401, 19818), (439, 19989), (448, 20028), (476, 20127),

Gene: Bartimeaus_50 Start: 35450, Stop: 33417, Start Num: 48
Candidate Starts for Bartimeaus_50:
(Start: 48 @35450 has 546 MA's), (68, 35387), (Start: 73 @35339 has 4 MA's), (78, 35315), (92, 35249), (Start: 97 @35213 has 1 MA's), (102, 35180), (114, 35132), (116, 35123), (125, 35066), (134, 35039), (141, 35006), (172, 34850), (173, 34841), (182, 34772), (207, 34700), (212, 34670), (213, 34667), (216, 34637), (217, 34631), (218, 34628), (236, 34541), (247, 34517), (251, 34511), (261, 34499), (269, 34490), (287, 34442), (320, 34241), (321, 34238), (341, 34136), (345, 34118), (373, 33977), (376, 33950), (407, 33806), (408, 33803), (416, 33773), (430, 33710), (441, 33677), (443, 33668), (447, 33647), (461, 33599), (477, 33533),

Gene: Battleship_58 Start: 35190, Stop: 33127, Start Num: 42

Candidate Starts for Battleship_58:
(Start: 42 @35190 has 25 MA's), (77, 35046), (87, 34995), (Start: 88 @34992 has 3 MA's), (114, 34860), (116, 34851), (141, 34731), (173, 34566), (177, 34527), (182, 34497), (199, 34455), (207, 34431), (212, 34401), (216, 34368), (217, 34362), (218, 34359), (278, 34185), (283, 34173), (291, 34137), (320, 33960), (321, 33957), (327, 33921), (341, 33855), (349, 33816), (351, 33804), (369, 33717), (370, 33711), (376, 33669), (408, 33516), (426, 33438), (447, 33357), (464, 33297), (470, 33279), (488, 33186), (491, 33168),

Gene: Battuta_43 Start: 19509, Stop: 21449, Start Num: 64
Candidate Starts for Battuta_43:
(Start: 64 @19509 has 81 MA's), (90, 19641), (96, 19677), (102, 19713), (110, 19740), (112, 19752), (132, 19857), (150, 19914), (188, 20139), (210, 20193), (221, 20277), (232, 20328), (239, 20367), (245, 20379), (293, 20457), (305, 20556), (314, 20592), (345, 20739), (379, 20913), (382, 20949), (400, 21018), (401, 21021), (439, 21192), (476, 21330),

Gene: BeardedLady_47 Start: 32041, Stop: 34131, Start Num: 48
Candidate Starts for BeardedLady_47:
(Start: 48 @32041 has 546 MA's), (78, 32182), (79, 32197), (82, 32218), (Start: 88 @32251 has 3 MA's), (90, 32257), (Start: 97 @32302 has 1 MA's), (114, 32383), (116, 32392), (131, 32470), (134, 32479), (141, 32512), (158, 32605), (163, 32629), (172, 32671), (182, 32749), (183, 32752), (207, 32839), (216, 32902), (218, 32911), (283, 33076), (287, 33088), (305, 33220), (309, 33247), (321, 33298), (323, 33313), (327, 33334), (341, 33400), (370, 33544), (371, 33550), (373, 33559), (378, 33595), (382, 33643), (384, 33655), (398, 33694), (407, 33748), (420, 33799), (426, 33820), (436, 33853), (441, 33871), (447, 33901), (450, 33913), (457, 33940), (473, 34000), (486, 34069), (488, 34072), (495, 34123),

Gene: Beauxregard13_54 Start: 35910, Stop: 33892, Start Num: 55
Candidate Starts for Beauxregard13_54:
(Start: 55 @35910 has 103 MA's), (Start: 71 @35817 has 1 MA's), (Start: 73 @35808 has 4 MA's), (78, 35784), (Start: 88 @35733 has 3 MA's), (Start: 97 @35682 has 1 MA's), (114, 35601), (116, 35592), (141, 35472), (156, 35412), (159, 35376), (172, 35316), (182, 35238), (207, 35166), (212, 35136), (216, 35103), (217, 35097), (218, 35094), (234, 35013), (242, 34983), (287, 34929), (312, 34758), (333, 34662), (341, 34620), (345, 34602), (355, 34554), (358, 34542), (369, 34485), (370, 34479), (373, 34464), (376, 34437), (383, 34374), (384, 34368), (391, 34344), (418, 34239), (436, 34170), (441, 34152), (443, 34143), (447, 34122), (470, 34044), (477, 34008), (490, 33945),

Gene: Beemo_51 Start: 35768, Stop: 33729, Start Num: 48
Candidate Starts for Beemo_51:
(Start: 48 @35768 has 546 MA's), (Start: 73 @35654 has 4 MA's), (75, 35639), (78, 35630), (Start: 97 @35528 has 1 MA's), (116, 35438), (125, 35378), (126, 35375), (141, 35318), (171, 35171), (172, 35162), (182, 35084), (185, 35072), (207, 35018), (212, 34988), (214, 34973), (216, 34955), (217, 34949), (218, 34946), (280, 34781), (291, 34736), (321, 34556), (341, 34454), (356, 34382), (374, 34277), (376, 34268), (408, 34115), (416, 34085), (430, 34022), (447, 33959),

Gene: Beleetus_142 Start: 76502, Stop: 78118, Start Num: 103
Candidate Starts for Beleetus_142:
(Start: 103 @76502 has 6 MA's), (Start: 104 @76508 has 2 MA's), (107, 76520), (122, 76613), (129, 76637), (137, 76676), (154, 76742), (156, 76748), (159, 76781), (165, 76805), (176, 76871), (180, 76904), (205, 76937), (216, 77009), (222, 77039), (224, 77045), (230, 77078), (231, 77084), (261, 77150), (278, 77171), (287, 77195), (292, 77225), (315, 77351), (338, 77462), (340, 77471), (357, 77543), (369, 77603), (393, 77741), (412, 77813), (421, 77855), (424, 77867), (433, 77897), (440, 77918), (447, 77951), (454, 77984), (468, 78023), (479, 78086), (482, 78095),

Gene: Belenaria_41 Start: 32007, Stop: 29962, Start Num: 46
Candidate Starts for Belenaria_41:
(Start: 46 @32007 has 38 MA's), (74, 31887), (87, 31818), (Start: 97 @31764 has 1 MA's), (114, 31683), (116, 31674), (125, 31614), (131, 31596), (156, 31494), (158, 31461), (159, 31458), (161, 31449), (167, 31428), (171, 31407), (172, 31398), (178, 31335), (182, 31320), (184, 31314), (207, 31254), (213, 31221), (216, 31191), (217, 31185), (218, 31182), (259, 31047), (308, 30852), (312, 30834), (320, 30801), (338, 30711), (340, 30702), (367, 30570), (376, 30510), (385, 30438), (398, 30399), (399, 30396), (402, 30384), (408, 30351), (418, 30312), (436, 30240), (443, 30213), (477, 30078),

Gene: Belfort_22 Start: 8526, Stop: 10469, Start Num: 65
Candidate Starts for Belfort_22:
(62, 8517), (Start: 65 @8526 has 29 MA's), (90, 8664), (110, 8763), (112, 8775), (132, 8880), (242, 9393), (297, 9507), (313, 9609), (339, 9732), (344, 9756), (364, 9828), (379, 9933), (383, 9975), (389, 10005), (401, 10041), (405, 10062), (414, 10113), (421, 10143), (434, 10194), (476, 10350), (484, 10392),

Gene: Bellris_51 Start: 35239, Stop: 33200, Start Num: 48
Candidate Starts for Bellris_51:
(Start: 46 @35242 has 38 MA's), (Start: 48 @35239 has 546 MA's), (Start: 73 @35125 has 4 MA's), (74, 35122), (Start: 97 @34999 has 1 MA's), (102, 34966), (116, 34909), (125, 34849), (126, 34846), (141, 34789), (172, 34633), (182, 34555), (185, 34543), (206, 34498), (207, 34489), (212, 34459), (214, 34444), (216, 34426), (217, 34420), (218, 34417), (227, 34378), (280, 34252), (291, 34207), (298, 34165), (308, 34081), (321, 34027), (338, 33940), (343, 33913), (356, 33853), (374, 33748), (376, 33739), (408, 33586), (418, 33547), (447, 33430), (461, 33382),

Gene: BellusTerra_51 Start: 35449, Stop: 33416, Start Num: 48
Candidate Starts for BellusTerra_51:
(Start: 48 @35449 has 546 MA's), (68, 35386), (Start: 73 @35338 has 4 MA's), (78, 35314), (92, 35248), (Start: 97 @35212 has 1 MA's), (102, 35179), (114, 35131), (116, 35122), (125, 35065), (134, 35038), (141, 35005), (172, 34849), (173, 34840), (182, 34771), (207, 34699), (212, 34669), (213, 34666), (216, 34636), (217, 34630), (218, 34627), (236, 34540), (251, 34510), (261, 34498), (269, 34489), (287, 34441), (321, 34237), (341, 34135), (345, 34117), (373, 33976), (376, 33949), (407, 33805), (408, 33802), (416, 33772), (430, 33709), (441, 33676), (443, 33667), (447, 33646), (461, 33598), (477, 33532),

Gene: Benedict_46 Start: 34349, Stop: 32301, Start Num: 48
Candidate Starts for Benedict_46:
(14, 34415), (Start: 48 @34349 has 546 MA's), (Start: 88 @34166 has 3 MA's), (Start: 97 @34115 has 1 MA's), (102, 34082), (114, 34034), (116, 34025), (121, 33983), (149, 33887), (155, 33848), (160, 33803), (171, 33758), (172, 33749), (178, 33686), (179, 33680), (182, 33671), (207, 33599), (212, 33569), (213, 33566), (216, 33536), (217, 33530), (218, 33527), (242, 33416), (291, 33314), (294, 33299), (319, 33152), (323, 33119), (334, 33071), (341, 33032), (355, 32963), (367, 32906), (369, 32894), (370, 32888), (376, 32846), (378, 32837), (391, 32756), (407, 32690), (416, 32657), (425, 32615), (436, 32579), (441, 32561), (443, 32552), (491, 32342),

Gene: BengiVuitton_53 Start: 36232, Stop: 34178, Start Num: 48
Candidate Starts for BengiVuitton_53:
(Start: 48 @36232 has 546 MA's), (Start: 71 @36127 has 1 MA's), (Start: 73 @36118 has 4 MA's), (74, 36115), (78, 36094), (Start: 88 @36043 has 3 MA's), (Start: 97 @35992 has 1 MA's), (116, 35902), (124, 35845), (125, 35842), (141, 35782), (172, 35626), (173, 35617), (182, 35548), (197, 35512), (207, 35482), (212, 35452), (213, 35449), (214, 35437), (216, 35419), (217, 35413), (218, 35410), (262, 35266), (280, 35230), (291, 35185), (298, 35143), (321, 35005), (327, 34969), (341, 34903),

(343, 34891), (356, 34831), (367, 34777), (370, 34759), (393, 34627), (397, 34618), (402, 34597), (408, 34564), (418, 34525), (419, 34522), (425, 34492), (430, 34471), (432, 34465), (447, 34408), (461, 34360), (463, 34351),

Gene: BennyP_54 Start: 34980, Stop: 32920, Start Num: 48
Candidate Starts for BennyP_54:
(33, 35013), (Start: 48 @34980 has 546 MA's), (Start: 88 @34794 has 3 MA's), (102, 34710), (114, 34662), (116, 34653), (117, 34638), (125, 34593), (141, 34533), (155, 34476), (159, 34437), (168, 34404), (172, 34377), (173, 34368), (182, 34299), (207, 34227), (212, 34197), (216, 34164), (217, 34158), (218, 34155), (280, 33972), (291, 33927), (295, 33903), (318, 33768), (321, 33747), (343, 33633), (356, 33573), (358, 33564), (367, 33519), (370, 33501), (374, 33468), (393, 33366), (396, 33360), (408, 33306), (415, 33279), (416, 33276), (418, 33267), (430, 33213), (447, 33150), (454, 33120), (463, 33093),

Gene: Benvolio_48 Start: 35142, Stop: 33103, Start Num: 48
Candidate Starts for Benvolio_48:
(6, 35283), (7, 35277), (Start: 48 @35142 has 546 MA's), (Start: 71 @35037 has 1 MA's), (Start: 73 @35028 has 4 MA's), (74, 35025), (78, 35004), (Start: 97 @34902 has 1 MA's), (116, 34812), (117, 34797), (141, 34692), (172, 34536), (182, 34458), (207, 34386), (212, 34356), (213, 34353), (214, 34341), (216, 34323), (217, 34317), (218, 34314), (280, 34155), (291, 34110), (298, 34068), (321, 33930), (327, 33894), (341, 33828), (343, 33816), (356, 33756), (367, 33702), (370, 33684), (408, 33489), (418, 33450), (419, 33447), (430, 33396), (432, 33390), (447, 33333), (461, 33285), (463, 33276),

Gene: Beuffert_19 Start: 7421, Stop: 9364, Start Num: 65
Candidate Starts for Beuffert_19:
(4, 7211), (5, 7217), (9, 7238), (10, 7247), (62, 7412), (Start: 65 @7421 has 29 MA's), (Start: 73 @7478 has 4 MA's), (86, 7550), (90, 7559), (Start: 103 @7634 has 6 MA's), (110, 7658), (112, 7670), (132, 7775), (217, 8168), (242, 8288), (324, 8555), (326, 8573), (339, 8627), (344, 8651), (356, 8693), (358, 8702), (401, 8936), (421, 9038), (434, 9089), (476, 9245), (480, 9269),

Gene: BiancaTri92_51 Start: 36522, Stop: 34483, Start Num: 46
Candidate Starts for BiancaTri92_51:
(Start: 46 @36522 has 38 MA's), (Start: 73 @36408 has 4 MA's), (Start: 88 @36333 has 3 MA's), (Start: 97 @36282 has 1 MA's), (102, 36249), (114, 36201), (116, 36192), (125, 36132), (141, 36072), (149, 36054), (172, 35916), (173, 35907), (182, 35838), (207, 35766), (212, 35736), (213, 35733), (214, 35721), (216, 35703), (217, 35697), (218, 35694), (280, 35535), (291, 35490), (298, 35448), (321, 35310), (327, 35274), (333, 35250), (341, 35208), (343, 35196), (356, 35136), (370, 35064), (391, 34932), (396, 34923), (408, 34869), (415, 34842), (416, 34839), (418, 34830), (430, 34776), (447, 34713), (461, 34665), (463, 34656),

Gene: Bigflo_54 Start: 35906, Stop: 33888, Start Num: 55
Candidate Starts for Bigflo_54:
(Start: 55 @35906 has 103 MA's), (Start: 71 @35813 has 1 MA's), (Start: 73 @35804 has 4 MA's), (78, 35780), (Start: 88 @35729 has 3 MA's), (Start: 97 @35678 has 1 MA's), (114, 35597), (116, 35588), (141, 35468), (156, 35408), (159, 35372), (172, 35312), (182, 35234), (207, 35162), (212, 35132), (216, 35099), (217, 35093), (218, 35090), (234, 35009), (242, 34979), (287, 34925), (312, 34754), (333, 34658), (341, 34616), (345, 34598), (355, 34550), (358, 34538), (369, 34481), (370, 34475), (373, 34460), (376, 34433), (383, 34370), (384, 34364), (391, 34340), (418, 34235), (436, 34166), (441, 34148), (443, 34139), (447, 34118), (470, 34040), (477, 34004), (490, 33941),

Gene: BillNye_16 Start: 7225, Stop: 9171, Start Num: 65
Candidate Starts for BillNye_16:

(Start: 65 @7225 has 29 MA's), (90, 7366), (Start: 103 @7441 has 6 MA's), (105, 7450), (110, 7465), (112, 7477), (132, 7582), (147, 7633), (186, 7855), (204, 7888), (217, 7975), (235, 8068), (306, 8281), (339, 8434), (344, 8458), (355, 8497), (373, 8587), (389, 8707), (401, 8743), (421, 8845), (424, 8860), (476, 9052),

Gene: Bimmel_22 Start: 15990, Stop: 13993, Start Num: 53
Candidate Starts for Bimmel_22:
(Start: 53 @15990 has 4 MA's), (92, 15795), (111, 15690), (172, 15393), (182, 15315), (185, 15303), (188, 15294), (207, 15249), (216, 15186), (218, 15177), (249, 15060), (264, 15045), (287, 15015), (308, 14865), (331, 14754), (347, 14682), (358, 14631), (372, 14556), (402, 14397), (436, 14280), (450, 14220), (466, 14169), (487, 14058),

Gene: Birchlyn_42 Start: 17390, Stop: 19330, Start Num: 64
Candidate Starts for Birchlyn_42:
(Start: 64 @17390 has 81 MA's), (90, 17522), (96, 17558), (102, 17594), (110, 17621), (112, 17633), (132, 17738), (150, 17795), (188, 18020), (210, 18074), (221, 18158), (232, 18209), (239, 18248), (245, 18260), (293, 18338), (305, 18437), (314, 18473), (345, 18620), (379, 18794), (382, 18830), (400, 18899), (401, 18902), (439, 19073), (476, 19211),

Gene: Blackmoor_50 Start: 35450, Stop: 33417, Start Num: 48
Candidate Starts for Blackmoor_50:
(Start: 48 @35450 has 546 MA's), (68, 35387), (Start: 73 @35339 has 4 MA's), (78, 35315), (92, 35249), (Start: 97 @35213 has 1 MA's), (102, 35180), (114, 35132), (116, 35123), (125, 35066), (134, 35039), (141, 35006), (172, 34850), (173, 34841), (182, 34772), (207, 34700), (212, 34670), (213, 34667), (216, 34637), (217, 34631), (218, 34628), (236, 34541), (247, 34517), (251, 34511), (261, 34499), (269, 34490), (287, 34442), (320, 34241), (321, 34238), (341, 34136), (345, 34118), (373, 33977), (376, 33950), (407, 33806), (408, 33803), (416, 33773), (430, 33710), (441, 33677), (443, 33668), (447, 33647), (461, 33599), (477, 33533),

Gene: BlessJoy_54 Start: 35336, Stop: 33282, Start Num: 48
Candidate Starts for BlessJoy_54:
(Start: 48 @35336 has 546 MA's), (Start: 88 @35150 has 3 MA's), (Start: 97 @35099 has 1 MA's), (102, 35066), (114, 35018), (116, 35009), (125, 34949), (141, 34889), (155, 34832), (159, 34793), (168, 34760), (172, 34733), (173, 34724), (178, 34670), (182, 34655), (207, 34583), (212, 34553), (216, 34520), (217, 34514), (218, 34511), (236, 34424), (258, 34370), (278, 34337), (291, 34289), (298, 34247), (321, 34109), (343, 33995), (356, 33935), (358, 33926), (367, 33881), (370, 33863), (374, 33830), (393, 33728), (396, 33722), (408, 33668), (415, 33641), (418, 33629), (430, 33575), (447, 33512), (454, 33482), (463, 33455), (472, 33416),

Gene: Blinn1_56 Start: 34928, Stop: 32889, Start Num: 48
Candidate Starts for Blinn1_56:
(33, 34961), (Start: 48 @34928 has 546 MA's), (Start: 73 @34817 has 4 MA's), (74, 34814), (102, 34658), (114, 34610), (116, 34601), (125, 34541), (141, 34481), (158, 34388), (172, 34325), (173, 34316), (182, 34247), (207, 34175), (212, 34145), (213, 34142), (214, 34130), (216, 34112), (217, 34106), (218, 34103), (236, 34016), (242, 33992), (280, 33941), (291, 33896), (298, 33854), (318, 33737), (321, 33716), (343, 33602), (356, 33542), (358, 33533), (367, 33488), (370, 33470), (374, 33437), (385, 33356), (393, 33335), (396, 33329), (408, 33275), (410, 33272), (418, 33236), (430, 33182), (447, 33119), (454, 33089), (463, 33062),

Gene: Blue7_55 Start: 34980, Stop: 32926, Start Num: 48
Candidate Starts for Blue7_55:
(Start: 48 @34980 has 546 MA's), (Start: 88 @34794 has 3 MA's), (Start: 97 @34743 has 1 MA's), (102, 34710), (114, 34662), (116, 34653), (125, 34593), (141, 34533), (155, 34476), (159, 34437),

(168, 34404), (172, 34377), (173, 34368), (178, 34314), (182, 34299), (207, 34227), (212, 34197), (216, 34164), (217, 34158), (218, 34155), (236, 34068), (258, 34014), (278, 33981), (291, 33933), (298, 33891), (321, 33753), (343, 33639), (356, 33579), (358, 33570), (367, 33525), (370, 33507), (374, 33474), (393, 33372), (396, 33366), (408, 33312), (415, 33285), (418, 33273), (430, 33219), (447, 33156), (454, 33126), (463, 33099), (472, 33060),

Gene: BlueBird_53 Start: 35769, Stop: 33748, Start Num: 48
Candidate Starts for BlueBird_53:
(Start: 48 @35769 has 546 MA's), (74, 35655), (92, 35568), (Start: 97 @35532 has 1 MA's), (114, 35451), (116, 35442), (124, 35385), (141, 35322), (172, 35166), (182, 35088), (188, 35067), (190, 35064), (207, 35022), (212, 34992), (214, 34977), (216, 34959), (217, 34953), (218, 34950), (225, 34917), (287, 34785), (321, 34581), (327, 34545), (333, 34521), (341, 34479), (345, 34461), (369, 34341), (370, 34335), (373, 34320), (376, 34293), (403, 34155), (419, 34092), (443, 33999), (447, 33978), (471, 33897), (477, 33864),

Gene: BlueOtter_43 Start: 19641, Stop: 21584, Start Num: 64
Candidate Starts for BlueOtter_43:
(Start: 52 @19596 has 24 MA's), (Start: 55 @19605 has 103 MA's), (Start: 64 @19641 has 81 MA's), (Start: 67 @19647 has 1 MA's), (83, 19749), (86, 19770), (90, 19779), (93, 19791), (108, 19869), (110, 19878), (111, 19887), (112, 19890), (132, 19995), (156, 20094), (204, 20304), (239, 20505), (245, 20517), (314, 20730), (336, 20835), (345, 20877), (348, 20895), (379, 21051), (401, 21159), (439, 21330), (448, 21369), (476, 21468),

Gene: Blueeyedbeauty_22 Start: 8268, Stop: 10211, Start Num: 65
Candidate Starts for Blueeyedbeauty_22:
(62, 8259), (Start: 65 @8268 has 29 MA's), (Start: 73 @8325 has 4 MA's), (86, 8397), (90, 8406), (Start: 103 @8481 has 6 MA's), (110, 8505), (112, 8517), (132, 8622), (217, 9015), (242, 9135), (297, 9249), (324, 9402), (326, 9420), (328, 9429), (339, 9474), (344, 9498), (358, 9549), (379, 9675), (400, 9780), (401, 9783), (421, 9885), (434, 9936), (476, 10092), (480, 10116),

Gene: Bluefalcon_42 Start: 34735, Stop: 32606, Start Num: 48
Candidate Starts for Bluefalcon_42:
(Start: 48 @34735 has 546 MA's), (Start: 88 @34549 has 3 MA's), (Start: 97 @34498 has 1 MA's), (114, 34417), (116, 34408), (141, 34288), (148, 34273), (167, 34162), (168, 34159), (172, 34132), (173, 34123), (179, 34063), (182, 34054), (187, 34030), (207, 33943), (212, 33913), (213, 33910), (216, 33880), (217, 33874), (218, 33871), (242, 33760), (291, 33619), (319, 33457), (323, 33424), (334, 33376), (341, 33337), (355, 33268), (367, 33211), (369, 33199), (370, 33193), (376, 33151), (378, 33142), (385, 33079), (410, 32989), (416, 32962), (425, 32920), (436, 32884), (441, 32866), (491, 32647),

Gene: Bmoc_41 Start: 18692, Stop: 20635, Start Num: 64
Candidate Starts for Bmoc_41:
(Start: 64 @18692 has 81 MA's), (Start: 67 @18698 has 1 MA's), (83, 18800), (86, 18821), (90, 18830), (108, 18920), (110, 18929), (111, 18938), (112, 18941), (132, 19046), (188, 19328), (204, 19355), (221, 19466), (239, 19556), (245, 19568), (314, 19781), (345, 19928), (348, 19946), (379, 20102), (382, 20138), (401, 20210), (439, 20381), (448, 20420), (476, 20519),

Gene: BobSwaget_47 Start: 34545, Stop: 32503, Start Num: 48
Candidate Starts for BobSwaget_47:
(Start: 48 @34545 has 546 MA's), (Start: 73 @34434 has 4 MA's), (74, 34431), (Start: 88 @34359 has 3 MA's), (Start: 97 @34308 has 1 MA's), (102, 34275), (114, 34227), (116, 34218), (125, 34158), (141, 34098), (172, 33942), (173, 33933), (182, 33864), (197, 33828), (207, 33798), (212, 33768), (213, 33765), (214, 33753), (216, 33735), (217, 33729), (218, 33726), (243, 33618), (278, 33558), (280,

33555), (291, 33510), (298, 33468), (321, 33330), (341, 33228), (343, 33216), (356, 33156), (358, 33147), (370, 33084), (374, 33051), (387, 32958), (408, 32889), (415, 32862), (418, 32850), (419, 32847), (420, 32841), (430, 32796), (447, 32733), (461, 32685), (463, 32676),

Gene: BobbyDazzler_41 Start: 32120, Stop: 30075, Start Num: 46
Candidate Starts for BobbyDazzler_41:
(Start: 46 @32120 has 38 MA's), (74, 32000), (87, 31931), (Start: 97 @31877 has 1 MA's), (114, 31796), (116, 31787), (125, 31727), (156, 31607), (158, 31574), (159, 31571), (161, 31562), (167, 31541), (172, 31511), (178, 31448), (182, 31433), (184, 31427), (207, 31367), (213, 31334), (216, 31304), (217, 31298), (218, 31295), (259, 31160), (308, 30965), (312, 30947), (338, 30824), (340, 30815), (367, 30683), (376, 30623), (385, 30551), (398, 30512), (399, 30509), (402, 30497), (408, 30464), (418, 30425), (436, 30353), (443, 30326), (447, 30305), (470, 30227), (477, 30191),

Gene: BogosyJay_50 Start: 35495, Stop: 33456, Start Num: 48
Candidate Starts for BogosyJay_50:
(Start: 48 @35495 has 546 MA's), (Start: 73 @35381 has 4 MA's), (75, 35366), (78, 35357), (102, 35222), (116, 35165), (125, 35105), (141, 35045), (171, 34898), (172, 34889), (182, 34811), (185, 34799), (207, 34745), (212, 34715), (214, 34700), (216, 34682), (217, 34676), (218, 34673), (272, 34535), (280, 34508), (291, 34463), (321, 34283), (341, 34181), (356, 34109), (374, 34004), (376, 33995), (408, 33842), (418, 33803), (426, 33767), (447, 33686),

Gene: Bombshell_50 Start: 35445, Stop: 33412, Start Num: 48
Candidate Starts for Bombshell_50:
(Start: 48 @35445 has 546 MA's), (68, 35382), (Start: 73 @35334 has 4 MA's), (78, 35310), (92, 35244), (Start: 97 @35208 has 1 MA's), (102, 35175), (114, 35127), (116, 35118), (125, 35061), (134, 35034), (141, 35001), (172, 34845), (173, 34836), (182, 34767), (207, 34695), (212, 34665), (213, 34662), (216, 34632), (217, 34626), (218, 34623), (236, 34536), (251, 34506), (261, 34494), (269, 34485), (287, 34437), (321, 34233), (341, 34131), (345, 34113), (373, 33972), (376, 33945), (407, 33801), (408, 33798), (416, 33768), (430, 33705), (441, 33672), (443, 33663), (447, 33642), (461, 33594), (477, 33528),

Gene: Bonamassa_44 Start: 34759, Stop: 32630, Start Num: 48
Candidate Starts for Bonamassa_44:
(Start: 48 @34759 has 546 MA's), (Start: 88 @34573 has 3 MA's), (Start: 97 @34522 has 1 MA's), (114, 34441), (116, 34432), (141, 34312), (148, 34297), (167, 34186), (168, 34183), (172, 34156), (173, 34147), (179, 34087), (182, 34078), (187, 34054), (207, 33967), (212, 33937), (213, 33934), (216, 33904), (217, 33898), (218, 33895), (242, 33784), (291, 33643), (319, 33481), (323, 33448), (334, 33400), (341, 33361), (355, 33292), (367, 33235), (369, 33223), (370, 33217), (376, 33175), (378, 33166), (385, 33103), (410, 33013), (416, 32986), (436, 32908), (441, 32890), (443, 32881), (491, 32671),

Gene: Bonanza_41 Start: 32048, Stop: 30003, Start Num: 46
Candidate Starts for Bonanza_41:
(Start: 46 @32048 has 38 MA's), (74, 31928), (87, 31859), (Start: 97 @31805 has 1 MA's), (114, 31724), (116, 31715), (125, 31655), (156, 31535), (158, 31502), (159, 31499), (161, 31490), (167, 31469), (171, 31448), (172, 31439), (178, 31376), (182, 31361), (184, 31355), (207, 31295), (213, 31262), (216, 31232), (217, 31226), (218, 31223), (259, 31088), (308, 30893), (312, 30875), (338, 30752), (340, 30743), (367, 30611), (376, 30551), (385, 30479), (398, 30440), (399, 30437), (402, 30425), (408, 30392), (418, 30353), (436, 30281), (443, 30254), (447, 30233), (451, 30215), (470, 30155), (477, 30119),

Gene: Boohoo_56 Start: 34919, Stop: 32856, Start Num: 42
Candidate Starts for Boohoo_56:

(Start: 42 @34919 has 25 MA's), (87, 34724), (Start: 88 @34721 has 3 MA's), (114, 34589), (116, 34580), (141, 34460), (173, 34295), (177, 34256), (182, 34226), (199, 34184), (207, 34160), (212, 34130), (216, 34097), (217, 34091), (218, 34088), (278, 33914), (283, 33902), (291, 33866), (320, 33689), (321, 33686), (327, 33650), (341, 33584), (349, 33545), (351, 33533), (369, 33446), (370, 33440), (376, 33398), (426, 33167), (447, 33086), (464, 33026), (470, 33008), (488, 32915), (491, 32897),

Gene: BoomerJR_45 Start: 19366, Stop: 21306, Start Num: 64
Candidate Starts for BoomerJR_45:
(Start: 64 @19366 has 81 MA's), (90, 19498), (96, 19534), (101, 19558), (102, 19570), (110, 19597), (112, 19609), (132, 19714), (135, 19729), (143, 19756), (211, 20068), (215, 20101), (221, 20134), (232, 20185), (234, 20200), (239, 20224), (245, 20236), (293, 20314), (305, 20413), (313, 20446), (314, 20449), (339, 20569), (345, 20596), (348, 20614), (379, 20770), (400, 20875), (401, 20878), (439, 21049), (448, 21088), (476, 21187),

Gene: Bordeaux_43 Start: 19662, Stop: 21602, Start Num: 64
Candidate Starts for Bordeaux_43:
(Start: 64 @19662 has 81 MA's), (90, 19794), (96, 19830), (102, 19866), (110, 19893), (112, 19905), (132, 20010), (150, 20067), (188, 20292), (210, 20346), (221, 20430), (232, 20481), (239, 20520), (245, 20532), (293, 20610), (305, 20709), (314, 20745), (345, 20892), (379, 21066), (382, 21102), (400, 21171), (401, 21174), (439, 21345), (476, 21483),

Gene: Bovely_47 Start: 31670, Stop: 33760, Start Num: 48
Candidate Starts for Bovely_47:
(Start: 48 @31670 has 546 MA's), (78, 31811), (79, 31826), (Start: 88 @31880 has 3 MA's), (90, 31886), (Start: 97 @31931 has 1 MA's), (114, 32012), (116, 32021), (131, 32099), (134, 32108), (141, 32141), (158, 32234), (163, 32258), (172, 32300), (182, 32378), (183, 32381), (207, 32468), (216, 32531), (218, 32540), (283, 32705), (287, 32717), (305, 32849), (309, 32876), (321, 32927), (323, 32942), (327, 32963), (341, 33029), (370, 33173), (371, 33179), (373, 33188), (378, 33224), (382, 33272), (384, 33284), (395, 33311), (398, 33323), (407, 33377), (420, 33428), (426, 33449), (436, 33482), (441, 33500), (447, 33530), (450, 33542), (457, 33569), (473, 33629), (486, 33698), (488, 33701), (495, 33752),

Gene: Bowden_47 Start: 33075, Stop: 35189, Start Num: 48
Candidate Starts for Bowden_47:
(Start: 21 @33003 has 1 MA's), (34, 33039), (Start: 48 @33075 has 546 MA's), (Start: 88 @33276 has 3 MA's), (Start: 97 @33327 has 1 MA's), (114, 33408), (116, 33417), (134, 33504), (136, 33516), (141, 33537), (163, 33654), (172, 33696), (173, 33705), (182, 33774), (207, 33882), (216, 33945), (277, 34119), (287, 34146), (321, 34356), (327, 34392), (335, 34419), (337, 34437), (341, 34458), (370, 34602), (371, 34608), (373, 34617), (378, 34653), (384, 34713), (395, 34740), (398, 34752), (402, 34770), (407, 34806), (410, 34812), (436, 34911), (441, 34929), (447, 34959), (450, 34971), (467, 35025), (473, 35058), (486, 35127), (495, 35181),

Gene: Bowtie_52 Start: 35314, Stop: 33290, Start Num: 52
Candidate Starts for Bowtie_52:
(28, 35365), (43, 35332), (Start: 52 @35314 has 24 MA's), (Start: 73 @35206 has 4 MA's), (Start: 88 @35131 has 3 MA's), (114, 34999), (116, 34990), (141, 34870), (172, 34714), (177, 34666), (181, 34639), (182, 34636), (185, 34624), (201, 34591), (207, 34570), (214, 34525), (216, 34507), (217, 34501), (218, 34498), (278, 34348), (291, 34300), (294, 34285), (321, 34120), (341, 34018), (345, 34000), (360, 33928), (370, 33874), (373, 33859), (374, 33841), (391, 33742), (408, 33679), (418, 33640), (441, 33550), (447, 33520), (461, 33472),

Gene: Bradman_50 Start: 34610, Stop: 32664, Start Num: 71

Candidate Starts for Bradman_50:
(Start: 48 @34712 has 546 MA's), (Start: 71 @34610 has 1 MA's), (Start: 73 @34601 has 4 MA's), (Start: 88 @34526 has 3 MA's), (114, 34394), (116, 34385), (126, 34322), (141, 34265), (171, 34118), (172, 34109), (177, 34061), (178, 34046), (182, 34031), (207, 33965), (212, 33935), (213, 33932), (214, 33920), (216, 33902), (217, 33896), (218, 33893), (271, 33740), (278, 33713), (291, 33665), (298, 33623), (321, 33485), (327, 33449), (338, 33398), (343, 33371), (356, 33311), (358, 33302), (370, 33239), (374, 33206), (376, 33197), (386, 33116), (408, 33044), (415, 33017), (430, 32957), (447, 32894),

Gene: Bradshaw_41 Start: 32074, Stop: 30029, Start Num: 46
Candidate Starts for Bradshaw_41:
(Start: 46 @32074 has 38 MA's), (74, 31954), (87, 31885), (Start: 97 @31831 has 1 MA's), (114, 31750), (116, 31741), (125, 31681), (131, 31663), (156, 31561), (158, 31528), (159, 31525), (161, 31516), (167, 31495), (171, 31474), (172, 31465), (178, 31402), (182, 31387), (184, 31381), (207, 31321), (213, 31288), (216, 31258), (217, 31252), (218, 31249), (259, 31114), (312, 30901), (320, 30868), (338, 30778), (340, 30769), (367, 30637), (376, 30577), (385, 30505), (398, 30466), (399, 30463), (402, 30451), (418, 30379), (436, 30307), (443, 30280), (477, 30145),

Gene: Braelyn_41 Start: 18563, Stop: 20506, Start Num: 64
Candidate Starts for Braelyn_41:
(Start: 64 @18563 has 81 MA's), (Start: 67 @18569 has 1 MA's), (83, 18671), (86, 18692), (90, 18701), (108, 18791), (110, 18800), (111, 18809), (112, 18812), (132, 18917), (204, 19226), (221, 19337), (239, 19427), (245, 19439), (314, 19652), (345, 19799), (362, 19862), (379, 19973), (401, 20081), (439, 20252), (448, 20291), (476, 20390),

Gene: Brataylor_50 Start: 32949, Stop: 35039, Start Num: 48
Candidate Starts for Brataylor_50:
(31, 32907), (Start: 48 @32949 has 546 MA's), (Start: 61 @32994 has 1 MA's), (79, 33105), (Start: 88 @33159 has 3 MA's), (90, 33165), (Start: 97 @33210 has 1 MA's), (114, 33291), (116, 33300), (131, 33378), (134, 33387), (141, 33420), (156, 33480), (158, 33513), (163, 33537), (172, 33579), (182, 33657), (183, 33660), (200, 33717), (207, 33747), (216, 33810), (218, 33819), (229, 33870), (248, 33939), (283, 33984), (287, 33996), (318, 34185), (321, 34206), (327, 34242), (338, 34293), (346, 34329), (358, 34389), (361, 34401), (370, 34452), (371, 34458), (378, 34503), (384, 34563), (395, 34590), (398, 34602), (399, 34605), (407, 34656), (410, 34662), (420, 34707), (425, 34725), (426, 34728), (436, 34761), (441, 34779), (447, 34809), (450, 34821), (457, 34848), (473, 34908), (488, 34980), (495, 35031),

Gene: BreSam8_54 Start: 35900, Stop: 33882, Start Num: 55
Candidate Starts for BreSam8_54:
(Start: 55 @35900 has 103 MA's), (Start: 71 @35807 has 1 MA's), (Start: 73 @35798 has 4 MA's), (78, 35774), (Start: 88 @35723 has 3 MA's), (Start: 97 @35672 has 1 MA's), (114, 35591), (116, 35582), (141, 35462), (156, 35402), (159, 35366), (172, 35306), (182, 35228), (207, 35156), (212, 35126), (216, 35093), (217, 35087), (218, 35084), (234, 35003), (242, 34973), (287, 34919), (312, 34748), (333, 34652), (341, 34610), (345, 34592), (355, 34544), (358, 34532), (369, 34475), (370, 34469), (373, 34454), (376, 34427), (383, 34364), (384, 34358), (391, 34334), (418, 34229), (436, 34160), (441, 34142), (443, 34133), (447, 34112), (470, 34034), (477, 33998), (490, 33935),

Gene: Brizzy_44 Start: 19183, Stop: 21123, Start Num: 64
Candidate Starts for Brizzy_44:
(Start: 64 @19183 has 81 MA's), (90, 19315), (96, 19351), (102, 19387), (110, 19414), (112, 19426), (132, 19531), (150, 19588), (188, 19813), (221, 19951), (232, 20002), (239, 20041), (245, 20053), (293, 20131), (305, 20230), (314, 20266), (345, 20413), (379, 20587), (400, 20692), (401, 20695), (439, 20866), (476, 21004),

Gene: BroPlease_47 Start: 31715, Stop: 33784, Start Num: 48
Candidate Starts for BroPlease_47:
(Start: 48 @31715 has 546 MA's), (Start: 88 @31922 has 3 MA's), (Start: 97 @31973 has 1 MA's), (116, 32066), (134, 32153), (136, 32165), (141, 32186), (159, 32282), (163, 32303), (182, 32423), (183, 32426), (189, 32456), (207, 32495), (214, 32540), (216, 32558), (233, 32642), (278, 32720), (287, 32744), (302, 32864), (305, 32876), (315, 32924), (321, 32954), (327, 32990), (335, 33017), (373, 33215), (376, 33242), (384, 33311), (398, 33350), (410, 33410), (420, 33455), (441, 33527), (451, 33575), (473, 33653), (486, 33722), (495, 33776),

Gene: Broseidon_50 Start: 35450, Stop: 33417, Start Num: 48
Candidate Starts for Broseidon_50:
(Start: 48 @35450 has 546 MA's), (68, 35387), (Start: 73 @35339 has 4 MA's), (78, 35315), (92, 35249), (Start: 97 @35213 has 1 MA's), (102, 35180), (114, 35132), (116, 35123), (125, 35066), (134, 35039), (141, 35006), (172, 34850), (173, 34841), (182, 34772), (207, 34700), (212, 34670), (213, 34667), (216, 34637), (217, 34631), (218, 34628), (236, 34541), (247, 34517), (251, 34511), (261, 34499), (269, 34490), (287, 34442), (321, 34238), (341, 34136), (345, 34118), (373, 33977), (376, 33950), (407, 33806), (408, 33803), (416, 33773), (430, 33710), (441, 33677), (443, 33668), (447, 33647), (461, 33599), (477, 33533),

Gene: Bruiser_49 Start: 35448, Stop: 33415, Start Num: 48
Candidate Starts for Bruiser_49:
(Start: 48 @35448 has 546 MA's), (68, 35385), (Start: 73 @35337 has 4 MA's), (78, 35313), (92, 35247), (Start: 97 @35211 has 1 MA's), (102, 35178), (114, 35130), (116, 35121), (125, 35064), (134, 35037), (141, 35004), (172, 34848), (173, 34839), (182, 34770), (207, 34698), (212, 34668), (213, 34665), (216, 34635), (217, 34629), (218, 34626), (236, 34539), (251, 34509), (261, 34497), (269, 34488), (287, 34440), (321, 34236), (341, 34134), (345, 34116), (373, 33975), (376, 33948), (407, 33804), (408, 33801), (416, 33771), (430, 33708), (441, 33675), (443, 33666), (447, 33645), (461, 33597), (477, 33531),

Gene: BryanRecycles_48 Start: 31960, Stop: 34050, Start Num: 48
Candidate Starts for BryanRecycles_48:
(15, 31876), (17, 31882), (31, 31918), (34, 31924), (Start: 48 @31960 has 546 MA's), (78, 32101), (79, 32116), (82, 32137), (Start: 88 @32170 has 3 MA's), (90, 32176), (Start: 97 @32221 has 1 MA's), (114, 32302), (116, 32311), (131, 32389), (134, 32398), (141, 32431), (158, 32524), (163, 32548), (172, 32590), (182, 32668), (183, 32671), (207, 32758), (216, 32821), (218, 32830), (283, 32995), (287, 33007), (309, 33166), (321, 33217), (323, 33232), (327, 33253), (341, 33319), (370, 33463), (371, 33469), (373, 33478), (378, 33514), (382, 33562), (384, 33574), (395, 33601), (398, 33613), (407, 33667), (420, 33718), (426, 33739), (436, 33772), (441, 33790), (447, 33820), (450, 33832), (457, 33859), (473, 33919), (486, 33988), (488, 33991), (495, 34042),

Gene: Bryce_40 Start: 31828, Stop: 29783, Start Num: 46
Candidate Starts for Bryce_40:
(Start: 46 @31828 has 38 MA's), (74, 31708), (87, 31639), (Start: 97 @31585 has 1 MA's), (114, 31504), (116, 31495), (156, 31315), (158, 31282), (159, 31279), (161, 31270), (167, 31249), (172, 31219), (178, 31156), (182, 31141), (184, 31135), (207, 31075), (213, 31042), (216, 31012), (217, 31006), (218, 31003), (259, 30868), (308, 30673), (312, 30655), (320, 30622), (338, 30532), (340, 30523), (367, 30391), (376, 30331), (385, 30259), (398, 30220), (399, 30217), (402, 30205), (408, 30172), (418, 30133), (436, 30061), (443, 30034), (447, 30013), (451, 29995), (470, 29935), (477, 29899),

Gene: BubbleTrouble_49 Start: 35448, Stop: 33415, Start Num: 48
Candidate Starts for BubbleTrouble_49:

(Start: 48 @35448 has 546 MA's), (68, 35385), (Start: 73 @35337 has 4 MA's), (78, 35313), (92, 35247), (Start: 97 @35211 has 1 MA's), (102, 35178), (114, 35130), (116, 35121), (125, 35064), (134, 35037), (141, 35004), (172, 34848), (173, 34839), (182, 34770), (207, 34698), (212, 34668), (213, 34665), (216, 34635), (217, 34629), (218, 34626), (236, 34539), (251, 34509), (261, 34497), (269, 34488), (287, 34440), (321, 34236), (341, 34134), (345, 34116), (373, 33975), (376, 33948), (407, 33804), (408, 33801), (416, 33771), (430, 33708), (441, 33675), (443, 33666), (447, 33645), (461, 33597), (477, 33531),

Gene: Buckaroo_49 Start: 35452, Stop: 33419, Start Num: 48
Candidate Starts for Buckaroo_49:
(Start: 48 @35452 has 546 MA's), (68, 35389), (Start: 73 @35341 has 4 MA's), (78, 35317), (92, 35251), (Start: 97 @35215 has 1 MA's), (102, 35182), (114, 35134), (116, 35125), (125, 35068), (134, 35041), (141, 35008), (172, 34852), (173, 34843), (182, 34774), (207, 34702), (212, 34672), (213, 34669), (216, 34639), (217, 34633), (218, 34630), (236, 34543), (251, 34513), (261, 34501), (269, 34492), (287, 34444), (321, 34240), (341, 34138), (345, 34120), (373, 33979), (376, 33952), (407, 33808), (408, 33805), (416, 33775), (430, 33712), (441, 33679), (443, 33670), (447, 33649), (461, 33601), (477, 33535),

Gene: Bud_51 Start: 34861, Stop: 32840, Start Num: 52
Candidate Starts for Bud_51:
(28, 34912), (43, 34879), (Start: 52 @34861 has 24 MA's), (Start: 73 @34753 has 4 MA's), (Start: 88 @34678 has 3 MA's), (114, 34546), (116, 34537), (141, 34417), (172, 34261), (177, 34213), (181, 34186), (182, 34183), (185, 34171), (201, 34138), (207, 34117), (214, 34072), (216, 34054), (217, 34048), (218, 34045), (257, 33925), (291, 33850), (294, 33835), (298, 33808), (321, 33670), (333, 33610), (341, 33568), (345, 33550), (360, 33478), (370, 33424), (373, 33409), (374, 33391), (391, 33292), (408, 33229), (418, 33190), (441, 33100), (447, 33070), (461, 33022),

Gene: Bugatti_53 Start: 35769, Stop: 33748, Start Num: 48
Candidate Starts for Bugatti_53:
(Start: 48 @35769 has 546 MA's), (74, 35655), (92, 35568), (Start: 97 @35532 has 1 MA's), (114, 35451), (116, 35442), (124, 35385), (141, 35322), (172, 35166), (182, 35088), (188, 35067), (190, 35064), (207, 35022), (212, 34992), (214, 34977), (216, 34959), (217, 34953), (218, 34950), (225, 34917), (287, 34785), (321, 34581), (327, 34545), (333, 34521), (341, 34479), (345, 34461), (369, 34341), (370, 34335), (373, 34320), (376, 34293), (403, 34155), (419, 34092), (443, 33999), (447, 33978), (471, 33897), (477, 33864),

Gene: Bugsy_53 Start: 36246, Stop: 34207, Start Num: 48
Candidate Starts for Bugsy_53:
(Start: 48 @36246 has 546 MA's), (Start: 97 @36006 has 1 MA's), (116, 35916), (141, 35796), (172, 35640), (182, 35562), (207, 35490), (212, 35460), (213, 35457), (214, 35445), (216, 35427), (217, 35421), (218, 35418), (280, 35259), (291, 35214), (298, 35172), (321, 35034), (327, 34998), (341, 34932), (343, 34920), (356, 34860), (367, 34806), (370, 34788), (378, 34737), (391, 34656), (396, 34647), (408, 34593), (416, 34563), (418, 34554), (430, 34500), (447, 34437), (461, 34389), (463, 34380),

Gene: Bumblebee11_48 Start: 35409, Stop: 33391, Start Num: 48
Candidate Starts for Bumblebee11_48:
(Start: 48 @35409 has 546 MA's), (Start: 73 @35298 has 4 MA's), (92, 35208), (Start: 97 @35172 has 1 MA's), (102, 35139), (114, 35091), (116, 35082), (125, 35022), (141, 34962), (172, 34806), (173, 34797), (182, 34728), (185, 34716), (205, 34665), (207, 34656), (212, 34626), (213, 34623), (216, 34593), (217, 34587), (218, 34584), (255, 34464), (278, 34440), (287, 34416), (321, 34212), (341, 34110), (345, 34092), (355, 34041), (369, 33972), (373, 33951), (376, 33924), (407, 33780), (408, 33777), (416, 33747), (426, 33702), (441, 33651), (443, 33642), (447, 33621), (477, 33507), (488,

33450),

Gene: Burger_48 Start: 35448, Stop: 33415, Start Num: 48
Candidate Starts for Burger_48:
(Start: 48 @35448 has 546 MA's), (68, 35385), (Start: 73 @35337 has 4 MA's), (78, 35313), (92, 35247), (Start: 97 @35211 has 1 MA's), (102, 35178), (114, 35130), (116, 35121), (125, 35064), (134, 35037), (141, 35004), (172, 34848), (173, 34839), (182, 34770), (207, 34698), (212, 34668), (213, 34665), (216, 34635), (217, 34629), (218, 34626), (236, 34539), (251, 34509), (261, 34497), (269, 34488), (287, 34440), (321, 34236), (341, 34134), (345, 34116), (373, 33975), (376, 33948), (407, 33804), (408, 33801), (416, 33771), (430, 33708), (441, 33675), (443, 33666), (447, 33645), (461, 33597), (477, 33531),

Gene: BuzzBuzz_52 Start: 35934, Stop: 33916, Start Num: 55
Candidate Starts for BuzzBuzz_52:
(Start: 55 @35934 has 103 MA's), (Start: 71 @35841 has 1 MA's), (Start: 73 @35832 has 4 MA's), (78, 35808), (Start: 88 @35757 has 3 MA's), (Start: 97 @35706 has 1 MA's), (114, 35625), (116, 35616), (141, 35499), (159, 35403), (172, 35343), (179, 35274), (182, 35265), (183, 35262), (185, 35253), (207, 35193), (212, 35163), (213, 35160), (214, 35148), (216, 35130), (217, 35124), (218, 35121), (239, 35016), (242, 35010), (287, 34953), (321, 34749), (323, 34734), (327, 34713), (333, 34689), (338, 34662), (341, 34647), (369, 34509), (370, 34503), (373, 34488), (376, 34461), (383, 34398), (384, 34392), (391, 34368), (418, 34263), (426, 34227), (447, 34146), (470, 34068), (477, 34032), (490, 33969),

Gene: Bxz2_50 Start: 35941, Stop: 33923, Start Num: 55
Candidate Starts for Bxz2_50:
(Start: 55 @35941 has 103 MA's), (Start: 71 @35848 has 1 MA's), (Start: 73 @35839 has 4 MA's), (78, 35815), (Start: 88 @35764 has 3 MA's), (Start: 97 @35713 has 1 MA's), (114, 35632), (116, 35623), (141, 35506), (159, 35410), (172, 35350), (179, 35281), (182, 35272), (183, 35269), (185, 35260), (207, 35200), (212, 35170), (213, 35167), (214, 35155), (216, 35137), (217, 35131), (218, 35128), (239, 35023), (242, 35017), (287, 34960), (321, 34756), (323, 34741), (327, 34720), (333, 34696), (338, 34669), (341, 34654), (369, 34516), (370, 34510), (373, 34495), (376, 34468), (383, 34405), (384, 34399), (391, 34375), (418, 34270), (426, 34234), (447, 34153), (470, 34075), (477, 34039), (490, 33976),

Gene: C3_49 Start: 35980, Stop: 33899, Start Num: 48
Candidate Starts for C3_49:
(Start: 48 @35980 has 546 MA's), (78, 35842), (102, 35707), (114, 35659), (116, 35650), (125, 35590), (149, 35512), (155, 35473), (158, 35437), (172, 35374), (178, 35311), (182, 35296), (207, 35200), (212, 35170), (213, 35167), (216, 35137), (217, 35131), (218, 35128), (236, 35041), (278, 34966), (291, 34918), (294, 34903), (321, 34738), (341, 34636), (343, 34624), (356, 34564), (358, 34555), (367, 34510), (369, 34498), (373, 34477), (376, 34450), (408, 34285), (415, 34258), (418, 34246), (426, 34210), (447, 34129),

Gene: CRB1_55 Start: 36607, Stop: 34571, Start Num: 48
Candidate Starts for CRB1_55:
(Start: 48 @36607 has 546 MA's), (Start: 71 @36502 has 1 MA's), (Start: 73 @36493 has 4 MA's), (74, 36490), (78, 36469), (Start: 88 @36418 has 3 MA's), (Start: 97 @36367 has 1 MA's), (116, 36277), (124, 36220), (125, 36217), (141, 36157), (172, 36001), (173, 35992), (182, 35923), (197, 35887), (207, 35857), (212, 35827), (213, 35824), (214, 35812), (216, 35794), (217, 35788), (218, 35785), (280, 35623), (291, 35578), (298, 35536), (321, 35398), (327, 35362), (341, 35296), (343, 35284), (356, 35224), (367, 35170), (370, 35152), (393, 35020), (397, 35011), (402, 34990), (408, 34957), (418, 34918), (419, 34915), (425, 34885), (430, 34864), (432, 34858), (447, 34801), (461, 34753), (463, 34744),

Gene: Cadmus_41 Start: 19159, Stop: 21102, Start Num: 64
Candidate Starts for Cadmus_41:
(Start: 38 @19081 has 1 MA's), (Start: 64 @19159 has 81 MA's), (Start: 67 @19165 has 1 MA's), (83, 19267), (86, 19288), (90, 19297), (108, 19387), (110, 19396), (111, 19405), (112, 19408), (132, 19513), (169, 19681), (204, 19822), (221, 19933), (239, 20023), (245, 20035), (345, 20395), (377, 20551), (379, 20569), (382, 20605), (401, 20677), (448, 20887), (476, 20986), (490, 21058),

Gene: Caelakin_50 Start: 35448, Stop: 33415, Start Num: 48
Candidate Starts for Caelakin_50:
(Start: 48 @35448 has 546 MA's), (68, 35385), (Start: 73 @35337 has 4 MA's), (78, 35313), (92, 35247), (Start: 97 @35211 has 1 MA's), (102, 35178), (114, 35130), (116, 35121), (125, 35064), (134, 35037), (141, 35004), (172, 34848), (173, 34839), (182, 34770), (207, 34698), (212, 34668), (213, 34665), (216, 34635), (217, 34629), (218, 34626), (236, 34539), (251, 34509), (261, 34497), (269, 34488), (287, 34440), (321, 34236), (341, 34134), (345, 34116), (373, 33975), (376, 33948), (407, 33804), (408, 33801), (416, 33771), (430, 33708), (441, 33675), (443, 33666), (447, 33645), (461, 33597), (477, 33531),

Gene: Caelum_49 Start: 32725, Stop: 34800, Start Num: 48
Candidate Starts for Caelum_49:
(Start: 48 @32725 has 546 MA's), (79, 32881), (Start: 88 @32935 has 3 MA's), (Start: 97 @32986 has 1 MA's), (114, 33067), (116, 33076), (133, 33160), (134, 33163), (136, 33175), (141, 33196), (163, 33313), (168, 33328), (171, 33346), (172, 33355), (173, 33364), (182, 33433), (207, 33508), (209, 33514), (212, 33538), (213, 33541), (216, 33571), (283, 33745), (287, 33757), (307, 33895), (327, 34003), (335, 34030), (341, 34069), (370, 34213), (371, 34219), (373, 34228), (378, 34264), (382, 34312), (384, 34324), (395, 34351), (398, 34363), (402, 34381), (407, 34417), (410, 34423), (418, 34459), (426, 34489), (436, 34522), (441, 34540), (473, 34669), (486, 34738), (495, 34792),

Gene: Caitlin_47 Start: 33961, Stop: 31916, Start Num: 48
Candidate Starts for Caitlin_47:
(Start: 48 @33961 has 546 MA's), (75, 33835), (87, 33778), (Start: 88 @33775 has 3 MA's), (Start: 97 @33724 has 1 MA's), (102, 33691), (114, 33643), (116, 33634), (121, 33592), (149, 33496), (155, 33457), (160, 33412), (171, 33367), (172, 33358), (178, 33295), (179, 33289), (182, 33280), (183, 33277), (207, 33208), (212, 33178), (213, 33175), (216, 33145), (217, 33139), (218, 33136), (291, 32938), (321, 32755), (327, 32719), (341, 32653), (363, 32554), (376, 32467), (378, 32458), (392, 32374), (416, 32272), (426, 32227), (443, 32167), (447, 32146), (451, 32128), (491, 31957),

Gene: Caliburn_46 Start: 31771, Stop: 33861, Start Num: 48
Candidate Starts for Caliburn_46:
(Start: 48 @31771 has 546 MA's), (78, 31912), (79, 31927), (82, 31948), (Start: 88 @31981 has 3 MA's), (90, 31987), (Start: 97 @32032 has 1 MA's), (114, 32113), (116, 32122), (131, 32200), (134, 32209), (141, 32242), (158, 32335), (163, 32359), (172, 32401), (182, 32479), (183, 32482), (207, 32569), (216, 32632), (218, 32641), (283, 32806), (287, 32818), (305, 32950), (309, 32977), (321, 33028), (323, 33043), (327, 33064), (341, 33130), (370, 33274), (371, 33280), (373, 33289), (378, 33325), (382, 33373), (384, 33385), (395, 33412), (398, 33424), (407, 33478), (420, 33529), (426, 33550), (436, 33583), (441, 33601), (447, 33631), (450, 33643), (457, 33670), (473, 33730), (486, 33799), (488, 33802), (495, 33853),

Gene: Calvinny_54 Start: 35796, Stop: 33781, Start Num: 55
Candidate Starts for Calvinny_54:
(Start: 55 @35796 has 103 MA's), (Start: 71 @35703 has 1 MA's), (Start: 73 @35694 has 4 MA's), (Start: 88 @35619 has 3 MA's), (Start: 97 @35568 has 1 MA's), (114, 35487), (116, 35478), (125, 35421), (141, 35361), (156, 35301), (159, 35265), (172, 35205), (173, 35196), (182, 35127), (185,

35115), (207, 35055), (212, 35025), (213, 35022), (214, 35010), (216, 34992), (217, 34986), (218, 34983), (225, 34950), (261, 34848), (287, 34818), (312, 34647), (320, 34614), (323, 34596), (327, 34575), (333, 34551), (341, 34509), (345, 34491), (355, 34443), (370, 34368), (376, 34326), (383, 34263), (384, 34257), (391, 34233), (418, 34128), (436, 34059), (441, 34041), (443, 34032), (447, 34011), (470, 33933), (477, 33897), (490, 33834),

Gene: Camperdownii_48 Start: 35122, Stop: 33089, Start Num: 48
Candidate Starts for Camperdownii_48:
(Start: 48 @35122 has 546 MA's), (68, 35059), (Start: 73 @35011 has 4 MA's), (78, 34987), (92, 34921), (Start: 97 @34885 has 1 MA's), (102, 34852), (114, 34804), (116, 34795), (125, 34738), (134, 34711), (141, 34678), (172, 34522), (173, 34513), (182, 34444), (207, 34372), (212, 34342), (213, 34339), (216, 34309), (217, 34303), (218, 34300), (236, 34213), (251, 34183), (261, 34171), (269, 34162), (287, 34114), (321, 33910), (341, 33808), (345, 33790), (373, 33649), (376, 33622), (407, 33478), (408, 33475), (416, 33445), (430, 33382), (441, 33349), (443, 33340), (447, 33319), (461, 33271), (477, 33205),

Gene: Candra_54 Start: 34850, Stop: 32826, Start Num: 48
Candidate Starts for Candra_54:
(33, 34883), (Start: 48 @34850 has 546 MA's), (Start: 88 @34664 has 3 MA's), (102, 34580), (114, 34532), (116, 34523), (125, 34463), (141, 34403), (155, 34346), (159, 34307), (168, 34274), (172, 34247), (173, 34238), (178, 34184), (182, 34169), (207, 34097), (212, 34067), (216, 34034), (217, 34028), (218, 34025), (291, 33833), (318, 33674), (321, 33653), (343, 33539), (356, 33479), (358, 33470), (367, 33425), (370, 33407), (374, 33374), (393, 33272), (396, 33266), (408, 33212), (415, 33185), (416, 33182), (418, 33173), (430, 33119), (447, 33056), (454, 33026), (463, 32999),

Gene: Caraxes_50 Start: 34388, Stop: 32370, Start Num: 48
Candidate Starts for Caraxes_50:
(Start: 48 @34388 has 546 MA's), (Start: 71 @34286 has 1 MA's), (Start: 73 @34277 has 4 MA's), (Start: 88 @34202 has 3 MA's), (102, 34118), (114, 34070), (116, 34061), (125, 34001), (141, 33941), (160, 33839), (172, 33785), (177, 33737), (182, 33707), (206, 33650), (207, 33641), (212, 33611), (213, 33608), (214, 33596), (216, 33578), (217, 33572), (218, 33569), (283, 33413), (291, 33377), (294, 33362), (308, 33251), (321, 33197), (327, 33161), (333, 33137), (338, 33110), (341, 33095), (356, 33023), (358, 33014), (370, 32951), (374, 32918), (376, 32909), (386, 32828), (418, 32717), (420, 32708), (432, 32657), (467, 32534),

Gene: Cat_49 Start: 35323, Stop: 33263, Start Num: 48
Candidate Starts for Cat_49:
(Start: 48 @35323 has 546 MA's), (Start: 73 @35215 has 4 MA's), (92, 35125), (Start: 97 @35089 has 1 MA's), (102, 35056), (114, 35008), (116, 34999), (141, 34882), (159, 34786), (172, 34726), (182, 34648), (207, 34576), (212, 34546), (213, 34543), (214, 34531), (216, 34513), (217, 34507), (218, 34504), (234, 34423), (287, 34300), (288, 34297), (321, 34096), (333, 34036), (341, 33994), (345, 33976), (369, 33856), (370, 33850), (373, 33835), (376, 33808), (385, 33736), (403, 33670), (419, 33607), (443, 33514), (447, 33493), (477, 33379),

Gene: Catalina_52 Start: 35671, Stop: 33632, Start Num: 48
Candidate Starts for Catalina_52:
(Start: 48 @35671 has 546 MA's), (Start: 73 @35557 has 4 MA's), (75, 35542), (78, 35533), (Start: 97 @35431 has 1 MA's), (116, 35341), (125, 35281), (141, 35221), (171, 35074), (172, 35065), (182, 34987), (185, 34975), (206, 34930), (207, 34921), (212, 34891), (214, 34876), (216, 34858), (217, 34852), (218, 34849), (280, 34684), (288, 34660), (291, 34639), (321, 34459), (343, 34345), (356, 34285), (374, 34180), (376, 34171), (408, 34018), (416, 33988), (430, 33925), (447, 33862),

Gene: Caviar_50 Start: 35710, Stop: 33692, Start Num: 55

Candidate Starts for Caviar_50:
(Start: 55 @35710 has 103 MA's), (Start: 71 @35617 has 1 MA's), (Start: 73 @35608 has 4 MA's), (77, 35587), (92, 35518), (Start: 97 @35482 has 1 MA's), (102, 35449), (114, 35401), (116, 35392), (141, 35275), (159, 35179), (172, 35119), (179, 35050), (182, 35041), (185, 35029), (207, 34969), (212, 34939), (213, 34936), (214, 34924), (216, 34906), (217, 34900), (218, 34897), (239, 34792), (242, 34786), (287, 34729), (321, 34525), (333, 34465), (341, 34423), (345, 34405), (358, 34342), (370, 34279), (373, 34264), (376, 34237), (385, 34165), (408, 34078), (419, 34036), (443, 33943), (447, 33922), (477, 33808),

Gene: CeilingFan_44 Start: 19422, Stop: 21362, Start Num: 64
Candidate Starts for CeilingFan_44:
(Start: 64 @19422 has 81 MA's), (90, 19554), (96, 19590), (102, 19626), (110, 19653), (112, 19665), (132, 19770), (143, 19812), (150, 19827), (188, 20052), (210, 20106), (221, 20190), (232, 20241), (239, 20280), (245, 20292), (293, 20370), (305, 20469), (314, 20505), (345, 20652), (379, 20826), (382, 20862), (400, 20931), (401, 20934), (439, 21105), (476, 21243),

Gene: Celery_50 Start: 33303, Stop: 35366, Start Num: 48
Candidate Starts for Celery_50:
(Start: 48 @33303 has 546 MA's), (Start: 61 @33342 has 1 MA's), (Start: 71 @33405 has 1 MA's), (Start: 73 @33414 has 4 MA's), (81, 33465), (82, 33471), (84, 33492), (Start: 88 @33504 has 3 MA's), (116, 33645), (117, 33660), (134, 33732), (141, 33765), (163, 33882), (172, 33924), (182, 34002), (183, 34005), (207, 34092), (212, 34122), (213, 34125), (216, 34155), (238, 34266), (283, 34317), (287, 34329), (294, 34368), (318, 34518), (327, 34575), (354, 34698), (376, 34824), (378, 34833), (402, 34950), (403, 34962), (407, 34986), (408, 34989), (420, 35037), (436, 35091), (441, 35109), (447, 35139), (451, 35157), (457, 35175), (462, 35187), (473, 35235), (490, 35313),

Gene: Celeste_48 Start: 32415, Stop: 34505, Start Num: 48
Candidate Starts for Celeste_48:
(31, 32373), (34, 32379), (Start: 48 @32415 has 546 MA's), (Start: 61 @32460 has 1 MA's), (79, 32571), (Start: 88 @32625 has 3 MA's), (90, 32631), (Start: 97 @32676 has 1 MA's), (114, 32757), (116, 32766), (131, 32844), (134, 32853), (141, 32886), (149, 32904), (156, 32946), (158, 32979), (163, 33003), (172, 33045), (182, 33123), (183, 33126), (200, 33183), (207, 33213), (216, 33276), (218, 33285), (229, 33336), (248, 33405), (283, 33450), (287, 33462), (305, 33594), (318, 33651), (321, 33672), (327, 33708), (338, 33759), (346, 33795), (358, 33855), (370, 33918), (371, 33924), (373, 33933), (378, 33969), (384, 34029), (395, 34056), (398, 34068), (399, 34071), (407, 34122), (410, 34128), (420, 34173), (425, 34191), (426, 34194), (436, 34227), (441, 34245), (447, 34275), (450, 34287), (457, 34314), (473, 34374), (488, 34446), (495, 34497),

Gene: Celestialunch_49 Start: 35323, Stop: 33284, Start Num: 48
Candidate Starts for Celestialunch_49:
(Start: 46 @35326 has 38 MA's), (Start: 48 @35323 has 546 MA's), (Start: 71 @35218 has 1 MA's), (Start: 73 @35209 has 4 MA's), (Start: 97 @35083 has 1 MA's), (116, 34993), (125, 34933), (141, 34873), (149, 34855), (172, 34717), (182, 34639), (185, 34627), (207, 34573), (212, 34543), (213, 34540), (216, 34510), (217, 34504), (218, 34501), (227, 34462), (236, 34414), (280, 34336), (291, 34291), (294, 34276), (308, 34165), (321, 34111), (327, 34075), (356, 33937), (358, 33928), (367, 33883), (370, 33865), (376, 33823), (408, 33670), (430, 33577), (436, 33562), (447, 33514),

Gene: Centaur_52 Start: 36090, Stop: 34054, Start Num: 48
Candidate Starts for Centaur_52:
(Start: 48 @36090 has 546 MA's), (Start: 61 @36051 has 1 MA's), (Start: 73 @35979 has 4 MA's), (Start: 88 @35904 has 3 MA's), (Start: 97 @35853 has 1 MA's), (102, 35820), (116, 35763), (134, 35676), (141, 35643), (172, 35487), (182, 35409), (185, 35397), (204, 35355), (207, 35337), (212, 35307), (213, 35304), (214, 35292), (216, 35274), (217, 35268), (218, 35265), (280, 35106), (291,

35061), (298, 35019), (299, 35016), (321, 34881), (327, 34845), (341, 34779), (343, 34767), (356, 34707), (367, 34653), (370, 34635), (378, 34584), (391, 34503), (396, 34494), (408, 34440), (416, 34410), (418, 34401), (430, 34347), (447, 34284), (461, 34236), (463, 34227),

Gene: CentreCat_50 Start: 35451, Stop: 33418, Start Num: 48
Candidate Starts for CentreCat_50:
(Start: 48 @35451 has 546 MA's), (68, 35388), (Start: 73 @35340 has 4 MA's), (78, 35316), (92, 35250), (Start: 97 @35214 has 1 MA's), (102, 35181), (114, 35133), (116, 35124), (125, 35067), (134, 35040), (141, 35007), (172, 34851), (173, 34842), (182, 34773), (207, 34701), (212, 34671), (213, 34668), (216, 34638), (217, 34632), (218, 34629), (236, 34542), (251, 34512), (261, 34500), (269, 34491), (287, 34443), (321, 34239), (341, 34137), (345, 34119), (373, 33978), (376, 33951), (407, 33807), (408, 33804), (416, 33774), (430, 33711), (441, 33678), (443, 33669), (447, 33648), (461, 33600), (477, 33534),

Gene: Cerulean_51 Start: 35885, Stop: 33834, Start Num: 48
Candidate Starts for Cerulean_51:
(Start: 48 @35885 has 546 MA's), (68, 35822), (Start: 73 @35774 has 4 MA's), (74, 35771), (78, 35750), (92, 35684), (Start: 97 @35648 has 1 MA's), (102, 35615), (114, 35567), (116, 35558), (125, 35501), (141, 35441), (148, 35426), (172, 35285), (173, 35276), (182, 35207), (207, 35135), (212, 35105), (213, 35102), (216, 35072), (217, 35066), (218, 35063), (268, 34910), (287, 34859), (321, 34655), (341, 34553), (345, 34535), (373, 34394), (376, 34367), (407, 34223), (408, 34220), (416, 34190), (430, 34127), (441, 34094), (443, 34085), (447, 34064), (461, 34016), (477, 33950),

Gene: Chadwick_47 Start: 34305, Stop: 32278, Start Num: 48
Candidate Starts for Chadwick_47:
(Start: 24 @34347 has 1 MA's), (Start: 48 @34305 has 546 MA's), (Start: 88 @34119 has 3 MA's), (Start: 97 @34068 has 1 MA's), (102, 34035), (114, 33987), (116, 33978), (121, 33936), (149, 33840), (155, 33801), (160, 33756), (171, 33711), (172, 33702), (178, 33639), (179, 33633), (182, 33624), (207, 33552), (212, 33522), (213, 33519), (214, 33507), (216, 33489), (217, 33483), (218, 33480), (269, 33357), (291, 33291), (298, 33249), (319, 33129), (320, 33114), (323, 33096), (334, 33048), (341, 33009), (355, 32940), (367, 32883), (369, 32871), (370, 32865), (376, 32823), (378, 32814), (391, 32733), (416, 32634), (425, 32592), (436, 32556), (441, 32538), (443, 32529), (491, 32319),

Gene: Chaewon_20 Start: 7003, Stop: 8949, Start Num: 65
Candidate Starts for Chaewon_20:
(Start: 65 @7003 has 29 MA's), (90, 7144), (105, 7228), (110, 7243), (112, 7255), (132, 7360), (147, 7411), (186, 7633), (204, 7666), (217, 7753), (235, 7846), (306, 8059), (339, 8212), (344, 8236), (355, 8275), (389, 8485), (401, 8521), (421, 8623), (424, 8638), (476, 8830), (490, 8902),

Gene: ChampagnePapi_52 Start: 35884, Stop: 33833, Start Num: 48
Candidate Starts for ChampagnePapi_52:
(Start: 48 @35884 has 546 MA's), (68, 35821), (Start: 73 @35773 has 4 MA's), (74, 35770), (92, 35683), (Start: 97 @35647 has 1 MA's), (102, 35614), (114, 35566), (116, 35557), (125, 35500), (134, 35473), (141, 35440), (148, 35425), (172, 35284), (173, 35275), (182, 35206), (207, 35134), (212, 35104), (213, 35101), (216, 35071), (217, 35065), (218, 35062), (268, 34909), (287, 34858), (321, 34654), (341, 34552), (345, 34534), (373, 34393), (376, 34366), (407, 34222), (408, 34219), (416, 34189), (430, 34126), (441, 34093), (443, 34084), (447, 34063), (461, 34015), (477, 33949),

Gene: Changeling_50 Start: 36301, Stop: 34262, Start Num: 48
Candidate Starts for Changeling_50:
(Start: 48 @36301 has 546 MA's), (Start: 73 @36190 has 4 MA's), (87, 36118), (Start: 88 @36115 has 3 MA's), (Start: 97 @36064 has 1 MA's), (102, 36031), (114, 35983), (116, 35974), (125, 35914), (141, 35854), (172, 35698), (173, 35689), (182, 35620), (207, 35548), (212, 35518), (213, 35515), (216,

35485), (217, 35479), (218, 35476), (280, 35314), (291, 35269), (298, 35227), (321, 35089), (327, 35053), (341, 34987), (343, 34975), (356, 34915), (370, 34843), (391, 34711), (396, 34702), (408, 34648), (415, 34621), (418, 34609), (430, 34555), (432, 34549), (447, 34492), (461, 34444), (463, 34435),

Gene: Chaph_50 Start: 35459, Stop: 33426, Start Num: 48
Candidate Starts for Chaph_50:
(Start: 48 @35459 has 546 MA's), (68, 35396), (Start: 73 @35348 has 4 MA's), (78, 35324), (92, 35258), (Start: 97 @35222 has 1 MA's), (102, 35189), (114, 35141), (116, 35132), (125, 35075), (134, 35048), (141, 35015), (172, 34859), (173, 34850), (182, 34781), (207, 34709), (212, 34679), (213, 34676), (216, 34646), (217, 34640), (218, 34637), (236, 34550), (251, 34520), (261, 34508), (269, 34499), (287, 34451), (321, 34247), (341, 34145), (345, 34127), (373, 33986), (376, 33959), (407, 33815), (408, 33812), (416, 33782), (430, 33719), (441, 33686), (443, 33677), (447, 33656), (461, 33608), (477, 33542),

Gene: Chargerpower_50 Start: 34671, Stop: 32638, Start Num: 52
Candidate Starts for Chargerpower_50:
(Start: 52 @34671 has 24 MA's), (Start: 71 @34572 has 1 MA's), (Start: 73 @34563 has 4 MA's), (Start: 88 @34488 has 3 MA's), (114, 34356), (116, 34347), (117, 34332), (125, 34287), (141, 34227), (148, 34212), (152, 34182), (172, 34071), (182, 33993), (207, 33927), (213, 33894), (216, 33864), (217, 33858), (218, 33855), (234, 33774), (280, 33690), (291, 33645), (298, 33603), (303, 33546), (321, 33465), (333, 33405), (341, 33363), (343, 33351), (356, 33291), (358, 33282), (370, 33219), (374, 33186), (376, 33177), (418, 32985), (430, 32931), (447, 32868), (461, 32820),

Gene: Charm_50 Start: 35555, Stop: 33516, Start Num: 48
Candidate Starts for Charm_50:
(Start: 48 @35555 has 546 MA's), (Start: 71 @35450 has 1 MA's), (Start: 73 @35441 has 4 MA's), (116, 35225), (117, 35210), (125, 35165), (126, 35162), (134, 35138), (141, 35105), (172, 34949), (182, 34871), (185, 34859), (207, 34805), (214, 34760), (216, 34742), (217, 34736), (218, 34733), (278, 34571), (280, 34568), (291, 34523), (301, 34448), (308, 34397), (321, 34343), (356, 34169), (358, 34160), (367, 34115), (370, 34097), (376, 34055), (408, 33902), (426, 33827), (447, 33746), (461, 33698),

Gene: Chartreuse_52 Start: 34210, Stop: 32186, Start Num: 48
Candidate Starts for Chartreuse_52:
(33, 34243), (Start: 48 @34210 has 546 MA's), (Start: 88 @34024 has 3 MA's), (102, 33940), (114, 33892), (116, 33883), (125, 33823), (141, 33763), (155, 33706), (159, 33667), (168, 33634), (172, 33607), (173, 33598), (178, 33544), (182, 33529), (207, 33457), (212, 33427), (216, 33394), (217, 33388), (218, 33385), (291, 33193), (318, 33034), (321, 33013), (343, 32899), (356, 32839), (358, 32830), (367, 32785), (370, 32767), (374, 32734), (393, 32632), (396, 32626), (408, 32572), (415, 32545), (416, 32542), (418, 32533), (430, 32479), (447, 32416), (454, 32386), (463, 32359),

Gene: Che12_53 Start: 34820, Stop: 32802, Start Num: 48
Candidate Starts for Che12_53:
(Start: 48 @34820 has 546 MA's), (78, 34685), (102, 34550), (114, 34502), (116, 34493), (125, 34433), (141, 34373), (149, 34355), (158, 34280), (160, 34271), (172, 34217), (177, 34169), (182, 34139), (207, 34073), (212, 34043), (213, 34040), (216, 34010), (217, 34004), (218, 34001), (236, 33914), (278, 33857), (280, 33854), (291, 33809), (308, 33683), (321, 33629), (333, 33569), (338, 33542), (341, 33527), (356, 33455), (358, 33446), (370, 33383), (374, 33350), (376, 33341), (386, 33260), (396, 33242), (408, 33188), (415, 33161), (418, 33149), (447, 33032), (458, 32990), (485, 32867),

Gene: ChipMunk_53 Start: 37464, Stop: 35425, Start Num: 48
Candidate Starts for ChipMunk_53:

(Start: 48 @37464 has 546 MA's), (Start: 97 @37224 has 1 MA's), (116, 37134), (117, 37119), (141, 37014), (172, 36858), (182, 36780), (207, 36708), (212, 36678), (213, 36675), (216, 36645), (217, 36639), (218, 36636), (280, 36477), (291, 36432), (298, 36390), (321, 36252), (327, 36216), (341, 36150), (356, 36078), (367, 36024), (370, 36006), (399, 35856), (408, 35811), (418, 35772), (419, 35769), (430, 35718), (447, 35655), (461, 35607), (463, 35598), (492, 35457),

Gene: Chiqui_49 Start: 35746, Stop: 33725, Start Num: 48
Candidate Starts for Chiqui_49:
(Start: 48 @35746 has 546 MA's), (74, 35632), (92, 35545), (Start: 97 @35509 has 1 MA's), (102, 35476), (114, 35428), (116, 35419), (141, 35299), (168, 35170), (172, 35143), (173, 35134), (182, 35065), (188, 35044), (207, 34999), (212, 34969), (213, 34966), (214, 34954), (216, 34936), (217, 34930), (218, 34927), (287, 34762), (321, 34558), (333, 34498), (341, 34456), (345, 34438), (355, 34387), (369, 34318), (370, 34312), (373, 34297), (385, 34198), (407, 34114), (419, 34069), (443, 33976), (447, 33955), (477, 33841),

Gene: Chucky_47 Start: 32005, Stop: 34095, Start Num: 48
Candidate Starts for Chucky_47:
(16, 31924), (Start: 48 @32005 has 546 MA's), (Start: 61 @32050 has 1 MA's), (79, 32161), (82, 32182), (Start: 88 @32215 has 3 MA's), (90, 32221), (Start: 97 @32266 has 1 MA's), (114, 32347), (116, 32356), (131, 32434), (141, 32476), (156, 32536), (158, 32569), (163, 32593), (172, 32635), (173, 32644), (182, 32713), (183, 32716), (207, 32803), (216, 32866), (218, 32875), (229, 32926), (248, 32995), (283, 33040), (287, 33052), (305, 33184), (321, 33262), (323, 33277), (327, 33298), (338, 33349), (370, 33508), (371, 33514), (373, 33523), (378, 33559), (384, 33619), (395, 33646), (398, 33658), (407, 33712), (410, 33718), (426, 33784), (436, 33817), (441, 33835), (447, 33865), (450, 33877), (457, 33904), (473, 33964), (488, 34036),

Gene: Chupacabra_48 Start: 35182, Stop: 33101, Start Num: 35
Candidate Starts for Chupacabra_48:
(Start: 35 @35182 has 17 MA's), (Start: 73 @35041 has 4 MA's), (74, 35038), (78, 35017), (Start: 97 @34915 has 1 MA's), (102, 34882), (114, 34834), (116, 34825), (125, 34768), (141, 34708), (148, 34693), (159, 34612), (172, 34552), (182, 34474), (185, 34462), (206, 34411), (207, 34402), (212, 34372), (216, 34339), (217, 34333), (218, 34330), (273, 34165), (280, 34147), (291, 34102), (298, 34060), (321, 33922), (341, 33820), (345, 33802), (355, 33751), (356, 33748), (369, 33682), (370, 33676), (373, 33661), (376, 33634), (378, 33625), (384, 33565), (407, 33490), (408, 33487), (410, 33484), (419, 33445), (430, 33394), (432, 33388), (447, 33331), (477, 33217), (488, 33160),

Gene: Cici_49 Start: 35424, Stop: 33406, Start Num: 48
Candidate Starts for Cici_49:
(Start: 48 @35424 has 546 MA's), (Start: 73 @35313 has 4 MA's), (92, 35223), (Start: 97 @35187 has 1 MA's), (102, 35154), (114, 35106), (116, 35097), (125, 35037), (141, 34977), (172, 34821), (173, 34812), (182, 34743), (185, 34731), (205, 34680), (207, 34671), (212, 34641), (213, 34638), (216, 34608), (217, 34602), (218, 34599), (255, 34479), (278, 34455), (287, 34431), (321, 34227), (341, 34125), (345, 34107), (355, 34056), (369, 33987), (373, 33966), (376, 33939), (407, 33795), (408, 33792), (416, 33762), (426, 33717), (441, 33666), (443, 33657), (447, 33636), (477, 33522), (488, 33465),

Gene: Cindaradix_47 Start: 35078, Stop: 33027, Start Num: 48
Candidate Starts for Cindaradix_47:
(Start: 48 @35078 has 546 MA's), (Start: 73 @34967 has 4 MA's), (92, 34877), (Start: 97 @34841 has 1 MA's), (102, 34808), (114, 34760), (116, 34751), (125, 34694), (141, 34634), (172, 34478), (173, 34469), (179, 34409), (182, 34400), (185, 34388), (207, 34328), (212, 34298), (213, 34295), (216, 34265), (217, 34259), (218, 34256), (225, 34223), (265, 34103), (278, 34076), (287, 34052), (321, 33848), (341, 33746), (345, 33728), (355, 33677), (365, 33638), (369, 33608), (373, 33587), (376,

33560), (407, 33416), (408, 33413), (416, 33383), (426, 33338), (441, 33287), (443, 33278), (447, 33257), (461, 33209), (477, 33143), (488, 33086),

Gene: Cintron_49 Start: 35425, Stop: 33392, Start Num: 48
Candidate Starts for Cintron_49:
(Start: 48 @35425 has 546 MA's), (68, 35362), (Start: 73 @35314 has 4 MA's), (78, 35290), (92, 35224), (Start: 97 @35188 has 1 MA's), (102, 35155), (114, 35107), (116, 35098), (125, 35041), (134, 35014), (141, 34981), (172, 34825), (173, 34816), (182, 34747), (207, 34675), (212, 34645), (213, 34642), (216, 34612), (217, 34606), (218, 34603), (236, 34516), (251, 34486), (261, 34474), (269, 34465), (287, 34417), (321, 34213), (341, 34111), (345, 34093), (373, 33952), (376, 33925), (407, 33781), (408, 33778), (416, 33748), (430, 33685), (441, 33652), (443, 33643), (447, 33622), (461, 33574), (477, 33508),

Gene: Circinus_18 Start: 7365, Stop: 9311, Start Num: 65
Candidate Starts for Circinus_18:
(Start: 65 @7365 has 29 MA's), (90, 7506), (Start: 103 @7581 has 6 MA's), (105, 7590), (110, 7605), (112, 7617), (132, 7722), (147, 7773), (186, 7995), (204, 8028), (217, 8115), (235, 8208), (306, 8421), (339, 8574), (344, 8598), (355, 8637), (373, 8727), (389, 8847), (401, 8883), (421, 8985), (424, 9000), (476, 9192),

Gene: Citius_50 Start: 35469, Stop: 33436, Start Num: 48
Candidate Starts for Citius_50:
(Start: 48 @35469 has 546 MA's), (68, 35406), (Start: 73 @35358 has 4 MA's), (78, 35334), (92, 35268), (Start: 97 @35232 has 1 MA's), (102, 35199), (114, 35151), (116, 35142), (125, 35085), (134, 35058), (141, 35025), (172, 34869), (173, 34860), (182, 34791), (207, 34719), (212, 34689), (213, 34686), (216, 34656), (217, 34650), (218, 34647), (236, 34560), (247, 34536), (251, 34530), (261, 34518), (269, 34509), (287, 34461), (321, 34257), (341, 34155), (345, 34137), (373, 33996), (376, 33969), (407, 33825), (408, 33822), (416, 33792), (430, 33729), (441, 33696), (443, 33687), (447, 33666), (461, 33618), (477, 33552),

Gene: Clammy_53 Start: 35769, Stop: 33748, Start Num: 48
Candidate Starts for Clammy_53:
(Start: 48 @35769 has 546 MA's), (74, 35655), (92, 35568), (Start: 97 @35532 has 1 MA's), (114, 35451), (116, 35442), (124, 35385), (141, 35322), (172, 35166), (182, 35088), (188, 35067), (190, 35064), (207, 35022), (212, 34992), (214, 34977), (216, 34959), (217, 34953), (218, 34950), (225, 34917), (287, 34785), (321, 34581), (327, 34545), (333, 34521), (341, 34479), (345, 34461), (369, 34341), (370, 34335), (373, 34320), (376, 34293), (403, 34155), (419, 34092), (443, 33999), (447, 33978), (471, 33897), (477, 33864),

Gene: Clarenza_49 Start: 35445, Stop: 33412, Start Num: 48
Candidate Starts for Clarenza_49:
(Start: 48 @35445 has 546 MA's), (68, 35382), (Start: 73 @35334 has 4 MA's), (78, 35310), (92, 35244), (Start: 97 @35208 has 1 MA's), (102, 35175), (114, 35127), (116, 35118), (125, 35061), (134, 35034), (141, 35001), (172, 34845), (173, 34836), (182, 34767), (207, 34695), (212, 34665), (213, 34662), (216, 34632), (217, 34626), (218, 34623), (236, 34536), (251, 34506), (261, 34494), (269, 34485), (287, 34437), (321, 34233), (341, 34131), (345, 34113), (373, 33972), (376, 33945), (407, 33801), (408, 33798), (416, 33768), (430, 33705), (441, 33672), (443, 33663), (447, 33642), (461, 33594), (477, 33528),

Gene: CloudWang3_54 Start: 34998, Stop: 32944, Start Num: 48
Candidate Starts for CloudWang3_54:
(Start: 48 @34998 has 546 MA's), (Start: 88 @34812 has 3 MA's), (Start: 97 @34761 has 1 MA's), (102, 34728), (114, 34680), (116, 34671), (125, 34611), (141, 34551), (155, 34494), (159, 34455),

(168, 34422), (172, 34395), (173, 34386), (178, 34332), (182, 34317), (207, 34245), (212, 34215), (216, 34182), (217, 34176), (218, 34173), (236, 34086), (258, 34032), (278, 33999), (291, 33951), (298, 33909), (321, 33771), (343, 33657), (356, 33597), (358, 33588), (367, 33543), (370, 33525), (374, 33492), (393, 33390), (396, 33384), (408, 33330), (415, 33303), (418, 33291), (430, 33237), (447, 33174), (454, 33144), (463, 33117), (472, 33078),

Gene: ClownCar_54 Start: 35789, Stop: 33774, Start Num: 55
Candidate Starts for ClownCar_54:
(Start: 55 @35789 has 103 MA's), (Start: 71 @35696 has 1 MA's), (Start: 73 @35687 has 4 MA's), (Start: 88 @35612 has 3 MA's), (Start: 97 @35561 has 1 MA's), (114, 35480), (116, 35471), (125, 35414), (141, 35354), (156, 35294), (159, 35258), (172, 35198), (173, 35189), (182, 35120), (185, 35108), (207, 35048), (212, 35018), (213, 35015), (214, 35003), (216, 34985), (217, 34979), (218, 34976), (225, 34943), (261, 34841), (287, 34811), (312, 34640), (320, 34607), (323, 34589), (327, 34568), (333, 34544), (341, 34502), (345, 34484), (355, 34436), (370, 34361), (376, 34319), (383, 34256), (384, 34250), (391, 34226), (418, 34121), (436, 34052), (441, 34034), (443, 34025), (447, 34004), (470, 33926), (477, 33890), (490, 33827),

Gene: Cocoaberry_50 Start: 35452, Stop: 33419, Start Num: 48
Candidate Starts for Cocoaberry_50:
(Start: 48 @35452 has 546 MA's), (68, 35389), (Start: 73 @35341 has 4 MA's), (78, 35317), (92, 35251), (Start: 97 @35215 has 1 MA's), (102, 35182), (114, 35134), (116, 35125), (125, 35068), (134, 35041), (141, 35008), (172, 34852), (173, 34843), (182, 34774), (207, 34702), (212, 34672), (213, 34669), (216, 34639), (217, 34633), (218, 34630), (236, 34543), (251, 34513), (261, 34501), (269, 34492), (287, 34444), (321, 34240), (341, 34138), (345, 34120), (373, 33979), (376, 33952), (407, 33808), (408, 33805), (416, 33775), (430, 33712), (441, 33679), (443, 33670), (447, 33649), (461, 33601), (477, 33535),

Gene: CogOmlette_50 Start: 35236, Stop: 33197, Start Num: 48
Candidate Starts for CogOmlette_50:
(Start: 46 @35239 has 38 MA's), (Start: 48 @35236 has 546 MA's), (Start: 73 @35122 has 4 MA's), (74, 35119), (Start: 97 @34996 has 1 MA's), (102, 34963), (116, 34906), (125, 34846), (126, 34843), (141, 34786), (172, 34630), (182, 34552), (185, 34540), (206, 34495), (207, 34486), (212, 34456), (214, 34441), (216, 34423), (217, 34417), (218, 34414), (227, 34375), (280, 34249), (291, 34204), (298, 34162), (308, 34078), (321, 34024), (338, 33937), (343, 33910), (356, 33850), (374, 33745), (376, 33736), (408, 33583), (418, 33544), (447, 33427), (461, 33379),

Gene: Colbster_54 Start: 35910, Stop: 33892, Start Num: 55
Candidate Starts for Colbster_54:
(Start: 55 @35910 has 103 MA's), (Start: 71 @35817 has 1 MA's), (Start: 73 @35808 has 4 MA's), (78, 35784), (Start: 88 @35733 has 3 MA's), (Start: 97 @35682 has 1 MA's), (114, 35601), (116, 35592), (141, 35472), (156, 35412), (159, 35376), (172, 35316), (182, 35238), (207, 35166), (212, 35136), (216, 35103), (217, 35097), (218, 35094), (234, 35013), (242, 34983), (287, 34929), (312, 34758), (333, 34662), (341, 34620), (345, 34602), (355, 34554), (358, 34542), (369, 34485), (370, 34479), (373, 34464), (376, 34437), (383, 34374), (384, 34368), (391, 34344), (418, 34239), (436, 34170), (441, 34152), (443, 34143), (447, 34122), (470, 34044), (477, 34008), (490, 33945),

Gene: Colin_50 Start: 36102, Stop: 34045, Start Num: 48
Candidate Starts for Colin_50:
(Start: 48 @36102 has 546 MA's), (Start: 73 @35988 has 4 MA's), (74, 35985), (87, 35916), (Start: 88 @35913 has 3 MA's), (Start: 97 @35862 has 1 MA's), (102, 35829), (114, 35781), (116, 35772), (125, 35712), (141, 35652), (172, 35496), (173, 35487), (182, 35418), (207, 35352), (212, 35322), (213, 35319), (214, 35307), (216, 35289), (217, 35283), (218, 35280), (280, 35097), (291, 35052), (298, 35010), (321, 34872), (341, 34770), (343, 34758), (356, 34698), (370, 34626), (391, 34494), (396,

34485), (408, 34431), (425, 34359), (430, 34338), (432, 34332), (447, 34275), (461, 34227), (463, 34218),

Gene: Commander_50 Start: 35447, Stop: 33414, Start Num: 48
Candidate Starts for Commander_50:
(Start: 48 @35447 has 546 MA's), (68, 35384), (Start: 73 @35336 has 4 MA's), (78, 35312), (92, 35246), (Start: 97 @35210 has 1 MA's), (102, 35177), (114, 35129), (116, 35120), (125, 35063), (134, 35036), (141, 35003), (158, 34910), (172, 34847), (173, 34838), (182, 34769), (207, 34697), (212, 34667), (213, 34664), (216, 34634), (217, 34628), (218, 34625), (236, 34538), (251, 34508), (261, 34496), (269, 34487), (287, 34439), (321, 34235), (341, 34133), (345, 34115), (373, 33974), (376, 33947), (407, 33803), (408, 33800), (416, 33770), (430, 33707), (441, 33674), (443, 33665), (447, 33644), (461, 33596), (477, 33530),

Gene: Comrade_21 Start: 8141, Stop: 10084, Start Num: 65
Candidate Starts for Comrade_21:
(62, 8132), (Start: 65 @8141 has 29 MA's), (90, 8279), (110, 8378), (112, 8390), (132, 8495), (242, 9008), (297, 9122), (313, 9224), (339, 9347), (344, 9371), (364, 9443), (379, 9548), (383, 9590), (389, 9620), (401, 9656), (405, 9677), (414, 9728), (421, 9758), (434, 9809), (476, 9965), (484, 10007),

Gene: Conan_48 Start: 33218, Stop: 35281, Start Num: 48
Candidate Starts for Conan_48:
(12, 33116), (13, 33122), (Start: 27 @33167 has 1 MA's), (Start: 48 @33218 has 546 MA's), (Start: 61 @33257 has 1 MA's), (Start: 71 @33320 has 1 MA's), (Start: 73 @33329 has 4 MA's), (81, 33380), (82, 33386), (Start: 88 @33419 has 3 MA's), (Start: 97 @33470 has 1 MA's), (116, 33560), (117, 33575), (134, 33647), (141, 33680), (163, 33797), (172, 33839), (173, 33848), (182, 33917), (183, 33920), (187, 33941), (207, 34007), (216, 34070), (218, 34079), (278, 34220), (287, 34244), (318, 34433), (327, 34490), (354, 34613), (376, 34739), (378, 34748), (402, 34865), (403, 34877), (407, 34901), (408, 34904), (420, 34952), (436, 35006), (441, 35024), (447, 35054), (463, 35108), (473, 35150), (490, 35228), (495, 35273),

Gene: Connomayer_50 Start: 35448, Stop: 33415, Start Num: 48
Candidate Starts for Connomayer_50:
(Start: 48 @35448 has 546 MA's), (68, 35385), (Start: 73 @35337 has 4 MA's), (78, 35313), (92, 35247), (Start: 97 @35211 has 1 MA's), (102, 35178), (114, 35130), (116, 35121), (125, 35064), (134, 35037), (141, 35004), (172, 34848), (173, 34839), (182, 34770), (207, 34698), (212, 34668), (213, 34665), (216, 34635), (217, 34629), (218, 34626), (236, 34539), (247, 34515), (251, 34509), (261, 34497), (269, 34488), (287, 34440), (321, 34236), (341, 34134), (345, 34116), (373, 33975), (376, 33948), (407, 33804), (408, 33801), (416, 33771), (430, 33708), (441, 33675), (443, 33666), (447, 33645), (461, 33597), (477, 33531),

Gene: Conquerage_51 Start: 35742, Stop: 33703, Start Num: 48
Candidate Starts for Conquerage_51:
(Start: 48 @35742 has 546 MA's), (Start: 73 @35628 has 4 MA's), (75, 35613), (78, 35604), (Start: 97 @35502 has 1 MA's), (116, 35412), (125, 35352), (141, 35292), (171, 35145), (172, 35136), (182, 35058), (185, 35046), (206, 35001), (207, 34992), (212, 34962), (214, 34947), (216, 34929), (217, 34923), (218, 34920), (280, 34755), (288, 34731), (291, 34710), (321, 34530), (343, 34416), (356, 34356), (374, 34251), (376, 34242), (408, 34089), (416, 34059), (430, 33996), (447, 33933),

Gene: Conspiracy_43 Start: 34402, Stop: 32333, Start Num: 48
Candidate Starts for Conspiracy_43:
(Start: 48 @34402 has 546 MA's), (Start: 88 @34216 has 3 MA's), (Start: 97 @34165 has 1 MA's), (102, 34132), (114, 34084), (116, 34075), (141, 33955), (148, 33940), (167, 33829), (168, 33826), (172, 33799), (173, 33790), (179, 33730), (182, 33721), (187, 33697), (207, 33610), (212, 33580),

(213, 33577), (216, 33547), (217, 33541), (218, 33538), (291, 33346), (319, 33184), (323, 33151), (334, 33103), (341, 33064), (355, 32995), (367, 32938), (369, 32926), (370, 32920), (376, 32878), (378, 32869), (407, 32722), (416, 32689), (425, 32647), (436, 32611), (441, 32593), (443, 32584), (491, 32374),

Gene: Coog_43 Start: 34563, Stop: 32434, Start Num: 48
Candidate Starts for Coog_43:
(Start: 48 @34563 has 546 MA's), (Start: 88 @34377 has 3 MA's), (Start: 97 @34326 has 1 MA's), (114, 34245), (116, 34236), (141, 34116), (148, 34101), (167, 33990), (168, 33987), (172, 33960), (173, 33951), (182, 33882), (187, 33858), (207, 33771), (212, 33741), (213, 33738), (216, 33708), (217, 33702), (218, 33699), (242, 33588), (291, 33447), (294, 33432), (319, 33285), (323, 33252), (334, 33204), (341, 33165), (355, 33096), (367, 33039), (369, 33027), (370, 33021), (376, 32979), (378, 32970), (385, 32907), (410, 32817), (416, 32790), (425, 32748), (436, 32712), (441, 32694), (443, 32685), (447, 32664), (491, 32475),

Gene: Coogler_43 Start: 19668, Stop: 21611, Start Num: 64
Candidate Starts for Coogler_43:
(Start: 52 @19623 has 24 MA's), (Start: 55 @19632 has 103 MA's), (Start: 64 @19668 has 81 MA's), (Start: 67 @19674 has 1 MA's), (69, 19698), (83, 19776), (86, 19797), (90, 19806), (93, 19818), (108, 19896), (110, 19905), (111, 19914), (112, 19917), (132, 20022), (204, 20331), (239, 20532), (245, 20544), (314, 20757), (317, 20766), (336, 20862), (345, 20904), (348, 20922), (379, 21078), (401, 21186), (439, 21357), (448, 21396), (476, 21495),

Gene: Cookiedough_53 Start: 34829, Stop: 32805, Start Num: 48
Candidate Starts for Cookiedough_53:
(33, 34862), (Start: 48 @34829 has 546 MA's), (Start: 88 @34643 has 3 MA's), (102, 34559), (114, 34511), (116, 34502), (125, 34442), (141, 34382), (155, 34325), (159, 34286), (168, 34253), (172, 34226), (173, 34217), (178, 34163), (182, 34148), (207, 34076), (212, 34046), (216, 34013), (217, 34007), (218, 34004), (291, 33812), (318, 33653), (321, 33632), (343, 33518), (356, 33458), (358, 33449), (367, 33404), (370, 33386), (374, 33353), (393, 33251), (396, 33245), (408, 33191), (415, 33164), (416, 33161), (418, 33152), (430, 33098), (447, 33035), (454, 33005), (463, 32978),

Gene: CosmicSans_41 Start: 32074, Stop: 30029, Start Num: 46
Candidate Starts for CosmicSans_41:
(Start: 46 @32074 has 38 MA's), (74, 31954), (85, 31891), (87, 31885), (Start: 97 @31831 has 1 MA's), (114, 31750), (116, 31741), (125, 31681), (131, 31663), (156, 31561), (158, 31528), (159, 31525), (161, 31516), (167, 31495), (171, 31474), (172, 31465), (178, 31402), (182, 31387), (184, 31381), (207, 31321), (213, 31288), (216, 31258), (217, 31252), (218, 31249), (259, 31114), (312, 30901), (320, 30868), (338, 30778), (340, 30769), (367, 30637), (376, 30577), (385, 30505), (398, 30466), (399, 30463), (402, 30451), (418, 30379), (436, 30307), (443, 30280), (477, 30145),

Gene: Croquant_55 Start: 35905, Stop: 33887, Start Num: 55
Candidate Starts for Croquant_55:
(Start: 55 @35905 has 103 MA's), (Start: 71 @35812 has 1 MA's), (Start: 73 @35803 has 4 MA's), (78, 35779), (Start: 88 @35728 has 3 MA's), (Start: 97 @35677 has 1 MA's), (114, 35596), (116, 35587), (141, 35467), (156, 35407), (159, 35371), (172, 35311), (182, 35233), (207, 35161), (212, 35131), (216, 35098), (217, 35092), (218, 35089), (234, 35008), (242, 34978), (287, 34924), (312, 34753), (333, 34657), (341, 34615), (345, 34597), (355, 34549), (358, 34537), (369, 34480), (370, 34474), (373, 34459), (376, 34432), (383, 34369), (384, 34363), (391, 34339), (418, 34234), (436, 34165), (441, 34147), (443, 34138), (447, 34117), (470, 34039), (477, 34003), (490, 33940),

Gene: Cross_43 Start: 19648, Stop: 21585, Start Num: 67
Candidate Starts for Cross_43:

(Start: 52 @19597 has 24 MA's), (Start: 55 @19606 has 103 MA's), (Start: 64 @19642 has 81 MA's), (Start: 67 @19648 has 1 MA's), (83, 19750), (86, 19771), (90, 19780), (93, 19792), (108, 19870), (110, 19879), (111, 19888), (112, 19891), (132, 19996), (156, 20095), (204, 20305), (239, 20506), (245, 20518), (314, 20731), (336, 20836), (345, 20878), (348, 20896), (379, 21052), (401, 21160), (439, 21331), (448, 21370), (476, 21469),

Gene: Crucio_51 Start: 35698, Stop: 33662, Start Num: 48
Candidate Starts for Crucio_51:
(Start: 48 @35698 has 546 MA's), (Start: 73 @35587 has 4 MA's), (74, 35584), (Start: 88 @35512 has 3 MA's), (Start: 97 @35461 has 1 MA's), (100, 35443), (109, 35407), (116, 35371), (141, 35251), (171, 35104), (172, 35095), (182, 35017), (207, 34945), (212, 34915), (213, 34912), (214, 34900), (216, 34882), (217, 34876), (218, 34873), (280, 34714), (291, 34669), (298, 34627), (321, 34489), (327, 34453), (341, 34387), (343, 34375), (356, 34315), (367, 34261), (370, 34243), (408, 34048), (418, 34009), (419, 34006), (430, 33955), (447, 33892), (461, 33844), (463, 33835), (492, 33694),

Gene: Cuco_43 Start: 34435, Stop: 32384, Start Num: 48
Candidate Starts for Cuco_43:
(Start: 48 @34435 has 546 MA's), (Start: 88 @34249 has 3 MA's), (Start: 97 @34198 has 1 MA's), (102, 34165), (114, 34117), (116, 34108), (121, 34066), (128, 34036), (149, 33970), (155, 33931), (160, 33886), (171, 33841), (172, 33832), (178, 33769), (179, 33763), (182, 33754), (207, 33682), (212, 33652), (213, 33649), (216, 33619), (217, 33613), (218, 33610), (242, 33499), (291, 33397), (294, 33382), (319, 33235), (323, 33202), (334, 33154), (341, 33115), (355, 33046), (367, 32989), (369, 32977), (370, 32971), (376, 32929), (378, 32920), (385, 32857), (410, 32767), (416, 32740), (425, 32698), (436, 32662), (441, 32644), (443, 32635), (491, 32425),

Gene: Cullens_54 Start: 35906, Stop: 33888, Start Num: 55
Candidate Starts for Cullens_54:
(Start: 55 @35906 has 103 MA's), (Start: 71 @35813 has 1 MA's), (Start: 73 @35804 has 4 MA's), (78, 35780), (Start: 88 @35729 has 3 MA's), (Start: 97 @35678 has 1 MA's), (114, 35597), (116, 35588), (141, 35468), (156, 35408), (159, 35372), (172, 35312), (182, 35234), (207, 35162), (212, 35132), (216, 35099), (217, 35093), (218, 35090), (234, 35009), (242, 34979), (287, 34925), (312, 34754), (333, 34658), (341, 34616), (345, 34598), (355, 34550), (358, 34538), (369, 34481), (370, 34475), (373, 34460), (376, 34433), (383, 34370), (384, 34364), (391, 34340), (418, 34235), (436, 34166), (441, 34148), (447, 34118), (470, 34040), (477, 34004), (490, 33941),

Gene: Cursive_40 Start: 18459, Stop: 20411, Start Num: 64
Candidate Starts for Cursive_40:
(Start: 52 @18414 has 24 MA's), (Start: 55 @18423 has 103 MA's), (Start: 64 @18459 has 81 MA's), (Start: 67 @18465 has 1 MA's), (83, 18567), (86, 18588), (90, 18597), (93, 18609), (108, 18687), (110, 18696), (111, 18705), (112, 18708), (132, 18813), (156, 18912), (204, 19122), (239, 19323), (245, 19335), (314, 19548), (336, 19653), (345, 19695), (348, 19713), (379, 19869), (401, 19977), (439, 20148), (448, 20187), (476, 20286),

Gene: D29_50 Start: 35562, Stop: 33481, Start Num: 48
Candidate Starts for D29_50:
(Start: 48 @35562 has 546 MA's), (Start: 71 @35457 has 1 MA's), (Start: 73 @35448 has 4 MA's), (Start: 88 @35373 has 3 MA's), (102, 35289), (114, 35241), (116, 35232), (125, 35172), (149, 35094), (155, 35055), (158, 35019), (172, 34956), (178, 34893), (182, 34878), (207, 34782), (212, 34752), (213, 34749), (216, 34719), (217, 34713), (218, 34710), (236, 34623), (278, 34548), (291, 34500), (321, 34320), (341, 34218), (343, 34206), (356, 34146), (358, 34137), (367, 34092), (369, 34080), (373, 34059), (376, 34032), (384, 33963), (408, 33867), (415, 33840), (418, 33828), (426, 33792), (447, 33711), (458, 33669),

Gene: D32_52 Start: 35562, Stop: 33481, Start Num: 48
Candidate Starts for D32_52:
(Start: 48 @35562 has 546 MA's), (Start: 71 @35457 has 1 MA's), (Start: 73 @35448 has 4 MA's), (Start: 88 @35373 has 3 MA's), (102, 35289), (114, 35241), (116, 35232), (125, 35172), (149, 35094), (155, 35055), (158, 35019), (172, 34956), (178, 34893), (182, 34878), (207, 34782), (212, 34752), (213, 34749), (216, 34719), (217, 34713), (218, 34710), (236, 34623), (278, 34548), (291, 34500), (321, 34320), (341, 34218), (343, 34206), (356, 34146), (358, 34137), (367, 34092), (369, 34080), (373, 34059), (376, 34032), (384, 33963), (408, 33867), (415, 33840), (418, 33828), (426, 33792), (447, 33711), (458, 33669),

Gene: DBQu4n_53 Start: 35543, Stop: 33480, Start Num: 48
Candidate Starts for DBQu4n_53:
(Start: 48 @35543 has 546 MA's), (Start: 71 @35438 has 1 MA's), (Start: 73 @35429 has 4 MA's), (Start: 88 @35354 has 3 MA's), (102, 35270), (114, 35222), (116, 35213), (125, 35153), (149, 35075), (155, 35036), (158, 35000), (172, 34937), (178, 34874), (182, 34859), (204, 34781), (207, 34763), (212, 34733), (213, 34730), (214, 34718), (216, 34700), (217, 34694), (218, 34691), (283, 34535), (291, 34499), (298, 34457), (321, 34319), (327, 34283), (341, 34217), (343, 34205), (356, 34145), (358, 34136), (367, 34091), (369, 34079), (373, 34058), (376, 34031), (384, 33962), (408, 33866), (415, 33839), (418, 33827), (426, 33791), (447, 33710), (458, 33668),

Gene: DaHudson_54 Start: 35899, Stop: 33881, Start Num: 55
Candidate Starts for DaHudson_54:
(Start: 55 @35899 has 103 MA's), (Start: 71 @35806 has 1 MA's), (Start: 73 @35797 has 4 MA's), (78, 35773), (Start: 88 @35722 has 3 MA's), (Start: 97 @35671 has 1 MA's), (114, 35590), (116, 35581), (141, 35461), (156, 35401), (159, 35365), (172, 35305), (182, 35227), (207, 35155), (212, 35125), (216, 35092), (217, 35086), (218, 35083), (234, 35002), (242, 34972), (287, 34918), (312, 34747), (333, 34651), (341, 34609), (345, 34591), (355, 34543), (358, 34531), (369, 34474), (370, 34468), (373, 34453), (376, 34426), (383, 34363), (384, 34357), (391, 34333), (418, 34228), (436, 34159), (441, 34141), (443, 34132), (447, 34111), (470, 34033), (477, 33997), (490, 33934),

Gene: DaVinci_52 Start: 34264, Stop: 32240, Start Num: 48
Candidate Starts for DaVinci_52:
(33, 34297), (Start: 48 @34264 has 546 MA's), (Start: 88 @34078 has 3 MA's), (102, 33994), (114, 33946), (116, 33937), (125, 33877), (141, 33817), (155, 33760), (159, 33721), (168, 33688), (172, 33661), (173, 33652), (178, 33598), (182, 33583), (207, 33511), (212, 33481), (216, 33448), (217, 33442), (218, 33439), (291, 33247), (318, 33088), (321, 33067), (343, 32953), (356, 32893), (358, 32884), (367, 32839), (370, 32821), (374, 32788), (393, 32686), (396, 32680), (408, 32626), (415, 32599), (416, 32596), (418, 32587), (430, 32533), (447, 32470), (454, 32440), (463, 32413),

Gene: Daishi_53 Start: 34775, Stop: 32757, Start Num: 55
Candidate Starts for Daishi_53:
(Start: 55 @34775 has 103 MA's), (Start: 71 @34682 has 1 MA's), (Start: 73 @34673 has 4 MA's), (78, 34649), (Start: 88 @34598 has 3 MA's), (Start: 97 @34547 has 1 MA's), (114, 34466), (116, 34457), (141, 34340), (159, 34244), (172, 34184), (179, 34115), (182, 34106), (183, 34103), (185, 34094), (207, 34034), (212, 34004), (213, 34001), (214, 33989), (216, 33971), (217, 33965), (218, 33962), (239, 33857), (242, 33851), (287, 33794), (321, 33590), (323, 33575), (327, 33554), (333, 33530), (338, 33503), (341, 33488), (369, 33350), (370, 33344), (373, 33329), (376, 33302), (383, 33239), (384, 33233), (391, 33209), (418, 33104), (426, 33068), (447, 32987), (470, 32909), (477, 32873), (490, 32810),

Gene: Daisy123_44 Start: 19281, Stop: 21221, Start Num: 64
Candidate Starts for Daisy123_44:

(Start: 64 @19281 has 81 MA's), (90, 19413), (96, 19449), (102, 19485), (110, 19512), (112, 19524), (132, 19629), (150, 19686), (188, 19911), (210, 19965), (221, 20049), (232, 20100), (239, 20139), (245, 20151), (293, 20229), (305, 20328), (314, 20364), (345, 20511), (379, 20685), (382, 20721), (400, 20790), (401, 20793), (439, 20964), (476, 21102),

Gene: Dalmatian_52 Start: 36090, Stop: 34054, Start Num: 48
Candidate Starts for Dalmatian_52:
(Start: 48 @36090 has 546 MA's), (59, 36054), (Start: 73 @35979 has 4 MA's), (74, 35976), (Start: 88 @35904 has 3 MA's), (Start: 97 @35853 has 1 MA's), (100, 35835), (109, 35799), (116, 35763), (141, 35643), (171, 35496), (172, 35487), (182, 35409), (207, 35337), (212, 35307), (213, 35304), (214, 35292), (216, 35274), (217, 35268), (218, 35265), (280, 35106), (291, 35061), (298, 35019), (321, 34881), (327, 34845), (341, 34779), (343, 34767), (356, 34707), (367, 34653), (370, 34635), (408, 34440), (418, 34401), (419, 34398), (430, 34347), (447, 34284), (461, 34236), (463, 34227), (492, 34086),

Gene: Danforth_47 Start: 33997, Stop: 31952, Start Num: 48
Candidate Starts for Danforth_47:
(Start: 48 @33997 has 546 MA's), (75, 33871), (87, 33814), (Start: 88 @33811 has 3 MA's), (Start: 97 @33760 has 1 MA's), (102, 33727), (114, 33679), (116, 33670), (121, 33628), (125, 33610), (149, 33532), (155, 33493), (160, 33448), (171, 33403), (172, 33394), (178, 33331), (179, 33325), (182, 33316), (207, 33244), (212, 33214), (213, 33211), (216, 33181), (217, 33175), (218, 33172), (291, 32974), (321, 32791), (327, 32755), (341, 32689), (363, 32590), (369, 32551), (376, 32503), (378, 32494), (392, 32410), (416, 32308), (443, 32203), (447, 32182), (451, 32164), (491, 31993),

Gene: Danzina_49 Start: 32713, Stop: 34803, Start Num: 48
Candidate Starts for Danzina_49:
(31, 32671), (34, 32677), (Start: 48 @32713 has 546 MA's), (Start: 61 @32758 has 1 MA's), (79, 32869), (82, 32890), (Start: 88 @32923 has 3 MA's), (90, 32929), (Start: 97 @32974 has 1 MA's), (114, 33055), (116, 33064), (131, 33142), (134, 33151), (141, 33184), (156, 33244), (158, 33277), (163, 33301), (172, 33343), (182, 33421), (183, 33424), (200, 33481), (207, 33511), (216, 33574), (218, 33583), (229, 33634), (248, 33703), (283, 33748), (287, 33760), (305, 33892), (318, 33949), (321, 33970), (327, 34006), (338, 34057), (346, 34093), (358, 34153), (361, 34165), (370, 34216), (371, 34222), (373, 34231), (378, 34267), (384, 34327), (395, 34354), (398, 34366), (399, 34369), (407, 34420), (410, 34426), (420, 34471), (425, 34489), (426, 34492), (436, 34525), (441, 34543), (447, 34573), (450, 34585), (457, 34612), (473, 34672), (488, 34744), (495, 34795),

Gene: Darrell_53 Start: 36371, Stop: 34332, Start Num: 48
Candidate Starts for Darrell_53:
(Start: 48 @36371 has 546 MA's), (Start: 71 @36266 has 1 MA's), (Start: 73 @36257 has 4 MA's), (102, 36098), (116, 36041), (125, 35981), (126, 35978), (141, 35921), (160, 35819), (172, 35765), (182, 35687), (185, 35675), (206, 35630), (207, 35621), (213, 35588), (214, 35576), (216, 35558), (217, 35552), (218, 35549), (280, 35384), (291, 35339), (321, 35159), (343, 35045), (356, 34985), (367, 34931), (370, 34913), (374, 34880), (376, 34871), (408, 34718), (416, 34688), (447, 34562),

Gene: DarthPhader_48 Start: 36548, Stop: 34509, Start Num: 48
Candidate Starts for DarthPhader_48:
(Start: 48 @36548 has 546 MA's), (Start: 71 @36443 has 1 MA's), (Start: 73 @36434 has 4 MA's), (Start: 97 @36308 has 1 MA's), (102, 36275), (116, 36218), (125, 36158), (141, 36098), (172, 35942), (181, 35867), (182, 35864), (188, 35843), (207, 35798), (213, 35765), (216, 35735), (217, 35729), (218, 35726), (234, 35645), (280, 35561), (288, 35537), (291, 35516), (298, 35474), (321, 35336), (341, 35234), (345, 35216), (356, 35162), (358, 35153), (370, 35090), (374, 35057), (382, 34991), (408, 34895), (410, 34892), (425, 34823), (430, 34802), (447, 34739), (470, 34661),

Gene: Dattran_49 Start: 32584, Stop: 34674, Start Num: 48
Candidate Starts for Dattran_49:
(16, 32500), (Start: 48 @32584 has 546 MA's), (Start: 61 @32629 has 1 MA's), (79, 32740), (Start: 88 @32794 has 3 MA's), (90, 32800), (Start: 97 @32845 has 1 MA's), (114, 32926), (116, 32935), (131, 33013), (134, 33022), (141, 33055), (156, 33115), (158, 33148), (163, 33172), (172, 33214), (182, 33292), (183, 33295), (200, 33352), (207, 33382), (216, 33445), (218, 33454), (229, 33505), (248, 33574), (283, 33619), (287, 33631), (296, 33688), (305, 33763), (318, 33820), (321, 33841), (327, 33877), (338, 33928), (346, 33964), (358, 34024), (370, 34087), (371, 34093), (373, 34102), (378, 34138), (382, 34186), (384, 34198), (395, 34225), (398, 34237), (407, 34291), (410, 34297), (420, 34342), (425, 34360), (426, 34363), (436, 34396), (441, 34414), (447, 34444), (450, 34456), (457, 34483), (473, 34543), (488, 34615), (495, 34666),

Gene: Datway_49 Start: 35395, Stop: 33377, Start Num: 48
Candidate Starts for Datway_49:
(Start: 48 @35395 has 546 MA's), (Start: 73 @35284 has 4 MA's), (92, 35194), (Start: 97 @35158 has 1 MA's), (102, 35125), (114, 35077), (116, 35068), (125, 35008), (141, 34948), (172, 34792), (173, 34783), (182, 34714), (185, 34702), (205, 34651), (207, 34642), (212, 34612), (213, 34609), (216, 34579), (217, 34573), (218, 34570), (255, 34450), (278, 34426), (287, 34402), (321, 34198), (341, 34096), (345, 34078), (355, 34027), (369, 33958), (373, 33937), (376, 33910), (407, 33766), (408, 33763), (416, 33733), (426, 33688), (441, 33637), (443, 33628), (447, 33607), (477, 33493), (488, 33436),

Gene: Daubenski_44 Start: 19923, Stop: 21866, Start Num: 64
Candidate Starts for Daubenski_44:
(Start: 38 @19845 has 1 MA's), (Start: 64 @19923 has 81 MA's), (Start: 67 @19929 has 1 MA's), (83, 20031), (86, 20052), (90, 20061), (108, 20151), (110, 20160), (111, 20169), (112, 20172), (132, 20277), (169, 20445), (204, 20586), (221, 20697), (239, 20787), (245, 20799), (345, 21159), (377, 21315), (379, 21333), (382, 21369), (401, 21441), (448, 21651), (476, 21750), (490, 21822),

Gene: Daudau_48 Start: 32887, Stop: 35001, Start Num: 48
Candidate Starts for Daudau_48:
(19, 32809), (34, 32851), (Start: 48 @32887 has 546 MA's), (79, 33034), (Start: 88 @33088 has 3 MA's), (90, 33094), (114, 33220), (116, 33229), (134, 33316), (136, 33328), (141, 33349), (163, 33466), (172, 33508), (173, 33517), (182, 33586), (207, 33694), (216, 33757), (268, 33922), (287, 33958), (302, 34078), (307, 34096), (321, 34168), (327, 34204), (335, 34231), (341, 34270), (370, 34414), (373, 34429), (378, 34465), (384, 34525), (398, 34564), (402, 34582), (407, 34618), (410, 34624), (420, 34669), (426, 34690), (436, 34723), (441, 34741), (473, 34870), (486, 34939), (495, 34993),

Gene: Davielle_39 Start: 17983, Stop: 19926, Start Num: 64
Candidate Starts for Davielle_39:
(Start: 64 @17983 has 81 MA's), (Start: 67 @17989 has 1 MA's), (83, 18091), (86, 18112), (90, 18121), (108, 18211), (110, 18220), (111, 18229), (112, 18232), (132, 18337), (204, 18646), (221, 18757), (239, 18847), (245, 18859), (314, 19072), (345, 19219), (362, 19282), (379, 19393), (401, 19501), (439, 19672), (448, 19711), (476, 19810),

Gene: Deano_49 Start: 35456, Stop: 33423, Start Num: 48
Candidate Starts for Deano_49:
(Start: 48 @35456 has 546 MA's), (68, 35393), (Start: 73 @35345 has 4 MA's), (78, 35321), (92, 35255), (Start: 97 @35219 has 1 MA's), (102, 35186), (114, 35138), (116, 35129), (125, 35072), (134, 35045), (141, 35012), (172, 34856), (173, 34847), (182, 34778), (207, 34706), (212, 34676), (213, 34673), (216, 34643), (217, 34637), (218, 34634), (236, 34547), (251, 34517), (261, 34505), (269, 34496), (287, 34448), (321, 34244), (345, 34124), (373, 33983), (376, 33956), (407, 33812), (408,

33809), (416, 33779), (430, 33716), (441, 33683), (443, 33674), (447, 33653), (461, 33605), (477, 33539),

Gene: DeerParkTS_49 Start: 35212, Stop: 33188, Start Num: 48
Candidate Starts for DeerParkTS_49:
(Start: 48 @35212 has 546 MA's), (87, 35029), (Start: 88 @35026 has 3 MA's), (Start: 97 @34975 has 1 MA's), (102, 34942), (114, 34894), (116, 34885), (125, 34825), (141, 34765), (172, 34609), (173, 34600), (182, 34531), (207, 34465), (212, 34435), (213, 34432), (214, 34420), (216, 34402), (217, 34396), (218, 34393), (282, 34234), (291, 34195), (298, 34153), (321, 34015), (327, 33979), (341, 33913), (343, 33901), (356, 33841), (358, 33832), (370, 33769), (391, 33637), (396, 33628), (402, 33607), (408, 33574), (418, 33535), (430, 33481), (447, 33418), (463, 33361),

Gene: DekHockey33_56 Start: 35211, Stop: 33148, Start Num: 42
Candidate Starts for DekHockey33_56:
(Start: 42 @35211 has 25 MA's), (87, 35016), (Start: 88 @35013 has 3 MA's), (114, 34881), (116, 34872), (141, 34752), (173, 34587), (177, 34548), (182, 34518), (199, 34476), (207, 34452), (212, 34422), (216, 34389), (217, 34383), (218, 34380), (278, 34206), (283, 34194), (291, 34158), (320, 33981), (321, 33978), (327, 33942), (341, 33876), (349, 33837), (351, 33825), (369, 33738), (370, 33732), (376, 33690), (426, 33459), (447, 33378), (464, 33318), (470, 33300), (488, 33207), (491, 33189),

Gene: Deloris_52 Start: 35901, Stop: 33847, Start Num: 48
Candidate Starts for Deloris_52:
(Start: 48 @35901 has 546 MA's), (Start: 71 @35796 has 1 MA's), (Start: 73 @35787 has 4 MA's), (74, 35784), (78, 35763), (Start: 88 @35712 has 3 MA's), (Start: 97 @35661 has 1 MA's), (116, 35571), (124, 35514), (125, 35511), (141, 35451), (172, 35295), (173, 35286), (182, 35217), (197, 35181), (207, 35151), (212, 35121), (213, 35118), (214, 35106), (216, 35088), (217, 35082), (218, 35079), (262, 34935), (280, 34899), (291, 34854), (298, 34812), (321, 34674), (327, 34638), (341, 34572), (343, 34560), (356, 34500), (367, 34446), (370, 34428), (393, 34296), (397, 34287), (402, 34266), (408, 34233), (418, 34194), (419, 34191), (425, 34161), (430, 34140), (432, 34134), (447, 34077), (461, 34029), (463, 34020),

Gene: DeluluLabubu_22 Start: 8021, Stop: 9964, Start Num: 65
Candidate Starts for DeluluLabubu_22:
(62, 8012), (Start: 65 @8021 has 29 MA's), (Start: 73 @8078 has 4 MA's), (90, 8159), (110, 8258), (111, 8267), (112, 8270), (132, 8375), (166, 8525), (172, 8555), (204, 8681), (242, 8888), (311, 9101), (324, 9155), (339, 9227), (344, 9251), (364, 9323), (400, 9533), (401, 9536), (420, 9632), (423, 9641), (480, 9869),

Gene: DelvinSonDorr_52 Start: 35069, Stop: 33015, Start Num: 48
Candidate Starts for DelvinSonDorr_52:
(33, 35102), (Start: 48 @35069 has 546 MA's), (Start: 88 @34883 has 3 MA's), (102, 34799), (114, 34751), (116, 34742), (125, 34682), (141, 34622), (155, 34565), (159, 34526), (168, 34493), (172, 34466), (173, 34457), (178, 34403), (182, 34388), (207, 34316), (212, 34286), (216, 34253), (217, 34247), (218, 34244), (236, 34157), (258, 34103), (278, 34070), (291, 34022), (298, 33980), (318, 33863), (321, 33842), (343, 33728), (356, 33668), (358, 33659), (367, 33614), (370, 33596), (374, 33563), (393, 33461), (396, 33455), (408, 33401), (415, 33374), (416, 33371), (418, 33362), (430, 33308), (447, 33245), (454, 33215), (463, 33188), (472, 33149),

Gene: Dexers_46 Start: 33242, Stop: 35305, Start Num: 48
Candidate Starts for Dexers_46:
(12, 33140), (13, 33146), (Start: 27 @33191 has 1 MA's), (Start: 48 @33242 has 546 MA's), (Start: 61 @33281 has 1 MA's), (Start: 71 @33344 has 1 MA's), (Start: 73 @33353 has 4 MA's), (81, 33404), (82,

33410), (Start: 88 @33443 has 3 MA's), (Start: 97 @33494 has 1 MA's), (116, 33584), (117, 33599), (134, 33671), (141, 33704), (163, 33821), (172, 33863), (182, 33941), (183, 33944), (187, 33965), (207, 34031), (216, 34094), (218, 34103), (278, 34244), (287, 34268), (318, 34457), (327, 34514), (354, 34637), (376, 34763), (378, 34772), (402, 34889), (403, 34901), (407, 34925), (408, 34928), (420, 34976), (436, 35030), (441, 35048), (447, 35078), (463, 35132), (473, 35174), (490, 35252),

Gene: Dhanush_50 Start: 35451, Stop: 33418, Start Num: 48
Candidate Starts for Dhanush_50:
(Start: 48 @35451 has 546 MA's), (68, 35388), (Start: 73 @35340 has 4 MA's), (78, 35316), (92, 35250), (Start: 97 @35214 has 1 MA's), (114, 35133), (116, 35124), (125, 35067), (134, 35040), (141, 35007), (172, 34851), (173, 34842), (182, 34773), (207, 34701), (212, 34671), (213, 34668), (216, 34638), (217, 34632), (218, 34629), (236, 34542), (251, 34512), (261, 34500), (269, 34491), (287, 34443), (321, 34239), (341, 34137), (345, 34119), (373, 33978), (376, 33951), (407, 33807), (408, 33804), (416, 33774), (430, 33711), (441, 33678), (443, 33669), (447, 33648), (461, 33600), (477, 33534),

Gene: Diane_47 Start: 32860, Stop: 34983, Start Num: 48
Candidate Starts for Diane_47:
(19, 32782), (34, 32824), (41, 32842), (Start: 48 @32860 has 546 MA's), (79, 33016), (82, 33037), (Start: 88 @33070 has 3 MA's), (90, 33076), (114, 33202), (116, 33211), (134, 33298), (136, 33310), (141, 33331), (159, 33427), (163, 33448), (173, 33499), (182, 33568), (207, 33676), (212, 33706), (213, 33709), (216, 33739), (268, 33904), (287, 33940), (302, 34060), (321, 34150), (327, 34186), (335, 34213), (358, 34333), (370, 34396), (373, 34411), (378, 34447), (384, 34507), (395, 34534), (398, 34546), (402, 34564), (407, 34600), (410, 34606), (420, 34651), (426, 34672), (436, 34705), (441, 34723), (447, 34753), (450, 34765), (473, 34852), (486, 34921), (490, 34930), (495, 34975),

Gene: Dieselweasel_55 Start: 35909, Stop: 33891, Start Num: 55
Candidate Starts for Dieselweasel_55:
(Start: 55 @35909 has 103 MA's), (Start: 71 @35816 has 1 MA's), (Start: 73 @35807 has 4 MA's), (78, 35783), (Start: 88 @35732 has 3 MA's), (Start: 97 @35681 has 1 MA's), (114, 35600), (116, 35591), (141, 35471), (156, 35411), (159, 35375), (172, 35315), (182, 35237), (207, 35165), (212, 35135), (216, 35102), (217, 35096), (218, 35093), (234, 35012), (242, 34982), (287, 34928), (312, 34757), (333, 34661), (341, 34619), (345, 34601), (355, 34553), (358, 34541), (369, 34484), (370, 34478), (373, 34463), (376, 34436), (383, 34373), (384, 34367), (391, 34343), (418, 34238), (436, 34169), (441, 34151), (443, 34142), (447, 34121), (470, 34043), (477, 34007), (490, 33944),

Gene: Dignity_53 Start: 36269, Stop: 34230, Start Num: 48
Candidate Starts for Dignity_53:
(Start: 48 @36269 has 546 MA's), (74, 36152), (Start: 88 @36080 has 3 MA's), (Start: 97 @36029 has 1 MA's), (100, 36011), (116, 35939), (141, 35819), (172, 35663), (182, 35585), (207, 35513), (212, 35483), (213, 35480), (214, 35468), (216, 35450), (217, 35444), (218, 35441), (280, 35282), (291, 35237), (298, 35195), (321, 35057), (327, 35021), (341, 34955), (343, 34943), (356, 34883), (367, 34829), (370, 34811), (408, 34616), (418, 34577), (419, 34574), (430, 34523), (447, 34460), (461, 34412), (463, 34403), (492, 34262),

Gene: Dinger_40 Start: 31943, Stop: 29898, Start Num: 46
Candidate Starts for Dinger_40:
(Start: 46 @31943 has 38 MA's), (74, 31823), (85, 31760), (87, 31754), (Start: 97 @31700 has 1 MA's), (114, 31619), (116, 31610), (156, 31430), (158, 31397), (159, 31394), (161, 31385), (167, 31364), (172, 31334), (178, 31271), (182, 31256), (184, 31250), (207, 31190), (213, 31157), (216, 31127), (217, 31121), (218, 31118), (259, 30983), (308, 30788), (312, 30770), (340, 30638), (367, 30506), (376, 30446), (385, 30374), (398, 30335), (399, 30332), (402, 30320), (408, 30287), (418, 30248), (436, 30176), (443, 30149), (477, 30014),

Gene: DirtyDunning_49 Start: 35460, Stop: 33430, Start Num: 48
Candidate Starts for DirtyDunning_49:
(Start: 48 @35460 has 546 MA's), (92, 35259), (Start: 97 @35223 has 1 MA's), (102, 35190), (114, 35142), (116, 35133), (125, 35076), (141, 35016), (160, 34914), (172, 34860), (173, 34851), (182, 34782), (185, 34770), (206, 34719), (207, 34710), (212, 34680), (213, 34677), (216, 34647), (217, 34641), (218, 34638), (225, 34605), (287, 34455), (321, 34251), (341, 34149), (345, 34131), (369, 34011), (373, 33990), (376, 33963), (407, 33819), (408, 33816), (416, 33786), (426, 33741), (436, 33708), (441, 33690), (443, 33681), (447, 33660), (477, 33546), (488, 33489),

Gene: Discoknowium_42 Start: 34249, Stop: 32120, Start Num: 48
Candidate Starts for Discoknowium_42:
(Start: 48 @34249 has 546 MA's), (Start: 88 @34063 has 3 MA's), (Start: 97 @34012 has 1 MA's), (114, 33931), (116, 33922), (141, 33802), (148, 33787), (167, 33676), (168, 33673), (172, 33646), (173, 33637), (179, 33577), (182, 33568), (187, 33544), (207, 33457), (212, 33427), (213, 33424), (216, 33394), (217, 33388), (218, 33385), (242, 33274), (291, 33133), (319, 32971), (323, 32938), (334, 32890), (341, 32851), (355, 32782), (367, 32725), (369, 32713), (370, 32707), (376, 32665), (378, 32656), (385, 32593), (410, 32503), (416, 32476), (425, 32434), (436, 32398), (441, 32380), (443, 32371), (491, 32161),

Gene: Dixon_47 Start: 33870, Stop: 31825, Start Num: 48
Candidate Starts for Dixon_47:
(Start: 48 @33870 has 546 MA's), (75, 33744), (87, 33687), (Start: 88 @33684 has 3 MA's), (Start: 97 @33633 has 1 MA's), (102, 33600), (114, 33552), (116, 33543), (121, 33501), (149, 33405), (155, 33366), (160, 33321), (171, 33276), (172, 33267), (178, 33204), (179, 33198), (182, 33189), (183, 33186), (207, 33117), (212, 33087), (213, 33084), (216, 33054), (217, 33048), (218, 33045), (291, 32847), (321, 32664), (327, 32628), (341, 32562), (363, 32463), (369, 32424), (376, 32376), (378, 32367), (392, 32283), (416, 32181), (426, 32136), (443, 32076), (447, 32055), (451, 32037), (491, 31866),

Gene: DontArgue_48 Start: 34338, Stop: 32290, Start Num: 35
Candidate Starts for DontArgue_48:
(Start: 35 @34338 has 17 MA's), (78, 34203), (102, 34068), (114, 34020), (116, 34011), (141, 33894), (172, 33738), (173, 33729), (182, 33660), (185, 33648), (197, 33618), (207, 33588), (212, 33558), (216, 33525), (217, 33519), (218, 33516), (234, 33435), (287, 33315), (288, 33312), (321, 33111), (345, 32991), (355, 32940), (369, 32871), (370, 32865), (376, 32823), (378, 32814), (384, 32754), (402, 32709), (407, 32679), (408, 32676), (410, 32673), (419, 32634), (426, 32601), (447, 32520), (477, 32406), (488, 32349),

Gene: Dorin_38 Start: 16985, Stop: 18946, Start Num: 63
Candidate Starts for Dorin_38:
(60, 16979), (Start: 63 @16985 has 3 MA's), (Start: 64 @16988 has 81 MA's), (90, 17117), (102, 17189), (108, 17207), (110, 17216), (111, 17225), (112, 17228), (132, 17333), (157, 17447), (162, 17483), (172, 17516), (186, 17609), (204, 17642), (210, 17669), (211, 17687), (213, 17693), (215, 17720), (221, 17753), (245, 17855), (290, 17912), (301, 17999), (310, 18056), (317, 18077), (336, 18173), (339, 18188), (341, 18197), (348, 18233), (377, 18371), (389, 18461), (394, 18470), (442, 18671), (453, 18722), (473, 18791), (476, 18803), (480, 18824), (490, 18875), (493, 18905),

Gene: Dorothea_53 Start: 34833, Stop: 32809, Start Num: 48
Candidate Starts for Dorothea_53:
(33, 34866), (Start: 48 @34833 has 546 MA's), (Start: 88 @34647 has 3 MA's), (102, 34563), (114, 34515), (116, 34506), (125, 34446), (141, 34386), (155, 34329), (159, 34290), (168, 34257), (172, 34230), (173, 34221), (178, 34167), (182, 34152), (207, 34080), (212, 34050), (216, 34017), (217,

34011), (218, 34008), (291, 33816), (318, 33657), (321, 33636), (343, 33522), (356, 33462), (358, 33453), (367, 33408), (370, 33390), (374, 33357), (393, 33255), (396, 33249), (408, 33195), (415, 33168), (416, 33165), (418, 33156), (430, 33102), (447, 33039), (454, 33009), (463, 32982),

Gene: Drake55_53 Start: 36169, Stop: 34133, Start Num: 48
Candidate Starts for Drake55_53:
(Start: 48 @36169 has 546 MA's), (Start: 61 @36130 has 1 MA's), (Start: 73 @36058 has 4 MA's), (Start: 88 @35983 has 3 MA's), (Start: 97 @35932 has 1 MA's), (102, 35899), (116, 35842), (125, 35782), (134, 35755), (141, 35722), (172, 35566), (182, 35488), (185, 35476), (204, 35434), (207, 35416), (212, 35386), (213, 35383), (214, 35371), (216, 35353), (217, 35347), (218, 35344), (280, 35185), (291, 35140), (298, 35098), (321, 34960), (327, 34924), (341, 34858), (343, 34846), (356, 34786), (367, 34732), (370, 34714), (378, 34663), (391, 34582), (396, 34573), (408, 34519), (416, 34489), (418, 34480), (430, 34426), (447, 34363), (461, 34315), (463, 34306),

Gene: Drake94_47 Start: 34399, Stop: 32360, Start Num: 35
Candidate Starts for Drake94_47:
(Start: 35 @34399 has 17 MA's), (78, 34264), (Start: 97 @34162 has 1 MA's), (102, 34129), (114, 34081), (116, 34072), (125, 34015), (141, 33955), (148, 33940), (172, 33799), (182, 33721), (185, 33709), (207, 33649), (212, 33619), (216, 33586), (217, 33580), (218, 33577), (225, 33544), (278, 33409), (287, 33385), (321, 33181), (341, 33079), (345, 33061), (355, 33010), (369, 32941), (370, 32935), (376, 32893), (378, 32884), (384, 32824), (407, 32749), (408, 32746), (410, 32743), (419, 32704), (430, 32653), (432, 32647), (447, 32590), (477, 32476), (488, 32419),

Gene: DreamTeam1_50 Start: 35411, Stop: 33372, Start Num: 48
Candidate Starts for DreamTeam1_50:
(11, 35519), (Start: 48 @35411 has 546 MA's), (Start: 97 @35171 has 1 MA's), (116, 35081), (117, 35066), (121, 35039), (125, 35021), (126, 35018), (134, 34994), (141, 34961), (172, 34805), (182, 34727), (185, 34715), (207, 34661), (214, 34616), (216, 34598), (217, 34592), (218, 34589), (278, 34427), (280, 34424), (291, 34379), (301, 34304), (308, 34253), (321, 34199), (341, 34097), (356, 34025), (358, 34016), (367, 33971), (370, 33953), (376, 33911), (408, 33758), (426, 33683), (447, 33602), (461, 33554),

Gene: DroogsArmy_46 Start: 36386, Stop: 34353, Start Num: 48
Candidate Starts for DroogsArmy_46:
(Start: 48 @36386 has 546 MA's), (Start: 88 @36200 has 3 MA's), (102, 36116), (116, 36059), (141, 35942), (155, 35885), (168, 35813), (172, 35786), (173, 35777), (182, 35708), (183, 35705), (185, 35696), (207, 35636), (212, 35606), (213, 35603), (216, 35573), (217, 35567), (218, 35564), (236, 35477), (287, 35390), (321, 35186), (327, 35150), (334, 35123), (338, 35099), (340, 35090), (345, 35066), (356, 35012), (358, 35003), (373, 34925), (378, 34889), (402, 34772), (408, 34739), (416, 34709), (430, 34646), (444, 34601), (466, 34520), (467, 34517), (477, 34469), (488, 34412), (491, 34394),

Gene: DropBear_51 Start: 35641, Stop: 33617, Start Num: 48
Candidate Starts for DropBear_51:
(Start: 48 @35641 has 546 MA's), (74, 35527), (92, 35440), (Start: 97 @35404 has 1 MA's), (102, 35371), (114, 35323), (116, 35314), (141, 35194), (168, 35065), (172, 35038), (173, 35029), (182, 34960), (188, 34939), (190, 34936), (207, 34894), (212, 34864), (214, 34849), (216, 34831), (217, 34825), (218, 34822), (239, 34717), (242, 34711), (287, 34654), (294, 34615), (321, 34450), (327, 34414), (333, 34390), (341, 34348), (345, 34330), (369, 34210), (370, 34204), (373, 34189), (376, 34162), (403, 34024), (419, 33961), (443, 33868), (447, 33847), (471, 33766), (477, 33733),

Gene: Druantia_50 Start: 35451, Stop: 33418, Start Num: 48
Candidate Starts for Druantia_50:

(Start: 48 @35451 has 546 MA's), (68, 35388), (Start: 73 @35340 has 4 MA's), (78, 35316), (92, 35250), (Start: 97 @35214 has 1 MA's), (102, 35181), (114, 35133), (116, 35124), (125, 35067), (134, 35040), (141, 35007), (172, 34851), (173, 34842), (182, 34773), (207, 34701), (212, 34671), (213, 34668), (216, 34638), (217, 34632), (218, 34629), (236, 34542), (247, 34518), (251, 34512), (261, 34500), (269, 34491), (287, 34443), (320, 34242), (321, 34239), (341, 34137), (345, 34119), (373, 33978), (376, 33951), (407, 33807), (408, 33804), (416, 33774), (430, 33711), (441, 33678), (443, 33669), (447, 33648), (461, 33600), (477, 33534),

Gene: Dublin_42 Start: 34245, Stop: 32155, Start Num: 48
Candidate Starts for Dublin_42:
(Start: 48 @34245 has 546 MA's), (74, 34131), (Start: 88 @34059 has 3 MA's), (100, 33990), (114, 33927), (116, 33918), (141, 33798), (148, 33783), (167, 33672), (171, 33651), (172, 33642), (173, 33633), (182, 33564), (185, 33552), (204, 33471), (207, 33453), (212, 33423), (213, 33420), (216, 33390), (217, 33384), (218, 33381), (242, 33270), (291, 33168), (294, 33153), (319, 33006), (323, 32973), (334, 32925), (341, 32886), (355, 32817), (367, 32760), (369, 32748), (370, 32742), (376, 32700), (378, 32691), (407, 32544), (416, 32511), (425, 32469), (436, 32433), (441, 32415), (443, 32406), (447, 32385), (491, 32196),

Gene: DudeLittle_50 Start: 35856, Stop: 33796, Start Num: 48
Candidate Starts for DudeLittle_50:
(Start: 48 @35856 has 546 MA's), (59, 35820), (Start: 73 @35745 has 4 MA's), (74, 35742), (Start: 88 @35670 has 3 MA's), (Start: 97 @35619 has 1 MA's), (100, 35601), (109, 35565), (116, 35529), (141, 35409), (171, 35262), (172, 35253), (182, 35175), (207, 35103), (212, 35073), (213, 35070), (214, 35058), (216, 35040), (217, 35034), (218, 35031), (244, 34920), (280, 34848), (291, 34803), (298, 34761), (321, 34623), (327, 34587), (341, 34521), (356, 34449), (367, 34395), (370, 34377), (408, 34182), (418, 34143), (419, 34140), (430, 34089), (447, 34026), (461, 33978), (463, 33969), (492, 33828),

Gene: Duplo_53 Start: 35599, Stop: 33518, Start Num: 48
Candidate Starts for Duplo_53:
(Start: 48 @35599 has 546 MA's), (Start: 71 @35494 has 1 MA's), (Start: 73 @35485 has 4 MA's), (Start: 88 @35410 has 3 MA's), (102, 35326), (114, 35278), (116, 35269), (125, 35209), (149, 35131), (155, 35092), (172, 34993), (178, 34930), (182, 34915), (207, 34819), (212, 34789), (213, 34786), (216, 34756), (217, 34750), (218, 34747), (236, 34660), (273, 34600), (278, 34585), (291, 34537), (321, 34357), (341, 34255), (343, 34243), (356, 34183), (358, 34174), (367, 34129), (369, 34117), (373, 34096), (376, 34069), (384, 34000), (408, 33904), (415, 33877), (418, 33865), (426, 33829), (447, 33748), (458, 33706),

Gene: DustyMartin_53 Start: 35260, Stop: 33179, Start Num: 35
Candidate Starts for DustyMartin_53:
(Start: 35 @35260 has 17 MA's), (44, 35239), (Start: 73 @35119 has 4 MA's), (74, 35116), (78, 35095), (Start: 97 @34993 has 1 MA's), (102, 34960), (114, 34912), (116, 34903), (125, 34846), (141, 34786), (148, 34771), (159, 34690), (172, 34630), (182, 34552), (185, 34540), (206, 34489), (207, 34480), (212, 34450), (216, 34417), (217, 34411), (218, 34408), (273, 34243), (280, 34225), (291, 34180), (298, 34138), (321, 34000), (341, 33898), (345, 33880), (355, 33829), (369, 33760), (370, 33754), (373, 33739), (376, 33712), (378, 33703), (384, 33643), (407, 33568), (408, 33565), (410, 33562), (419, 33523), (430, 33472), (432, 33466), (447, 33409), (477, 33295), (488, 33238),

Gene: Dwayne_47 Start: 31992, Stop: 34082, Start Num: 48
Candidate Starts for Dwayne_47:
(16, 31911), (Start: 48 @31992 has 546 MA's), (Start: 61 @32037 has 1 MA's), (79, 32148), (82, 32169), (Start: 88 @32202 has 3 MA's), (90, 32208), (Start: 97 @32253 has 1 MA's), (114, 32334), (116, 32343), (131, 32421), (141, 32463), (156, 32523), (158, 32556), (163, 32580), (172, 32622),

(182, 32700), (183, 32703), (200, 32760), (207, 32790), (216, 32853), (218, 32862), (229, 32913), (248, 32982), (283, 33027), (287, 33039), (305, 33171), (321, 33249), (323, 33264), (327, 33285), (338, 33336), (370, 33495), (371, 33501), (373, 33510), (378, 33546), (384, 33606), (395, 33633), (398, 33645), (399, 33648), (407, 33699), (410, 33705), (426, 33771), (436, 33804), (441, 33822), (447, 33852), (450, 33864), (457, 33891), (473, 33951), (488, 34023),

Gene: EGole_44 Start: 20538, Stop: 22481, Start Num: 64
Candidate Starts for EGole_44:
(Start: 64 @20538 has 81 MA's), (Start: 67 @20544 has 1 MA's), (83, 20646), (86, 20667), (90, 20676), (108, 20766), (110, 20775), (111, 20784), (112, 20787), (132, 20892), (221, 21312), (239, 21402), (245, 21414), (314, 21627), (345, 21774), (348, 21792), (379, 21948), (401, 22056), (439, 22227), (448, 22266), (476, 22365),

Gene: ELB20_47 Start: 33380, Stop: 35494, Start Num: 48
Candidate Starts for ELB20_47:
(Start: 48 @33380 has 546 MA's), (Start: 88 @33581 has 3 MA's), (Start: 97 @33632 has 1 MA's), (114, 33713), (116, 33722), (133, 33806), (134, 33809), (136, 33821), (141, 33842), (163, 33959), (168, 33974), (172, 34001), (182, 34079), (207, 34187), (212, 34217), (213, 34220), (216, 34250), (277, 34424), (287, 34451), (296, 34508), (298, 34517), (302, 34571), (305, 34583), (309, 34610), (321, 34661), (327, 34697), (335, 34724), (337, 34742), (341, 34763), (370, 34907), (371, 34913), (373, 34922), (378, 34958), (384, 35018), (388, 35036), (396, 35048), (410, 35117), (420, 35162), (426, 35183), (436, 35216), (441, 35234), (450, 35276), (473, 35363), (486, 35432), (495, 35486),

Gene: EZMoney23_49 Start: 35614, Stop: 33581, Start Num: 48
Candidate Starts for EZMoney23_49:
(Start: 48 @35614 has 546 MA's), (Start: 73 @35503 has 4 MA's), (Start: 88 @35428 has 3 MA's), (Start: 97 @35377 has 1 MA's), (114, 35296), (116, 35287), (125, 35227), (141, 35167), (172, 35011), (173, 35002), (182, 34933), (207, 34861), (212, 34831), (213, 34828), (216, 34798), (217, 34792), (218, 34789), (280, 34633), (291, 34588), (321, 34408), (327, 34372), (341, 34306), (343, 34294), (356, 34234), (370, 34162), (391, 34030), (396, 34021), (408, 33967), (418, 33928), (430, 33874), (432, 33868), (447, 33811), (461, 33763), (463, 33754),

Gene: Eagle_50 Start: 35473, Stop: 33440, Start Num: 48
Candidate Starts for Eagle_50:
(Start: 48 @35473 has 546 MA's), (68, 35410), (Start: 73 @35362 has 4 MA's), (78, 35338), (92, 35272), (Start: 97 @35236 has 1 MA's), (102, 35203), (114, 35155), (116, 35146), (125, 35089), (134, 35062), (141, 35029), (172, 34873), (173, 34864), (182, 34795), (207, 34723), (212, 34693), (213, 34690), (216, 34660), (217, 34654), (218, 34651), (236, 34564), (251, 34534), (261, 34522), (269, 34513), (287, 34465), (321, 34261), (341, 34159), (345, 34141), (373, 34000), (376, 33973), (407, 33829), (408, 33826), (416, 33796), (430, 33733), (441, 33700), (443, 33691), (447, 33670), (461, 33622), (477, 33556),

Gene: EagleEye_53 Start: 35340, Stop: 33298, Start Num: 48
Candidate Starts for EagleEye_53:
(Start: 48 @35340 has 546 MA's), (87, 35157), (114, 35022), (116, 35013), (117, 34998), (125, 34953), (126, 34950), (141, 34893), (172, 34737), (182, 34659), (207, 34593), (212, 34563), (213, 34560), (216, 34530), (217, 34524), (218, 34521), (257, 34398), (278, 34356), (291, 34308), (294, 34293), (298, 34266), (321, 34128), (327, 34092), (333, 34068), (343, 34014), (355, 33957), (356, 33954), (358, 33945), (367, 33900), (370, 33882), (374, 33849), (376, 33840), (408, 33687), (416, 33657), (430, 33591), (447, 33528),

Gene: Eaglepride_50 Start: 35243, Stop: 33159, Start Num: 35
Candidate Starts for Eaglepride_50:

(8, 35339), (Start: 35 @35243 has 17 MA's), (40, 35231), (68, 35144), (Start: 73 @35096 has 4 MA's), (78, 35072), (Start: 97 @34970 has 1 MA's), (102, 34937), (114, 34889), (116, 34880), (125, 34823), (141, 34763), (148, 34748), (159, 34667), (172, 34607), (173, 34598), (182, 34529), (185, 34517), (207, 34457), (212, 34427), (216, 34394), (217, 34388), (218, 34385), (225, 34352), (280, 34205), (291, 34160), (321, 33980), (341, 33878), (345, 33860), (355, 33809), (369, 33740), (370, 33734), (373, 33719), (376, 33692), (378, 33683), (384, 33623), (407, 33548), (408, 33545), (410, 33542), (419, 33503), (430, 33452), (432, 33446), (447, 33389), (488, 33218),

Gene: Eapen_50 Start: 35443, Stop: 33410, Start Num: 48
Candidate Starts for Eapen_50:
(Start: 48 @35443 has 546 MA's), (68, 35380), (Start: 73 @35332 has 4 MA's), (78, 35308), (92, 35242), (Start: 97 @35206 has 1 MA's), (102, 35173), (114, 35125), (116, 35116), (125, 35059), (134, 35032), (141, 34999), (172, 34843), (173, 34834), (182, 34765), (207, 34693), (212, 34663), (213, 34660), (216, 34630), (217, 34624), (218, 34621), (236, 34534), (251, 34504), (261, 34492), (269, 34483), (287, 34435), (321, 34231), (341, 34129), (345, 34111), (373, 33970), (376, 33943), (407, 33799), (408, 33796), (416, 33766), (430, 33703), (441, 33670), (443, 33661), (447, 33640), (461, 33592), (477, 33526),

Gene: Ebony_51 Start: 34695, Stop: 32857, Start Num: 88
Candidate Starts for Ebony_51:
(28, 34929), (43, 34896), (Start: 52 @34878 has 24 MA's), (Start: 73 @34770 has 4 MA's), (Start: 88 @34695 has 3 MA's), (114, 34563), (116, 34554), (141, 34434), (172, 34278), (177, 34230), (181, 34203), (182, 34200), (185, 34188), (201, 34155), (207, 34134), (214, 34089), (216, 34071), (217, 34065), (218, 34062), (257, 33942), (291, 33867), (294, 33852), (321, 33687), (333, 33627), (341, 33585), (345, 33567), (360, 33495), (370, 33441), (373, 33426), (374, 33408), (391, 33309), (408, 33246), (418, 33207), (441, 33117), (447, 33087), (461, 33039),

Gene: Echild_51 Start: 35166, Stop: 33127, Start Num: 48
Candidate Starts for Echild_51:
(6, 35307), (7, 35301), (Start: 48 @35166 has 546 MA's), (Start: 71 @35061 has 1 MA's), (Start: 73 @35052 has 4 MA's), (74, 35049), (78, 35028), (Start: 97 @34926 has 1 MA's), (116, 34836), (117, 34821), (141, 34716), (172, 34560), (182, 34482), (207, 34410), (212, 34380), (213, 34377), (214, 34365), (216, 34347), (217, 34341), (218, 34338), (280, 34179), (291, 34134), (298, 34092), (321, 33954), (327, 33918), (341, 33852), (343, 33840), (356, 33780), (367, 33726), (370, 33708), (408, 33513), (418, 33474), (419, 33471), (430, 33420), (432, 33414), (447, 33357), (461, 33309), (463, 33300),

Gene: Eddasa_48 Start: 31960, Stop: 34050, Start Num: 48
Candidate Starts for Eddasa_48:
(15, 31876), (17, 31882), (31, 31918), (34, 31924), (Start: 48 @31960 has 546 MA's), (78, 32101), (79, 32116), (82, 32137), (Start: 88 @32170 has 3 MA's), (90, 32176), (Start: 97 @32221 has 1 MA's), (114, 32302), (116, 32311), (131, 32389), (134, 32398), (141, 32431), (158, 32524), (163, 32548), (172, 32590), (182, 32668), (183, 32671), (207, 32758), (216, 32821), (218, 32830), (283, 32995), (287, 33007), (309, 33166), (321, 33217), (323, 33232), (327, 33253), (341, 33319), (370, 33463), (371, 33469), (373, 33478), (378, 33514), (382, 33562), (384, 33574), (395, 33601), (398, 33613), (407, 33667), (420, 33718), (426, 33739), (436, 33772), (441, 33790), (447, 33820), (450, 33832), (457, 33859), (473, 33919), (486, 33988), (488, 33991), (495, 34042),

Gene: Edison31_48 Start: 35191, Stop: 33116, Start Num: 35
Candidate Starts for Edison31_48:
(Start: 35 @35191 has 17 MA's), (Start: 73 @35050 has 4 MA's), (74, 35047), (78, 35026), (Start: 97 @34924 has 1 MA's), (102, 34891), (114, 34843), (116, 34834), (125, 34777), (141, 34717), (148, 34702), (172, 34561), (182, 34483), (185, 34471), (206, 34420), (207, 34411), (212, 34381), (216,

34348), (217, 34342), (218, 34339), (236, 34252), (288, 34138), (291, 34117), (298, 34075), (321, 33937), (341, 33835), (345, 33817), (355, 33766), (369, 33697), (370, 33691), (373, 33676), (376, 33649), (384, 33580), (407, 33505), (408, 33502), (410, 33499), (419, 33460), (430, 33409), (432, 33403), (447, 33346), (477, 33232), (488, 33175),

Gene: EdogawaKiddo_51 Start: 35719, Stop: 33680, Start Num: 48
Candidate Starts for EdogawaKiddo_51:
(Start: 48 @35719 has 546 MA's), (Start: 73 @35605 has 4 MA's), (75, 35590), (78, 35581), (116, 35389), (125, 35329), (126, 35326), (141, 35269), (171, 35122), (172, 35113), (182, 35035), (185, 35023), (207, 34969), (212, 34939), (214, 34924), (216, 34906), (217, 34900), (218, 34897), (280, 34732), (291, 34687), (321, 34507), (341, 34405), (356, 34333), (374, 34228), (376, 34219), (408, 34066), (416, 34036), (430, 33973), (436, 33958), (447, 33910),

Gene: Eidsmoe_51 Start: 35734, Stop: 33695, Start Num: 48
Candidate Starts for Eidsmoe_51:
(Start: 48 @35734 has 546 MA's), (Start: 73 @35620 has 4 MA's), (75, 35605), (78, 35596), (Start: 97 @35494 has 1 MA's), (116, 35404), (125, 35344), (141, 35284), (171, 35137), (172, 35128), (182, 35050), (185, 35038), (206, 34993), (207, 34984), (212, 34954), (214, 34939), (216, 34921), (217, 34915), (218, 34912), (280, 34747), (288, 34723), (291, 34702), (321, 34522), (343, 34408), (356, 34348), (374, 34243), (376, 34234), (408, 34081), (416, 34051), (430, 33988), (447, 33925),

Gene: Ejemplo_46 Start: 31944, Stop: 34034, Start Num: 48
Candidate Starts for Ejemplo_46:
(31, 31902), (34, 31908), (Start: 48 @31944 has 546 MA's), (Start: 73 @32061 has 4 MA's), (79, 32100), (82, 32121), (Start: 88 @32154 has 3 MA's), (Start: 97 @32205 has 1 MA's), (114, 32286), (116, 32295), (131, 32373), (141, 32415), (156, 32475), (158, 32508), (163, 32532), (172, 32574), (182, 32652), (183, 32655), (200, 32712), (207, 32742), (216, 32805), (218, 32814), (229, 32865), (248, 32934), (283, 32979), (287, 32991), (305, 33123), (321, 33201), (323, 33216), (327, 33237), (370, 33447), (371, 33453), (373, 33462), (378, 33498), (384, 33558), (395, 33585), (398, 33597), (399, 33600), (407, 33651), (410, 33657), (426, 33723), (436, 33756), (441, 33774), (447, 33804), (450, 33816), (457, 33843), (473, 33903), (488, 33975),

Gene: ElGato_48 Start: 32882, Stop: 34945, Start Num: 48
Candidate Starts for ElGato_48:
(12, 32780), (13, 32786), (Start: 27 @32831 has 1 MA's), (Start: 48 @32882 has 546 MA's), (Start: 61 @32921 has 1 MA's), (Start: 71 @32984 has 1 MA's), (Start: 73 @32993 has 4 MA's), (81, 33044), (82, 33050), (Start: 88 @33083 has 3 MA's), (Start: 97 @33134 has 1 MA's), (116, 33224), (117, 33239), (134, 33311), (141, 33344), (163, 33461), (172, 33503), (173, 33512), (182, 33581), (183, 33584), (187, 33605), (207, 33671), (216, 33734), (218, 33743), (278, 33884), (287, 33908), (318, 34097), (327, 34154), (354, 34277), (376, 34403), (378, 34412), (402, 34529), (403, 34541), (407, 34565), (408, 34568), (420, 34616), (436, 34670), (441, 34688), (447, 34718), (463, 34772), (473, 34814), (490, 34892), (495, 34937),

Gene: ElTiger69_45 Start: 34331, Stop: 32295, Start Num: 48
Candidate Starts for ElTiger69_45:
(Start: 48 @34331 has 546 MA's), (Start: 88 @34148 has 3 MA's), (Start: 97 @34097 has 1 MA's), (102, 34064), (114, 34016), (116, 34007), (121, 33965), (149, 33869), (155, 33830), (160, 33785), (171, 33740), (172, 33731), (178, 33668), (179, 33662), (182, 33653), (207, 33581), (212, 33551), (214, 33536), (216, 33518), (217, 33512), (218, 33509), (291, 33308), (298, 33266), (319, 33146), (323, 33113), (334, 33065), (341, 33026), (355, 32957), (367, 32900), (369, 32888), (370, 32882), (376, 32840), (378, 32831), (385, 32768), (410, 32678), (416, 32651), (425, 32609), (436, 32573), (441, 32555), (443, 32546), (491, 32336),

Gene: Elephantoon_50 Start: 35116, Stop: 33077, Start Num: 48
Candidate Starts for Elephantoon_50:
(Start: 48 @35116 has 546 MA's), (Start: 73 @35002 has 4 MA's), (75, 34987), (78, 34978), (102, 34843), (116, 34786), (125, 34726), (126, 34723), (141, 34666), (172, 34510), (182, 34432), (185, 34420), (207, 34366), (212, 34336), (214, 34321), (216, 34303), (217, 34297), (218, 34294), (280, 34129), (291, 34084), (308, 33958), (321, 33904), (327, 33868), (356, 33730), (374, 33625), (376, 33616), (408, 33463), (418, 33424), (430, 33370), (447, 33307),

Gene: Eliot67_40 Start: 18298, Stop: 20241, Start Num: 64
Candidate Starts for Eliot67_40:
(Start: 64 @18298 has 81 MA's), (Start: 67 @18304 has 1 MA's), (83, 18406), (86, 18427), (90, 18436), (108, 18526), (110, 18535), (111, 18544), (112, 18547), (132, 18652), (204, 18961), (221, 19072), (239, 19162), (245, 19174), (314, 19387), (345, 19534), (362, 19597), (377, 19690), (379, 19708), (389, 19780), (401, 19816), (439, 19987), (448, 20026), (476, 20125),

Gene: Elle_50 Start: 33025, Stop: 30962, Start Num: 42
Candidate Starts for Elle_50:
(Start: 42 @33025 has 25 MA's), (87, 32830), (114, 32695), (116, 32686), (141, 32566), (158, 32473), (173, 32401), (177, 32362), (182, 32332), (207, 32266), (213, 32233), (216, 32203), (217, 32197), (218, 32194), (270, 32047), (283, 32008), (291, 31972), (320, 31795), (321, 31792), (327, 31756), (341, 31690), (349, 31651), (355, 31621), (369, 31552), (370, 31546), (376, 31504), (391, 31414), (408, 31351), (415, 31324), (426, 31273), (447, 31192), (464, 31132), (488, 31021), (491, 31003),

Gene: Elmer_47 Start: 20431, Stop: 22374, Start Num: 64
Candidate Starts for Elmer_47:
(Start: 52 @20389 has 24 MA's), (57, 20401), (58, 20407), (Start: 64 @20431 has 81 MA's), (66, 20434), (90, 20566), (102, 20638), (110, 20665), (112, 20677), (132, 20782), (150, 20839), (153, 20872), (221, 21202), (232, 21253), (239, 21292), (245, 21304), (305, 21481), (314, 21517), (345, 21664), (379, 21838), (382, 21874), (400, 21943), (401, 21946), (421, 22048), (434, 22099), (439, 22117), (442, 22123), (448, 22156), (476, 22255),

Gene: Emaanora_50 Start: 31950, Stop: 34040, Start Num: 48
Candidate Starts for Emaanora_50:
(16, 31869), (Start: 48 @31950 has 546 MA's), (Start: 61 @31995 has 1 MA's), (79, 32106), (82, 32127), (Start: 88 @32160 has 3 MA's), (90, 32166), (Start: 97 @32211 has 1 MA's), (114, 32292), (116, 32301), (131, 32379), (141, 32421), (156, 32481), (158, 32514), (163, 32538), (172, 32580), (182, 32658), (183, 32661), (200, 32718), (207, 32748), (216, 32811), (218, 32820), (229, 32871), (248, 32940), (283, 32985), (287, 32997), (305, 33129), (321, 33207), (323, 33222), (327, 33243), (338, 33294), (370, 33453), (371, 33459), (373, 33468), (378, 33504), (384, 33564), (395, 33591), (398, 33603), (399, 33606), (407, 33657), (410, 33663), (426, 33729), (436, 33762), (441, 33780), (447, 33810), (450, 33822), (457, 33849), (473, 33909), (488, 33981),

Gene: Emma1919_24 Start: 8716, Stop: 10659, Start Num: 65
Candidate Starts for Emma1919_24:
(62, 8707), (Start: 65 @8716 has 29 MA's), (Start: 73 @8773 has 4 MA's), (90, 8854), (110, 8953), (111, 8962), (112, 8965), (132, 9070), (166, 9220), (172, 9250), (204, 9376), (242, 9583), (311, 9796), (324, 9850), (339, 9922), (344, 9946), (364, 10018), (400, 10228), (401, 10231), (420, 10327), (423, 10336), (480, 10564),

Gene: EmyBug_50 Start: 35736, Stop: 33697, Start Num: 48
Candidate Starts for EmyBug_50:
(Start: 48 @35736 has 546 MA's), (Start: 73 @35622 has 4 MA's), (75, 35607), (78, 35598), (Start: 97 @35496 has 1 MA's), (116, 35406), (125, 35346), (141, 35286), (171, 35139), (172, 35130), (182,

35052), (185, 35040), (206, 34995), (207, 34986), (212, 34956), (214, 34941), (216, 34923), (217, 34917), (218, 34914), (280, 34749), (288, 34725), (291, 34704), (321, 34524), (343, 34410), (356, 34350), (374, 34245), (376, 34236), (408, 34083), (416, 34053), (430, 33990), (447, 33927),

Gene: EnochSoames_50 Start: 31955, Stop: 34045, Start Num: 48
Candidate Starts for EnochSoames_50:
(15, 31871), (17, 31877), (31, 31913), (34, 31919), (Start: 48 @31955 has 546 MA's), (79, 32111), (82, 32132), (Start: 88 @32165 has 3 MA's), (90, 32171), (Start: 97 @32216 has 1 MA's), (114, 32297), (116, 32306), (131, 32384), (134, 32393), (141, 32426), (158, 32519), (163, 32543), (172, 32585), (182, 32663), (183, 32666), (207, 32753), (216, 32816), (218, 32825), (278, 32978), (283, 32990), (287, 33002), (309, 33161), (321, 33212), (323, 33227), (327, 33248), (341, 33314), (370, 33458), (371, 33464), (373, 33473), (378, 33509), (384, 33569), (395, 33596), (398, 33608), (408, 33665), (410, 33668), (420, 33713), (426, 33734), (436, 33767), (441, 33785), (447, 33815), (450, 33827), (457, 33854), (473, 33914), (486, 33983), (488, 33986), (495, 34037),

Gene: Enygma_42 Start: 18933, Stop: 20873, Start Num: 64
Candidate Starts for Enygma_42:
(Start: 64 @18933 has 81 MA's), (90, 19065), (96, 19101), (102, 19137), (110, 19164), (112, 19176), (132, 19281), (220, 19695), (221, 19701), (232, 19752), (239, 19791), (245, 19803), (293, 19881), (305, 19980), (314, 20016), (345, 20163), (379, 20337), (382, 20373), (400, 20442), (401, 20445), (439, 20616), (476, 20754),

Gene: EpicPhail_55 Start: 35910, Stop: 33892, Start Num: 55
Candidate Starts for EpicPhail_55:
(Start: 55 @35910 has 103 MA's), (Start: 71 @35817 has 1 MA's), (Start: 73 @35808 has 4 MA's), (78, 35784), (Start: 88 @35733 has 3 MA's), (Start: 97 @35682 has 1 MA's), (114, 35601), (116, 35592), (141, 35472), (156, 35412), (159, 35376), (172, 35316), (182, 35238), (207, 35166), (212, 35136), (216, 35103), (217, 35097), (218, 35094), (234, 35013), (242, 34983), (287, 34929), (312, 34758), (333, 34662), (341, 34620), (345, 34602), (355, 34554), (358, 34542), (369, 34485), (370, 34479), (373, 34464), (376, 34437), (383, 34374), (384, 34368), (391, 34344), (418, 34239), (436, 34170), (441, 34152), (443, 34143), (447, 34122), (470, 34044), (477, 34008), (490, 33945),

Gene: Epsocamisio_54 Start: 34454, Stop: 32391, Start Num: 42
Candidate Starts for Epsocamisio_54:
(Start: 42 @34454 has 25 MA's), (87, 34259), (Start: 88 @34256 has 3 MA's), (114, 34124), (116, 34115), (141, 33995), (173, 33830), (177, 33791), (182, 33761), (199, 33719), (207, 33695), (212, 33665), (216, 33632), (217, 33626), (218, 33623), (278, 33449), (283, 33437), (291, 33401), (320, 33224), (321, 33221), (327, 33185), (341, 33119), (349, 33080), (351, 33068), (369, 32981), (370, 32975), (376, 32933), (426, 32702), (447, 32621), (464, 32561), (470, 32543), (488, 32450), (491, 32432),

Gene: Equemioh13_52 Start: 35992, Stop: 33956, Start Num: 48
Candidate Starts for Equemioh13_52:
(Start: 48 @35992 has 546 MA's), (Start: 61 @35953 has 1 MA's), (Start: 73 @35881 has 4 MA's), (Start: 88 @35806 has 3 MA's), (Start: 97 @35755 has 1 MA's), (102, 35722), (116, 35665), (125, 35605), (134, 35578), (141, 35545), (172, 35389), (182, 35311), (185, 35299), (204, 35257), (207, 35239), (212, 35209), (213, 35206), (214, 35194), (216, 35176), (217, 35170), (218, 35167), (280, 35008), (291, 34963), (298, 34921), (321, 34783), (327, 34747), (341, 34681), (343, 34669), (367, 34555), (370, 34537), (378, 34486), (391, 34405), (396, 34396), (408, 34342), (416, 34312), (418, 34303), (430, 34249), (447, 34186), (461, 34138), (463, 34129),

Gene: EricB_53 Start: 34807, Stop: 32783, Start Num: 48
Candidate Starts for EricB_53:

(33, 34840), (Start: 48 @34807 has 546 MA's), (Start: 88 @34621 has 3 MA's), (102, 34537), (114, 34489), (116, 34480), (125, 34420), (141, 34360), (155, 34303), (159, 34264), (168, 34231), (172, 34204), (173, 34195), (178, 34141), (182, 34126), (207, 34054), (212, 34024), (216, 33991), (217, 33985), (218, 33982), (291, 33790), (318, 33631), (321, 33610), (343, 33496), (356, 33436), (358, 33427), (367, 33382), (370, 33364), (374, 33331), (393, 33229), (396, 33223), (408, 33169), (415, 33142), (416, 33139), (418, 33130), (430, 33076), (447, 33013), (454, 32983), (463, 32956),

Gene: Erik_41 Start: 32006, Stop: 29961, Start Num: 46
Candidate Starts for Erik_41:
(Start: 46 @32006 has 38 MA's), (74, 31886), (87, 31817), (Start: 97 @31763 has 1 MA's), (114, 31682), (116, 31673), (125, 31613), (131, 31595), (156, 31493), (158, 31460), (159, 31457), (161, 31448), (167, 31427), (171, 31406), (172, 31397), (178, 31334), (182, 31319), (184, 31313), (207, 31253), (213, 31220), (216, 31190), (217, 31184), (218, 31181), (259, 31046), (308, 30851), (312, 30833), (320, 30800), (338, 30710), (340, 30701), (367, 30569), (376, 30509), (385, 30437), (398, 30398), (399, 30395), (402, 30383), (408, 30350), (418, 30311), (436, 30239), (443, 30212), (477, 30077),

Gene: Eris_49 Start: 35448, Stop: 33415, Start Num: 48
Candidate Starts for Eris_49:
(Start: 48 @35448 has 546 MA's), (68, 35385), (Start: 73 @35337 has 4 MA's), (78, 35313), (92, 35247), (Start: 97 @35211 has 1 MA's), (102, 35178), (114, 35130), (116, 35121), (125, 35064), (134, 35037), (141, 35004), (172, 34848), (173, 34839), (182, 34770), (207, 34698), (212, 34668), (213, 34665), (216, 34635), (217, 34629), (218, 34626), (236, 34539), (251, 34509), (261, 34497), (269, 34488), (287, 34440), (321, 34236), (341, 34134), (345, 34116), (373, 33975), (376, 33948), (407, 33804), (408, 33801), (416, 33771), (430, 33708), (441, 33675), (443, 33666), (447, 33645), (461, 33597), (477, 33531),

Gene: Eros_50 Start: 35450, Stop: 33417, Start Num: 48
Candidate Starts for Eros_50:
(Start: 48 @35450 has 546 MA's), (68, 35387), (Start: 73 @35339 has 4 MA's), (78, 35315), (92, 35249), (Start: 97 @35213 has 1 MA's), (102, 35180), (114, 35132), (116, 35123), (125, 35066), (134, 35039), (141, 35006), (172, 34850), (173, 34841), (182, 34772), (207, 34700), (212, 34670), (213, 34667), (216, 34637), (217, 34631), (218, 34628), (236, 34541), (251, 34511), (261, 34499), (269, 34490), (287, 34442), (321, 34238), (341, 34136), (345, 34118), (373, 33977), (376, 33950), (407, 33806), (408, 33803), (416, 33773), (430, 33710), (441, 33677), (443, 33668), (447, 33647), (461, 33599), (477, 33533),

Gene: Esperer_47 Start: 31483, Stop: 33573, Start Num: 48
Candidate Starts for Esperer_47:
(Start: 48 @31483 has 546 MA's), (78, 31624), (79, 31639), (Start: 88 @31693 has 3 MA's), (90, 31699), (Start: 97 @31744 has 1 MA's), (114, 31825), (116, 31834), (131, 31912), (134, 31921), (141, 31954), (158, 32047), (163, 32071), (172, 32113), (182, 32191), (183, 32194), (207, 32281), (216, 32344), (218, 32353), (283, 32518), (287, 32530), (305, 32662), (309, 32689), (321, 32740), (323, 32755), (327, 32776), (341, 32842), (370, 32986), (371, 32992), (373, 33001), (378, 33037), (382, 33085), (384, 33097), (395, 33124), (398, 33136), (407, 33190), (420, 33241), (426, 33262), (436, 33295), (441, 33313), (447, 33343), (450, 33355), (457, 33382), (473, 33442), (486, 33511), (488, 33514), (495, 33565),

Gene: Espica_41 Start: 32007, Stop: 29962, Start Num: 46
Candidate Starts for Espica_41:
(Start: 46 @32007 has 38 MA's), (74, 31887), (87, 31818), (Start: 97 @31764 has 1 MA's), (114, 31683), (116, 31674), (125, 31614), (131, 31596), (156, 31494), (158, 31461), (159, 31458), (161, 31449), (167, 31428), (171, 31407), (172, 31398), (178, 31335), (182, 31320), (184, 31314), (207,

31254), (213, 31221), (216, 31191), (217, 31185), (218, 31182), (259, 31047), (308, 30852), (312, 30834), (320, 30801), (338, 30711), (340, 30702), (367, 30570), (376, 30510), (385, 30438), (398, 30399), (399, 30396), (402, 30384), (408, 30351), (418, 30312), (436, 30240), (443, 30213), (477, 30078),

Gene: Et2Brutus_50 Start: 34841, Stop: 32817, Start Num: 52
Candidate Starts for Et2Brutus_50:
(28, 34892), (43, 34859), (Start: 52 @34841 has 24 MA's), (Start: 73 @34733 has 4 MA's), (Start: 88 @34658 has 3 MA's), (114, 34526), (116, 34517), (141, 34397), (172, 34241), (177, 34193), (181, 34166), (182, 34163), (185, 34151), (201, 34118), (207, 34097), (214, 34052), (216, 34034), (217, 34028), (218, 34025), (278, 33875), (291, 33827), (294, 33812), (298, 33785), (321, 33647), (333, 33587), (341, 33545), (345, 33527), (360, 33455), (370, 33401), (373, 33386), (374, 33368), (391, 33269), (408, 33206), (418, 33167), (427, 33119), (441, 33077), (447, 33047), (461, 32999),

Gene: EtoileNova_51 Start: 35714, Stop: 33696, Start Num: 55
Candidate Starts for EtoileNova_51:
(Start: 55 @35714 has 103 MA's), (Start: 71 @35621 has 1 MA's), (Start: 73 @35612 has 4 MA's), (77, 35591), (92, 35522), (Start: 97 @35486 has 1 MA's), (102, 35453), (114, 35405), (116, 35396), (141, 35279), (159, 35183), (172, 35123), (179, 35054), (182, 35045), (185, 35033), (207, 34973), (212, 34943), (213, 34940), (214, 34928), (216, 34910), (217, 34904), (218, 34901), (239, 34796), (242, 34790), (287, 34733), (321, 34529), (333, 34469), (341, 34427), (345, 34409), (358, 34346), (370, 34283), (373, 34268), (376, 34241), (385, 34169), (408, 34082), (419, 34040), (443, 33947), (447, 33926), (477, 33812),

Gene: Eurydice_51 Start: 35445, Stop: 33412, Start Num: 48
Candidate Starts for Eurydice_51:
(Start: 48 @35445 has 546 MA's), (68, 35382), (Start: 73 @35334 has 4 MA's), (78, 35310), (92, 35244), (Start: 97 @35208 has 1 MA's), (102, 35175), (114, 35127), (116, 35118), (125, 35061), (134, 35034), (141, 35001), (172, 34845), (173, 34836), (182, 34767), (207, 34695), (212, 34665), (213, 34662), (216, 34632), (217, 34626), (218, 34623), (236, 34536), (251, 34506), (261, 34494), (269, 34485), (287, 34437), (321, 34233), (341, 34131), (345, 34113), (373, 33972), (376, 33945), (407, 33801), (408, 33798), (416, 33768), (430, 33705), (441, 33672), (443, 33663), (447, 33642), (461, 33594), (477, 33528),

Gene: EvilGenius_53 Start: 37465, Stop: 35426, Start Num: 48
Candidate Starts for EvilGenius_53:
(Start: 48 @37465 has 546 MA's), (Start: 97 @37225 has 1 MA's), (116, 37135), (117, 37120), (141, 37015), (172, 36859), (182, 36781), (207, 36709), (212, 36679), (213, 36676), (216, 36646), (217, 36640), (218, 36637), (280, 36478), (291, 36433), (298, 36391), (321, 36253), (327, 36217), (341, 36151), (356, 36079), (367, 36025), (370, 36007), (399, 35857), (408, 35812), (418, 35773), (419, 35770), (430, 35719), (447, 35656), (461, 35608), (463, 35599), (492, 35458),

Gene: Evy_44 Start: 19658, Stop: 21601, Start Num: 64
Candidate Starts for Evy_44:
(Start: 64 @19658 has 81 MA's), (Start: 67 @19664 has 1 MA's), (83, 19766), (86, 19787), (90, 19796), (108, 19886), (110, 19895), (111, 19904), (112, 19907), (132, 20012), (161, 20156), (204, 20321), (221, 20432), (239, 20522), (245, 20534), (314, 20747), (345, 20894), (348, 20912), (377, 21050), (379, 21068), (401, 21176), (439, 21347), (448, 21386), (476, 21485),

Gene: Expelliarmus_47 Start: 34026, Stop: 31981, Start Num: 48
Candidate Starts for Expelliarmus_47:
(Start: 48 @34026 has 546 MA's), (75, 33900), (87, 33843), (Start: 88 @33840 has 3 MA's), (Start: 97 @33789 has 1 MA's), (102, 33756), (114, 33708), (116, 33699), (121, 33657), (149, 33561), (155,

33522), (160, 33477), (171, 33432), (172, 33423), (178, 33360), (179, 33354), (182, 33345), (183, 33342), (207, 33273), (212, 33243), (213, 33240), (216, 33210), (217, 33204), (218, 33201), (291, 33003), (321, 32820), (327, 32784), (341, 32718), (363, 32619), (376, 32532), (378, 32523), (392, 32439), (416, 32337), (426, 32292), (443, 32232), (447, 32211), (451, 32193), (491, 32022),

Gene: ExplosioNervosa_51 Start: 35802, Stop: 33763, Start Num: 48
Candidate Starts for ExplosioNervosa_51:
(Start: 48 @35802 has 546 MA's), (Start: 73 @35688 has 4 MA's), (75, 35673), (78, 35664), (Start: 97 @35562 has 1 MA's), (116, 35472), (125, 35412), (126, 35409), (141, 35352), (171, 35205), (172, 35196), (182, 35118), (185, 35106), (207, 35052), (212, 35022), (214, 35007), (216, 34989), (217, 34983), (218, 34980), (280, 34815), (291, 34770), (321, 34590), (341, 34488), (356, 34416), (374, 34311), (376, 34302), (408, 34149), (416, 34119), (430, 34056), (447, 33993),

Gene: Fameo_51 Start: 36026, Stop: 33966, Start Num: 48
Candidate Starts for Fameo_51:
(Start: 48 @36026 has 546 MA's), (Start: 73 @35915 has 4 MA's), (Start: 88 @35840 has 3 MA's), (Start: 97 @35789 has 1 MA's), (102, 35756), (114, 35708), (116, 35699), (125, 35639), (141, 35579), (172, 35423), (182, 35345), (207, 35273), (212, 35243), (213, 35240), (214, 35228), (216, 35210), (217, 35204), (218, 35201), (244, 35090), (280, 35018), (291, 34973), (298, 34931), (318, 34814), (321, 34793), (327, 34757), (341, 34691), (356, 34619), (367, 34565), (370, 34547), (408, 34352), (418, 34313), (419, 34310), (430, 34259), (432, 34253), (447, 34196), (454, 34166), (492, 33998),

Gene: Farber_54 Start: 35896, Stop: 33878, Start Num: 55
Candidate Starts for Farber_54:
(Start: 55 @35896 has 103 MA's), (Start: 71 @35803 has 1 MA's), (Start: 73 @35794 has 4 MA's), (78, 35770), (Start: 88 @35719 has 3 MA's), (Start: 97 @35668 has 1 MA's), (114, 35587), (116, 35578), (141, 35461), (159, 35365), (172, 35305), (179, 35236), (182, 35227), (183, 35224), (185, 35215), (207, 35155), (212, 35125), (213, 35122), (214, 35110), (216, 35092), (217, 35086), (218, 35083), (239, 34978), (242, 34972), (287, 34915), (321, 34711), (323, 34696), (327, 34675), (333, 34651), (338, 34624), (341, 34609), (369, 34471), (370, 34465), (373, 34450), (376, 34423), (383, 34360), (384, 34354), (391, 34330), (418, 34225), (426, 34189), (447, 34108), (470, 34030), (477, 33994), (490, 33931),

Gene: FatCactus_43 Start: 33050, Stop: 31014, Start Num: 48
Candidate Starts for FatCactus_43:
(29, 33077), (32, 33071), (Start: 48 @33050 has 546 MA's), (Start: 88 @32864 has 3 MA's), (102, 32780), (114, 32732), (116, 32723), (124, 32666), (128, 32651), (141, 32603), (158, 32510), (172, 32447), (179, 32378), (182, 32369), (207, 32303), (212, 32273), (213, 32270), (216, 32240), (217, 32234), (218, 32231), (233, 32156), (236, 32144), (267, 32090), (278, 32075), (291, 32027), (321, 31847), (338, 31760), (340, 31751), (355, 31676), (361, 31652), (369, 31607), (376, 31559), (388, 31472), (402, 31433), (410, 31397), (418, 31361), (430, 31307), (436, 31292), (441, 31274), (461, 31196), (490, 31067), (491, 31055),

Gene: Faust_20 Start: 8037, Stop: 9980, Start Num: 65
Candidate Starts for Faust_20:
(62, 8028), (Start: 65 @8037 has 29 MA's), (Start: 73 @8094 has 4 MA's), (110, 8274), (112, 8286), (132, 8391), (210, 8724), (212, 8745), (235, 8877), (324, 9171), (339, 9243), (344, 9267), (383, 9486), (384, 9492), (389, 9516), (390, 9519), (400, 9549), (401, 9552), (405, 9573), (411, 9609), (421, 9654), (429, 9693), (434, 9705), (445, 9741), (476, 9861), (480, 9885),

Gene: Fayely_51 Start: 35703, Stop: 33664, Start Num: 48
Candidate Starts for Fayely_51:

(Start: 48 @35703 has 546 MA's), (Start: 73 @35589 has 4 MA's), (75, 35574), (78, 35565), (Start: 97 @35463 has 1 MA's), (116, 35373), (125, 35313), (141, 35253), (171, 35106), (172, 35097), (182, 35019), (185, 35007), (206, 34962), (207, 34953), (212, 34923), (214, 34908), (216, 34890), (217, 34884), (218, 34881), (280, 34716), (288, 34692), (291, 34671), (321, 34491), (343, 34377), (356, 34317), (374, 34212), (376, 34203), (408, 34050), (416, 34020), (430, 33957), (447, 33894),

Gene: Fernando_54 Start: 35906, Stop: 33888, Start Num: 55
Candidate Starts for Fernando_54:
(Start: 55 @35906 has 103 MA's), (Start: 71 @35813 has 1 MA's), (Start: 73 @35804 has 4 MA's), (78, 35780), (Start: 88 @35729 has 3 MA's), (Start: 97 @35678 has 1 MA's), (114, 35597), (116, 35588), (141, 35468), (156, 35408), (159, 35372), (172, 35312), (182, 35234), (207, 35162), (212, 35132), (216, 35099), (217, 35093), (218, 35090), (234, 35009), (242, 34979), (287, 34925), (312, 34754), (333, 34658), (341, 34616), (345, 34598), (355, 34550), (358, 34538), (369, 34481), (370, 34475), (373, 34460), (376, 34433), (383, 34370), (384, 34364), (391, 34340), (418, 34235), (436, 34166), (441, 34148), (447, 34118), (470, 34040), (477, 34004), (490, 33941),

Gene: Fibonacci_51 Start: 34847, Stop: 32826, Start Num: 52
Candidate Starts for Fibonacci_51:
(28, 34898), (43, 34865), (Start: 52 @34847 has 24 MA's), (Start: 73 @34739 has 4 MA's), (Start: 88 @34664 has 3 MA's), (114, 34532), (116, 34523), (141, 34403), (172, 34247), (177, 34199), (181, 34172), (182, 34169), (185, 34157), (201, 34124), (207, 34103), (214, 34058), (216, 34040), (217, 34034), (218, 34031), (257, 33911), (291, 33836), (294, 33821), (298, 33794), (321, 33656), (333, 33596), (341, 33554), (345, 33536), (360, 33464), (370, 33410), (373, 33395), (374, 33377), (391, 33278), (408, 33215), (418, 33176), (441, 33086), (447, 33056), (461, 33008),

Gene: FiringLine_51 Start: 35679, Stop: 33643, Start Num: 48
Candidate Starts for FiringLine_51:
(Start: 48 @35679 has 546 MA's), (Start: 73 @35568 has 4 MA's), (74, 35565), (Start: 88 @35493 has 3 MA's), (Start: 97 @35442 has 1 MA's), (100, 35424), (109, 35388), (116, 35352), (141, 35232), (171, 35085), (172, 35076), (182, 34998), (207, 34926), (212, 34896), (213, 34893), (214, 34881), (216, 34863), (217, 34857), (218, 34854), (280, 34695), (291, 34650), (298, 34608), (321, 34470), (327, 34434), (341, 34368), (343, 34356), (356, 34296), (367, 34242), (370, 34224), (408, 34029), (418, 33990), (419, 33987), (430, 33936), (447, 33873), (461, 33825), (463, 33816), (492, 33675),

Gene: First_0053 Start: 36164, Stop: 34107, Start Num: 48
Candidate Starts for First_0053:
(Start: 48 @36164 has 546 MA's), (Start: 71 @36059 has 1 MA's), (Start: 73 @36050 has 4 MA's), (74, 36047), (78, 36026), (Start: 88 @35975 has 3 MA's), (Start: 97 @35924 has 1 MA's), (116, 35834), (124, 35777), (125, 35774), (141, 35714), (172, 35558), (173, 35549), (182, 35480), (207, 35414), (212, 35384), (213, 35381), (214, 35369), (216, 35351), (217, 35345), (218, 35342), (244, 35231), (280, 35159), (291, 35114), (298, 35072), (321, 34934), (341, 34832), (343, 34820), (356, 34760), (367, 34706), (370, 34688), (393, 34556), (397, 34547), (402, 34526), (408, 34493), (418, 34454), (419, 34451), (430, 34400), (432, 34394), (447, 34337), (461, 34289), (463, 34280),

Gene: Flare16_51 Start: 35751, Stop: 33715, Start Num: 48
Candidate Starts for Flare16_51:
(Start: 48 @35751 has 546 MA's), (Start: 61 @35712 has 1 MA's), (Start: 73 @35640 has 4 MA's), (Start: 88 @35565 has 3 MA's), (Start: 97 @35514 has 1 MA's), (102, 35481), (116, 35424), (134, 35337), (141, 35304), (172, 35148), (178, 35085), (182, 35070), (185, 35058), (204, 35016), (207, 34998), (212, 34968), (213, 34965), (214, 34953), (216, 34935), (217, 34929), (218, 34926), (280, 34767), (291, 34722), (298, 34680), (321, 34542), (327, 34506), (341, 34440), (343, 34428), (356, 34368), (367, 34314), (370, 34296), (378, 34245), (391, 34164), (396, 34155), (408, 34101), (416, 34071), (418, 34062), (430, 34008), (447, 33945), (461, 33897), (463, 33888),

Gene: Flaverint_52 Start: 35305, Stop: 33284, Start Num: 52
Candidate Starts for Flaverint_52:
(28, 35356), (43, 35323), (Start: 52 @35305 has 24 MA's), (Start: 73 @35197 has 4 MA's), (Start: 88 @35122 has 3 MA's), (114, 34990), (116, 34981), (141, 34861), (172, 34705), (177, 34657), (181, 34630), (182, 34627), (185, 34615), (201, 34582), (207, 34561), (214, 34516), (216, 34498), (217, 34492), (218, 34489), (257, 34369), (291, 34294), (294, 34279), (298, 34252), (321, 34114), (333, 34054), (341, 34012), (345, 33994), (360, 33922), (370, 33868), (373, 33853), (374, 33835), (391, 33736), (408, 33673), (418, 33634), (441, 33544), (447, 33514), (461, 33466),

Gene: Florean_50 Start: 35447, Stop: 33414, Start Num: 48
Candidate Starts for Florean_50:
(Start: 48 @35447 has 546 MA's), (68, 35384), (Start: 73 @35336 has 4 MA's), (78, 35312), (92, 35246), (Start: 97 @35210 has 1 MA's), (102, 35177), (114, 35129), (116, 35120), (125, 35063), (134, 35036), (141, 35003), (172, 34847), (173, 34838), (182, 34769), (207, 34697), (212, 34667), (213, 34664), (216, 34634), (217, 34628), (218, 34625), (236, 34538), (247, 34514), (251, 34508), (261, 34496), (269, 34487), (287, 34439), (320, 34238), (321, 34235), (341, 34133), (345, 34115), (373, 33974), (376, 33947), (407, 33803), (408, 33800), (416, 33770), (430, 33707), (441, 33674), (443, 33665), (447, 33644), (461, 33596), (477, 33530),

Gene: Florence1_42 Start: 34085, Stop: 31995, Start Num: 48
Candidate Starts for Florence1_42:
(Start: 48 @34085 has 546 MA's), (Start: 88 @33899 has 3 MA's), (Start: 97 @33848 has 1 MA's), (114, 33767), (116, 33758), (141, 33638), (148, 33623), (167, 33512), (168, 33509), (172, 33482), (173, 33473), (179, 33413), (182, 33404), (187, 33380), (207, 33293), (212, 33263), (213, 33260), (216, 33230), (217, 33224), (218, 33221), (242, 33110), (291, 33008), (319, 32846), (323, 32813), (334, 32765), (341, 32726), (355, 32657), (367, 32600), (369, 32588), (370, 32582), (376, 32540), (378, 32531), (385, 32468), (410, 32378), (416, 32351), (425, 32309), (436, 32273), (441, 32255), (443, 32246), (491, 32036),

Gene: Florence4_43 Start: 34085, Stop: 31995, Start Num: 48
Candidate Starts for Florence4_43:
(Start: 48 @34085 has 546 MA's), (Start: 88 @33899 has 3 MA's), (Start: 97 @33848 has 1 MA's), (114, 33767), (116, 33758), (141, 33638), (148, 33623), (167, 33512), (168, 33509), (172, 33482), (173, 33473), (179, 33413), (182, 33404), (187, 33380), (207, 33293), (212, 33263), (213, 33260), (216, 33230), (217, 33224), (218, 33221), (242, 33110), (291, 33008), (319, 32846), (323, 32813), (334, 32765), (341, 32726), (355, 32657), (367, 32600), (369, 32588), (370, 32582), (376, 32540), (378, 32531), (385, 32468), (410, 32378), (416, 32351), (425, 32309), (436, 32273), (441, 32255), (443, 32246), (491, 32036),

Gene: Flux_50 Start: 35447, Stop: 33414, Start Num: 48
Candidate Starts for Flux_50:
(Start: 48 @35447 has 546 MA's), (68, 35384), (Start: 73 @35336 has 4 MA's), (78, 35312), (92, 35246), (Start: 97 @35210 has 1 MA's), (102, 35177), (114, 35129), (116, 35120), (125, 35063), (134, 35036), (141, 35003), (172, 34847), (173, 34838), (182, 34769), (207, 34697), (212, 34667), (213, 34664), (216, 34634), (217, 34628), (218, 34625), (236, 34538), (251, 34508), (261, 34496), (269, 34487), (287, 34439), (321, 34235), (341, 34133), (345, 34115), (373, 33974), (376, 33947), (407, 33803), (408, 33800), (416, 33770), (430, 33707), (441, 33674), (443, 33665), (447, 33644), (461, 33596), (477, 33530),

Gene: FlyCatcher_55 Start: 37832, Stop: 35775, Start Num: 50
Candidate Starts for FlyCatcher_55:

(Start: 50 @37832 has 3 MA's), (75, 37709), (Start: 88 @37649 has 3 MA's), (Start: 97 @37598 has 1 MA's), (102, 37565), (114, 37517), (116, 37508), (125, 37448), (141, 37388), (152, 37343), (171, 37241), (179, 37163), (182, 37154), (207, 37073), (212, 37043), (213, 37040), (216, 37010), (217, 37004), (218, 37001), (258, 36875), (287, 36809), (321, 36605), (327, 36569), (334, 36542), (341, 36503), (345, 36485), (369, 36365), (370, 36359), (373, 36344), (378, 36308), (385, 36245), (408, 36158), (416, 36128), (419, 36116), (430, 36065), (443, 36023), (467, 35939),

Gene: ForGetIt_43 Start: 34427, Stop: 32358, Start Num: 48
Candidate Starts for ForGetIt_43:
(Start: 48 @34427 has 546 MA's), (Start: 88 @34241 has 3 MA's), (Start: 97 @34190 has 1 MA's), (102, 34157), (114, 34109), (116, 34100), (141, 33980), (148, 33965), (167, 33854), (168, 33851), (172, 33824), (173, 33815), (179, 33755), (182, 33746), (187, 33722), (207, 33635), (212, 33605), (213, 33602), (216, 33572), (217, 33566), (218, 33563), (291, 33371), (319, 33209), (323, 33176), (334, 33128), (341, 33089), (355, 33020), (367, 32963), (369, 32951), (370, 32945), (376, 32903), (378, 32894), (407, 32747), (416, 32714), (425, 32672), (436, 32636), (441, 32618), (443, 32609), (491, 32399),

Gene: ForesterFrank_50 Start: 36367, Stop: 34352, Start Num: 48
Candidate Starts for ForesterFrank_50:
(Start: 48 @36367 has 546 MA's), (Start: 73 @36256 has 4 MA's), (Start: 88 @36181 has 3 MA's), (Start: 97 @36130 has 1 MA's), (102, 36097), (114, 36049), (116, 36040), (125, 35980), (141, 35920), (172, 35764), (173, 35755), (182, 35686), (193, 35650), (207, 35620), (212, 35590), (213, 35587), (214, 35575), (216, 35557), (217, 35551), (218, 35548), (278, 35407), (280, 35404), (291, 35359), (298, 35317), (321, 35179), (341, 35077), (343, 35065), (356, 35005), (367, 34951), (370, 34933), (391, 34801), (396, 34792), (408, 34738), (418, 34699), (430, 34645), (447, 34582), (461, 34534), (463, 34525),

Gene: Forrest_24 Start: 8839, Stop: 10782, Start Num: 65
Candidate Starts for Forrest_24:
(62, 8830), (Start: 65 @8839 has 29 MA's), (Start: 73 @8896 has 4 MA's), (90, 8977), (110, 9076), (111, 9085), (112, 9088), (132, 9193), (166, 9343), (172, 9373), (204, 9499), (242, 9706), (311, 9919), (324, 9973), (339, 10045), (344, 10069), (364, 10141), (400, 10351), (401, 10354), (420, 10450), (423, 10459), (480, 10687),

Gene: Francesca_37 Start: 17107, Stop: 19068, Start Num: 63
Candidate Starts for Francesca_37:
(60, 17101), (Start: 63 @17107 has 3 MA's), (Start: 64 @17110 has 81 MA's), (90, 17239), (102, 17311), (108, 17329), (110, 17338), (111, 17347), (112, 17350), (132, 17455), (162, 17605), (172, 17638), (186, 17731), (204, 17764), (210, 17791), (211, 17809), (213, 17815), (215, 17842), (221, 17875), (245, 17977), (290, 18034), (301, 18121), (310, 18178), (317, 18199), (336, 18295), (339, 18310), (341, 18319), (348, 18355), (377, 18493), (389, 18583), (394, 18592), (473, 18913), (476, 18925), (480, 18946), (490, 18997),

Gene: Francob_20 Start: 7636, Stop: 9579, Start Num: 65
Candidate Starts for Francob_20:
(62, 7627), (Start: 65 @7636 has 29 MA's), (Start: 73 @7693 has 4 MA's), (90, 7774), (110, 7873), (112, 7885), (132, 7990), (204, 8296), (212, 8344), (242, 8503), (296, 8611), (303, 8677), (324, 8770), (328, 8797), (337, 8830), (339, 8842), (344, 8866), (364, 8938), (401, 9151), (412, 9211), (429, 9292), (445, 9340), (480, 9484), (493, 9559),

Gene: Fred313_51 Start: 35332, Stop: 33308, Start Num: 48
Candidate Starts for Fred313_51:

(Start: 48 @35332 has 546 MA's), (74, 35218), (92, 35131), (Start: 97 @35095 has 1 MA's), (102, 35062), (114, 35014), (116, 35005), (141, 34885), (168, 34756), (172, 34729), (173, 34720), (182, 34651), (188, 34630), (190, 34627), (207, 34585), (212, 34555), (214, 34540), (216, 34522), (217, 34516), (218, 34513), (239, 34408), (242, 34402), (287, 34345), (294, 34306), (321, 34141), (327, 34105), (333, 34081), (341, 34039), (345, 34021), (369, 33901), (370, 33895), (373, 33880), (376, 33853), (378, 33844), (403, 33715), (419, 33652), (443, 33559), (447, 33538), (471, 33457), (477, 33424),

Gene: FreddyDRoo_41 Start: 18298, Stop: 20241, Start Num: 64
Candidate Starts for FreddyDRoo_41:
(Start: 64 @18298 has 81 MA's), (Start: 67 @18304 has 1 MA's), (83, 18406), (86, 18427), (90, 18436), (108, 18526), (110, 18535), (111, 18544), (112, 18547), (132, 18652), (204, 18961), (221, 19072), (239, 19162), (245, 19174), (314, 19387), (345, 19534), (362, 19597), (377, 19690), (379, 19708), (389, 19780), (401, 19816), (439, 19987), (448, 20026), (476, 20125),

Gene: Fudan_140 Start: 76883, Stop: 78514, Start Num: 103
Candidate Starts for Fudan_140:
(Start: 103 @76883 has 6 MA's), (Start: 104 @76889 has 2 MA's), (107, 76901), (122, 76994), (129, 77018), (137, 77057), (154, 77123), (159, 77162), (165, 77186), (175, 77243), (176, 77252), (180, 77285), (205, 77318), (216, 77390), (222, 77420), (224, 77426), (230, 77459), (231, 77465), (278, 77567), (287, 77591), (292, 77621), (315, 77747), (338, 77858), (340, 77867), (357, 77939), (379, 78068), (393, 78137), (395, 78140), (412, 78209), (433, 78293), (440, 78314), (447, 78347), (454, 78380), (468, 78419), (479, 78482),

Gene: Funston_49 Start: 35448, Stop: 33415, Start Num: 48
Candidate Starts for Funston_49:
(Start: 48 @35448 has 546 MA's), (68, 35385), (Start: 73 @35337 has 4 MA's), (78, 35313), (92, 35247), (Start: 97 @35211 has 1 MA's), (102, 35178), (114, 35130), (116, 35121), (125, 35064), (134, 35037), (141, 35004), (172, 34848), (173, 34839), (182, 34770), (207, 34698), (212, 34668), (213, 34665), (216, 34635), (217, 34629), (218, 34626), (236, 34539), (251, 34509), (261, 34497), (269, 34488), (287, 34440), (321, 34236), (341, 34134), (345, 34116), (373, 33975), (376, 33948), (407, 33804), (408, 33801), (416, 33771), (430, 33708), (441, 33675), (443, 33666), (447, 33645), (461, 33597), (477, 33531),

Gene: Gadost_50 Start: 35452, Stop: 33419, Start Num: 48
Candidate Starts for Gadost_50:
(Start: 48 @35452 has 546 MA's), (68, 35389), (Start: 73 @35341 has 4 MA's), (78, 35317), (92, 35251), (Start: 97 @35215 has 1 MA's), (102, 35182), (114, 35134), (116, 35125), (125, 35068), (134, 35041), (141, 35008), (172, 34852), (173, 34843), (182, 34774), (207, 34702), (212, 34672), (213, 34669), (216, 34639), (217, 34633), (218, 34630), (236, 34543), (251, 34513), (261, 34501), (269, 34492), (287, 34444), (321, 34240), (341, 34138), (345, 34120), (373, 33979), (376, 33952), (407, 33808), (408, 33805), (416, 33775), (430, 33712), (441, 33679), (443, 33670), (447, 33649), (461, 33601), (477, 33535),

Gene: Gaia_89 Start: 51713, Stop: 53695, Start Num: 47
Candidate Starts for Gaia_89:
(Start: 47 @51713 has 2 MA's), (85, 51899), (102, 51992), (112, 52037), (116, 52055), (118, 52079), (119, 52094), (120, 52097), (123, 52112), (136, 52163), (139, 52178), (151, 52214), (179, 52409), (188, 52439), (207, 52484), (213, 52517), (217, 52553), (219, 52559), (222, 52580), (231, 52628), (237, 52655), (240, 52661), (279, 52694), (286, 52715), (289, 52721), (293, 52748), (301, 52814), (304, 52841), (307, 52853), (325, 52931), (330, 52961), (332, 52964), (342, 53003), (345, 53015), (360, 53072), (367, 53105), (373, 53138), (374, 53156), (375, 53162), (376, 53165), (379, 53186), (404, 53315), (405, 53318), (409, 53342), (429, 53432), (445, 53480), (446, 53489), (449, 53504),

(456, 53528), (460, 53540), (473, 53591), (476, 53603), (478, 53618), (481, 53627), (486, 53651),

Gene: Gail_55 Start: 36771, Stop: 34732, Start Num: 48
Candidate Starts for Gail_55:
(Start: 48 @36771 has 546 MA's), (74, 36654), (102, 36498), (114, 36450), (116, 36441), (126, 36378), (141, 36321), (172, 36165), (181, 36090), (182, 36087), (207, 36021), (212, 35991), (213, 35988), (216, 35958), (217, 35952), (218, 35949), (221, 35928), (280, 35784), (291, 35739), (298, 35697), (321, 35559), (333, 35499), (343, 35445), (356, 35385), (358, 35376), (365, 35349), (370, 35313), (374, 35280), (408, 35118), (418, 35079), (425, 35046), (430, 35025), (447, 34962), (461, 34914), (492, 34764),

Gene: Garak_56 Start: 35277, Stop: 33223, Start Num: 48
Candidate Starts for Garak_56:
(Start: 48 @35277 has 546 MA's), (Start: 88 @35091 has 3 MA's), (Start: 97 @35040 has 1 MA's), (102, 35007), (114, 34959), (116, 34950), (125, 34890), (141, 34830), (155, 34773), (159, 34734), (168, 34701), (172, 34674), (173, 34665), (178, 34611), (182, 34596), (207, 34524), (212, 34494), (216, 34461), (217, 34455), (218, 34452), (236, 34365), (258, 34311), (278, 34278), (291, 34230), (298, 34188), (321, 34050), (343, 33936), (356, 33876), (358, 33867), (367, 33822), (370, 33804), (374, 33771), (393, 33669), (396, 33663), (408, 33609), (415, 33582), (418, 33570), (430, 33516), (447, 33453), (454, 33423), (463, 33396), (472, 33357),

Gene: Garnacho_136 Start: 76507, Stop: 78120, Start Num: 103
Candidate Starts for Garnacho_136:
(Start: 103 @76507 has 6 MA's), (Start: 104 @76513 has 2 MA's), (107, 76522), (122, 76615), (137, 76678), (154, 76744), (159, 76783), (161, 76792), (165, 76807), (170, 76831), (176, 76873), (180, 76906), (205, 76939), (216, 77011), (222, 77041), (224, 77047), (230, 77080), (231, 77086), (256, 77143), (278, 77173), (287, 77197), (300, 77278), (315, 77353), (331, 77434), (338, 77464), (340, 77473), (362, 77566), (369, 77605), (376, 77653), (380, 77683), (393, 77743), (395, 77746), (424, 77869), (433, 77899), (440, 77920), (447, 77953), (452, 77980), (454, 77986), (468, 78025), (479, 78088),

Gene: GaugeLDP_49 Start: 36020, Stop: 33984, Start Num: 48
Candidate Starts for GaugeLDP_49:
(Start: 48 @36020 has 546 MA's), (70, 35924), (Start: 88 @35831 has 3 MA's), (Start: 97 @35780 has 1 MA's), (114, 35699), (116, 35690), (125, 35630), (138, 35576), (141, 35570), (161, 35465), (171, 35423), (172, 35414), (182, 35336), (207, 35264), (212, 35234), (213, 35231), (214, 35219), (216, 35201), (217, 35195), (218, 35192), (236, 35105), (278, 35039), (291, 34991), (298, 34949), (321, 34811), (327, 34775), (341, 34709), (356, 34637), (365, 34601), (370, 34565), (374, 34532), (391, 34433), (396, 34424), (408, 34370), (418, 34331), (430, 34277), (447, 34214), (461, 34166),

Gene: Gemma_53 Start: 35792, Stop: 33777, Start Num: 55
Candidate Starts for Gemma_53:
(Start: 55 @35792 has 103 MA's), (Start: 71 @35699 has 1 MA's), (Start: 73 @35690 has 4 MA's), (78, 35666), (Start: 88 @35615 has 3 MA's), (Start: 97 @35564 has 1 MA's), (114, 35483), (116, 35474), (125, 35417), (141, 35357), (156, 35297), (159, 35261), (172, 35201), (173, 35192), (182, 35123), (185, 35111), (207, 35051), (212, 35021), (213, 35018), (214, 35006), (216, 34988), (217, 34982), (218, 34979), (225, 34946), (261, 34844), (287, 34814), (312, 34643), (323, 34592), (327, 34571), (333, 34547), (341, 34505), (345, 34487), (355, 34439), (370, 34364), (376, 34322), (383, 34259), (384, 34253), (391, 34229), (418, 34124), (436, 34055), (441, 34037), (443, 34028), (447, 34007), (470, 33929), (477, 33893), (490, 33830),

Gene: Genie2_45 Start: 19480, Stop: 21420, Start Num: 64
Candidate Starts for Genie2_45:

(Start: 64 @19480 has 81 MA's), (90, 19612), (96, 19648), (101, 19672), (102, 19684), (110, 19711), (112, 19723), (132, 19828), (143, 19870), (153, 19918), (211, 20182), (215, 20215), (221, 20248), (232, 20299), (234, 20314), (239, 20338), (245, 20350), (293, 20428), (305, 20527), (313, 20560), (314, 20563), (339, 20683), (345, 20710), (348, 20728), (379, 20884), (400, 20989), (401, 20992), (439, 21163), (448, 21202), (476, 21301),

Gene: George_43 Start: 34425, Stop: 32572, Start Num: 97
Candidate Starts for George_43:
(Start: 48 @34662 has 546 MA's), (Start: 88 @34476 has 3 MA's), (Start: 97 @34425 has 1 MA's), (114, 34344), (116, 34335), (141, 34215), (148, 34200), (167, 34089), (168, 34086), (172, 34059), (173, 34050), (179, 33990), (182, 33981), (187, 33957), (207, 33870), (212, 33840), (213, 33837), (216, 33807), (217, 33801), (218, 33798), (242, 33687), (291, 33585), (294, 33570), (319, 33423), (323, 33390), (334, 33342), (341, 33303), (355, 33234), (367, 33177), (369, 33165), (370, 33159), (376, 33117), (378, 33108), (385, 33045), (410, 32955), (416, 32928), (425, 32886), (436, 32850), (441, 32832), (491, 32613),

Gene: Georgie2_52 Start: 35724, Stop: 33688, Start Num: 48
Candidate Starts for Georgie2_52:
(Start: 48 @35724 has 546 MA's), (Start: 73 @35613 has 4 MA's), (74, 35610), (Start: 88 @35538 has 3 MA's), (Start: 97 @35487 has 1 MA's), (100, 35469), (109, 35433), (116, 35397), (141, 35277), (171, 35130), (172, 35121), (182, 35043), (207, 34971), (212, 34941), (213, 34938), (214, 34926), (216, 34908), (217, 34902), (218, 34899), (280, 34740), (291, 34695), (298, 34653), (321, 34515), (327, 34479), (341, 34413), (343, 34401), (356, 34341), (367, 34287), (370, 34269), (408, 34074), (418, 34035), (419, 34032), (430, 33981), (447, 33918), (461, 33870), (463, 33861), (492, 33720),

Gene: Ghoulboy_45 Start: 35167, Stop: 33101, Start Num: 48
Candidate Starts for Ghoulboy_45:
(Start: 48 @35167 has 546 MA's), (Start: 50 @35164 has 3 MA's), (74, 35053), (Start: 88 @34981 has 3 MA's), (100, 34912), (114, 34849), (116, 34840), (141, 34720), (148, 34705), (167, 34594), (171, 34573), (172, 34564), (173, 34555), (182, 34486), (185, 34474), (204, 34393), (207, 34375), (212, 34345), (213, 34342), (216, 34312), (217, 34306), (218, 34303), (236, 34216), (250, 34186), (264, 34162), (291, 34114), (319, 33952), (323, 33919), (334, 33871), (341, 33832), (355, 33763), (367, 33706), (369, 33694), (370, 33688), (376, 33646), (378, 33637), (407, 33490), (416, 33457), (425, 33415), (436, 33379), (441, 33361), (443, 33352), (491, 33142),

Gene: GiJojo_135 Start: 78278, Stop: 79900, Start Num: 104
Candidate Starts for GiJojo_135:
(Start: 104 @78278 has 2 MA's), (107, 78287), (122, 78380), (154, 78509), (156, 78515), (161, 78557), (165, 78572), (170, 78596), (176, 78638), (180, 78671), (183, 78680), (205, 78704), (216, 78776), (224, 78812), (226, 78818), (231, 78851), (287, 78977), (292, 79007), (307, 79106), (320, 79151), (327, 79193), (329, 79208), (340, 79253), (395, 79526), (421, 79637), (424, 79649), (433, 79679), (440, 79700), (447, 79733), (451, 79751), (454, 79766), (468, 79805), (479, 79868),

Gene: Gibbi_48 Start: 19282, Stop: 21222, Start Num: 64
Candidate Starts for Gibbi_48:
(Start: 64 @19282 has 81 MA's), (90, 19414), (96, 19450), (102, 19486), (110, 19513), (112, 19525), (132, 19630), (150, 19687), (188, 19912), (210, 19966), (221, 20050), (232, 20101), (239, 20140), (245, 20152), (293, 20230), (305, 20329), (314, 20365), (345, 20512), (379, 20686), (382, 20722), (400, 20791), (401, 20794), (439, 20965), (476, 21103), (493, 21205),

Gene: Gilberta_52 Start: 35298, Stop: 33274, Start Num: 52
Candidate Starts for Gilberta_52:

(28, 35349), (43, 35316), (Start: 52 @35298 has 24 MA's), (Start: 73 @35190 has 4 MA's), (Start: 88 @35115 has 3 MA's), (114, 34983), (116, 34974), (141, 34854), (172, 34698), (177, 34650), (181, 34623), (182, 34620), (185, 34608), (201, 34575), (207, 34554), (214, 34509), (216, 34491), (217, 34485), (218, 34482), (278, 34332), (291, 34284), (294, 34269), (321, 34104), (341, 34002), (345, 33984), (360, 33912), (370, 33858), (373, 33843), (374, 33825), (408, 33663), (418, 33624), (441, 33534), (447, 33504), (461, 33456),

Gene: Gilson_24 Start: 8669, Stop: 10612, Start Num: 65
Candidate Starts for Gilson_24:
(62, 8660), (Start: 65 @8669 has 29 MA's), (Start: 73 @8726 has 4 MA's), (90, 8807), (110, 8906), (111, 8915), (112, 8918), (132, 9023), (166, 9173), (172, 9203), (204, 9329), (242, 9536), (311, 9749), (324, 9803), (339, 9875), (344, 9899), (364, 9971), (400, 10181), (401, 10184), (420, 10280), (423, 10289), (480, 10517),

Gene: GingkoMaracino_54 Start: 35792, Stop: 33774, Start Num: 55
Candidate Starts for GingkoMaracino_54:
(Start: 55 @35792 has 103 MA's), (Start: 71 @35699 has 1 MA's), (Start: 73 @35690 has 4 MA's), (78, 35666), (Start: 88 @35615 has 3 MA's), (Start: 97 @35564 has 1 MA's), (114, 35483), (116, 35474), (141, 35354), (156, 35294), (159, 35258), (172, 35198), (182, 35120), (185, 35108), (207, 35048), (212, 35018), (216, 34985), (217, 34979), (218, 34976), (234, 34895), (242, 34865), (287, 34811), (312, 34640), (333, 34544), (341, 34502), (345, 34484), (355, 34436), (358, 34424), (369, 34367), (370, 34361), (373, 34346), (376, 34319), (383, 34256), (384, 34250), (391, 34226), (418, 34121), (436, 34052), (441, 34034), (443, 34025), (447, 34004), (470, 33926), (477, 33890), (490, 33827),

Gene: GirlDinner_47 Start: 32537, Stop: 34660, Start Num: 48
Candidate Starts for GirlDinner_47:
(Start: 48 @32537 has 546 MA's), (79, 32693), (Start: 88 @32747 has 3 MA's), (90, 32753), (Start: 97 @32798 has 1 MA's), (114, 32879), (116, 32888), (134, 32975), (136, 32987), (141, 33008), (163, 33125), (172, 33167), (182, 33245), (194, 33302), (207, 33353), (216, 33416), (281, 33599), (287, 33617), (321, 33827), (327, 33863), (341, 33929), (370, 34073), (371, 34079), (373, 34088), (378, 34124), (382, 34172), (384, 34184), (395, 34211), (398, 34223), (403, 34253), (407, 34277), (436, 34382), (441, 34400), (473, 34529), (486, 34598), (495, 34652),

Gene: Giroux_53 Start: 35768, Stop: 33747, Start Num: 48
Candidate Starts for Giroux_53:
(Start: 48 @35768 has 546 MA's), (74, 35654), (92, 35567), (Start: 97 @35531 has 1 MA's), (114, 35450), (116, 35441), (124, 35384), (141, 35321), (172, 35165), (182, 35087), (188, 35066), (190, 35063), (207, 35021), (212, 34991), (214, 34976), (216, 34958), (217, 34952), (218, 34949), (225, 34916), (287, 34784), (321, 34580), (327, 34544), (333, 34520), (341, 34478), (345, 34460), (369, 34340), (370, 34334), (373, 34319), (376, 34292), (403, 34154), (419, 34091), (443, 33998), (447, 33977), (471, 33896), (477, 33863),

Gene: Gladiator_51 Start: 34502, Stop: 32448, Start Num: 48
Candidate Starts for Gladiator_51:
(Start: 48 @34502 has 546 MA's), (Start: 88 @34316 has 3 MA's), (Start: 97 @34265 has 1 MA's), (102, 34232), (114, 34184), (116, 34175), (125, 34115), (141, 34055), (155, 33998), (159, 33959), (168, 33926), (172, 33899), (173, 33890), (182, 33821), (207, 33749), (212, 33719), (216, 33686), (217, 33680), (218, 33677), (236, 33590), (258, 33536), (291, 33455), (298, 33413), (321, 33275), (343, 33161), (356, 33101), (358, 33092), (367, 33047), (370, 33029), (374, 32996), (393, 32894), (396, 32888), (408, 32834), (415, 32807), (418, 32795), (430, 32741), (447, 32678), (454, 32648), (463, 32621), (472, 32582),

Gene: Goby_47 Start: 32483, Stop: 34573, Start Num: 48

Candidate Starts for Goby_47:
(16, 32399), (Start: 48 @32483 has 546 MA's), (Start: 61 @32528 has 1 MA's), (79, 32639), (Start: 88 @32693 has 3 MA's), (90, 32699), (Start: 97 @32744 has 1 MA's), (114, 32825), (116, 32834), (131, 32912), (134, 32921), (141, 32954), (156, 33014), (158, 33047), (163, 33071), (172, 33113), (182, 33191), (183, 33194), (200, 33251), (207, 33281), (216, 33344), (218, 33353), (229, 33404), (248, 33473), (283, 33518), (287, 33530), (296, 33587), (305, 33662), (318, 33719), (321, 33740), (327, 33776), (338, 33827), (346, 33863), (358, 33923), (370, 33986), (371, 33992), (373, 34001), (378, 34037), (382, 34085), (384, 34097), (395, 34124), (398, 34136), (407, 34190), (410, 34196), (420, 34241), (425, 34259), (426, 34262), (436, 34295), (441, 34313), (447, 34343), (450, 34355), (457, 34382), (473, 34442), (488, 34514), (495, 34565),

Gene: Godpower_48 Start: 32463, Stop: 34553, Start Num: 48
Candidate Starts for Godpower_48:
(Start: 48 @32463 has 546 MA's), (Start: 61 @32508 has 1 MA's), (79, 32619), (82, 32640), (Start: 88 @32673 has 3 MA's), (90, 32679), (Start: 97 @32724 has 1 MA's), (114, 32805), (116, 32814), (117, 32829), (131, 32892), (141, 32934), (156, 32994), (158, 33027), (163, 33051), (172, 33093), (173, 33102), (182, 33171), (183, 33174), (200, 33231), (207, 33261), (216, 33324), (218, 33333), (229, 33384), (248, 33453), (283, 33498), (287, 33510), (305, 33642), (318, 33699), (321, 33720), (327, 33756), (338, 33807), (346, 33843), (358, 33903), (370, 33966), (371, 33972), (373, 33981), (378, 34017), (384, 34077), (395, 34104), (398, 34116), (399, 34119), (407, 34170), (410, 34176), (420, 34221), (425, 34239), (426, 34242), (436, 34275), (441, 34293), (447, 34323), (450, 34335), (457, 34362), (473, 34422), (488, 34494), (495, 34545),

Gene: Gollum_41 Start: 32072, Stop: 30027, Start Num: 46
Candidate Starts for Gollum_41:
(Start: 46 @32072 has 38 MA's), (74, 31952), (87, 31883), (Start: 97 @31829 has 1 MA's), (114, 31748), (116, 31739), (125, 31679), (131, 31661), (156, 31559), (158, 31526), (159, 31523), (161, 31514), (167, 31493), (171, 31472), (172, 31463), (178, 31400), (182, 31385), (184, 31379), (207, 31319), (213, 31286), (216, 31256), (217, 31250), (218, 31247), (259, 31112), (312, 30899), (320, 30866), (338, 30776), (340, 30767), (367, 30635), (376, 30575), (385, 30503), (398, 30464), (399, 30461), (402, 30449), (418, 30377), (432, 30314), (436, 30305), (443, 30278), (477, 30143),

Gene: Goose_49 Start: 34995, Stop: 32914, Start Num: 35
Candidate Starts for Goose_49:
(Start: 35 @34995 has 17 MA's), (Start: 73 @34854 has 4 MA's), (74, 34851), (78, 34830), (Start: 97 @34728 has 1 MA's), (102, 34695), (114, 34647), (116, 34638), (125, 34581), (141, 34521), (148, 34506), (159, 34425), (172, 34365), (182, 34287), (185, 34275), (206, 34224), (207, 34215), (212, 34185), (216, 34152), (217, 34146), (218, 34143), (273, 33978), (280, 33960), (291, 33915), (298, 33873), (321, 33735), (341, 33633), (345, 33615), (355, 33564), (356, 33561), (369, 33495), (370, 33489), (373, 33474), (376, 33447), (378, 33438), (384, 33378), (407, 33303), (408, 33300), (410, 33297), (419, 33258), (430, 33207), (432, 33201), (447, 33144), (477, 33030), (488, 32973),

Gene: Goose1D_45 Start: 31822, Stop: 29762, Start Num: 48
Candidate Starts for Goose1D_45:
(Start: 48 @31822 has 546 MA's), (Start: 73 @31714 has 4 MA's), (92, 31624), (Start: 97 @31588 has 1 MA's), (102, 31555), (114, 31507), (116, 31498), (141, 31381), (159, 31285), (172, 31225), (182, 31147), (207, 31075), (212, 31045), (213, 31042), (214, 31030), (216, 31012), (217, 31006), (218, 31003), (234, 30922), (287, 30799), (288, 30796), (321, 30595), (333, 30535), (341, 30493), (345, 30475), (369, 30355), (370, 30349), (373, 30334), (376, 30307), (403, 30169), (419, 30106), (443, 30013), (447, 29992), (471, 29911), (477, 29878),

Gene: Goose1X_51 Start: 34964, Stop: 32904, Start Num: 48
Candidate Starts for Goose1X_51:

(Start: 48 @34964 has 546 MA's), (Start: 73 @34856 has 4 MA's), (92, 34766), (Start: 97 @34730 has 1 MA's), (102, 34697), (114, 34649), (116, 34640), (141, 34523), (159, 34427), (172, 34367), (182, 34289), (207, 34217), (212, 34187), (213, 34184), (214, 34172), (216, 34154), (217, 34148), (218, 34145), (234, 34064), (287, 33941), (288, 33938), (321, 33737), (333, 33677), (341, 33635), (345, 33617), (369, 33497), (370, 33491), (373, 33476), (376, 33449), (403, 33311), (419, 33248), (443, 33155), (447, 33134), (471, 33053), (477, 33020),

Gene: Gratitude_52 Start: 35992, Stop: 33956, Start Num: 48
Candidate Starts for Gratitude_52:
(Start: 48 @35992 has 546 MA's), (Start: 61 @35953 has 1 MA's), (Start: 73 @35881 has 4 MA's), (Start: 88 @35806 has 3 MA's), (Start: 97 @35755 has 1 MA's), (102, 35722), (116, 35665), (125, 35605), (134, 35578), (141, 35545), (172, 35389), (182, 35311), (185, 35299), (204, 35257), (207, 35239), (212, 35209), (213, 35206), (214, 35194), (216, 35176), (217, 35170), (218, 35167), (280, 35008), (291, 34963), (298, 34921), (321, 34783), (327, 34747), (341, 34681), (343, 34669), (367, 34555), (370, 34537), (378, 34486), (391, 34405), (396, 34396), (408, 34342), (416, 34312), (418, 34303), (430, 34249), (447, 34186), (461, 34138), (463, 34129),

Gene: GreedyLawyer_53 Start: 34814, Stop: 32790, Start Num: 48
Candidate Starts for GreedyLawyer_53:
(33, 34847), (Start: 48 @34814 has 546 MA's), (Start: 88 @34628 has 3 MA's), (102, 34544), (114, 34496), (116, 34487), (125, 34427), (141, 34367), (155, 34310), (159, 34271), (168, 34238), (172, 34211), (173, 34202), (178, 34148), (182, 34133), (207, 34061), (212, 34031), (216, 33998), (217, 33992), (218, 33989), (291, 33797), (318, 33638), (321, 33617), (343, 33503), (356, 33443), (358, 33434), (367, 33389), (370, 33371), (374, 33338), (393, 33236), (396, 33230), (408, 33176), (415, 33149), (416, 33146), (418, 33137), (430, 33083), (447, 33020), (454, 32990), (463, 32963),

Gene: GreenWeasel_48 Start: 31722, Stop: 33791, Start Num: 48
Candidate Starts for GreenWeasel_48:
(Start: 48 @31722 has 546 MA's), (Start: 88 @31929 has 3 MA's), (Start: 97 @31980 has 1 MA's), (116, 32073), (134, 32160), (136, 32172), (141, 32193), (159, 32289), (163, 32310), (182, 32430), (183, 32433), (189, 32463), (207, 32502), (212, 32532), (214, 32547), (216, 32565), (233, 32649), (278, 32727), (287, 32751), (302, 32871), (305, 32883), (315, 32931), (321, 32961), (327, 32997), (335, 33024), (373, 33222), (376, 33249), (384, 33318), (388, 33336), (398, 33357), (410, 33417), (420, 33462), (441, 33534), (451, 33582), (473, 33660), (486, 33729), (495, 33783),

Gene: Grif_54 Start: 35981, Stop: 33963, Start Num: 55
Candidate Starts for Grif_54:
(Start: 55 @35981 has 103 MA's), (Start: 71 @35888 has 1 MA's), (Start: 73 @35879 has 4 MA's), (78, 35855), (Start: 88 @35804 has 3 MA's), (Start: 97 @35753 has 1 MA's), (114, 35672), (116, 35663), (141, 35543), (156, 35483), (159, 35447), (172, 35387), (182, 35309), (207, 35237), (212, 35207), (216, 35174), (217, 35168), (218, 35165), (234, 35084), (242, 35054), (287, 35000), (312, 34829), (333, 34733), (341, 34691), (345, 34673), (355, 34625), (358, 34613), (369, 34556), (370, 34550), (373, 34535), (376, 34508), (383, 34445), (384, 34439), (391, 34415), (418, 34310), (436, 34241), (441, 34223), (443, 34214), (447, 34193), (470, 34115), (477, 34079), (490, 34016),

Gene: Groundhog_46 Start: 33924, Stop: 31879, Start Num: 48
Candidate Starts for Groundhog_46:
(Start: 48 @33924 has 546 MA's), (75, 33798), (87, 33741), (Start: 88 @33738 has 3 MA's), (Start: 97 @33687 has 1 MA's), (102, 33654), (114, 33606), (116, 33597), (121, 33555), (149, 33459), (155, 33420), (160, 33375), (171, 33330), (172, 33321), (178, 33258), (179, 33252), (182, 33243), (183, 33240), (207, 33171), (212, 33141), (213, 33138), (216, 33108), (217, 33102), (218, 33099), (291, 32901), (321, 32718), (327, 32682), (341, 32616), (363, 32517), (376, 32430), (378, 32421), (392, 32337), (416, 32235), (426, 32190), (443, 32130), (447, 32109), (451, 32091), (491, 31920),

Gene: Groupthink_55 Start: 35796, Stop: 33781, Start Num: 55
Candidate Starts for Groupthink_55:
(Start: 55 @35796 has 103 MA's), (Start: 71 @35703 has 1 MA's), (Start: 73 @35694 has 4 MA's), (Start: 88 @35619 has 3 MA's), (Start: 97 @35568 has 1 MA's), (114, 35487), (116, 35478), (125, 35421), (141, 35361), (156, 35301), (159, 35265), (172, 35205), (173, 35196), (182, 35127), (185, 35115), (207, 35055), (212, 35025), (213, 35022), (214, 35010), (216, 34992), (217, 34986), (218, 34983), (225, 34950), (261, 34848), (287, 34818), (312, 34647), (320, 34614), (323, 34596), (327, 34575), (333, 34551), (341, 34509), (345, 34491), (355, 34443), (370, 34368), (376, 34326), (383, 34263), (384, 34257), (391, 34233), (418, 34128), (436, 34059), (441, 34041), (443, 34032), (447, 34011), (470, 33933), (477, 33897), (490, 33834),

Gene: Grub_54 Start: 35898, Stop: 33880, Start Num: 55
Candidate Starts for Grub_54:
(Start: 55 @35898 has 103 MA's), (Start: 73 @35796 has 4 MA's), (78, 35772), (Start: 88 @35721 has 3 MA's), (Start: 97 @35670 has 1 MA's), (114, 35589), (116, 35580), (141, 35460), (156, 35400), (159, 35364), (172, 35304), (182, 35226), (207, 35154), (212, 35124), (216, 35091), (217, 35085), (218, 35082), (234, 35001), (242, 34971), (287, 34917), (312, 34746), (333, 34650), (341, 34608), (345, 34590), (355, 34542), (358, 34530), (369, 34473), (370, 34467), (373, 34452), (376, 34425), (383, 34362), (384, 34356), (391, 34332), (418, 34227), (436, 34158), (441, 34140), (443, 34131), (447, 34110), (470, 34032), (477, 33996), (490, 33933),

Gene: Grum1_54 Start: 35906, Stop: 33888, Start Num: 55
Candidate Starts for Grum1_54:
(Start: 55 @35906 has 103 MA's), (Start: 71 @35813 has 1 MA's), (Start: 73 @35804 has 4 MA's), (78, 35780), (Start: 88 @35729 has 3 MA's), (Start: 97 @35678 has 1 MA's), (114, 35597), (116, 35588), (141, 35468), (156, 35408), (159, 35372), (172, 35312), (182, 35234), (207, 35162), (212, 35132), (216, 35099), (217, 35093), (218, 35090), (234, 35009), (242, 34979), (287, 34925), (312, 34754), (333, 34658), (341, 34616), (345, 34598), (355, 34550), (358, 34538), (369, 34481), (370, 34475), (373, 34460), (376, 34433), (383, 34370), (384, 34364), (391, 34340), (418, 34235), (436, 34166), (441, 34148), (443, 34139), (447, 34118), (470, 34040), (477, 34004), (490, 33941),

Gene: Gruunaga_54 Start: 35201, Stop: 33147, Start Num: 48
Candidate Starts for Gruunaga_54:
(Start: 48 @35201 has 546 MA's), (Start: 88 @35015 has 3 MA's), (Start: 97 @34964 has 1 MA's), (102, 34931), (114, 34883), (116, 34874), (125, 34814), (141, 34754), (155, 34697), (159, 34658), (168, 34625), (172, 34598), (173, 34589), (182, 34520), (207, 34448), (212, 34418), (216, 34385), (217, 34379), (218, 34376), (236, 34289), (258, 34235), (278, 34202), (291, 34154), (298, 34112), (321, 33974), (343, 33860), (356, 33800), (358, 33791), (367, 33746), (370, 33728), (374, 33695), (393, 33593), (396, 33587), (408, 33533), (415, 33506), (418, 33494), (430, 33440), (447, 33377), (454, 33347), (463, 33320), (472, 33281),

Gene: GtownJaz_54 Start: 35908, Stop: 33890, Start Num: 55
Candidate Starts for GtownJaz_54:
(Start: 55 @35908 has 103 MA's), (Start: 71 @35815 has 1 MA's), (Start: 73 @35806 has 4 MA's), (78, 35782), (Start: 88 @35731 has 3 MA's), (Start: 97 @35680 has 1 MA's), (114, 35599), (116, 35590), (141, 35470), (156, 35410), (159, 35374), (172, 35314), (182, 35236), (207, 35164), (212, 35134), (216, 35101), (217, 35095), (218, 35092), (234, 35011), (242, 34981), (287, 34927), (312, 34756), (333, 34660), (341, 34618), (345, 34600), (355, 34552), (358, 34540), (369, 34483), (370, 34477), (373, 34462), (376, 34435), (383, 34372), (384, 34366), (391, 34342), (418, 34237), (436, 34168), (441, 34150), (443, 34141), (447, 34120), (470, 34042), (477, 34006), (490, 33943),

Gene: Gwennie_54 Start: 35910, Stop: 33892, Start Num: 55

Candidate Starts for Gwennie_54:
(Start: 55 @35910 has 103 MA's), (Start: 71 @35817 has 1 MA's), (Start: 73 @35808 has 4 MA's), (78, 35784), (Start: 88 @35733 has 3 MA's), (Start: 97 @35682 has 1 MA's), (114, 35601), (116, 35592), (141, 35472), (156, 35412), (159, 35376), (172, 35316), (182, 35238), (207, 35166), (212, 35136), (216, 35103), (217, 35097), (218, 35094), (234, 35013), (242, 34983), (287, 34929), (312, 34758), (333, 34662), (341, 34620), (345, 34602), (355, 34554), (358, 34542), (369, 34485), (370, 34479), (373, 34464), (376, 34437), (383, 34374), (384, 34368), (391, 34344), (418, 34239), (436, 34170), (441, 34152), (443, 34143), (447, 34122), (470, 34044), (477, 34008), (490, 33945),

Gene: HINdeR_46 Start: 36239, Stop: 34212, Start Num: 48
Candidate Starts for HINdeR_46:
(Start: 48 @36239 has 546 MA's), (Start: 88 @36053 has 3 MA's), (Start: 97 @36002 has 1 MA's), (100, 35984), (102, 35969), (116, 35912), (134, 35825), (141, 35792), (149, 35774), (168, 35663), (172, 35636), (182, 35558), (183, 35555), (185, 35546), (207, 35486), (213, 35453), (214, 35441), (216, 35423), (217, 35417), (218, 35414), (235, 35330), (236, 35327), (287, 35240), (288, 35237), (318, 35057), (321, 35036), (327, 35000), (334, 34973), (345, 34916), (365, 34826), (369, 34796), (373, 34775), (378, 34739), (388, 34661), (416, 34568), (419, 34556), (430, 34505), (444, 34460), (466, 34379), (467, 34376), (477, 34328),

Gene: Haizum_49 Start: 32987, Stop: 35110, Start Num: 48
Candidate Starts for Haizum_49:
(19, 32909), (34, 32951), (41, 32969), (Start: 48 @32987 has 546 MA's), (Start: 88 @33197 has 3 MA's), (90, 33203), (114, 33329), (116, 33338), (131, 33416), (134, 33425), (136, 33437), (141, 33458), (163, 33575), (172, 33617), (173, 33626), (182, 33695), (207, 33803), (212, 33833), (213, 33836), (216, 33866), (268, 34031), (287, 34067), (302, 34187), (321, 34277), (327, 34313), (335, 34340), (358, 34460), (370, 34523), (371, 34529), (373, 34538), (378, 34574), (384, 34634), (395, 34661), (398, 34673), (402, 34691), (407, 34727), (410, 34733), (420, 34778), (426, 34799), (436, 34832), (441, 34850), (447, 34880), (450, 34892), (459, 34925), (473, 34979), (486, 35048), (495, 35102),

Gene: HamSlice_49 Start: 35446, Stop: 33413, Start Num: 48
Candidate Starts for HamSlice_49:
(Start: 48 @35446 has 546 MA's), (68, 35383), (Start: 73 @35335 has 4 MA's), (78, 35311), (92, 35245), (Start: 97 @35209 has 1 MA's), (102, 35176), (114, 35128), (116, 35119), (125, 35062), (134, 35035), (141, 35002), (172, 34846), (173, 34837), (182, 34768), (207, 34696), (212, 34666), (213, 34663), (216, 34633), (217, 34627), (218, 34624), (236, 34537), (251, 34507), (261, 34495), (269, 34486), (287, 34438), (321, 34234), (341, 34132), (345, 34114), (373, 33973), (376, 33946), (407, 33802), (408, 33799), (416, 33769), (430, 33706), (441, 33673), (443, 33664), (447, 33643), (461, 33595), (477, 33529),

Gene: Hammer_54 Start: 34784, Stop: 32730, Start Num: 48
Candidate Starts for Hammer_54:
(Start: 48 @34784 has 546 MA's), (Start: 88 @34598 has 3 MA's), (Start: 97 @34547 has 1 MA's), (102, 34514), (114, 34466), (116, 34457), (125, 34397), (141, 34337), (155, 34280), (159, 34241), (168, 34208), (172, 34181), (173, 34172), (178, 34118), (182, 34103), (207, 34031), (212, 34001), (216, 33968), (217, 33962), (218, 33959), (236, 33872), (258, 33818), (278, 33785), (291, 33737), (298, 33695), (321, 33557), (343, 33443), (356, 33383), (358, 33374), (367, 33329), (370, 33311), (374, 33278), (393, 33176), (396, 33170), (408, 33116), (418, 33077), (430, 33023), (447, 32960), (454, 32930), (463, 32903), (472, 32864),

Gene: HangryHippo_43 Start: 19641, Stop: 21584, Start Num: 64
Candidate Starts for HangryHippo_43:

(Start: 52 @19596 has 24 MA's), (Start: 55 @19605 has 103 MA's), (Start: 64 @19641 has 81 MA's), (Start: 67 @19647 has 1 MA's), (83, 19749), (86, 19770), (90, 19779), (93, 19791), (108, 19869), (110, 19878), (111, 19887), (112, 19890), (132, 19995), (156, 20094), (204, 20304), (239, 20505), (245, 20517), (314, 20730), (336, 20835), (345, 20877), (348, 20895), (379, 21051), (401, 21159), (439, 21330), (448, 21369), (476, 21468),

Gene: Hank144_50 Start: 33089, Stop: 35194, Start Num: 48
Candidate Starts for Hank144_50:
(Start: 48 @33089 has 546 MA's), (79, 33245), (Start: 88 @33299 has 3 MA's), (90, 33305), (Start: 97 @33350 has 1 MA's), (114, 33431), (116, 33440), (133, 33524), (134, 33527), (136, 33539), (141, 33560), (145, 33569), (163, 33677), (172, 33719), (182, 33797), (194, 33842), (207, 33887), (216, 33950), (268, 34115), (277, 34124), (287, 34151), (321, 34361), (327, 34397), (341, 34463), (370, 34607), (371, 34613), (373, 34622), (378, 34658), (381, 34697), (384, 34718), (398, 34757), (403, 34787), (407, 34811), (436, 34916), (441, 34934), (450, 34976), (473, 35063), (486, 35132), (495, 35186),

Gene: Hanray_51 Start: 35723, Stop: 33684, Start Num: 48
Candidate Starts for Hanray_51:
(Start: 48 @35723 has 546 MA's), (Start: 73 @35609 has 4 MA's), (75, 35594), (78, 35585), (Start: 97 @35483 has 1 MA's), (116, 35393), (125, 35333), (126, 35330), (141, 35273), (171, 35126), (172, 35117), (182, 35039), (185, 35027), (207, 34973), (212, 34943), (214, 34928), (216, 34910), (217, 34904), (218, 34901), (280, 34736), (291, 34691), (321, 34511), (341, 34409), (356, 34337), (374, 34232), (376, 34223), (408, 34070), (416, 34040), (430, 33977), (447, 33914),

Gene: Happiness_49 Start: 35467, Stop: 33416, Start Num: 48
Candidate Starts for Happiness_49:
(Start: 48 @35467 has 546 MA's), (68, 35404), (Start: 73 @35356 has 4 MA's), (74, 35353), (92, 35266), (Start: 97 @35230 has 1 MA's), (102, 35197), (114, 35149), (116, 35140), (125, 35083), (134, 35056), (141, 35023), (148, 35008), (172, 34867), (173, 34858), (182, 34789), (207, 34717), (212, 34687), (213, 34684), (216, 34654), (217, 34648), (218, 34645), (268, 34492), (287, 34441), (321, 34237), (341, 34135), (345, 34117), (373, 33976), (376, 33949), (407, 33805), (408, 33802), (416, 33772), (430, 33709), (441, 33676), (443, 33667), (447, 33646), (461, 33598), (477, 33532),

Gene: Harlequin_40 Start: 31858, Stop: 29813, Start Num: 46
Candidate Starts for Harlequin_40:
(Start: 46 @31858 has 38 MA's), (74, 31738), (87, 31669), (Start: 97 @31615 has 1 MA's), (114, 31534), (116, 31525), (156, 31345), (158, 31312), (159, 31309), (161, 31300), (167, 31279), (172, 31249), (178, 31186), (182, 31171), (184, 31165), (207, 31105), (213, 31072), (216, 31042), (217, 31036), (218, 31033), (259, 30898), (308, 30703), (312, 30685), (320, 30652), (338, 30562), (340, 30553), (367, 30421), (376, 30361), (385, 30289), (398, 30250), (399, 30247), (402, 30235), (408, 30202), (418, 30163), (436, 30091), (443, 30064), (447, 30043), (451, 30025), (470, 29965), (477, 29929),

Gene: HarryHoudini_52 Start: 36178, Stop: 34142, Start Num: 48
Candidate Starts for HarryHoudini_52:
(1, 36427), (Start: 48 @36178 has 546 MA's), (Start: 61 @36139 has 1 MA's), (Start: 73 @36067 has 4 MA's), (Start: 88 @35992 has 3 MA's), (Start: 97 @35941 has 1 MA's), (102, 35908), (116, 35851), (125, 35791), (134, 35764), (141, 35731), (172, 35575), (182, 35497), (185, 35485), (204, 35443), (207, 35425), (212, 35395), (213, 35392), (214, 35380), (216, 35362), (217, 35356), (218, 35353), (280, 35194), (291, 35149), (298, 35107), (321, 34969), (327, 34933), (341, 34867), (343, 34855), (356, 34795), (367, 34741), (370, 34723), (378, 34672), (391, 34591), (396, 34582), (408, 34528), (416, 34498), (418, 34489), (430, 34435), (447, 34372), (461, 34324), (463, 34315),

Gene: HashRod_55 Start: 35934, Stop: 33916, Start Num: 55
Candidate Starts for HashRod_55:
(Start: 55 @35934 has 103 MA's), (Start: 71 @35841 has 1 MA's), (Start: 73 @35832 has 4 MA's), (78, 35808), (Start: 88 @35757 has 3 MA's), (Start: 97 @35706 has 1 MA's), (114, 35625), (116, 35616), (141, 35499), (159, 35403), (172, 35343), (179, 35274), (182, 35265), (183, 35262), (185, 35253), (207, 35193), (212, 35163), (213, 35160), (214, 35148), (216, 35130), (217, 35124), (218, 35121), (239, 35016), (242, 35010), (287, 34953), (321, 34749), (323, 34734), (327, 34713), (333, 34689), (338, 34662), (341, 34647), (369, 34509), (370, 34503), (373, 34488), (376, 34461), (383, 34398), (384, 34392), (391, 34368), (418, 34263), (426, 34227), (447, 34146), (470, 34068), (477, 34032), (490, 33969),

Gene: HaveUMetTed_55 Start: 35781, Stop: 33766, Start Num: 55
Candidate Starts for HaveUMetTed_55:
(Start: 55 @35781 has 103 MA's), (Start: 71 @35688 has 1 MA's), (Start: 73 @35679 has 4 MA's), (78, 35655), (Start: 88 @35604 has 3 MA's), (Start: 97 @35553 has 1 MA's), (114, 35472), (116, 35463), (125, 35406), (141, 35346), (156, 35286), (159, 35250), (172, 35190), (173, 35181), (182, 35112), (185, 35100), (207, 35040), (212, 35010), (213, 35007), (214, 34995), (216, 34977), (217, 34971), (218, 34968), (225, 34935), (261, 34833), (287, 34803), (312, 34632), (323, 34581), (327, 34560), (333, 34536), (341, 34494), (345, 34476), (355, 34428), (369, 34359), (370, 34353), (376, 34311), (383, 34248), (384, 34242), (391, 34218), (418, 34113), (436, 34044), (441, 34026), (443, 34017), (447, 33996), (470, 33918), (477, 33882), (490, 33819),

Gene: Heathen_51 Start: 35430, Stop: 33370, Start Num: 48
Candidate Starts for Heathen_51:
(Start: 48 @35430 has 546 MA's), (74, 35316), (92, 35229), (Start: 97 @35193 has 1 MA's), (102, 35160), (114, 35112), (116, 35103), (141, 34983), (168, 34854), (172, 34827), (173, 34818), (182, 34749), (188, 34728), (190, 34725), (207, 34683), (212, 34653), (213, 34650), (214, 34638), (216, 34620), (217, 34614), (218, 34611), (287, 34407), (321, 34203), (327, 34167), (333, 34143), (341, 34101), (345, 34083), (369, 33963), (370, 33957), (373, 33942), (376, 33915), (403, 33777), (419, 33714), (443, 33621), (447, 33600), (471, 33519), (477, 33486),

Gene: Heffalump_50 Start: 36497, Stop: 34434, Start Num: 48
Candidate Starts for Heffalump_50:
(Start: 48 @36497 has 546 MA's), (59, 36458), (Start: 73 @36383 has 4 MA's), (74, 36380), (Start: 88 @36308 has 3 MA's), (Start: 97 @36257 has 1 MA's), (100, 36239), (109, 36203), (116, 36167), (141, 36047), (159, 35951), (171, 35900), (172, 35891), (182, 35813), (207, 35741), (212, 35711), (213, 35708), (214, 35696), (216, 35678), (217, 35672), (218, 35669), (244, 35558), (280, 35486), (291, 35441), (298, 35399), (321, 35261), (327, 35225), (341, 35159), (343, 35147), (356, 35087), (367, 35033), (370, 35015), (408, 34820), (418, 34781), (419, 34778), (430, 34727), (432, 34721), (447, 34664), (454, 34634), (492, 34466),

Gene: HelDan_51 Start: 35646, Stop: 33622, Start Num: 48
Candidate Starts for HelDan_51:
(Start: 48 @35646 has 546 MA's), (74, 35532), (92, 35445), (Start: 97 @35409 has 1 MA's), (102, 35376), (114, 35328), (116, 35319), (141, 35199), (168, 35070), (172, 35043), (173, 35034), (182, 34965), (188, 34944), (190, 34941), (207, 34899), (212, 34869), (214, 34854), (216, 34836), (217, 34830), (218, 34827), (239, 34722), (242, 34716), (287, 34659), (294, 34620), (321, 34455), (327, 34419), (333, 34395), (341, 34353), (345, 34335), (369, 34215), (370, 34209), (373, 34194), (376, 34167), (378, 34158), (403, 34029), (419, 33966), (443, 33873), (447, 33852), (471, 33771), (477, 33738),

Gene: Heliosoles_53 Start: 35799, Stop: 33784, Start Num: 55
Candidate Starts for Heliosoles_53:

(Start: 55 @35799 has 103 MA's), (Start: 71 @35706 has 1 MA's), (Start: 73 @35697 has 4 MA's), (Start: 88 @35622 has 3 MA's), (Start: 97 @35571 has 1 MA's), (114, 35490), (116, 35481), (125, 35424), (141, 35364), (156, 35304), (159, 35268), (172, 35208), (173, 35199), (182, 35130), (185, 35118), (207, 35058), (212, 35028), (213, 35025), (214, 35013), (216, 34995), (217, 34989), (218, 34986), (225, 34953), (261, 34851), (287, 34821), (312, 34650), (320, 34617), (323, 34599), (327, 34578), (333, 34554), (341, 34512), (345, 34494), (355, 34446), (370, 34371), (376, 34329), (383, 34266), (384, 34260), (391, 34236), (418, 34131), (436, 34062), (441, 34044), (443, 34035), (447, 34014), (470, 33936), (477, 33900), (490, 33837),

Gene: Helmet_56 Start: 35277, Stop: 33223, Start Num: 48
Candidate Starts for Helmet_56:
(Start: 48 @35277 has 546 MA's), (Start: 88 @35091 has 3 MA's), (Start: 97 @35040 has 1 MA's), (102, 35007), (114, 34959), (116, 34950), (125, 34890), (141, 34830), (155, 34773), (159, 34734), (168, 34701), (172, 34674), (173, 34665), (178, 34611), (182, 34596), (207, 34524), (212, 34494), (216, 34461), (217, 34455), (218, 34452), (236, 34365), (258, 34311), (278, 34278), (291, 34230), (298, 34188), (321, 34050), (343, 33936), (356, 33876), (358, 33867), (367, 33822), (370, 33804), (374, 33771), (393, 33669), (396, 33663), (408, 33609), (415, 33582), (418, 33570), (430, 33516), (447, 33453), (454, 33423), (463, 33396), (472, 33357),

Gene: Herbertwm_51 Start: 35623, Stop: 33575, Start Num: 48
Candidate Starts for Herbertwm_51:
(23, 35656), (Start: 48 @35623 has 546 MA's), (Start: 88 @35440 has 3 MA's), (Start: 97 @35389 has 1 MA's), (102, 35356), (114, 35308), (116, 35299), (141, 35179), (159, 35083), (172, 35023), (182, 34945), (190, 34921), (199, 34897), (207, 34873), (212, 34843), (213, 34840), (216, 34810), (217, 34804), (218, 34801), (278, 34633), (280, 34630), (291, 34585), (298, 34543), (321, 34405), (333, 34345), (341, 34303), (369, 34165), (370, 34159), (378, 34108), (408, 33964), (410, 33961), (418, 33925), (426, 33886), (436, 33853), (443, 33826), (447, 33805),

Gene: Hercules11_54 Start: 35915, Stop: 33897, Start Num: 55
Candidate Starts for Hercules11_54:
(Start: 55 @35915 has 103 MA's), (Start: 71 @35822 has 1 MA's), (Start: 73 @35813 has 4 MA's), (78, 35789), (Start: 88 @35738 has 3 MA's), (Start: 97 @35687 has 1 MA's), (114, 35606), (116, 35597), (141, 35477), (156, 35417), (159, 35381), (172, 35321), (182, 35243), (207, 35171), (212, 35141), (216, 35108), (217, 35102), (218, 35099), (234, 35018), (242, 34988), (287, 34934), (312, 34763), (333, 34667), (341, 34625), (345, 34607), (355, 34559), (358, 34547), (369, 34490), (370, 34484), (373, 34469), (376, 34442), (383, 34379), (384, 34373), (391, 34349), (418, 34244), (436, 34175), (441, 34157), (443, 34148), (447, 34127), (470, 34049), (477, 34013), (490, 33950),

Gene: Hexamo_54 Start: 34907, Stop: 32853, Start Num: 48
Candidate Starts for Hexamo_54:
(Start: 48 @34907 has 546 MA's), (Start: 88 @34721 has 3 MA's), (Start: 97 @34670 has 1 MA's), (102, 34637), (114, 34589), (116, 34580), (125, 34520), (141, 34460), (155, 34403), (159, 34364), (168, 34331), (172, 34304), (173, 34295), (182, 34226), (207, 34154), (212, 34124), (216, 34091), (217, 34085), (218, 34082), (236, 33995), (258, 33941), (278, 33908), (291, 33860), (298, 33818), (321, 33680), (343, 33566), (356, 33506), (358, 33497), (367, 33452), (370, 33434), (374, 33401), (393, 33299), (396, 33293), (408, 33239), (415, 33212), (418, 33200), (430, 33146), (447, 33083), (454, 33053), (463, 33026), (472, 32987),

Gene: Hippo_47 Start: 32005, Stop: 34095, Start Num: 48
Candidate Starts for Hippo_47:
(31, 31963), (34, 31969), (Start: 48 @32005 has 546 MA's), (Start: 73 @32122 has 4 MA's), (79, 32161), (82, 32182), (Start: 88 @32215 has 3 MA's), (Start: 97 @32266 has 1 MA's), (114, 32347), (116, 32356), (131, 32434), (141, 32476), (156, 32536), (158, 32569), (163, 32593), (172, 32635),

(173, 32644), (182, 32713), (183, 32716), (207, 32803), (216, 32866), (218, 32875), (229, 32926), (248, 32995), (283, 33040), (287, 33052), (305, 33184), (321, 33262), (323, 33277), (327, 33298), (338, 33349), (370, 33508), (371, 33514), (373, 33523), (378, 33559), (384, 33619), (395, 33646), (398, 33658), (399, 33661), (407, 33712), (410, 33718), (426, 33784), (436, 33817), (441, 33835), (447, 33865), (450, 33877), (457, 33904), (473, 33964), (488, 34036),

Gene: HippoHollow_51 Start: 37257, Stop: 35194, Start Num: 48
Candidate Starts for HippoHollow_51:
(Start: 48 @37257 has 546 MA's), (Start: 73 @37143 has 4 MA's), (74, 37140), (Start: 88 @37068 has 3 MA's), (Start: 97 @37017 has 1 MA's), (116, 36927), (125, 36867), (141, 36807), (172, 36651), (182, 36573), (207, 36501), (212, 36471), (213, 36468), (214, 36456), (216, 36438), (217, 36432), (218, 36429), (244, 36318), (280, 36246), (291, 36201), (298, 36159), (321, 36021), (327, 35985), (341, 35919), (343, 35907), (356, 35847), (367, 35793), (369, 35781), (370, 35775), (374, 35742), (399, 35625), (408, 35580), (410, 35577), (418, 35541), (430, 35487), (447, 35424), (461, 35376), (463, 35367),

Gene: Hiro_41 Start: 32334, Stop: 30289, Start Num: 46
Candidate Starts for Hiro_41:
(Start: 46 @32334 has 38 MA's), (74, 32214), (87, 32145), (Start: 97 @32091 has 1 MA's), (114, 32010), (116, 32001), (125, 31941), (156, 31821), (158, 31788), (159, 31785), (161, 31776), (167, 31755), (172, 31725), (178, 31662), (182, 31647), (184, 31641), (207, 31581), (216, 31518), (217, 31512), (218, 31509), (259, 31374), (308, 31179), (312, 31161), (340, 31029), (367, 30897), (376, 30837), (385, 30765), (398, 30726), (399, 30723), (402, 30711), (408, 30678), (418, 30639), (432, 30576), (436, 30567), (443, 30540), (447, 30519), (470, 30441), (477, 30405),

Gene: Holex_51 Start: 35739, Stop: 33700, Start Num: 48
Candidate Starts for Holex_51:
(Start: 48 @35739 has 546 MA's), (Start: 73 @35625 has 4 MA's), (75, 35610), (78, 35601), (Start: 97 @35499 has 1 MA's), (116, 35409), (125, 35349), (126, 35346), (141, 35289), (171, 35142), (172, 35133), (182, 35055), (185, 35043), (207, 34989), (212, 34959), (214, 34944), (216, 34926), (217, 34920), (218, 34917), (280, 34752), (291, 34707), (321, 34527), (341, 34425), (356, 34353), (374, 34248), (376, 34239), (408, 34086), (416, 34056), (430, 33993), (447, 33930),

Gene: Holli_49 Start: 35238, Stop: 33205, Start Num: 48
Candidate Starts for Holli_49:
(Start: 48 @35238 has 546 MA's), (68, 35175), (Start: 73 @35127 has 4 MA's), (78, 35103), (92, 35037), (Start: 97 @35001 has 1 MA's), (102, 34968), (114, 34920), (116, 34911), (125, 34854), (134, 34827), (141, 34794), (172, 34638), (173, 34629), (182, 34560), (207, 34488), (212, 34458), (213, 34455), (216, 34425), (217, 34419), (218, 34416), (236, 34329), (247, 34305), (251, 34299), (261, 34287), (269, 34278), (287, 34230), (321, 34026), (341, 33924), (345, 33906), (373, 33765), (376, 33738), (407, 33594), (408, 33591), (416, 33561), (430, 33498), (441, 33465), (443, 33456), (447, 33435), (461, 33387), (477, 33321),

Gene: Hookmount_50 Start: 35711, Stop: 33693, Start Num: 55
Candidate Starts for Hookmount_50:
(Start: 55 @35711 has 103 MA's), (Start: 71 @35618 has 1 MA's), (Start: 73 @35609 has 4 MA's), (77, 35588), (92, 35519), (Start: 97 @35483 has 1 MA's), (102, 35450), (114, 35402), (116, 35393), (141, 35276), (159, 35180), (172, 35120), (179, 35051), (182, 35042), (185, 35030), (207, 34970), (212, 34940), (213, 34937), (214, 34925), (216, 34907), (217, 34901), (218, 34898), (239, 34793), (242, 34787), (287, 34730), (321, 34526), (333, 34466), (341, 34424), (345, 34406), (358, 34343), (370, 34280), (373, 34265), (376, 34238), (385, 34166), (408, 34079), (419, 34037), (443, 33944), (447, 33923), (477, 33809),

Gene: Hoot_48 Start: 32665, Stop: 30641, Start Num: 48
Candidate Starts for Hoot_48:
(33, 32698), (Start: 48 @32665 has 546 MA's), (Start: 88 @32479 has 3 MA's), (102, 32395), (114, 32347), (116, 32338), (125, 32278), (141, 32218), (155, 32161), (159, 32122), (168, 32089), (172, 32062), (173, 32053), (178, 31999), (182, 31984), (207, 31912), (212, 31882), (216, 31849), (217, 31843), (218, 31840), (291, 31648), (318, 31489), (321, 31468), (343, 31354), (356, 31294), (358, 31285), (367, 31240), (370, 31222), (374, 31189), (393, 31087), (396, 31081), (408, 31027), (415, 31000), (416, 30997), (418, 30988), (430, 30934), (447, 30871), (454, 30841), (463, 30814),

Gene: HortumSL17_51 Start: 35670, Stop: 33631, Start Num: 48
Candidate Starts for HortumSL17_51:
(Start: 48 @35670 has 546 MA's), (Start: 73 @35556 has 4 MA's), (75, 35541), (78, 35532), (Start: 97 @35430 has 1 MA's), (116, 35340), (125, 35280), (141, 35220), (171, 35073), (172, 35064), (182, 34986), (185, 34974), (206, 34929), (207, 34920), (212, 34890), (214, 34875), (216, 34857), (217, 34851), (218, 34848), (280, 34683), (288, 34659), (291, 34638), (321, 34458), (343, 34344), (356, 34284), (374, 34179), (376, 34170), (408, 34017), (416, 33987), (430, 33924), (447, 33861),

Gene: Houdini22_50 Start: 35452, Stop: 33419, Start Num: 48
Candidate Starts for Houdini22_50:
(Start: 48 @35452 has 546 MA's), (68, 35389), (Start: 73 @35341 has 4 MA's), (78, 35317), (92, 35251), (Start: 97 @35215 has 1 MA's), (102, 35182), (114, 35134), (116, 35125), (125, 35068), (134, 35041), (141, 35008), (172, 34852), (173, 34843), (182, 34774), (207, 34702), (212, 34672), (213, 34669), (216, 34639), (217, 34633), (218, 34630), (236, 34543), (251, 34513), (261, 34501), (269, 34492), (287, 34444), (321, 34240), (341, 34138), (345, 34120), (373, 33979), (376, 33952), (407, 33808), (408, 33805), (416, 33775), (430, 33712), (441, 33679), (443, 33670), (447, 33649), (461, 33601), (477, 33535),

Gene: HuhtaEnerson15_44 Start: 34653, Stop: 32563, Start Num: 48
Candidate Starts for HuhtaEnerson15_44:
(Start: 48 @34653 has 546 MA's), (Start: 88 @34467 has 3 MA's), (Start: 97 @34416 has 1 MA's), (114, 34335), (116, 34326), (141, 34206), (148, 34191), (167, 34080), (168, 34077), (172, 34050), (173, 34041), (179, 33981), (182, 33972), (185, 33960), (207, 33861), (212, 33831), (213, 33828), (216, 33798), (217, 33792), (218, 33789), (242, 33678), (291, 33576), (294, 33561), (319, 33414), (323, 33381), (334, 33333), (341, 33294), (355, 33225), (367, 33168), (369, 33156), (370, 33150), (376, 33108), (378, 33099), (385, 33036), (410, 32946), (416, 32919), (425, 32877), (436, 32841), (441, 32823), (443, 32814), (491, 32604),

Gene: Hutc2_51 Start: 34847, Stop: 32826, Start Num: 52
Candidate Starts for Hutc2_51:
(28, 34898), (43, 34865), (Start: 52 @34847 has 24 MA's), (Start: 73 @34739 has 4 MA's), (Start: 88 @34664 has 3 MA's), (114, 34532), (116, 34523), (141, 34403), (172, 34247), (177, 34199), (181, 34172), (182, 34169), (185, 34157), (201, 34124), (207, 34103), (214, 34058), (216, 34040), (217, 34034), (218, 34031), (257, 33911), (291, 33836), (294, 33821), (298, 33794), (321, 33656), (333, 33596), (341, 33554), (345, 33536), (360, 33464), (370, 33410), (373, 33395), (374, 33377), (391, 33278), (408, 33215), (418, 33176), (441, 33086), (447, 33056), (461, 33008),

Gene: Huxley_49 Start: 35509, Stop: 33476, Start Num: 48
Candidate Starts for Huxley_49:
(Start: 48 @35509 has 546 MA's), (68, 35446), (Start: 73 @35398 has 4 MA's), (78, 35374), (92, 35308), (Start: 97 @35272 has 1 MA's), (102, 35239), (114, 35191), (116, 35182), (125, 35125), (141, 35065), (172, 34909), (173, 34900), (182, 34831), (207, 34759), (212, 34729), (213, 34726), (216, 34696), (217, 34690), (218, 34687), (236, 34600), (251, 34570), (261, 34558), (269, 34549), (287, 34501), (321, 34297), (341, 34195), (345, 34177), (373, 34036), (376, 34009), (407, 33865), (408,

33862), (416, 33832), (430, 33769), (441, 33736), (443, 33727), (447, 33706), (461, 33658), (477, 33592),

Gene: Hydra_48 Start: 32319, Stop: 34409, Start Num: 48
Candidate Starts for Hydra_48:
(Start: 48 @32319 has 546 MA's), (78, 32460), (79, 32475), (82, 32496), (Start: 88 @32529 has 3 MA's), (90, 32535), (Start: 97 @32580 has 1 MA's), (114, 32661), (116, 32670), (131, 32748), (134, 32757), (141, 32790), (158, 32883), (163, 32907), (172, 32949), (182, 33027), (183, 33030), (207, 33117), (216, 33180), (218, 33189), (283, 33354), (287, 33366), (305, 33498), (309, 33525), (321, 33576), (323, 33591), (327, 33612), (341, 33678), (370, 33822), (371, 33828), (373, 33837), (378, 33873), (382, 33921), (384, 33933), (395, 33960), (398, 33972), (407, 34026), (420, 34077), (426, 34098), (436, 34131), (441, 34149), (447, 34179), (450, 34191), (457, 34218), (473, 34278), (486, 34347), (488, 34350), (495, 34401),

Gene: ICleared_50 Start: 35477, Stop: 33444, Start Num: 48
Candidate Starts for ICleared_50:
(Start: 48 @35477 has 546 MA's), (68, 35414), (Start: 73 @35366 has 4 MA's), (78, 35342), (92, 35276), (Start: 97 @35240 has 1 MA's), (102, 35207), (114, 35159), (116, 35150), (125, 35093), (134, 35066), (141, 35033), (172, 34877), (173, 34868), (182, 34799), (207, 34727), (212, 34697), (213, 34694), (216, 34664), (217, 34658), (218, 34655), (236, 34568), (251, 34538), (261, 34526), (269, 34517), (287, 34469), (321, 34265), (341, 34163), (345, 34145), (373, 34004), (376, 33977), (407, 33833), (408, 33830), (416, 33800), (430, 33737), (441, 33704), (443, 33695), (447, 33674), (461, 33626), (477, 33560),

Gene: Ibantik_27 Start: 14042, Stop: 11976, Start Num: 53
Candidate Starts for Ibantik_27:
(Start: 53 @14042 has 4 MA's), (Start: 61 @14009 has 1 MA's), (77, 13916), (117, 13706), (141, 13601), (142, 13598), (156, 13541), (172, 13445), (182, 13367), (183, 13364), (190, 13343), (207, 13280), (213, 13247), (216, 13217), (218, 13208), (236, 13124), (278, 13031), (287, 13007), (291, 12983), (305, 12875), (327, 12767), (354, 12641), (357, 12626), (361, 12608), (372, 12545), (376, 12515), (393, 12416), (402, 12386), (410, 12350), (436, 12263), (447, 12215), (472, 12119), (475, 12107), (481, 12077), (489, 12029), (495, 11981),

Gene: Iceman_50 Start: 35734, Stop: 33701, Start Num: 48
Candidate Starts for Iceman_50:
(Start: 48 @35734 has 546 MA's), (68, 35671), (Start: 73 @35623 has 4 MA's), (78, 35599), (92, 35533), (Start: 97 @35497 has 1 MA's), (102, 35464), (114, 35416), (116, 35407), (125, 35350), (134, 35323), (141, 35290), (172, 35134), (173, 35125), (182, 35056), (207, 34984), (212, 34954), (213, 34951), (216, 34921), (217, 34915), (218, 34912), (236, 34825), (251, 34795), (261, 34783), (269, 34774), (287, 34726), (321, 34522), (341, 34420), (345, 34402), (373, 34261), (376, 34234), (407, 34090), (408, 34087), (416, 34057), (430, 33994), (441, 33961), (443, 33952), (447, 33931), (461, 33883), (477, 33817),

Gene: IchabodCrane_42 Start: 19236, Stop: 21176, Start Num: 64
Candidate Starts for IchabodCrane_42:
(Start: 64 @19236 has 81 MA's), (90, 19368), (96, 19404), (102, 19440), (110, 19467), (112, 19479), (132, 19584), (150, 19641), (188, 19866), (221, 20004), (232, 20055), (239, 20094), (245, 20106), (293, 20184), (305, 20283), (314, 20319), (345, 20466), (379, 20640), (400, 20745), (401, 20748), (439, 20919), (476, 21057),

Gene: Idleandcovert_52 Start: 35769, Stop: 33748, Start Num: 48
Candidate Starts for Idleandcovert_52:

(Start: 48 @35769 has 546 MA's), (74, 35655), (92, 35568), (Start: 97 @35532 has 1 MA's), (114, 35451), (116, 35442), (124, 35385), (141, 35322), (172, 35166), (182, 35088), (188, 35067), (190, 35064), (207, 35022), (212, 34992), (214, 34977), (216, 34959), (217, 34953), (218, 34950), (225, 34917), (287, 34785), (321, 34581), (327, 34545), (333, 34521), (341, 34479), (345, 34461), (369, 34341), (370, 34335), (373, 34320), (376, 34293), (403, 34155), (419, 34092), (443, 33999), (447, 33978), (471, 33897), (477, 33864),

Gene: Imbriano_55 Start: 35214, Stop: 33160, Start Num: 48
Candidate Starts for Imbriano_55:
(33, 35247), (Start: 48 @35214 has 546 MA's), (Start: 88 @35028 has 3 MA's), (102, 34944), (114, 34896), (116, 34887), (125, 34827), (141, 34767), (155, 34710), (159, 34671), (168, 34638), (172, 34611), (173, 34602), (178, 34548), (182, 34533), (207, 34461), (212, 34431), (216, 34398), (217, 34392), (218, 34389), (236, 34302), (258, 34248), (278, 34215), (291, 34167), (298, 34125), (321, 33987), (343, 33873), (356, 33813), (358, 33804), (367, 33759), (370, 33741), (374, 33708), (393, 33606), (396, 33600), (408, 33546), (415, 33519), (418, 33507), (430, 33453), (447, 33390), (454, 33360), (463, 33333), (472, 33294),

Gene: Indigo_46 Start: 31663, Stop: 33753, Start Num: 48
Candidate Starts for Indigo_46:
(Start: 48 @31663 has 546 MA's), (78, 31804), (79, 31819), (82, 31840), (Start: 88 @31873 has 3 MA's), (90, 31879), (Start: 97 @31924 has 1 MA's), (114, 32005), (116, 32014), (131, 32092), (134, 32101), (141, 32134), (158, 32227), (163, 32251), (172, 32293), (182, 32371), (183, 32374), (207, 32461), (216, 32524), (218, 32533), (283, 32698), (287, 32710), (305, 32842), (309, 32869), (321, 32920), (323, 32935), (327, 32956), (341, 33022), (370, 33166), (371, 33172), (373, 33181), (378, 33217), (382, 33265), (384, 33277), (395, 33304), (398, 33316), (407, 33370), (420, 33421), (426, 33442), (436, 33475), (441, 33493), (447, 33523), (450, 33535), (457, 33562), (473, 33622), (486, 33691), (488, 33694), (495, 33745),

Gene: Indra_57 Start: 35278, Stop: 33224, Start Num: 48
Candidate Starts for Indra_57:
(Start: 48 @35278 has 546 MA's), (Start: 88 @35092 has 3 MA's), (Start: 97 @35041 has 1 MA's), (102, 35008), (114, 34960), (116, 34951), (125, 34891), (141, 34831), (155, 34774), (159, 34735), (168, 34702), (172, 34675), (173, 34666), (178, 34612), (182, 34597), (207, 34525), (212, 34495), (216, 34462), (217, 34456), (218, 34453), (236, 34366), (258, 34312), (278, 34279), (291, 34231), (298, 34189), (321, 34051), (343, 33937), (356, 33877), (358, 33868), (367, 33823), (370, 33805), (374, 33772), (393, 33670), (396, 33664), (408, 33610), (415, 33583), (418, 33571), (430, 33517), (447, 33454), (454, 33424), (463, 33397), (472, 33358),

Gene: Insomnia_52 Start: 35250, Stop: 33337, Start Num: 73
Candidate Starts for Insomnia_52:
(28, 35409), (43, 35376), (Start: 52 @35358 has 24 MA's), (Start: 73 @35250 has 4 MA's), (Start: 88 @35175 has 3 MA's), (114, 35043), (116, 35034), (141, 34914), (172, 34758), (177, 34710), (181, 34683), (182, 34680), (185, 34668), (201, 34635), (207, 34614), (214, 34569), (216, 34551), (217, 34545), (218, 34542), (257, 34422), (291, 34347), (294, 34332), (321, 34167), (333, 34107), (341, 34065), (345, 34047), (360, 33975), (370, 33921), (373, 33906), (374, 33888), (391, 33789), (408, 33726), (418, 33687), (441, 33597), (447, 33567), (461, 33519),

Gene: Iracema64_51 Start: 35712, Stop: 33679, Start Num: 48
Candidate Starts for Iracema64_51:
(Start: 48 @35712 has 546 MA's), (68, 35649), (Start: 73 @35601 has 4 MA's), (78, 35577), (92, 35511), (Start: 97 @35475 has 1 MA's), (102, 35442), (114, 35394), (116, 35385), (125, 35328), (134, 35301), (141, 35268), (172, 35112), (173, 35103), (182, 35034), (207, 34962), (212, 34932), (213, 34929), (216, 34899), (217, 34893), (218, 34890), (236, 34803), (251, 34773), (261, 34761), (269,

34752), (287, 34704), (321, 34500), (341, 34398), (345, 34380), (373, 34239), (376, 34212), (407, 34068), (408, 34065), (416, 34035), (430, 33972), (441, 33939), (443, 33930), (447, 33909), (461, 33861), (477, 33795),

Gene: IronMan_51 Start: 36856, Stop: 34826, Start Num: 48
Candidate Starts for IronMan_51:
(Start: 48 @36856 has 546 MA's), (74, 36742), (116, 36529), (117, 36514), (141, 36409), (172, 36253), (173, 36244), (182, 36175), (207, 36103), (212, 36073), (213, 36070), (214, 36058), (216, 36040), (217, 36034), (218, 36031), (236, 35944), (278, 35875), (291, 35827), (298, 35785), (321, 35647), (327, 35611), (341, 35545), (343, 35533), (356, 35473), (367, 35419), (370, 35401), (391, 35269), (393, 35266), (396, 35260), (402, 35239), (408, 35206), (430, 35119), (447, 35056), (461, 35008), (463, 34999),

Gene: Isca_50 Start: 35212, Stop: 33191, Start Num: 48
Candidate Starts for Isca_50:
(Start: 48 @35212 has 546 MA's), (Start: 73 @35101 has 4 MA's), (74, 35098), (92, 35011), (Start: 97 @34975 has 1 MA's), (102, 34942), (114, 34894), (116, 34885), (141, 34765), (148, 34750), (168, 34636), (172, 34609), (173, 34600), (182, 34531), (188, 34510), (190, 34507), (207, 34465), (214, 34420), (216, 34402), (217, 34396), (218, 34393), (287, 34228), (321, 34024), (333, 33964), (341, 33922), (345, 33904), (369, 33784), (370, 33778), (373, 33763), (385, 33664), (407, 33580), (416, 33547), (419, 33535), (431, 33481), (443, 33442), (447, 33421), (477, 33307),

Gene: Isiphiwo_51 Start: 34390, Stop: 32330, Start Num: 48
Candidate Starts for Isiphiwo_51:
(33, 34423), (Start: 48 @34390 has 546 MA's), (Start: 88 @34204 has 3 MA's), (102, 34120), (114, 34072), (116, 34063), (125, 34003), (141, 33943), (155, 33886), (159, 33847), (168, 33814), (172, 33787), (173, 33778), (178, 33724), (182, 33709), (190, 33685), (206, 33646), (207, 33637), (212, 33607), (216, 33574), (217, 33568), (218, 33565), (280, 33382), (291, 33337), (294, 33322), (321, 33157), (343, 33043), (356, 32983), (358, 32974), (367, 32929), (370, 32911), (374, 32878), (393, 32776), (396, 32770), (408, 32716), (418, 32677), (420, 32668), (430, 32623), (447, 32560), (454, 32530), (463, 32503),

Gene: Issmi_49 Start: 33474, Stop: 35540, Start Num: 48
Candidate Starts for Issmi_49:
(22, 33405), (36, 33444), (Start: 48 @33474 has 546 MA's), (79, 33630), (Start: 88 @33684 has 3 MA's), (90, 33690), (114, 33816), (116, 33825), (131, 33903), (134, 33912), (136, 33924), (141, 33945), (163, 34062), (171, 34095), (172, 34104), (173, 34113), (182, 34182), (183, 34185), (207, 34248), (209, 34254), (212, 34278), (213, 34281), (216, 34311), (287, 34497), (318, 34686), (321, 34707), (327, 34743), (335, 34770), (341, 34809), (368, 34941), (370, 34953), (376, 34995), (384, 35064), (398, 35103), (407, 35157), (408, 35160), (426, 35229), (436, 35262), (438, 35271), (441, 35280), (447, 35310), (473, 35409), (486, 35478), (495, 35532),

Gene: Iwokeuplikedis_54 Start: 35807, Stop: 33771, Start Num: 48
Candidate Starts for Iwokeuplikedis_54:
(Start: 48 @35807 has 546 MA's), (Start: 73 @35696 has 4 MA's), (74, 35693), (116, 35480), (117, 35465), (125, 35420), (141, 35360), (172, 35204), (182, 35126), (204, 35072), (207, 35054), (212, 35024), (213, 35021), (216, 34991), (217, 34985), (218, 34982), (280, 34823), (291, 34778), (298, 34736), (321, 34598), (327, 34562), (341, 34496), (343, 34484), (356, 34424), (367, 34370), (370, 34352), (391, 34220), (396, 34211), (408, 34157), (418, 34118), (430, 34064), (437, 34046), (447, 34001), (461, 33953), (463, 33944),

Gene: Izzy_48 Start: 32007, Stop: 34097, Start Num: 48
Candidate Starts for Izzy_48:

(15, 31923), (17, 31929), (31, 31965), (34, 31971), (Start: 48 @32007 has 546 MA's), (78, 32148), (79, 32163), (82, 32184), (Start: 88 @32217 has 3 MA's), (90, 32223), (Start: 97 @32268 has 1 MA's), (114, 32349), (116, 32358), (131, 32436), (134, 32445), (141, 32478), (158, 32571), (163, 32595), (172, 32637), (182, 32715), (183, 32718), (207, 32805), (216, 32868), (218, 32877), (283, 33042), (287, 33054), (309, 33213), (321, 33264), (323, 33279), (327, 33300), (341, 33366), (370, 33510), (371, 33516), (373, 33525), (378, 33561), (382, 33609), (384, 33621), (395, 33648), (398, 33660), (407, 33714), (420, 33765), (426, 33786), (436, 33819), (441, 33837), (447, 33867), (450, 33879), (457, 33906), (473, 33966), (486, 34035), (488, 34038), (495, 34089),

Gene: JF2_49 Start: 33913, Stop: 31892, Start Num: 48
Candidate Starts for JF2_49:
(Start: 48 @33913 has 546 MA's), (Start: 73 @33802 has 4 MA's), (74, 33799), (92, 33712), (Start: 97 @33676 has 1 MA's), (102, 33643), (114, 33595), (116, 33586), (141, 33466), (148, 33451), (168, 33337), (172, 33310), (173, 33301), (182, 33232), (188, 33211), (190, 33208), (207, 33166), (212, 33136), (214, 33121), (216, 33103), (217, 33097), (218, 33094), (287, 32929), (321, 32725), (333, 32665), (341, 32623), (345, 32605), (369, 32485), (370, 32479), (373, 32464), (385, 32365), (407, 32281), (416, 32248), (419, 32236), (431, 32182), (443, 32143), (447, 32122), (477, 32008),

Gene: JF4_49 Start: 33913, Stop: 31892, Start Num: 48
Candidate Starts for JF4_49:
(Start: 48 @33913 has 546 MA's), (Start: 73 @33802 has 4 MA's), (74, 33799), (92, 33712), (Start: 97 @33676 has 1 MA's), (102, 33643), (114, 33595), (116, 33586), (141, 33466), (148, 33451), (168, 33337), (172, 33310), (173, 33301), (182, 33232), (188, 33211), (190, 33208), (207, 33166), (212, 33136), (214, 33121), (216, 33103), (217, 33097), (218, 33094), (287, 32929), (321, 32725), (333, 32665), (341, 32623), (345, 32605), (369, 32485), (370, 32479), (373, 32464), (385, 32365), (407, 32281), (416, 32248), (419, 32236), (431, 32182), (443, 32143), (447, 32122), (477, 32008),

Gene: JHC117_54 Start: 35905, Stop: 33887, Start Num: 55
Candidate Starts for JHC117_54:
(Start: 55 @35905 has 103 MA's), (Start: 71 @35812 has 1 MA's), (Start: 73 @35803 has 4 MA's), (78, 35779), (Start: 88 @35728 has 3 MA's), (Start: 97 @35677 has 1 MA's), (114, 35596), (116, 35587), (141, 35467), (156, 35407), (159, 35371), (172, 35311), (182, 35233), (207, 35161), (212, 35131), (216, 35098), (217, 35092), (218, 35089), (234, 35008), (242, 34978), (287, 34924), (312, 34753), (333, 34657), (341, 34615), (345, 34597), (355, 34549), (358, 34537), (369, 34480), (370, 34474), (373, 34459), (376, 34432), (383, 34369), (384, 34363), (391, 34339), (418, 34234), (436, 34165), (441, 34147), (443, 34138), (447, 34117), (470, 34039), (477, 34003), (490, 33940),

Gene: JSwag_55 Start: 34643, Stop: 32580, Start Num: 42
Candidate Starts for JSwag_55:
(Start: 42 @34643 has 25 MA's), (87, 34448), (Start: 88 @34445 has 3 MA's), (114, 34313), (116, 34304), (141, 34184), (173, 34019), (177, 33980), (182, 33950), (199, 33908), (207, 33884), (212, 33854), (216, 33821), (217, 33815), (218, 33812), (278, 33638), (283, 33626), (291, 33590), (320, 33413), (321, 33410), (327, 33374), (341, 33308), (349, 33269), (351, 33257), (369, 33170), (370, 33164), (376, 33122), (426, 32891), (447, 32810), (464, 32750), (470, 32732), (488, 32639), (491, 32621),

Gene: Jaan_51 Start: 37028, Stop: 34998, Start Num: 48
Candidate Starts for Jaan_51:
(Start: 48 @37028 has 546 MA's), (74, 36914), (116, 36701), (117, 36686), (141, 36581), (172, 36425), (173, 36416), (182, 36347), (199, 36299), (207, 36275), (212, 36245), (213, 36242), (214, 36230), (216, 36212), (217, 36206), (218, 36203), (236, 36116), (278, 36047), (291, 35999), (298, 35957), (321, 35819), (327, 35783), (341, 35717), (343, 35705), (356, 35645), (367, 35591), (370, 35573), (391, 35441), (393, 35438), (396, 35432), (402, 35411), (408, 35378), (415, 35351), (430, 35291),

(447, 35228), (461, 35180), (463, 35171),

Gene: Jabiru_44 Start: 34204, Stop: 32168, Start Num: 48
Candidate Starts for Jabiru_44:
(14, 34270), (Start: 48 @34204 has 546 MA's), (Start: 88 @34021 has 3 MA's), (Start: 97 @33970 has 1 MA's), (102, 33937), (114, 33889), (116, 33880), (121, 33838), (149, 33742), (155, 33703), (160, 33658), (171, 33613), (172, 33604), (178, 33541), (179, 33535), (182, 33526), (207, 33454), (212, 33424), (213, 33421), (214, 33409), (216, 33391), (217, 33385), (218, 33382), (280, 33226), (291, 33181), (294, 33166), (319, 33019), (323, 32986), (334, 32938), (341, 32899), (355, 32830), (367, 32773), (369, 32761), (370, 32755), (376, 32713), (378, 32704), (385, 32641), (410, 32551), (416, 32524), (425, 32482), (436, 32446), (441, 32428), (443, 32419), (491, 32209),

Gene: Jabith_52 Start: 35359, Stop: 33338, Start Num: 52
Candidate Starts for Jabith_52:
(28, 35410), (43, 35377), (Start: 52 @35359 has 24 MA's), (Start: 73 @35251 has 4 MA's), (Start: 88 @35176 has 3 MA's), (114, 35044), (116, 35035), (141, 34915), (172, 34759), (177, 34711), (181, 34684), (182, 34681), (185, 34669), (201, 34636), (207, 34615), (214, 34570), (216, 34552), (217, 34546), (218, 34543), (257, 34423), (291, 34348), (294, 34333), (321, 34168), (333, 34108), (341, 34066), (345, 34048), (360, 33976), (370, 33922), (373, 33907), (374, 33889), (391, 33790), (408, 33727), (418, 33688), (441, 33598), (447, 33568), (461, 33520),

Gene: Jada_22 Start: 8021, Stop: 9964, Start Num: 65
Candidate Starts for Jada_22:
(62, 8012), (Start: 65 @8021 has 29 MA's), (Start: 73 @8078 has 4 MA's), (90, 8159), (110, 8258), (111, 8267), (112, 8270), (132, 8375), (166, 8525), (172, 8555), (204, 8681), (242, 8888), (311, 9101), (324, 9155), (339, 9227), (344, 9251), (364, 9323), (400, 9533), (401, 9536), (420, 9632), (423, 9641), (480, 9869),

Gene: Janus_48 Start: 32877, Stop: 35000, Start Num: 48
Candidate Starts for Janus_48:
(Start: 48 @32877 has 546 MA's), (79, 33033), (Start: 88 @33087 has 3 MA's), (90, 33093), (Start: 97 @33138 has 1 MA's), (114, 33219), (116, 33228), (134, 33315), (136, 33327), (141, 33348), (163, 33465), (172, 33507), (182, 33585), (194, 33642), (207, 33693), (216, 33756), (281, 33939), (287, 33957), (321, 34167), (327, 34203), (341, 34269), (370, 34413), (371, 34419), (373, 34428), (378, 34464), (382, 34512), (384, 34524), (395, 34551), (398, 34563), (403, 34593), (407, 34617), (436, 34722), (441, 34740), (473, 34869), (486, 34938), (495, 34992),

Gene: Jash_48 Start: 31960, Stop: 34050, Start Num: 48
Candidate Starts for Jash_48:
(15, 31876), (17, 31882), (31, 31918), (34, 31924), (Start: 48 @31960 has 546 MA's), (78, 32101), (79, 32116), (82, 32137), (Start: 88 @32170 has 3 MA's), (90, 32176), (Start: 97 @32221 has 1 MA's), (114, 32302), (116, 32311), (131, 32389), (134, 32398), (141, 32431), (158, 32524), (163, 32548), (172, 32590), (182, 32668), (183, 32671), (207, 32758), (216, 32821), (218, 32830), (283, 32995), (287, 33007), (309, 33166), (321, 33217), (323, 33232), (327, 33253), (341, 33319), (370, 33463), (371, 33469), (373, 33478), (378, 33514), (382, 33562), (384, 33574), (395, 33601), (398, 33613), (407, 33667), (420, 33718), (426, 33739), (436, 33772), (441, 33790), (447, 33820), (450, 33832), (457, 33859), (473, 33919), (486, 33988), (488, 33991), (495, 34042),

Gene: Jay2Jay_47 Start: 19956, Stop: 21899, Start Num: 64
Candidate Starts for Jay2Jay_47:
(Start: 64 @19956 has 81 MA's), (Start: 67 @19962 has 1 MA's), (83, 20064), (86, 20085), (90, 20094), (108, 20184), (110, 20193), (111, 20202), (112, 20205), (132, 20310), (161, 20454), (204, 20619), (221, 20730), (239, 20820), (245, 20832), (314, 21045), (345, 21192), (348, 21210), (377, 21348),

(379, 21366), (401, 21474), (439, 21645), (448, 21684), (476, 21783),

Gene: Jaykayelowell_48 Start: 35441, Stop: 33408, Start Num: 48
Candidate Starts for Jaykayelowell_48:
(Start: 48 @35441 has 546 MA's), (68, 35378), (Start: 73 @35330 has 4 MA's), (78, 35306), (92, 35240), (Start: 97 @35204 has 1 MA's), (102, 35171), (114, 35123), (116, 35114), (125, 35057), (134, 35030), (141, 34997), (172, 34841), (173, 34832), (182, 34763), (207, 34691), (212, 34661), (213, 34658), (216, 34628), (217, 34622), (218, 34619), (236, 34532), (251, 34502), (261, 34490), (269, 34481), (287, 34433), (321, 34229), (341, 34127), (345, 34109), (373, 33968), (376, 33941), (407, 33797), (408, 33794), (416, 33764), (430, 33701), (441, 33668), (443, 33659), (447, 33638), (461, 33590), (477, 33524),

Gene: Jeeves_55 Start: 35543, Stop: 33504, Start Num: 48
Candidate Starts for Jeeves_55:
(Start: 48 @35543 has 546 MA's), (102, 35270), (114, 35222), (116, 35213), (125, 35153), (126, 35150), (141, 35093), (172, 34937), (181, 34862), (182, 34859), (207, 34793), (212, 34763), (213, 34760), (216, 34730), (217, 34724), (218, 34721), (221, 34700), (280, 34556), (291, 34511), (295, 34487), (298, 34469), (321, 34331), (333, 34271), (343, 34217), (356, 34157), (358, 34148), (370, 34085), (374, 34052), (408, 33890), (415, 33863), (418, 33851), (425, 33818), (430, 33797), (447, 33734), (461, 33686), (492, 33536),

Gene: Jeffabunny_54 Start: 34904, Stop: 32880, Start Num: 48
Candidate Starts for Jeffabunny_54:
(Start: 48 @34904 has 546 MA's), (Start: 88 @34718 has 3 MA's), (Start: 97 @34667 has 1 MA's), (102, 34634), (114, 34586), (116, 34577), (125, 34517), (141, 34457), (155, 34400), (159, 34361), (168, 34328), (172, 34301), (173, 34292), (182, 34223), (207, 34151), (212, 34121), (216, 34088), (217, 34082), (218, 34079), (291, 33887), (321, 33707), (343, 33593), (356, 33533), (358, 33524), (367, 33479), (370, 33461), (374, 33428), (393, 33326), (396, 33320), (408, 33266), (415, 33239), (418, 33227), (430, 33173), (447, 33110), (454, 33080), (463, 33053), (472, 33014),

Gene: JenCasNa_55 Start: 35906, Stop: 33888, Start Num: 55
Candidate Starts for JenCasNa_55:
(Start: 55 @35906 has 103 MA's), (Start: 71 @35813 has 1 MA's), (Start: 73 @35804 has 4 MA's), (78, 35780), (Start: 88 @35729 has 3 MA's), (Start: 97 @35678 has 1 MA's), (114, 35597), (116, 35588), (141, 35468), (156, 35408), (159, 35372), (172, 35312), (182, 35234), (207, 35162), (212, 35132), (216, 35099), (217, 35093), (218, 35090), (234, 35009), (242, 34979), (287, 34925), (312, 34754), (333, 34658), (341, 34616), (345, 34598), (355, 34550), (358, 34538), (369, 34481), (370, 34475), (373, 34460), (376, 34433), (383, 34370), (384, 34364), (391, 34340), (418, 34235), (436, 34166), (441, 34148), (447, 34118), (470, 34040), (477, 34004), (490, 33941),

Gene: JeppNRM_55 Start: 35797, Stop: 33782, Start Num: 55
Candidate Starts for JeppNRM_55:
(Start: 55 @35797 has 103 MA's), (Start: 71 @35704 has 1 MA's), (Start: 73 @35695 has 4 MA's), (Start: 88 @35620 has 3 MA's), (Start: 97 @35569 has 1 MA's), (114, 35488), (116, 35479), (125, 35422), (141, 35362), (156, 35302), (159, 35266), (172, 35206), (173, 35197), (182, 35128), (185, 35116), (207, 35056), (212, 35026), (213, 35023), (214, 35011), (216, 34993), (217, 34987), (218, 34984), (225, 34951), (261, 34849), (287, 34819), (312, 34648), (323, 34597), (327, 34576), (333, 34552), (341, 34510), (345, 34492), (355, 34444), (370, 34369), (376, 34327), (383, 34264), (384, 34258), (391, 34234), (418, 34129), (436, 34060), (441, 34042), (443, 34033), (447, 34012), (470, 33934), (477, 33898), (490, 33835),

Gene: Jerm_53 Start: 36261, Stop: 34222, Start Num: 48
Candidate Starts for Jerm_53:

(Start: 48 @36261 has 546 MA's), (Start: 97 @36021 has 1 MA's), (116, 35931), (117, 35916), (141, 35811), (172, 35655), (182, 35577), (207, 35505), (212, 35475), (213, 35472), (214, 35460), (216, 35442), (217, 35436), (218, 35433), (280, 35274), (291, 35229), (298, 35187), (321, 35049), (327, 35013), (341, 34947), (343, 34935), (356, 34875), (367, 34821), (408, 34608), (418, 34569), (419, 34566), (430, 34515), (447, 34452), (461, 34404), (463, 34395),

Gene: Jester_40 Start: 31789, Stop: 29744, Start Num: 46
Candidate Starts for Jester_40:
(Start: 46 @31789 has 38 MA's), (74, 31669), (87, 31600), (Start: 97 @31546 has 1 MA's), (114, 31465), (116, 31456), (156, 31276), (158, 31243), (159, 31240), (161, 31231), (167, 31210), (172, 31180), (178, 31117), (182, 31102), (184, 31096), (207, 31036), (213, 31003), (216, 30973), (217, 30967), (218, 30964), (259, 30829), (308, 30634), (312, 30616), (320, 30583), (338, 30493), (340, 30484), (367, 30352), (376, 30292), (385, 30220), (398, 30181), (399, 30178), (402, 30166), (408, 30133), (418, 30094), (436, 30022), (443, 29995), (447, 29974), (451, 29956), (470, 29896), (477, 29860),

Gene: JetBlade_50 Start: 35442, Stop: 33409, Start Num: 48
Candidate Starts for JetBlade_50:
(Start: 48 @35442 has 546 MA's), (68, 35379), (Start: 73 @35331 has 4 MA's), (78, 35307), (92, 35241), (Start: 97 @35205 has 1 MA's), (102, 35172), (114, 35124), (116, 35115), (125, 35058), (134, 35031), (141, 34998), (172, 34842), (173, 34833), (182, 34764), (207, 34692), (212, 34662), (213, 34659), (216, 34629), (217, 34623), (218, 34620), (236, 34533), (251, 34503), (261, 34491), (269, 34482), (287, 34434), (321, 34230), (341, 34128), (345, 34110), (373, 33969), (376, 33942), (407, 33798), (408, 33795), (416, 33765), (430, 33702), (441, 33669), (443, 33660), (447, 33639), (461, 33591), (477, 33525),

Gene: Jevington_50 Start: 33260, Stop: 35362, Start Num: 48
Candidate Starts for Jevington_50:
(Start: 48 @33260 has 546 MA's), (Start: 88 @33461 has 3 MA's), (114, 33593), (116, 33602), (127, 33671), (134, 33689), (136, 33701), (141, 33722), (163, 33839), (172, 33881), (182, 33959), (207, 34067), (216, 34130), (278, 34295), (283, 34307), (287, 34319), (302, 34439), (321, 34529), (327, 34565), (333, 34589), (335, 34592), (341, 34631), (370, 34775), (373, 34790), (378, 34826), (384, 34886), (395, 34913), (398, 34925), (407, 34979), (410, 34985), (426, 35051), (436, 35084), (441, 35102), (451, 35150), (473, 35231), (486, 35300), (490, 35309), (495, 35354),

Gene: JewelBug_54 Start: 35020, Stop: 32960, Start Num: 48
Candidate Starts for JewelBug_54:
(33, 35053), (Start: 48 @35020 has 546 MA's), (Start: 88 @34834 has 3 MA's), (Start: 97 @34783 has 1 MA's), (102, 34750), (114, 34702), (116, 34693), (117, 34678), (125, 34633), (141, 34573), (155, 34516), (159, 34477), (168, 34444), (172, 34417), (173, 34408), (182, 34339), (207, 34267), (212, 34237), (213, 34234), (216, 34204), (217, 34198), (218, 34195), (280, 34012), (291, 33967), (295, 33943), (318, 33808), (321, 33787), (343, 33673), (356, 33613), (358, 33604), (367, 33559), (370, 33541), (374, 33508), (385, 33427), (393, 33406), (396, 33400), (408, 33346), (410, 33343), (415, 33319), (416, 33316), (418, 33307), (430, 33253), (447, 33190), (454, 33160), (463, 33133),

Gene: Jhitchelle_46 Start: 32754, Stop: 34817, Start Num: 48
Candidate Starts for Jhitchelle_46:
(Start: 48 @32754 has 546 MA's), (Start: 61 @32793 has 1 MA's), (Start: 71 @32856 has 1 MA's), (Start: 73 @32865 has 4 MA's), (81, 32916), (82, 32922), (Start: 88 @32955 has 3 MA's), (116, 33096), (134, 33183), (141, 33216), (163, 33333), (172, 33375), (173, 33384), (182, 33453), (183, 33456), (187, 33477), (207, 33543), (212, 33573), (216, 33606), (283, 33768), (287, 33780), (318, 33969), (327, 34026), (354, 34149), (376, 34275), (378, 34284), (402, 34401), (407, 34437), (408, 34440), (420, 34488), (436, 34542), (441, 34560), (462, 34638), (473, 34686), (495, 34809),

Gene: Jiawan_51 Start: 35755, Stop: 33716, Start Num: 48
Candidate Starts for Jiawan_51:
(Start: 48 @35755 has 546 MA's), (Start: 73 @35641 has 4 MA's), (75, 35626), (78, 35617), (Start: 97 @35515 has 1 MA's), (116, 35425), (125, 35365), (126, 35362), (141, 35305), (171, 35158), (172, 35149), (182, 35071), (185, 35059), (207, 35005), (212, 34975), (214, 34960), (216, 34942), (217, 34936), (218, 34933), (280, 34768), (291, 34723), (321, 34543), (341, 34441), (356, 34369), (374, 34264), (376, 34255), (408, 34102), (416, 34072), (430, 34009), (436, 33994), (447, 33946),

Gene: JimJam_45 Start: 19610, Stop: 21550, Start Num: 64
Candidate Starts for JimJam_45:
(Start: 64 @19610 has 81 MA's), (90, 19742), (96, 19778), (102, 19814), (110, 19841), (112, 19853), (132, 19958), (150, 20015), (188, 20240), (210, 20294), (221, 20378), (232, 20429), (239, 20468), (245, 20480), (293, 20558), (305, 20657), (314, 20693), (345, 20840), (379, 21014), (382, 21050), (400, 21119), (401, 21122), (439, 21293), (476, 21431),

Gene: Jobu08_53 Start: 35738, Stop: 33720, Start Num: 55
Candidate Starts for Jobu08_53:
(Start: 55 @35738 has 103 MA's), (Start: 71 @35645 has 1 MA's), (Start: 73 @35636 has 4 MA's), (78, 35612), (Start: 88 @35561 has 3 MA's), (Start: 97 @35510 has 1 MA's), (106, 35462), (114, 35429), (116, 35420), (141, 35300), (156, 35240), (159, 35204), (172, 35144), (182, 35066), (185, 35054), (207, 34994), (212, 34964), (216, 34931), (217, 34925), (218, 34922), (234, 34841), (242, 34811), (287, 34757), (312, 34586), (333, 34490), (341, 34448), (345, 34430), (355, 34382), (358, 34370), (369, 34313), (370, 34307), (373, 34292), (376, 34265), (383, 34202), (384, 34196), (391, 34172), (418, 34067), (436, 33998), (441, 33980), (443, 33971), (447, 33950), (470, 33872), (477, 33836), (490, 33773),

Gene: Jollison_44 Start: 19490, Stop: 21430, Start Num: 64
Candidate Starts for Jollison_44:
(59, 19481), (Start: 64 @19490 has 81 MA's), (90, 19622), (96, 19658), (102, 19694), (110, 19721), (112, 19733), (132, 19838), (150, 19895), (188, 20120), (210, 20174), (221, 20258), (232, 20309), (239, 20348), (245, 20360), (293, 20438), (305, 20537), (314, 20573), (345, 20720), (379, 20894), (382, 20930), (400, 20999), (401, 21002), (439, 21173), (476, 21311),

Gene: JoongJeon_49 Start: 35445, Stop: 33412, Start Num: 48
Candidate Starts for JoongJeon_49:
(Start: 48 @35445 has 546 MA's), (68, 35382), (Start: 73 @35334 has 4 MA's), (78, 35310), (92, 35244), (Start: 97 @35208 has 1 MA's), (102, 35175), (114, 35127), (116, 35118), (125, 35061), (134, 35034), (141, 35001), (172, 34845), (173, 34836), (182, 34767), (207, 34695), (212, 34665), (213, 34662), (216, 34632), (217, 34626), (218, 34623), (236, 34536), (251, 34506), (261, 34494), (269, 34485), (287, 34437), (321, 34233), (341, 34131), (345, 34113), (373, 33972), (376, 33945), (407, 33801), (408, 33798), (416, 33768), (430, 33705), (441, 33672), (443, 33663), (447, 33642), (461, 33594), (477, 33528),

Gene: Jordennis_53 Start: 34510, Stop: 32486, Start Num: 48
Candidate Starts for Jordennis_53:
(33, 34543), (Start: 48 @34510 has 546 MA's), (Start: 88 @34324 has 3 MA's), (102, 34240), (114, 34192), (116, 34183), (125, 34123), (141, 34063), (155, 34006), (159, 33967), (168, 33934), (172, 33907), (173, 33898), (178, 33844), (182, 33829), (207, 33757), (212, 33727), (216, 33694), (217, 33688), (218, 33685), (291, 33493), (318, 33334), (321, 33313), (343, 33199), (356, 33139), (358, 33130), (367, 33085), (370, 33067), (374, 33034), (393, 32932), (396, 32926), (408, 32872), (415, 32845), (416, 32842), (418, 32833), (430, 32779), (447, 32716), (454, 32686), (463, 32659),

Gene: Joselito_52 Start: 35307, Stop: 33283, Start Num: 52
Candidate Starts for Joselito_52:
(28, 35358), (43, 35325), (Start: 52 @35307 has 24 MA's), (Start: 73 @35199 has 4 MA's), (Start: 88 @35124 has 3 MA's), (114, 34992), (116, 34983), (141, 34863), (172, 34707), (177, 34659), (181, 34632), (182, 34629), (185, 34617), (201, 34584), (207, 34563), (214, 34518), (216, 34500), (217, 34494), (218, 34491), (278, 34341), (291, 34293), (294, 34278), (321, 34113), (341, 34011), (345, 33993), (360, 33921), (370, 33867), (373, 33852), (374, 33834), (408, 33672), (418, 33633), (441, 33543), (447, 33513), (461, 33465),

Gene: JoshKayV_53 Start: 36364, Stop: 34310, Start Num: 48
Candidate Starts for JoshKayV_53:
(Start: 48 @36364 has 546 MA's), (Start: 61 @36325 has 1 MA's), (Start: 73 @36253 has 4 MA's), (74, 36250), (Start: 88 @36178 has 3 MA's), (Start: 97 @36127 has 1 MA's), (116, 36037), (124, 35980), (125, 35977), (141, 35917), (149, 35899), (172, 35761), (173, 35752), (182, 35683), (197, 35647), (207, 35617), (212, 35587), (213, 35584), (216, 35554), (217, 35548), (218, 35545), (244, 35434), (280, 35362), (291, 35317), (298, 35275), (321, 35137), (327, 35101), (341, 35035), (343, 35023), (356, 34963), (367, 34909), (370, 34891), (393, 34759), (397, 34750), (402, 34729), (408, 34696), (418, 34657), (419, 34654), (425, 34624), (430, 34603), (447, 34540), (461, 34492), (463, 34483),

Gene: Journey13_45 Start: 34077, Stop: 32026, Start Num: 48
Candidate Starts for Journey13_45:
(Start: 48 @34077 has 546 MA's), (Start: 97 @33837 has 1 MA's), (102, 33804), (114, 33756), (116, 33747), (126, 33684), (141, 33627), (171, 33480), (172, 33471), (181, 33396), (182, 33393), (207, 33327), (213, 33294), (214, 33282), (216, 33264), (217, 33258), (218, 33255), (275, 33087), (278, 33075), (291, 33027), (298, 32985), (308, 32901), (321, 32847), (327, 32811), (341, 32745), (343, 32733), (356, 32673), (367, 32619), (370, 32601), (374, 32568), (376, 32559), (382, 32502), (408, 32406), (430, 32319), (443, 32277), (447, 32256),

Gene: Jovo_43 Start: 34683, Stop: 32614, Start Num: 48
Candidate Starts for Jovo_43:
(Start: 48 @34683 has 546 MA's), (Start: 88 @34497 has 3 MA's), (Start: 97 @34446 has 1 MA's), (102, 34413), (114, 34365), (116, 34356), (141, 34236), (148, 34221), (167, 34110), (168, 34107), (172, 34080), (173, 34071), (179, 34011), (182, 34002), (187, 33978), (207, 33891), (212, 33861), (213, 33858), (216, 33828), (217, 33822), (218, 33819), (291, 33627), (319, 33465), (323, 33432), (334, 33384), (341, 33345), (355, 33276), (367, 33219), (369, 33207), (370, 33201), (376, 33159), (378, 33150), (407, 33003), (416, 32970), (425, 32928), (436, 32892), (441, 32874), (443, 32865), (491, 32655),

Gene: Jsquared_49 Start: 34681, Stop: 32633, Start Num: 48
Candidate Starts for Jsquared_49:
(Start: 48 @34681 has 546 MA's), (Start: 71 @34579 has 1 MA's), (Start: 73 @34570 has 4 MA's), (Start: 88 @34495 has 3 MA's), (114, 34363), (116, 34354), (126, 34291), (141, 34234), (158, 34141), (171, 34087), (172, 34078), (177, 34030), (182, 34000), (207, 33934), (212, 33904), (213, 33901), (214, 33889), (216, 33871), (217, 33865), (218, 33862), (241, 33754), (271, 33709), (278, 33682), (291, 33634), (298, 33592), (308, 33508), (321, 33454), (327, 33418), (333, 33394), (334, 33391), (338, 33367), (343, 33340), (356, 33280), (358, 33271), (370, 33208), (374, 33175), (376, 33166), (386, 33085), (408, 33013), (415, 32986), (430, 32926), (447, 32863),

Gene: Junimo_49 Start: 35448, Stop: 33415, Start Num: 48
Candidate Starts for Junimo_49:
(Start: 48 @35448 has 546 MA's), (68, 35385), (Start: 73 @35337 has 4 MA's), (78, 35313), (92, 35247), (Start: 97 @35211 has 1 MA's), (102, 35178), (114, 35130), (116, 35121), (125, 35064), (134, 35037), (141, 35004), (172, 34848), (173, 34839), (182, 34770), (207, 34698), (212, 34668), (213,

34665), (216, 34635), (217, 34629), (218, 34626), (236, 34539), (251, 34509), (261, 34497), (269, 34488), (287, 34440), (321, 34236), (341, 34134), (345, 34116), (373, 33975), (376, 33948), (407, 33804), (408, 33801), (416, 33771), (430, 33708), (441, 33675), (443, 33666), (447, 33645), (461, 33597), (477, 33531),

Gene: KADY_54 Start: 35934, Stop: 33916, Start Num: 55
Candidate Starts for KADY_54:
(Start: 55 @35934 has 103 MA's), (Start: 71 @35841 has 1 MA's), (Start: 73 @35832 has 4 MA's), (78, 35808), (Start: 88 @35757 has 3 MA's), (Start: 97 @35706 has 1 MA's), (114, 35625), (116, 35616), (141, 35499), (159, 35403), (172, 35343), (179, 35274), (182, 35265), (183, 35262), (185, 35253), (207, 35193), (212, 35163), (213, 35160), (214, 35148), (216, 35130), (217, 35124), (218, 35121), (239, 35016), (242, 35010), (287, 34953), (321, 34749), (323, 34734), (327, 34713), (333, 34689), (338, 34662), (341, 34647), (369, 34509), (370, 34503), (373, 34488), (376, 34461), (383, 34398), (384, 34392), (391, 34368), (418, 34263), (426, 34227), (447, 34146), (470, 34068), (477, 34032), (490, 33969),

Gene: KFPoly_49 Start: 35442, Stop: 33409, Start Num: 48
Candidate Starts for KFPoly_49:
(Start: 48 @35442 has 546 MA's), (68, 35379), (Start: 73 @35331 has 4 MA's), (78, 35307), (92, 35241), (Start: 97 @35205 has 1 MA's), (102, 35172), (114, 35124), (116, 35115), (125, 35058), (134, 35031), (141, 34998), (172, 34842), (173, 34833), (182, 34764), (207, 34692), (212, 34662), (213, 34659), (216, 34629), (217, 34623), (218, 34620), (236, 34533), (251, 34503), (261, 34491), (269, 34482), (287, 34434), (321, 34230), (341, 34128), (345, 34110), (373, 33969), (376, 33942), (407, 33798), (408, 33795), (416, 33765), (430, 33702), (441, 33669), (443, 33660), (447, 33639), (461, 33591), (477, 33525),

Gene: Kachowdy_51 Start: 35682, Stop: 33622, Start Num: 48
Candidate Starts for Kachowdy_51:
(Start: 48 @35682 has 546 MA's), (74, 35568), (92, 35481), (Start: 97 @35445 has 1 MA's), (102, 35412), (114, 35364), (116, 35355), (141, 35235), (168, 35106), (172, 35079), (173, 35070), (182, 35001), (188, 34980), (190, 34977), (207, 34935), (212, 34905), (213, 34902), (214, 34890), (216, 34872), (217, 34866), (218, 34863), (287, 34659), (321, 34455), (327, 34419), (333, 34395), (341, 34353), (345, 34335), (369, 34215), (370, 34209), (373, 34194), (376, 34167), (403, 34029), (419, 33966), (443, 33873), (447, 33852), (471, 33771), (477, 33738),

Gene: Kaine_47 Start: 33048, Stop: 35111, Start Num: 48
Candidate Starts for Kaine_47:
(12, 32946), (13, 32952), (Start: 48 @33048 has 546 MA's), (Start: 61 @33087 has 1 MA's), (Start: 71 @33150 has 1 MA's), (Start: 73 @33159 has 4 MA's), (81, 33210), (82, 33216), (Start: 88 @33249 has 3 MA's), (116, 33390), (117, 33405), (134, 33477), (141, 33510), (163, 33627), (172, 33669), (182, 33747), (183, 33750), (187, 33771), (207, 33837), (216, 33900), (218, 33909), (278, 34050), (287, 34074), (318, 34263), (327, 34320), (354, 34443), (376, 34569), (378, 34578), (402, 34695), (403, 34707), (407, 34731), (408, 34734), (420, 34782), (436, 34836), (441, 34854), (447, 34884), (463, 34938), (473, 34980), (490, 35058),

Gene: Kalb97_55 Start: 35795, Stop: 33780, Start Num: 55
Candidate Starts for Kalb97_55:
(Start: 55 @35795 has 103 MA's), (Start: 71 @35702 has 1 MA's), (Start: 73 @35693 has 4 MA's), (Start: 88 @35618 has 3 MA's), (Start: 97 @35567 has 1 MA's), (114, 35486), (116, 35477), (125, 35420), (141, 35360), (156, 35300), (159, 35264), (172, 35204), (173, 35195), (182, 35126), (185, 35114), (207, 35054), (212, 35024), (213, 35021), (214, 35009), (216, 34991), (217, 34985), (218, 34982), (225, 34949), (261, 34847), (287, 34817), (312, 34646), (320, 34613), (323, 34595), (327, 34574), (333, 34550), (341, 34508), (345, 34490), (355, 34442), (370, 34367), (376, 34325), (383,

34262), (384, 34256), (391, 34232), (418, 34127), (436, 34058), (441, 34040), (443, 34031), (447, 34010), (470, 33932), (477, 33896), (490, 33833),

Gene: Kalnoky_55 Start: 35793, Stop: 33778, Start Num: 55
Candidate Starts for Kalnoky_55:
(Start: 55 @35793 has 103 MA's), (Start: 71 @35700 has 1 MA's), (Start: 73 @35691 has 4 MA's), (Start: 88 @35616 has 3 MA's), (Start: 97 @35565 has 1 MA's), (114, 35484), (116, 35475), (125, 35418), (141, 35358), (156, 35298), (159, 35262), (172, 35202), (173, 35193), (182, 35124), (185, 35112), (207, 35052), (212, 35022), (213, 35019), (214, 35007), (216, 34989), (217, 34983), (218, 34980), (225, 34947), (261, 34845), (287, 34815), (312, 34644), (323, 34593), (327, 34572), (333, 34548), (341, 34506), (345, 34488), (355, 34440), (370, 34365), (376, 34323), (383, 34260), (384, 34254), (391, 34230), (418, 34125), (436, 34056), (441, 34038), (443, 34029), (447, 34008), (470, 33930), (477, 33894), (490, 33831),

Gene: Kalpine_49 Start: 35973, Stop: 33940, Start Num: 48
Candidate Starts for Kalpine_49:
(Start: 48 @35973 has 546 MA's), (Start: 73 @35859 has 4 MA's), (74, 35856), (87, 35787), (Start: 88 @35784 has 3 MA's), (Start: 97 @35733 has 1 MA's), (102, 35700), (114, 35652), (116, 35643), (125, 35583), (141, 35523), (172, 35367), (173, 35358), (182, 35289), (207, 35223), (212, 35193), (213, 35190), (214, 35178), (216, 35160), (217, 35154), (218, 35151), (280, 34992), (291, 34947), (298, 34905), (321, 34767), (341, 34665), (343, 34653), (356, 34593), (370, 34521), (391, 34389), (396, 34380), (408, 34326), (425, 34254), (430, 34233), (432, 34227), (447, 34170), (461, 34122), (463, 34113),

Gene: Kampy_50 Start: 35450, Stop: 33417, Start Num: 48
Candidate Starts for Kampy_50:
(Start: 48 @35450 has 546 MA's), (68, 35387), (Start: 73 @35339 has 4 MA's), (78, 35315), (92, 35249), (Start: 97 @35213 has 1 MA's), (102, 35180), (114, 35132), (116, 35123), (125, 35066), (134, 35039), (141, 35006), (172, 34850), (173, 34841), (182, 34772), (207, 34700), (212, 34670), (213, 34667), (216, 34637), (217, 34631), (218, 34628), (236, 34541), (251, 34511), (261, 34499), (269, 34490), (287, 34442), (321, 34238), (341, 34136), (345, 34118), (373, 33977), (376, 33950), (407, 33806), (408, 33803), (416, 33773), (430, 33710), (441, 33677), (443, 33668), (447, 33647), (461, 33599), (477, 33533),

Gene: Karimac_44 Start: 19639, Stop: 21579, Start Num: 64
Candidate Starts for Karimac_44:
(Start: 64 @19639 has 81 MA's), (90, 19771), (96, 19807), (102, 19843), (110, 19870), (112, 19882), (132, 19987), (150, 20044), (188, 20269), (221, 20407), (232, 20458), (239, 20497), (245, 20509), (293, 20587), (305, 20686), (314, 20722), (345, 20869), (379, 21043), (400, 21148), (401, 21151), (439, 21322), (476, 21460),

Gene: Karp_20 Start: 7742, Stop: 9685, Start Num: 65
Candidate Starts for Karp_20:
(62, 7733), (Start: 65 @7742 has 29 MA's), (90, 7880), (110, 7979), (112, 7991), (132, 8096), (242, 8609), (297, 8723), (313, 8825), (339, 8948), (344, 8972), (364, 9044), (379, 9149), (383, 9191), (389, 9221), (401, 9257), (405, 9278), (414, 9329), (421, 9359), (434, 9410), (476, 9566), (484, 9608), (493, 9665),

Gene: Katalie_47 Start: 32197, Stop: 34287, Start Num: 48
Candidate Starts for Katalie_47:
(34, 32158), (Start: 48 @32197 has 546 MA's), (79, 32353), (Start: 88 @32407 has 3 MA's), (90, 32413), (Start: 97 @32458 has 1 MA's), (114, 32539), (116, 32548), (131, 32626), (141, 32668), (149, 32686), (163, 32785), (172, 32827), (182, 32905), (183, 32908), (207, 32995), (216, 33058), (218,

33067), (283, 33232), (287, 33244), (305, 33376), (321, 33454), (323, 33469), (327, 33490), (338, 33541), (370, 33700), (371, 33706), (378, 33751), (384, 33811), (395, 33838), (407, 33904), (410, 33910), (420, 33955), (425, 33973), (436, 34009), (441, 34027), (447, 34057), (457, 34096), (473, 34156), (488, 34228),

Gene: Katalie136_49 Start: 35409, Stop: 33391, Start Num: 48
Candidate Starts for Katalie136_49:
(Start: 48 @35409 has 546 MA's), (Start: 73 @35298 has 4 MA's), (92, 35208), (Start: 97 @35172 has 1 MA's), (102, 35139), (114, 35091), (116, 35082), (125, 35022), (141, 34962), (172, 34806), (173, 34797), (182, 34728), (185, 34716), (205, 34665), (207, 34656), (212, 34626), (213, 34623), (216, 34593), (217, 34587), (218, 34584), (255, 34464), (278, 34440), (287, 34416), (321, 34212), (341, 34110), (345, 34092), (355, 34041), (369, 33972), (373, 33951), (376, 33924), (407, 33780), (408, 33777), (416, 33747), (426, 33702), (441, 33651), (443, 33642), (447, 33621), (477, 33507), (488, 33450),

Gene: KatherineG_57 Start: 35181, Stop: 33118, Start Num: 42
Candidate Starts for KatherineG_57:
(Start: 42 @35181 has 25 MA's), (77, 35037), (87, 34986), (Start: 88 @34983 has 3 MA's), (114, 34851), (116, 34842), (141, 34722), (173, 34557), (177, 34518), (182, 34488), (199, 34446), (207, 34422), (212, 34392), (216, 34359), (217, 34353), (218, 34350), (278, 34176), (283, 34164), (291, 34128), (318, 33969), (320, 33951), (321, 33948), (327, 33912), (333, 33888), (341, 33846), (351, 33795), (369, 33708), (370, 33702), (376, 33660), (426, 33429), (447, 33348), (464, 33288), (470, 33270), (488, 33177), (491, 33159),

Gene: Kazan_54 Start: 34820, Stop: 32796, Start Num: 48
Candidate Starts for Kazan_54:
(33, 34853), (Start: 48 @34820 has 546 MA's), (Start: 88 @34634 has 3 MA's), (102, 34550), (114, 34502), (116, 34493), (125, 34433), (141, 34373), (155, 34316), (159, 34277), (168, 34244), (172, 34217), (173, 34208), (178, 34154), (182, 34139), (207, 34067), (212, 34037), (216, 34004), (217, 33998), (218, 33995), (291, 33803), (318, 33644), (321, 33623), (343, 33509), (356, 33449), (358, 33440), (367, 33395), (370, 33377), (374, 33344), (393, 33242), (396, 33236), (408, 33182), (415, 33155), (416, 33152), (418, 33143), (430, 33089), (447, 33026), (454, 32996), (463, 32969),

Gene: KekoraPapaka_50 Start: 35448, Stop: 33415, Start Num: 48
Candidate Starts for KekoraPapaka_50:
(Start: 48 @35448 has 546 MA's), (68, 35385), (Start: 73 @35337 has 4 MA's), (78, 35313), (92, 35247), (Start: 97 @35211 has 1 MA's), (102, 35178), (114, 35130), (116, 35121), (125, 35064), (134, 35037), (141, 35004), (172, 34848), (173, 34839), (182, 34770), (207, 34698), (212, 34668), (213, 34665), (216, 34635), (217, 34629), (218, 34626), (236, 34539), (251, 34509), (261, 34497), (269, 34488), (287, 34440), (321, 34236), (341, 34134), (345, 34116), (373, 33975), (376, 33948), (407, 33804), (408, 33801), (416, 33771), (430, 33708), (441, 33675), (443, 33666), (447, 33645), (461, 33597), (477, 33531),

Gene: Kenrey_24 Start: 8723, Stop: 10666, Start Num: 65
Candidate Starts for Kenrey_24:
(62, 8714), (Start: 65 @8723 has 29 MA's), (Start: 73 @8780 has 4 MA's), (90, 8861), (98, 8912), (99, 8915), (110, 8960), (111, 8969), (112, 8972), (132, 9077), (150, 9134), (235, 9563), (242, 9590), (311, 9803), (324, 9857), (339, 9929), (344, 9953), (364, 10025), (401, 10238), (423, 10343), (429, 10379), (455, 10472), (480, 10571),

Gene: KentuckyRacer_45 Start: 19423, Stop: 21363, Start Num: 64
Candidate Starts for KentuckyRacer_45:

(Start: 64 @19423 has 81 MA's), (90, 19555), (96, 19591), (102, 19627), (110, 19654), (112, 19666), (132, 19771), (143, 19813), (150, 19828), (188, 20053), (210, 20107), (221, 20191), (232, 20242), (239, 20281), (245, 20293), (293, 20371), (305, 20470), (314, 20506), (345, 20653), (379, 20827), (382, 20863), (400, 20932), (401, 20935), (439, 21106), (476, 21244),

Gene: Kerberos_53 Start: 35561, Stop: 33480, Start Num: 48
Candidate Starts for Kerberos_53:
(Start: 48 @35561 has 546 MA's), (Start: 71 @35456 has 1 MA's), (Start: 73 @35447 has 4 MA's), (Start: 88 @35372 has 3 MA's), (102, 35288), (114, 35240), (116, 35231), (125, 35171), (149, 35093), (155, 35054), (172, 34955), (178, 34892), (182, 34877), (207, 34781), (212, 34751), (213, 34748), (216, 34718), (217, 34712), (218, 34709), (236, 34622), (273, 34562), (278, 34547), (291, 34499), (321, 34319), (341, 34217), (343, 34205), (356, 34145), (358, 34136), (367, 34091), (369, 34079), (373, 34058), (376, 34031), (384, 33962), (408, 33866), (415, 33839), (418, 33827), (426, 33791), (447, 33710), (458, 33668),

Gene: Keziacharles14_51 Start: 36794, Stop: 34755, Start Num: 48
Candidate Starts for Keziacharles14_51:
(Start: 48 @36794 has 546 MA's), (75, 36665), (116, 36464), (125, 36404), (141, 36344), (142, 36341), (172, 36188), (178, 36125), (181, 36113), (182, 36110), (207, 36044), (214, 35999), (216, 35981), (217, 35975), (218, 35972), (227, 35933), (234, 35891), (280, 35807), (291, 35762), (321, 35582), (343, 35468), (356, 35408), (358, 35399), (374, 35303), (376, 35294), (378, 35285), (408, 35141), (418, 35102), (430, 35048), (447, 34985),

Gene: Kimba_51 Start: 34879, Stop: 32858, Start Num: 52
Candidate Starts for Kimba_51:
(28, 34930), (43, 34897), (Start: 52 @34879 has 24 MA's), (Start: 73 @34771 has 4 MA's), (Start: 88 @34696 has 3 MA's), (114, 34564), (116, 34555), (141, 34435), (172, 34279), (177, 34231), (181, 34204), (182, 34201), (185, 34189), (201, 34156), (207, 34135), (214, 34090), (216, 34072), (217, 34066), (218, 34063), (257, 33943), (291, 33868), (294, 33853), (321, 33688), (333, 33628), (341, 33586), (345, 33568), (360, 33496), (370, 33442), (373, 33427), (374, 33409), (391, 33310), (408, 33247), (418, 33208), (441, 33118), (447, 33088), (461, 33040),

Gene: Kimona_50 Start: 34054, Stop: 32024, Start Num: 48
Candidate Starts for Kimona_50:
(Start: 48 @34054 has 546 MA's), (Start: 71 @33949 has 1 MA's), (Start: 73 @33940 has 4 MA's), (114, 33733), (116, 33724), (121, 33682), (141, 33604), (148, 33589), (156, 33544), (172, 33448), (173, 33439), (179, 33379), (182, 33370), (185, 33358), (207, 33298), (216, 33235), (217, 33229), (218, 33226), (287, 33061), (294, 33022), (308, 32911), (321, 32857), (355, 32686), (356, 32683), (358, 32674), (369, 32617), (370, 32611), (373, 32596), (376, 32569), (384, 32500), (407, 32413), (419, 32368), (443, 32275), (477, 32140), (488, 32083), (490, 32077),

Gene: KingCyrus_53 Start: 37460, Stop: 35421, Start Num: 48
Candidate Starts for KingCyrus_53:
(Start: 48 @37460 has 546 MA's), (Start: 97 @37220 has 1 MA's), (116, 37130), (117, 37115), (141, 37010), (172, 36854), (182, 36776), (207, 36704), (212, 36674), (213, 36671), (214, 36659), (216, 36641), (217, 36635), (218, 36632), (291, 36428), (298, 36386), (321, 36248), (327, 36212), (341, 36146), (343, 36134), (356, 36074), (367, 36020), (370, 36002), (408, 35807), (418, 35768), (430, 35714), (437, 35696), (447, 35651), (461, 35603), (463, 35594), (492, 35453),

Gene: Kingmustik0402_50 Start: 35437, Stop: 33404, Start Num: 48
Candidate Starts for Kingmustik0402_50:
(Start: 48 @35437 has 546 MA's), (68, 35374), (Start: 73 @35326 has 4 MA's), (78, 35302), (92, 35236), (Start: 97 @35200 has 1 MA's), (102, 35167), (114, 35119), (116, 35110), (125, 35053), (134,

35026), (141, 34993), (172, 34837), (173, 34828), (182, 34759), (207, 34687), (212, 34657), (213, 34654), (216, 34624), (217, 34618), (218, 34615), (236, 34528), (251, 34498), (261, 34486), (269, 34477), (287, 34429), (321, 34225), (341, 34123), (345, 34105), (373, 33964), (376, 33937), (407, 33793), (408, 33790), (416, 33760), (430, 33697), (441, 33664), (443, 33655), (447, 33634), (461, 33586), (477, 33520),

Gene: Kinmap_47 Start: 34257, Stop: 32233, Start Num: 48
Candidate Starts for Kinmap_47:
(Start: 48 @34257 has 546 MA's), (74, 34143), (85, 34080), (Start: 88 @34071 has 3 MA's), (Start: 97 @34020 has 1 MA's), (102, 33987), (116, 33930), (125, 33870), (141, 33810), (156, 33750), (159, 33714), (168, 33681), (172, 33654), (173, 33645), (182, 33576), (207, 33504), (212, 33474), (213, 33471), (216, 33441), (217, 33435), (218, 33432), (291, 33240), (321, 33060), (333, 33000), (341, 32958), (355, 32883), (369, 32814), (370, 32808), (376, 32766), (378, 32757), (406, 32622), (410, 32610), (418, 32583), (447, 32463), (454, 32433), (461, 32415),

Gene: Kipper29_53 Start: 34833, Stop: 32809, Start Num: 48
Candidate Starts for Kipper29_53:
(33, 34866), (Start: 48 @34833 has 546 MA's), (Start: 88 @34647 has 3 MA's), (102, 34563), (114, 34515), (116, 34506), (125, 34446), (141, 34386), (155, 34329), (159, 34290), (168, 34257), (172, 34230), (173, 34221), (178, 34167), (182, 34152), (207, 34080), (212, 34050), (216, 34017), (217, 34011), (218, 34008), (291, 33816), (318, 33657), (321, 33636), (343, 33522), (356, 33462), (358, 33453), (367, 33408), (370, 33390), (374, 33357), (393, 33255), (396, 33249), (408, 33195), (415, 33168), (416, 33165), (418, 33156), (430, 33102), (447, 33039), (454, 33009), (463, 32982),

Gene: KittenMittens_46 Start: 34407, Stop: 32368, Start Num: 35
Candidate Starts for KittenMittens_46:
(Start: 35 @34407 has 17 MA's), (78, 34272), (Start: 97 @34170 has 1 MA's), (102, 34137), (114, 34089), (116, 34080), (125, 34023), (141, 33963), (148, 33948), (172, 33807), (182, 33729), (185, 33717), (207, 33657), (212, 33627), (216, 33594), (217, 33588), (218, 33585), (225, 33552), (278, 33417), (287, 33393), (321, 33189), (341, 33087), (345, 33069), (355, 33018), (369, 32949), (370, 32943), (376, 32901), (378, 32892), (384, 32832), (407, 32757), (408, 32754), (410, 32751), (419, 32712), (430, 32661), (432, 32655), (447, 32598), (477, 32484), (488, 32427),

Gene: Klodlith_51 Start: 35449, Stop: 33410, Start Num: 48
Candidate Starts for Klodlith_51:
(Start: 48 @35449 has 546 MA's), (Start: 71 @35344 has 1 MA's), (Start: 73 @35335 has 4 MA's), (116, 35119), (117, 35104), (125, 35059), (126, 35056), (134, 35032), (141, 34999), (172, 34843), (182, 34765), (185, 34753), (207, 34699), (214, 34654), (216, 34636), (217, 34630), (218, 34627), (278, 34465), (280, 34462), (291, 34417), (301, 34342), (308, 34291), (321, 34237), (322, 34225), (356, 34063), (358, 34054), (367, 34009), (370, 33991), (376, 33949), (408, 33796), (426, 33721), (447, 33640), (461, 33592),

Gene: Koan_48 Start: 35448, Stop: 33415, Start Num: 48
Candidate Starts for Koan_48:
(Start: 48 @35448 has 546 MA's), (68, 35385), (Start: 73 @35337 has 4 MA's), (78, 35313), (92, 35247), (Start: 97 @35211 has 1 MA's), (102, 35178), (114, 35130), (116, 35121), (125, 35064), (134, 35037), (141, 35004), (172, 34848), (173, 34839), (182, 34770), (207, 34698), (212, 34668), (213, 34665), (216, 34635), (217, 34629), (218, 34626), (236, 34539), (251, 34509), (261, 34497), (269, 34488), (287, 34440), (321, 34236), (341, 34134), (345, 34116), (373, 33975), (376, 33948), (407, 33804), (408, 33801), (416, 33771), (430, 33708), (441, 33675), (443, 33666), (447, 33645), (461, 33597), (477, 33531),

Gene: Koduck_52 Start: 34966, Stop: 32918, Start Num: 48

Candidate Starts for Koduck_52:
(Start: 48 @34966 has 546 MA's), (74, 34852), (79, 34816), (82, 34813), (Start: 88 @34780 has 3 MA's), (92, 34765), (114, 34648), (116, 34639), (141, 34519), (171, 34372), (172, 34363), (177, 34315), (181, 34288), (182, 34285), (207, 34219), (213, 34186), (214, 34174), (216, 34156), (217, 34150), (218, 34147), (271, 33994), (278, 33967), (291, 33919), (298, 33877), (308, 33793), (321, 33739), (327, 33703), (338, 33652), (343, 33625), (356, 33565), (358, 33556), (370, 33493), (374, 33460), (376, 33451), (382, 33394), (386, 33370), (396, 33352), (408, 33298), (415, 33271), (430, 33211), (443, 33169), (447, 33148),

Gene: Koko_55 Start: 35338, Stop: 33284, Start Num: 48
Candidate Starts for Koko_55:
(Start: 48 @35338 has 546 MA's), (Start: 88 @35152 has 3 MA's), (Start: 97 @35101 has 1 MA's), (102, 35068), (114, 35020), (116, 35011), (125, 34951), (141, 34891), (155, 34834), (159, 34795), (168, 34762), (172, 34735), (173, 34726), (182, 34657), (207, 34585), (212, 34555), (216, 34522), (217, 34516), (218, 34513), (236, 34426), (258, 34372), (278, 34339), (291, 34291), (298, 34249), (321, 34111), (343, 33997), (356, 33937), (358, 33928), (367, 33883), (370, 33865), (374, 33832), (393, 33730), (396, 33724), (408, 33670), (415, 33643), (418, 33631), (430, 33577), (447, 33514), (454, 33484), (463, 33457), (472, 33418),

Gene: Koreni_49 Start: 35129, Stop: 33096, Start Num: 48
Candidate Starts for Koreni_49:
(Start: 48 @35129 has 546 MA's), (68, 35066), (Start: 73 @35018 has 4 MA's), (78, 34994), (92, 34928), (Start: 97 @34892 has 1 MA's), (102, 34859), (114, 34811), (116, 34802), (125, 34745), (134, 34718), (141, 34685), (172, 34529), (173, 34520), (182, 34451), (207, 34379), (212, 34349), (213, 34346), (216, 34316), (217, 34310), (218, 34307), (236, 34220), (251, 34190), (261, 34178), (269, 34169), (287, 34121), (321, 33917), (341, 33815), (345, 33797), (373, 33656), (376, 33629), (407, 33485), (408, 33482), (416, 33452), (430, 33389), (441, 33356), (443, 33347), (447, 33326), (461, 33278), (477, 33212),

Gene: Kratark_50 Start: 35603, Stop: 33573, Start Num: 48
Candidate Starts for Kratark_50:
(Start: 48 @35603 has 546 MA's), (92, 35402), (Start: 97 @35366 has 1 MA's), (102, 35333), (114, 35285), (116, 35276), (125, 35219), (141, 35159), (160, 35057), (172, 35003), (173, 34994), (182, 34925), (185, 34913), (206, 34862), (207, 34853), (212, 34823), (213, 34820), (216, 34790), (217, 34784), (218, 34781), (225, 34748), (287, 34598), (321, 34394), (341, 34292), (345, 34274), (369, 34154), (373, 34133), (376, 34106), (407, 33962), (408, 33959), (416, 33929), (426, 33884), (436, 33851), (441, 33833), (443, 33824), (447, 33803), (477, 33689),

Gene: Kremtemulon_50 Start: 35396, Stop: 33363, Start Num: 48
Candidate Starts for Kremtemulon_50:
(Start: 48 @35396 has 546 MA's), (68, 35333), (Start: 73 @35285 has 4 MA's), (78, 35261), (92, 35195), (Start: 97 @35159 has 1 MA's), (102, 35126), (114, 35078), (116, 35069), (125, 35012), (134, 34985), (141, 34952), (172, 34796), (173, 34787), (182, 34718), (207, 34646), (212, 34616), (213, 34613), (216, 34583), (217, 34577), (218, 34574), (236, 34487), (251, 34457), (261, 34445), (269, 34436), (287, 34388), (321, 34184), (341, 34082), (345, 34064), (373, 33923), (376, 33896), (407, 33752), (408, 33749), (416, 33719), (430, 33656), (441, 33623), (443, 33614), (447, 33593), (461, 33545), (477, 33479),

Gene: Krishelle_41 Start: 32434, Stop: 30389, Start Num: 46
Candidate Starts for Krishelle_41:
(Start: 46 @32434 has 38 MA's), (74, 32314), (87, 32245), (Start: 97 @32191 has 1 MA's), (114, 32110), (116, 32101), (125, 32041), (131, 32023), (156, 31921), (158, 31888), (159, 31885), (161, 31876), (167, 31855), (171, 31834), (172, 31825), (178, 31762), (182, 31747), (184, 31741), (207,

31681), (213, 31648), (216, 31618), (217, 31612), (218, 31609), (259, 31474), (312, 31261), (320, 31228), (338, 31138), (340, 31129), (367, 30997), (376, 30937), (385, 30865), (398, 30826), (399, 30823), (402, 30811), (418, 30739), (436, 30667), (443, 30640), (477, 30505),

Gene: Kristoff_49 Start: 35549, Stop: 33468, Start Num: 35
Candidate Starts for Kristoff_49:
(Start: 35 @35549 has 17 MA's), (44, 35528), (Start: 73 @35408 has 4 MA's), (74, 35405), (78, 35384), (Start: 97 @35282 has 1 MA's), (102, 35249), (114, 35201), (116, 35192), (125, 35135), (141, 35075), (148, 35060), (159, 34979), (172, 34919), (182, 34841), (185, 34829), (206, 34778), (207, 34769), (212, 34739), (216, 34706), (217, 34700), (218, 34697), (273, 34532), (280, 34514), (291, 34469), (298, 34427), (321, 34289), (341, 34187), (345, 34169), (355, 34118), (369, 34049), (370, 34043), (373, 34028), (376, 34001), (378, 33992), (384, 33932), (407, 33857), (408, 33854), (410, 33851), (419, 33812), (430, 33761), (432, 33755), (447, 33698), (477, 33584), (488, 33527),

Gene: Kyee_50 Start: 35446, Stop: 33413, Start Num: 48
Candidate Starts for Kyee_50:
(Start: 48 @35446 has 546 MA's), (68, 35383), (Start: 73 @35335 has 4 MA's), (78, 35311), (92, 35245), (Start: 97 @35209 has 1 MA's), (102, 35176), (114, 35128), (116, 35119), (125, 35062), (134, 35035), (141, 35002), (172, 34846), (173, 34837), (182, 34768), (207, 34696), (212, 34666), (213, 34663), (216, 34633), (217, 34627), (218, 34624), (236, 34537), (251, 34507), (261, 34495), (269, 34486), (287, 34438), (321, 34234), (341, 34132), (345, 34114), (373, 33973), (376, 33946), (407, 33802), (408, 33799), (416, 33769), (430, 33706), (441, 33673), (443, 33664), (447, 33643), (461, 33595), (477, 33529),

Gene: L5_50 Start: 35041, Stop: 32993, Start Num: 48
Candidate Starts for L5_50:
(Start: 48 @35041 has 546 MA's), (74, 34927), (79, 34891), (82, 34888), (Start: 88 @34855 has 3 MA's), (92, 34840), (114, 34723), (116, 34714), (141, 34594), (171, 34447), (172, 34438), (177, 34390), (181, 34363), (182, 34360), (207, 34294), (213, 34261), (214, 34249), (216, 34231), (217, 34225), (218, 34222), (271, 34069), (278, 34042), (291, 33994), (298, 33952), (308, 33868), (321, 33814), (327, 33778), (338, 33727), (343, 33700), (356, 33640), (358, 33631), (370, 33568), (374, 33535), (376, 33526), (382, 33469), (386, 33445), (396, 33427), (408, 33373), (415, 33346), (430, 33286), (443, 33244), (447, 33223),

Gene: LBerry_55 Start: 35910, Stop: 33892, Start Num: 55
Candidate Starts for LBerry_55:
(Start: 55 @35910 has 103 MA's), (Start: 71 @35817 has 1 MA's), (Start: 73 @35808 has 4 MA's), (78, 35784), (Start: 88 @35733 has 3 MA's), (Start: 97 @35682 has 1 MA's), (114, 35601), (116, 35592), (141, 35472), (156, 35412), (159, 35376), (172, 35316), (182, 35238), (207, 35166), (212, 35136), (216, 35103), (217, 35097), (218, 35094), (234, 35013), (242, 34983), (287, 34929), (312, 34758), (333, 34662), (341, 34620), (345, 34602), (355, 34554), (358, 34542), (369, 34485), (370, 34479), (373, 34464), (376, 34437), (383, 34374), (384, 34368), (391, 34344), (418, 34239), (436, 34170), (441, 34152), (443, 34143), (447, 34122), (470, 34044), (477, 34008), (490, 33945),

Gene: LHTSCC_52 Start: 35884, Stop: 33833, Start Num: 48
Candidate Starts for LHTSCC_52:
(Start: 48 @35884 has 546 MA's), (68, 35821), (Start: 73 @35773 has 4 MA's), (74, 35770), (78, 35749), (92, 35683), (Start: 97 @35647 has 1 MA's), (102, 35614), (114, 35566), (116, 35557), (125, 35500), (134, 35473), (141, 35440), (148, 35425), (172, 35284), (173, 35275), (182, 35206), (207, 35134), (212, 35104), (213, 35101), (216, 35071), (217, 35065), (218, 35062), (268, 34909), (287, 34858), (321, 34654), (341, 34552), (345, 34534), (373, 34393), (376, 34366), (407, 34222), (408, 34219), (416, 34189), (430, 34126), (441, 34093), (443, 34084), (447, 34063), (461, 34015), (477, 33949),

Gene: LadyBird_56 Start: 36593, Stop: 34536, Start Num: 48
Candidate Starts for LadyBird_56:
(Start: 48 @36593 has 546 MA's), (74, 36476), (Start: 88 @36404 has 3 MA's), (89, 36401), (Start: 97 @36353 has 1 MA's), (116, 36263), (125, 36203), (141, 36143), (172, 35987), (173, 35978), (182, 35909), (207, 35843), (212, 35813), (213, 35810), (214, 35798), (216, 35780), (217, 35774), (218, 35771), (244, 35660), (280, 35588), (291, 35543), (298, 35501), (321, 35363), (327, 35327), (341, 35261), (343, 35249), (356, 35189), (367, 35135), (370, 35117), (397, 34976), (402, 34955), (408, 34922), (418, 34883), (419, 34880), (425, 34850), (430, 34829), (432, 34823), (447, 34766), (461, 34718), (463, 34709),

Gene: Lambert1_50 Start: 35710, Stop: 33692, Start Num: 55
Candidate Starts for Lambert1_50:
(Start: 55 @35710 has 103 MA's), (Start: 71 @35617 has 1 MA's), (Start: 73 @35608 has 4 MA's), (77, 35587), (92, 35518), (Start: 97 @35482 has 1 MA's), (102, 35449), (114, 35401), (116, 35392), (141, 35275), (159, 35179), (172, 35119), (179, 35050), (182, 35041), (185, 35029), (207, 34969), (212, 34939), (213, 34936), (214, 34924), (216, 34906), (217, 34900), (218, 34897), (239, 34792), (242, 34786), (287, 34729), (321, 34525), (333, 34465), (341, 34423), (345, 34405), (358, 34342), (370, 34279), (373, 34264), (376, 34237), (385, 34165), (408, 34078), (419, 34036), (443, 33943), (447, 33922), (477, 33808),

Gene: Landor_51 Start: 36934, Stop: 34904, Start Num: 48
Candidate Starts for Landor_51:
(Start: 48 @36934 has 546 MA's), (74, 36820), (116, 36607), (117, 36592), (141, 36487), (172, 36331), (173, 36322), (182, 36253), (199, 36205), (207, 36181), (212, 36151), (213, 36148), (214, 36136), (216, 36118), (217, 36112), (218, 36109), (236, 36022), (278, 35953), (291, 35905), (298, 35863), (321, 35725), (327, 35689), (341, 35623), (343, 35611), (356, 35551), (367, 35497), (370, 35479), (391, 35347), (393, 35344), (396, 35338), (402, 35317), (408, 35284), (415, 35257), (430, 35197), (447, 35134), (461, 35086), (463, 35077),

Gene: Lannister_49 Start: 32582, Stop: 34672, Start Num: 48
Candidate Starts for Lannister_49:
(15, 32498), (17, 32504), (34, 32546), (Start: 48 @32582 has 546 MA's), (82, 32759), (Start: 88 @32792 has 3 MA's), (Start: 97 @32843 has 1 MA's), (114, 32924), (116, 32933), (131, 33011), (141, 33053), (158, 33146), (163, 33170), (168, 33185), (172, 33212), (182, 33290), (183, 33293), (207, 33380), (216, 33443), (218, 33452), (254, 33584), (283, 33617), (287, 33629), (305, 33761), (321, 33839), (327, 33875), (341, 33941), (358, 34022), (370, 34085), (371, 34091), (378, 34136), (384, 34196), (395, 34223), (398, 34235), (407, 34289), (410, 34295), (420, 34340), (426, 34361), (436, 34394), (441, 34412), (447, 34442), (450, 34454), (459, 34487), (473, 34541), (481, 34580), (486, 34610), (488, 34613),

Gene: LappelDuVide_50 Start: 35447, Stop: 33414, Start Num: 48
Candidate Starts for LappelDuVide_50:
(Start: 48 @35447 has 546 MA's), (68, 35384), (Start: 73 @35336 has 4 MA's), (78, 35312), (92, 35246), (Start: 97 @35210 has 1 MA's), (102, 35177), (114, 35129), (116, 35120), (125, 35063), (134, 35036), (141, 35003), (172, 34847), (173, 34838), (182, 34769), (207, 34697), (212, 34667), (213, 34664), (216, 34634), (217, 34628), (218, 34625), (236, 34538), (251, 34508), (261, 34496), (269, 34487), (287, 34439), (321, 34235), (341, 34133), (345, 34115), (373, 33974), (376, 33947), (407, 33803), (408, 33800), (416, 33770), (430, 33707), (441, 33674), (443, 33665), (447, 33644), (461, 33596), (477, 33530),

Gene: Larenn_50 Start: 35855, Stop: 33822, Start Num: 48
Candidate Starts for Larenn_50:

(Start: 48 @35855 has 546 MA's), (Start: 73 @35741 has 4 MA's), (Start: 88 @35666 has 3 MA's), (Start: 97 @35615 has 1 MA's), (102, 35582), (114, 35534), (116, 35525), (117, 35510), (125, 35465), (141, 35405), (172, 35249), (173, 35240), (182, 35171), (207, 35105), (212, 35075), (213, 35072), (214, 35060), (216, 35042), (217, 35036), (218, 35033), (280, 34874), (291, 34829), (298, 34787), (321, 34649), (327, 34613), (341, 34547), (343, 34535), (356, 34475), (370, 34403), (408, 34208), (415, 34181), (416, 34178), (418, 34169), (430, 34115), (432, 34109), (447, 34052), (463, 33995),

Gene: Larnav_43 Start: 19627, Stop: 21570, Start Num: 64
Candidate Starts for Larnav_43:
(Start: 52 @19582 has 24 MA's), (Start: 55 @19591 has 103 MA's), (Start: 64 @19627 has 81 MA's), (Start: 67 @19633 has 1 MA's), (69, 19657), (83, 19735), (86, 19756), (90, 19765), (93, 19777), (108, 19855), (110, 19864), (111, 19873), (112, 19876), (132, 19981), (204, 20290), (239, 20491), (245, 20503), (314, 20716), (317, 20725), (336, 20821), (345, 20863), (348, 20881), (379, 21037), (401, 21145), (439, 21316), (448, 21355), (476, 21454),

Gene: LarryKay_54 Start: 35936, Stop: 33918, Start Num: 55
Candidate Starts for LarryKay_54:
(Start: 55 @35936 has 103 MA's), (Start: 71 @35843 has 1 MA's), (Start: 73 @35834 has 4 MA's), (78, 35810), (Start: 88 @35759 has 3 MA's), (Start: 97 @35708 has 1 MA's), (114, 35627), (116, 35618), (141, 35501), (159, 35405), (172, 35345), (179, 35276), (182, 35267), (183, 35264), (185, 35255), (207, 35195), (212, 35165), (213, 35162), (214, 35150), (216, 35132), (217, 35126), (218, 35123), (239, 35018), (242, 35012), (287, 34955), (321, 34751), (323, 34736), (327, 34715), (333, 34691), (338, 34664), (341, 34649), (369, 34511), (370, 34505), (373, 34490), (376, 34463), (383, 34400), (384, 34394), (391, 34370), (418, 34265), (426, 34229), (447, 34148), (470, 34070), (477, 34034), (490, 33971),

Gene: LastResort_55 Start: 34695, Stop: 32632, Start Num: 42
Candidate Starts for LastResort_55:
(Start: 42 @34695 has 25 MA's), (87, 34500), (Start: 88 @34497 has 3 MA's), (114, 34365), (116, 34356), (141, 34236), (173, 34071), (177, 34032), (182, 34002), (199, 33960), (207, 33936), (212, 33906), (216, 33873), (217, 33867), (218, 33864), (278, 33690), (283, 33678), (291, 33642), (320, 33465), (321, 33462), (327, 33426), (341, 33360), (349, 33321), (351, 33309), (369, 33222), (370, 33216), (376, 33174), (426, 32943), (447, 32862), (464, 32802), (470, 32784), (488, 32691), (491, 32673),

Gene: Legacy_46 Start: 31762, Stop: 33852, Start Num: 48
Candidate Starts for Legacy_46:
(Start: 48 @31762 has 546 MA's), (78, 31903), (79, 31918), (82, 31939), (Start: 88 @31972 has 3 MA's), (90, 31978), (Start: 97 @32023 has 1 MA's), (114, 32104), (116, 32113), (131, 32191), (134, 32200), (141, 32233), (158, 32326), (163, 32350), (172, 32392), (182, 32470), (183, 32473), (207, 32560), (216, 32623), (218, 32632), (283, 32797), (287, 32809), (305, 32941), (309, 32968), (321, 33019), (323, 33034), (327, 33055), (341, 33121), (370, 33265), (371, 33271), (373, 33280), (378, 33316), (382, 33364), (384, 33376), (395, 33403), (398, 33415), (407, 33469), (420, 33520), (426, 33541), (436, 33574), (441, 33592), (447, 33622), (450, 33634), (457, 33661), (473, 33721), (486, 33790), (488, 33793), (495, 33844),

Gene: Lemur_50 Start: 35445, Stop: 33412, Start Num: 48
Candidate Starts for Lemur_50:
(Start: 48 @35445 has 546 MA's), (68, 35382), (Start: 73 @35334 has 4 MA's), (92, 35244), (Start: 97 @35208 has 1 MA's), (102, 35175), (114, 35127), (116, 35118), (125, 35061), (134, 35034), (141, 35001), (172, 34845), (173, 34836), (182, 34767), (207, 34695), (212, 34665), (213, 34662), (216, 34632), (217, 34626), (218, 34623), (236, 34536), (251, 34506), (261, 34494), (269, 34485), (287, 34437), (321, 34233), (341, 34131), (345, 34113), (373, 33972), (376, 33945), (407, 33801), (408,

33798), (416, 33768), (430, 33705), (441, 33672), (443, 33663), (447, 33642), (461, 33594), (477, 33528),

Gene: Leo04_43 Start: 19640, Stop: 21583, Start Num: 64
Candidate Starts for Leo04_43:
(Start: 52 @19595 has 24 MA's), (Start: 55 @19604 has 103 MA's), (Start: 64 @19640 has 81 MA's), (Start: 67 @19646 has 1 MA's), (83, 19748), (86, 19769), (90, 19778), (93, 19790), (108, 19868), (110, 19877), (111, 19886), (112, 19889), (132, 19994), (156, 20093), (204, 20303), (239, 20504), (245, 20516), (314, 20729), (336, 20834), (345, 20876), (348, 20894), (379, 21050), (401, 21158), (439, 21329), (448, 21368), (476, 21467),

Gene: LeoAvram_50 Start: 35448, Stop: 33415, Start Num: 48
Candidate Starts for LeoAvram_50:
(Start: 48 @35448 has 546 MA's), (68, 35385), (Start: 73 @35337 has 4 MA's), (78, 35313), (92, 35247), (Start: 97 @35211 has 1 MA's), (102, 35178), (114, 35130), (116, 35121), (125, 35064), (134, 35037), (141, 35004), (172, 34848), (173, 34839), (182, 34770), (207, 34698), (212, 34668), (213, 34665), (216, 34635), (217, 34629), (218, 34626), (236, 34539), (251, 34509), (261, 34497), (269, 34488), (287, 34440), (321, 34236), (341, 34134), (345, 34116), (373, 33975), (376, 33948), (407, 33804), (408, 33801), (416, 33771), (430, 33708), (441, 33675), (443, 33666), (447, 33645), (461, 33597), (477, 33531),

Gene: Leogania_51 Start: 36900, Stop: 34861, Start Num: 46
Candidate Starts for Leogania_51:
(Start: 46 @36900 has 38 MA's), (Start: 73 @36786 has 4 MA's), (Start: 88 @36711 has 3 MA's), (Start: 97 @36660 has 1 MA's), (102, 36627), (114, 36579), (116, 36570), (125, 36510), (141, 36450), (149, 36432), (172, 36294), (173, 36285), (182, 36216), (207, 36144), (212, 36114), (213, 36111), (214, 36099), (216, 36081), (217, 36075), (218, 36072), (280, 35913), (291, 35868), (298, 35826), (321, 35688), (327, 35652), (333, 35628), (341, 35586), (343, 35574), (356, 35514), (370, 35442), (391, 35310), (396, 35301), (408, 35247), (415, 35220), (416, 35217), (418, 35208), (430, 35154), (447, 35091), (461, 35043), (463, 35034),

Gene: Lev2_43 Start: 34315, Stop: 32246, Start Num: 48
Candidate Starts for Lev2_43:
(Start: 48 @34315 has 546 MA's), (Start: 88 @34129 has 3 MA's), (Start: 97 @34078 has 1 MA's), (102, 34045), (114, 33997), (116, 33988), (141, 33868), (148, 33853), (167, 33742), (168, 33739), (172, 33712), (173, 33703), (179, 33643), (182, 33634), (187, 33610), (207, 33523), (212, 33493), (213, 33490), (216, 33460), (217, 33454), (218, 33451), (291, 33259), (319, 33097), (323, 33064), (334, 33016), (341, 32977), (355, 32908), (367, 32851), (369, 32839), (370, 32833), (376, 32791), (378, 32782), (407, 32635), (416, 32602), (425, 32560), (436, 32524), (441, 32506), (443, 32497), (491, 32287),

Gene: Leviathan_53 Start: 36318, Stop: 34279, Start Num: 48
Candidate Starts for Leviathan_53:
(Start: 48 @36318 has 546 MA's), (Start: 97 @36078 has 1 MA's), (116, 35988), (117, 35973), (141, 35868), (172, 35712), (182, 35634), (207, 35562), (212, 35532), (213, 35529), (214, 35517), (216, 35499), (217, 35493), (218, 35490), (280, 35331), (291, 35286), (298, 35244), (321, 35106), (327, 35070), (341, 35004), (343, 34992), (356, 34932), (367, 34878), (370, 34860), (419, 34623), (430, 34572), (447, 34509), (461, 34461), (463, 34452), (492, 34311),

Gene: Leviticus_47 Start: 31667, Stop: 33757, Start Num: 48
Candidate Starts for Leviticus_47:
(Start: 48 @31667 has 546 MA's), (78, 31808), (79, 31823), (Start: 88 @31877 has 3 MA's), (90, 31883), (Start: 97 @31928 has 1 MA's), (114, 32009), (116, 32018), (131, 32096), (134, 32105), (141,

32138), (158, 32231), (163, 32255), (172, 32297), (182, 32375), (183, 32378), (207, 32465), (216, 32528), (218, 32537), (283, 32702), (287, 32714), (305, 32846), (309, 32873), (321, 32924), (323, 32939), (327, 32960), (341, 33026), (370, 33170), (371, 33176), (373, 33185), (378, 33221), (382, 33269), (384, 33281), (395, 33308), (398, 33320), (407, 33374), (420, 33425), (426, 33446), (436, 33479), (441, 33497), (447, 33527), (450, 33539), (457, 33566), (473, 33626), (486, 33695), (488, 33698), (495, 33749),

Gene: Liandry_41 Start: 18297, Stop: 20249, Start Num: 64
Candidate Starts for Liandry_41:
(Start: 64 @18297 has 81 MA's), (Start: 67 @18303 has 1 MA's), (83, 18405), (86, 18426), (90, 18435), (108, 18525), (110, 18534), (111, 18543), (112, 18546), (132, 18651), (204, 18960), (221, 19071), (239, 19161), (245, 19173), (314, 19386), (345, 19533), (362, 19596), (377, 19689), (379, 19707), (389, 19779), (401, 19815), (439, 19986), (448, 20025), (476, 20124),

Gene: Lika_47 Start: 32466, Stop: 34556, Start Num: 48
Candidate Starts for Lika_47:
(Start: 48 @32466 has 546 MA's), (Start: 61 @32511 has 1 MA's), (79, 32622), (Start: 88 @32676 has 3 MA's), (90, 32682), (Start: 97 @32727 has 1 MA's), (114, 32808), (116, 32817), (117, 32832), (131, 32895), (134, 32904), (141, 32937), (156, 32997), (158, 33030), (163, 33054), (172, 33096), (173, 33105), (182, 33174), (183, 33177), (200, 33234), (207, 33264), (216, 33327), (218, 33336), (229, 33387), (248, 33456), (283, 33501), (287, 33513), (305, 33645), (318, 33702), (321, 33723), (327, 33759), (338, 33810), (346, 33846), (358, 33906), (370, 33969), (371, 33975), (373, 33984), (378, 34020), (384, 34080), (395, 34107), (398, 34119), (399, 34122), (407, 34173), (410, 34179), (420, 34224), (425, 34242), (426, 34245), (436, 34278), (441, 34296), (447, 34326), (450, 34338), (457, 34365), (473, 34425), (488, 34497), (495, 34548),

Gene: LilMartin_40 Start: 18338, Stop: 20281, Start Num: 64
Candidate Starts for LilMartin_40:
(51, 18293), (Start: 64 @18338 has 81 MA's), (Start: 67 @18344 has 1 MA's), (83, 18446), (86, 18467), (90, 18476), (108, 18566), (110, 18575), (111, 18584), (112, 18587), (132, 18692), (143, 18734), (179, 18944), (204, 19001), (221, 19112), (239, 19202), (245, 19214), (314, 19427), (317, 19436), (345, 19574), (379, 19748), (401, 19856), (439, 20027), (448, 20066), (476, 20165),

Gene: LilSaint_42 Start: 18583, Stop: 20526, Start Num: 64
Candidate Starts for LilSaint_42:
(Start: 64 @18583 has 81 MA's), (Start: 67 @18589 has 1 MA's), (83, 18691), (86, 18712), (90, 18721), (108, 18811), (110, 18820), (111, 18829), (112, 18832), (132, 18937), (188, 19219), (204, 19246), (221, 19357), (239, 19447), (245, 19459), (314, 19672), (345, 19819), (348, 19837), (379, 19993), (401, 20101), (439, 20272), (448, 20311), (476, 20410),

Gene: LilTurb_52 Start: 36142, Stop: 34103, Start Num: 48
Candidate Starts for LilTurb_52:
(Start: 48 @36142 has 546 MA's), (Start: 97 @35902 has 1 MA's), (116, 35812), (117, 35797), (141, 35692), (172, 35536), (182, 35458), (207, 35386), (212, 35356), (213, 35353), (214, 35341), (216, 35323), (217, 35317), (218, 35314), (280, 35155), (291, 35110), (298, 35068), (321, 34930), (327, 34894), (341, 34828), (343, 34816), (356, 34756), (367, 34702), (370, 34684), (418, 34450), (419, 34447), (430, 34396), (447, 34333), (461, 34285), (463, 34276), (492, 34135),

Gene: Lilbunny_53 Start: 34908, Stop: 32854, Start Num: 48
Candidate Starts for Lilbunny_53:
(Start: 48 @34908 has 546 MA's), (Start: 88 @34722 has 3 MA's), (Start: 97 @34671 has 1 MA's), (102, 34638), (114, 34590), (116, 34581), (125, 34521), (141, 34461), (155, 34404), (159, 34365), (168, 34332), (172, 34305), (173, 34296), (178, 34242), (182, 34227), (207, 34155), (212, 34125),

(216, 34092), (217, 34086), (218, 34083), (236, 33996), (258, 33942), (278, 33909), (291, 33861), (298, 33819), (321, 33681), (343, 33567), (356, 33507), (358, 33498), (367, 33453), (370, 33435), (374, 33402), (393, 33300), (396, 33294), (408, 33240), (415, 33213), (418, 33201), (430, 33147), (447, 33084), (454, 33054), (463, 33027), (472, 32988),

Gene: Lilith_55 Start: 35899, Stop: 33881, Start Num: 55
Candidate Starts for Lilith_55:
(Start: 55 @35899 has 103 MA's), (Start: 73 @35797 has 4 MA's), (78, 35773), (Start: 88 @35722 has 3 MA's), (Start: 97 @35671 has 1 MA's), (114, 35590), (116, 35581), (141, 35461), (156, 35401), (159, 35365), (172, 35305), (182, 35227), (207, 35155), (212, 35125), (216, 35092), (217, 35086), (218, 35083), (234, 35002), (242, 34972), (287, 34918), (312, 34747), (333, 34651), (341, 34609), (345, 34591), (355, 34543), (358, 34531), (369, 34474), (370, 34468), (373, 34453), (376, 34426), (383, 34363), (384, 34357), (391, 34333), (418, 34228), (436, 34159), (441, 34141), (443, 34132), (447, 34111), (470, 34033), (477, 33997), (490, 33934),

Gene: Lilleskat_51 Start: 35672, Stop: 33633, Start Num: 48
Candidate Starts for Lilleskat_51:
(Start: 48 @35672 has 546 MA's), (Start: 73 @35558 has 4 MA's), (75, 35543), (78, 35534), (Start: 97 @35432 has 1 MA's), (116, 35342), (125, 35282), (141, 35222), (171, 35075), (172, 35066), (182, 34988), (185, 34976), (207, 34922), (212, 34892), (214, 34877), (216, 34859), (217, 34853), (218, 34850), (280, 34685), (291, 34640), (321, 34460), (341, 34358), (356, 34286), (374, 34181), (376, 34172), (408, 34019), (416, 33989), (430, 33926), (436, 33911), (447, 33863),

Gene: Lillie_41 Start: 32074, Stop: 30029, Start Num: 46
Candidate Starts for Lillie_41:
(Start: 46 @32074 has 38 MA's), (74, 31954), (85, 31891), (87, 31885), (Start: 97 @31831 has 1 MA's), (114, 31750), (116, 31741), (125, 31681), (131, 31663), (156, 31561), (158, 31528), (159, 31525), (161, 31516), (167, 31495), (171, 31474), (172, 31465), (178, 31402), (182, 31387), (184, 31381), (207, 31321), (213, 31288), (216, 31258), (217, 31252), (218, 31249), (259, 31114), (312, 30901), (320, 30868), (338, 30778), (340, 30769), (367, 30637), (376, 30577), (385, 30505), (398, 30466), (399, 30463), (402, 30451), (418, 30379), (436, 30307), (443, 30280), (477, 30145),

Gene: Limpid_20 Start: 7773, Stop: 9716, Start Num: 65
Candidate Starts for Limpid_20:
(10, 7599), (18, 7635), (62, 7764), (Start: 65 @7773 has 29 MA's), (Start: 73 @7830 has 4 MA's), (86, 7902), (90, 7911), (100, 7968), (Start: 103 @7986 has 6 MA's), (105, 7995), (110, 8010), (112, 8022), (132, 8127), (191, 8412), (242, 8640), (303, 8814), (324, 8907), (328, 8934), (339, 8979), (344, 9003), (358, 9054), (379, 9180), (401, 9288), (404, 9306), (419, 9378), (421, 9390), (476, 9597), (480, 9621),

Gene: LionsBait_51 Start: 37258, Stop: 35195, Start Num: 48
Candidate Starts for LionsBait_51:
(Start: 48 @37258 has 546 MA's), (Start: 73 @37144 has 4 MA's), (74, 37141), (Start: 88 @37069 has 3 MA's), (Start: 97 @37018 has 1 MA's), (116, 36928), (125, 36868), (141, 36808), (172, 36652), (182, 36574), (207, 36502), (212, 36472), (213, 36469), (214, 36457), (216, 36439), (217, 36433), (218, 36430), (244, 36319), (280, 36247), (291, 36202), (295, 36178), (298, 36160), (321, 36022), (327, 35986), (341, 35920), (343, 35908), (356, 35848), (367, 35794), (369, 35782), (370, 35776), (374, 35743), (399, 35626), (408, 35581), (410, 35578), (418, 35542), (430, 35488), (447, 35425), (461, 35377), (463, 35368),

Gene: LittleB_50 Start: 35449, Stop: 33416, Start Num: 48
Candidate Starts for LittleB_50:
(Start: 48 @35449 has 546 MA's), (68, 35386), (Start: 73 @35338 has 4 MA's), (78, 35314), (92, 35248), (Start: 97 @35212 has 1 MA's), (102, 35179), (114, 35131), (116, 35122), (125, 35065), (134,

35038), (141, 35005), (172, 34849), (173, 34840), (182, 34771), (207, 34699), (212, 34669), (213, 34666), (216, 34636), (217, 34630), (218, 34627), (236, 34540), (251, 34510), (261, 34498), (269, 34489), (287, 34441), (321, 34237), (341, 34135), (345, 34117), (373, 33976), (376, 33949), (407, 33805), (408, 33802), (416, 33772), (430, 33709), (441, 33676), (443, 33667), (447, 33646), (461, 33598), (477, 33532),

Gene: LittleCherry_44 Start: 34673, Stop: 32583, Start Num: 48
Candidate Starts for LittleCherry_44:
(Start: 48 @34673 has 546 MA's), (Start: 88 @34487 has 3 MA's), (Start: 97 @34436 has 1 MA's), (114, 34355), (116, 34346), (141, 34226), (148, 34211), (167, 34100), (168, 34097), (172, 34070), (173, 34061), (179, 34001), (182, 33992), (185, 33980), (207, 33881), (212, 33851), (213, 33848), (216, 33818), (217, 33812), (218, 33809), (242, 33698), (291, 33596), (294, 33581), (319, 33434), (323, 33401), (334, 33353), (341, 33314), (355, 33245), (367, 33188), (369, 33176), (370, 33170), (376, 33128), (378, 33119), (385, 33056), (410, 32966), (416, 32939), (425, 32897), (436, 32861), (441, 32843), (443, 32834), (491, 32624),

Gene: LittleGuy_50 Start: 35344, Stop: 33311, Start Num: 48
Candidate Starts for LittleGuy_50:
(Start: 48 @35344 has 546 MA's), (68, 35281), (Start: 73 @35233 has 4 MA's), (78, 35209), (92, 35143), (Start: 97 @35107 has 1 MA's), (102, 35074), (114, 35026), (116, 35017), (125, 34960), (141, 34900), (172, 34744), (173, 34735), (182, 34666), (207, 34594), (212, 34564), (213, 34561), (216, 34531), (217, 34525), (218, 34522), (236, 34435), (251, 34405), (261, 34393), (269, 34384), (287, 34336), (318, 34153), (321, 34132), (341, 34030), (345, 34012), (373, 33871), (376, 33844), (407, 33700), (408, 33697), (416, 33667), (430, 33604), (441, 33571), (443, 33562), (447, 33541), (461, 33493), (477, 33427),

Gene: LochMonster_51 Start: 35684, Stop: 33651, Start Num: 48
Candidate Starts for LochMonster_51:
(Start: 48 @35684 has 546 MA's), (68, 35621), (Start: 73 @35573 has 4 MA's), (78, 35549), (92, 35483), (Start: 97 @35447 has 1 MA's), (102, 35414), (114, 35366), (116, 35357), (125, 35300), (134, 35273), (141, 35240), (172, 35084), (173, 35075), (182, 35006), (207, 34934), (212, 34904), (213, 34901), (216, 34871), (217, 34865), (218, 34862), (236, 34775), (251, 34745), (261, 34733), (269, 34724), (287, 34676), (321, 34472), (341, 34370), (345, 34352), (373, 34211), (376, 34184), (407, 34040), (408, 34037), (416, 34007), (430, 33944), (441, 33911), (443, 33902), (447, 33881), (461, 33833), (477, 33767),

Gene: LogiBear_54 Start: 34625, Stop: 32598, Start Num: 42
Candidate Starts for LogiBear_54:
(Start: 27 @34658 has 1 MA's), (Start: 42 @34625 has 25 MA's), (59, 34583), (87, 34436), (Start: 88 @34433 has 3 MA's), (116, 34292), (121, 34250), (125, 34232), (140, 34175), (141, 34172), (172, 34016), (182, 33938), (206, 33881), (207, 33872), (212, 33842), (213, 33839), (214, 33827), (216, 33809), (217, 33803), (218, 33800), (261, 33680), (291, 33608), (321, 33428), (333, 33368), (353, 33269), (358, 33245), (365, 33218), (369, 33188), (376, 33140), (378, 33131), (382, 33083), (410, 32984), (436, 32876), (447, 32828), (461, 32780), (470, 32750),

Gene: Lokk_48 Start: 35085, Stop: 33028, Start Num: 48
Candidate Starts for Lokk_48:
(Start: 48 @35085 has 546 MA's), (Start: 71 @34983 has 1 MA's), (74, 34971), (Start: 88 @34899 has 3 MA's), (Start: 97 @34848 has 1 MA's), (102, 34815), (114, 34767), (116, 34758), (141, 34638), (172, 34482), (173, 34473), (182, 34404), (207, 34338), (212, 34308), (213, 34305), (214, 34293), (216, 34275), (217, 34269), (218, 34266), (277, 34086), (278, 34083), (291, 34035), (298, 33993), (321, 33855), (341, 33753), (343, 33741), (356, 33681), (358, 33672), (370, 33609), (374, 33576), (387, 33483), (408, 33414), (418, 33375), (419, 33372), (420, 33366), (430, 33321), (447, 33258), (461,

33210), (463, 33201),

Gene: LoneWolf_52 Start: 35710, Stop: 33671, Start Num: 48
Candidate Starts for LoneWolf_52:
(Start: 48 @35710 has 546 MA's), (Start: 73 @35596 has 4 MA's), (75, 35581), (78, 35572), (102, 35437), (116, 35380), (125, 35320), (126, 35317), (141, 35260), (172, 35104), (182, 35026), (185, 35014), (207, 34960), (212, 34930), (214, 34915), (216, 34897), (217, 34891), (218, 34888), (272, 34750), (280, 34723), (291, 34678), (308, 34552), (321, 34498), (327, 34462), (333, 34438), (356, 34324), (374, 34219), (376, 34210), (408, 34057), (418, 34018), (430, 33964), (447, 33901), (461, 33853),

Gene: Loofah_49 Start: 33265, Stop: 35361, Start Num: 48
Candidate Starts for Loofah_49:
(Start: 48 @33265 has 546 MA's), (Start: 88 @33466 has 3 MA's), (114, 33598), (116, 33607), (133, 33691), (134, 33694), (136, 33706), (141, 33727), (163, 33844), (168, 33859), (172, 33886), (173, 33895), (182, 33964), (207, 34054), (212, 34084), (213, 34087), (216, 34117), (268, 34282), (277, 34291), (287, 34318), (296, 34375), (298, 34384), (302, 34438), (305, 34450), (309, 34477), (321, 34528), (327, 34564), (335, 34591), (341, 34630), (370, 34774), (371, 34780), (373, 34789), (378, 34825), (382, 34873), (384, 34885), (388, 34903), (396, 34915), (410, 34984), (420, 35029), (426, 35050), (436, 35083), (441, 35101), (473, 35230), (486, 35299),

Gene: Looper_56 Start: 34672, Stop: 32609, Start Num: 42
Candidate Starts for Looper_56:
(Start: 42 @34672 has 25 MA's), (87, 34477), (Start: 88 @34474 has 3 MA's), (114, 34342), (116, 34333), (141, 34213), (173, 34048), (177, 34009), (182, 33979), (199, 33937), (207, 33913), (212, 33883), (216, 33850), (217, 33844), (218, 33841), (278, 33667), (283, 33655), (291, 33619), (320, 33442), (321, 33439), (327, 33403), (341, 33337), (349, 33298), (351, 33286), (369, 33199), (370, 33193), (376, 33151), (426, 32920), (447, 32839), (464, 32779), (470, 32761), (488, 32668), (491, 32650),

Gene: Lorelei_48 Start: 32494, Stop: 34584, Start Num: 48
Candidate Starts for Lorelei_48:
(31, 32452), (34, 32458), (Start: 48 @32494 has 546 MA's), (Start: 61 @32539 has 1 MA's), (79, 32650), (Start: 88 @32704 has 3 MA's), (90, 32710), (Start: 97 @32755 has 1 MA's), (114, 32836), (116, 32845), (131, 32923), (134, 32932), (141, 32965), (156, 33025), (158, 33058), (163, 33082), (171, 33115), (172, 33124), (182, 33202), (183, 33205), (200, 33262), (207, 33292), (216, 33355), (218, 33364), (229, 33415), (248, 33484), (283, 33529), (287, 33541), (301, 33640), (305, 33673), (318, 33730), (321, 33751), (327, 33787), (338, 33838), (346, 33874), (358, 33934), (370, 33997), (371, 34003), (378, 34048), (384, 34108), (395, 34135), (398, 34147), (407, 34201), (410, 34207), (420, 34252), (426, 34273), (436, 34306), (441, 34324), (447, 34354), (450, 34366), (457, 34393), (473, 34453), (488, 34525), (495, 34576),

Gene: Lorenzo_50 Start: 35448, Stop: 33415, Start Num: 48
Candidate Starts for Lorenzo_50:
(Start: 48 @35448 has 546 MA's), (68, 35385), (Start: 73 @35337 has 4 MA's), (78, 35313), (92, 35247), (Start: 97 @35211 has 1 MA's), (102, 35178), (114, 35130), (116, 35121), (125, 35064), (134, 35037), (141, 35004), (172, 34848), (173, 34839), (182, 34770), (207, 34698), (212, 34668), (213, 34665), (216, 34635), (217, 34629), (218, 34626), (236, 34539), (251, 34509), (261, 34497), (269, 34488), (287, 34440), (321, 34236), (341, 34134), (345, 34116), (373, 33975), (376, 33948), (407, 33804), (408, 33801), (416, 33771), (430, 33708), (441, 33675), (443, 33666), (447, 33645), (461, 33597), (477, 33531),

Gene: Loser_53 Start: 36715, Stop: 34652, Start Num: 48

Candidate Starts for Loser_53:
(Start: 48 @36715 has 546 MA's), (Start: 73 @36604 has 4 MA's), (74, 36601), (Start: 88 @36529 has 3 MA's), (Start: 97 @36478 has 1 MA's), (102, 36445), (116, 36388), (141, 36268), (152, 36223), (172, 36112), (173, 36103), (182, 36034), (199, 35986), (207, 35962), (212, 35932), (213, 35929), (216, 35899), (217, 35893), (218, 35890), (236, 35803), (280, 35704), (291, 35659), (298, 35617), (321, 35479), (327, 35443), (341, 35377), (343, 35365), (356, 35305), (370, 35233), (378, 35182), (391, 35101), (393, 35098), (396, 35092), (408, 35038), (415, 35011), (418, 34999), (430, 34945), (432, 34939), (447, 34882), (463, 34825),

Gene: Louie6_53 Start: 35935, Stop: 33917, Start Num: 55
Candidate Starts for Louie6_53:
(Start: 55 @35935 has 103 MA's), (Start: 71 @35842 has 1 MA's), (Start: 73 @35833 has 4 MA's), (78, 35809), (Start: 88 @35758 has 3 MA's), (Start: 97 @35707 has 1 MA's), (114, 35626), (116, 35617), (141, 35500), (159, 35404), (172, 35344), (179, 35275), (182, 35266), (183, 35263), (185, 35254), (207, 35194), (212, 35164), (213, 35161), (214, 35149), (216, 35131), (217, 35125), (218, 35122), (239, 35017), (242, 35011), (287, 34954), (321, 34750), (323, 34735), (327, 34714), (333, 34690), (338, 34663), (341, 34648), (369, 34510), (370, 34504), (373, 34489), (376, 34462), (383, 34399), (384, 34393), (391, 34369), (418, 34264), (426, 34228), (447, 34147), (470, 34069), (477, 34033), (490, 33970),

Gene: Lowa_54 Start: 35898, Stop: 33880, Start Num: 55
Candidate Starts for Lowa_54:
(Start: 55 @35898 has 103 MA's), (Start: 73 @35796 has 4 MA's), (78, 35772), (Start: 88 @35721 has 3 MA's), (Start: 97 @35670 has 1 MA's), (114, 35589), (116, 35580), (141, 35460), (156, 35400), (159, 35364), (172, 35304), (182, 35226), (207, 35154), (212, 35124), (216, 35091), (217, 35085), (218, 35082), (234, 35001), (242, 34971), (287, 34917), (312, 34746), (333, 34650), (341, 34608), (345, 34590), (355, 34542), (358, 34530), (369, 34473), (370, 34467), (373, 34452), (376, 34425), (383, 34362), (384, 34356), (391, 34332), (418, 34227), (436, 34158), (441, 34140), (443, 34131), (447, 34110), (470, 34032), (477, 33996), (490, 33933),

Gene: Luchador_55 Start: 37328, Stop: 35289, Start Num: 48
Candidate Starts for Luchador_55:
(Start: 48 @37328 has 546 MA's), (114, 37007), (116, 36998), (126, 36935), (141, 36878), (172, 36722), (181, 36647), (182, 36644), (207, 36578), (212, 36548), (213, 36545), (216, 36515), (217, 36509), (218, 36506), (221, 36485), (280, 36341), (291, 36296), (298, 36254), (321, 36116), (333, 36056), (343, 36002), (356, 35942), (358, 35933), (370, 35870), (374, 35837), (408, 35675), (415, 35648), (418, 35636), (425, 35603), (430, 35582), (447, 35519), (461, 35471),

Gene: Lucivia_52 Start: 35248, Stop: 33332, Start Num: 73
Candidate Starts for Lucivia_52:
(28, 35407), (43, 35374), (Start: 52 @35356 has 24 MA's), (Start: 73 @35248 has 4 MA's), (Start: 88 @35173 has 3 MA's), (114, 35041), (116, 35032), (141, 34912), (172, 34756), (177, 34708), (181, 34681), (182, 34678), (185, 34666), (201, 34633), (207, 34612), (214, 34567), (216, 34549), (217, 34543), (218, 34540), (278, 34390), (291, 34342), (294, 34327), (321, 34162), (341, 34060), (345, 34042), (360, 33970), (370, 33916), (373, 33901), (374, 33883), (391, 33784), (408, 33721), (418, 33682), (441, 33592), (447, 33562), (461, 33514),

Gene: LuckySocke_141 Start: 76832, Stop: 78463, Start Num: 103
Candidate Starts for LuckySocke_141:
(Start: 103 @76832 has 6 MA's), (Start: 104 @76838 has 2 MA's), (107, 76850), (122, 76943), (129, 76967), (137, 77006), (154, 77072), (159, 77111), (165, 77135), (175, 77192), (176, 77201), (180, 77234), (205, 77267), (216, 77339), (222, 77369), (224, 77375), (230, 77408), (231, 77414), (278, 77516), (287, 77540), (292, 77570), (315, 77696), (338, 77807), (340, 77816), (357, 77888), (379,

78017), (393, 78086), (395, 78089), (412, 78158), (433, 78242), (440, 78263), (447, 78296), (454, 78329), (468, 78368), (479, 78431),

Gene: Lucyedi_52 Start: 35536, Stop: 33494, Start Num: 48
Candidate Starts for Lucyedi_52:
(Start: 48 @35536 has 546 MA's), (87, 35353), (114, 35218), (116, 35209), (117, 35194), (125, 35149), (126, 35146), (141, 35089), (172, 34933), (182, 34855), (207, 34789), (212, 34759), (213, 34756), (216, 34726), (217, 34720), (218, 34717), (257, 34594), (278, 34552), (291, 34504), (294, 34489), (298, 34462), (321, 34324), (327, 34288), (333, 34264), (343, 34210), (355, 34153), (356, 34150), (358, 34141), (367, 34096), (370, 34078), (374, 34045), (376, 34036), (408, 33883), (416, 33853), (430, 33787), (447, 33724),

Gene: LugYA_57 Start: 35907, Stop: 33889, Start Num: 55
Candidate Starts for LugYA_57:
(Start: 55 @35907 has 103 MA's), (Start: 71 @35814 has 1 MA's), (Start: 73 @35805 has 4 MA's), (78, 35781), (Start: 88 @35730 has 3 MA's), (Start: 97 @35679 has 1 MA's), (114, 35598), (116, 35589), (141, 35469), (156, 35409), (159, 35373), (172, 35313), (182, 35235), (207, 35163), (212, 35133), (216, 35100), (217, 35094), (218, 35091), (234, 35010), (242, 34980), (287, 34926), (312, 34755), (333, 34659), (341, 34617), (345, 34599), (355, 34551), (358, 34539), (369, 34482), (370, 34476), (373, 34461), (376, 34434), (383, 34371), (384, 34365), (391, 34341), (418, 34236), (436, 34167), (441, 34149), (447, 34119), (470, 34041), (477, 34005), (490, 33942),

Gene: LukeCage_44 Start: 19275, Stop: 21215, Start Num: 64
Candidate Starts for LukeCage_44:
(Start: 64 @19275 has 81 MA's), (90, 19407), (91, 19410), (102, 19479), (110, 19506), (112, 19518), (117, 19551), (132, 19623), (150, 19680), (153, 19713), (188, 19905), (221, 20043), (232, 20094), (239, 20133), (245, 20145), (305, 20322), (314, 20358), (345, 20505), (379, 20679), (382, 20715), (400, 20784), (401, 20787), (439, 20958), (476, 21096),

Gene: Lululemon_42 Start: 19022, Stop: 20965, Start Num: 64
Candidate Starts for Lululemon_42:
(Start: 64 @19022 has 81 MA's), (Start: 67 @19028 has 1 MA's), (83, 19130), (86, 19151), (90, 19160), (93, 19172), (108, 19250), (110, 19259), (111, 19268), (112, 19271), (132, 19376), (156, 19475), (204, 19685), (239, 19886), (245, 19898), (314, 20111), (336, 20216), (345, 20258), (348, 20276), (379, 20432), (401, 20540), (439, 20711), (448, 20750), (476, 20849),

Gene: Lunsford_51 Start: 35442, Stop: 33409, Start Num: 48
Candidate Starts for Lunsford_51:
(Start: 48 @35442 has 546 MA's), (68, 35379), (Start: 73 @35331 has 4 MA's), (78, 35307), (92, 35241), (Start: 97 @35205 has 1 MA's), (102, 35172), (114, 35124), (116, 35115), (125, 35058), (134, 35031), (141, 34998), (172, 34842), (173, 34833), (182, 34764), (207, 34692), (212, 34662), (213, 34659), (216, 34629), (217, 34623), (218, 34620), (236, 34533), (251, 34503), (261, 34491), (269, 34482), (287, 34434), (321, 34230), (341, 34128), (345, 34110), (373, 33969), (376, 33942), (407, 33798), (408, 33795), (416, 33765), (430, 33702), (441, 33669), (443, 33660), (447, 33639), (461, 33591), (477, 33525),

Gene: MA5_51 Start: 35098, Stop: 33077, Start Num: 48
Candidate Starts for MA5_51:
(Start: 48 @35098 has 546 MA's), (74, 34984), (92, 34897), (Start: 97 @34861 has 1 MA's), (102, 34828), (114, 34780), (116, 34771), (141, 34651), (168, 34522), (172, 34495), (173, 34486), (182, 34417), (207, 34351), (212, 34321), (213, 34318), (214, 34306), (216, 34288), (217, 34282), (218, 34279), (287, 34114), (321, 33910), (333, 33850), (341, 33808), (345, 33790), (369, 33670), (370, 33664), (373, 33649), (385, 33550), (407, 33466), (419, 33421), (443, 33328), (447, 33307), (477,

33193),

Gene: MK4_51 Start: 35197, Stop: 33176, Start Num: 48
Candidate Starts for MK4_51:
(Start: 48 @35197 has 546 MA's), (Start: 73 @35086 has 4 MA's), (74, 35083), (92, 34996), (Start: 97 @34960 has 1 MA's), (102, 34927), (114, 34879), (116, 34870), (141, 34750), (148, 34735), (168, 34621), (172, 34594), (173, 34585), (182, 34516), (188, 34495), (190, 34492), (207, 34450), (212, 34420), (214, 34405), (216, 34387), (217, 34381), (218, 34378), (287, 34213), (321, 34009), (333, 33949), (341, 33907), (345, 33889), (369, 33769), (370, 33763), (373, 33748), (385, 33649), (407, 33565), (416, 33532), (419, 33520), (431, 33466), (443, 33427), (447, 33406), (477, 33292),

Gene: MaCh_52 Start: 35286, Stop: 33262, Start Num: 52
Candidate Starts for MaCh_52:
(28, 35337), (43, 35304), (Start: 52 @35286 has 24 MA's), (Start: 73 @35178 has 4 MA's), (Start: 88 @35103 has 3 MA's), (114, 34971), (116, 34962), (141, 34842), (172, 34686), (177, 34638), (181, 34611), (182, 34608), (185, 34596), (201, 34563), (207, 34542), (214, 34497), (216, 34479), (217, 34473), (218, 34470), (278, 34320), (291, 34272), (294, 34257), (321, 34092), (341, 33990), (345, 33972), (360, 33900), (370, 33846), (373, 33831), (374, 33813), (408, 33651), (418, 33612), (427, 33564), (441, 33522), (447, 33492), (461, 33444),

Gene: Mabel_51 Start: 34705, Stop: 32867, Start Num: 88
Candidate Starts for Mabel_51:
(28, 34939), (43, 34906), (Start: 52 @34888 has 24 MA's), (Start: 73 @34780 has 4 MA's), (Start: 88 @34705 has 3 MA's), (114, 34573), (116, 34564), (141, 34444), (172, 34288), (177, 34240), (181, 34213), (182, 34210), (185, 34198), (201, 34165), (207, 34144), (214, 34099), (216, 34081), (217, 34075), (218, 34072), (257, 33952), (291, 33877), (294, 33862), (298, 33835), (321, 33697), (333, 33637), (341, 33595), (345, 33577), (360, 33505), (370, 33451), (373, 33436), (374, 33418), (391, 33319), (408, 33256), (418, 33217), (441, 33127), (447, 33097), (461, 33049),

Gene: MadMarie_54 Start: 35908, Stop: 33890, Start Num: 55
Candidate Starts for MadMarie_54:
(Start: 55 @35908 has 103 MA's), (Start: 71 @35815 has 1 MA's), (Start: 73 @35806 has 4 MA's), (76, 35788), (78, 35782), (Start: 88 @35731 has 3 MA's), (Start: 97 @35680 has 1 MA's), (114, 35599), (116, 35590), (141, 35470), (156, 35410), (159, 35374), (172, 35314), (182, 35236), (207, 35164), (212, 35134), (216, 35101), (217, 35095), (218, 35092), (234, 35011), (242, 34981), (287, 34927), (312, 34756), (333, 34660), (341, 34618), (345, 34600), (355, 34552), (358, 34540), (369, 34483), (370, 34477), (373, 34462), (376, 34435), (383, 34372), (384, 34366), (391, 34342), (418, 34237), (436, 34168), (441, 34150), (443, 34141), (447, 34120), (470, 34042), (477, 34006), (490, 33943),

Gene: Mainiac_54 Start: 35900, Stop: 33882, Start Num: 55
Candidate Starts for Mainiac_54:
(Start: 55 @35900 has 103 MA's), (Start: 71 @35807 has 1 MA's), (Start: 73 @35798 has 4 MA's), (78, 35774), (Start: 88 @35723 has 3 MA's), (Start: 97 @35672 has 1 MA's), (114, 35591), (116, 35582), (141, 35462), (156, 35402), (159, 35366), (172, 35306), (182, 35228), (207, 35156), (212, 35126), (216, 35093), (217, 35087), (218, 35084), (234, 35003), (242, 34973), (287, 34919), (312, 34748), (333, 34652), (341, 34610), (345, 34592), (355, 34544), (358, 34532), (369, 34475), (370, 34469), (373, 34454), (376, 34427), (383, 34364), (384, 34358), (391, 34334), (418, 34229), (436, 34160), (441, 34142), (443, 34133), (447, 34112), (470, 34034), (477, 33998), (490, 33935),

Gene: MajorMajor_50 Start: 34526, Stop: 32664, Start Num: 88
Candidate Starts for MajorMajor_50:
(Start: 48 @34712 has 546 MA's), (Start: 71 @34610 has 1 MA's), (Start: 73 @34601 has 4 MA's), (Start: 88 @34526 has 3 MA's), (114, 34394), (116, 34385), (126, 34322), (141, 34265), (171, 34118),

(172, 34109), (177, 34061), (178, 34046), (182, 34031), (207, 33965), (212, 33935), (213, 33932), (214, 33920), (216, 33902), (217, 33896), (218, 33893), (271, 33740), (278, 33713), (291, 33665), (298, 33623), (321, 33485), (327, 33449), (338, 33398), (343, 33371), (356, 33311), (358, 33302), (370, 33239), (374, 33206), (376, 33197), (386, 33116), (408, 33044), (415, 33017), (430, 32957), (447, 32894),

Gene: Malec_51 Start: 36422, Stop: 34389, Start Num: 48
Candidate Starts for Malec_51:
(Start: 48 @36422 has 546 MA's), (Start: 73 @36308 has 4 MA's), (Start: 88 @36233 has 3 MA's), (Start: 97 @36182 has 1 MA's), (102, 36149), (114, 36101), (116, 36092), (117, 36077), (125, 36032), (141, 35972), (172, 35816), (173, 35807), (182, 35738), (207, 35672), (212, 35642), (213, 35639), (214, 35627), (216, 35609), (217, 35603), (218, 35600), (280, 35441), (291, 35396), (298, 35354), (321, 35216), (327, 35180), (341, 35114), (343, 35102), (356, 35042), (370, 34970), (408, 34775), (415, 34748), (416, 34745), (418, 34736), (430, 34682), (432, 34676), (447, 34619), (463, 34562),

Gene: Malinsilva_56 Start: 35898, Stop: 33880, Start Num: 55
Candidate Starts for Malinsilva_56:
(Start: 55 @35898 has 103 MA's), (Start: 73 @35796 has 4 MA's), (78, 35772), (Start: 88 @35721 has 3 MA's), (Start: 97 @35670 has 1 MA's), (114, 35589), (116, 35580), (141, 35460), (156, 35400), (159, 35364), (172, 35304), (182, 35226), (207, 35154), (212, 35124), (216, 35091), (217, 35085), (218, 35082), (234, 35001), (242, 34971), (287, 34917), (312, 34746), (333, 34650), (341, 34608), (345, 34590), (355, 34542), (358, 34530), (369, 34473), (370, 34467), (373, 34452), (376, 34425), (383, 34362), (384, 34356), (391, 34332), (418, 34227), (436, 34158), (441, 34140), (443, 34131), (447, 34110), (470, 34032), (477, 33996), (490, 33933),

Gene: Maminiaina_50 Start: 35477, Stop: 33438, Start Num: 48
Candidate Starts for Maminiaina_50:
(Start: 48 @35477 has 546 MA's), (Start: 73 @35363 has 4 MA's), (75, 35348), (78, 35339), (102, 35204), (116, 35147), (125, 35087), (141, 35027), (171, 34880), (172, 34871), (182, 34793), (185, 34781), (207, 34727), (212, 34697), (214, 34682), (216, 34664), (217, 34658), (218, 34655), (272, 34517), (280, 34490), (291, 34445), (321, 34265), (341, 34163), (356, 34091), (374, 33986), (376, 33977), (408, 33824), (418, 33785), (426, 33749), (447, 33668),

Gene: Maneekul_47 Start: 32034, Stop: 34124, Start Num: 48
Candidate Starts for Maneekul_47:
(31, 31992), (34, 31998), (Start: 48 @32034 has 546 MA's), (Start: 73 @32151 has 4 MA's), (79, 32190), (82, 32211), (Start: 88 @32244 has 3 MA's), (Start: 97 @32295 has 1 MA's), (114, 32376), (116, 32385), (131, 32463), (141, 32505), (156, 32565), (158, 32598), (163, 32622), (172, 32664), (182, 32742), (183, 32745), (200, 32802), (207, 32832), (216, 32895), (218, 32904), (229, 32955), (248, 33024), (283, 33069), (287, 33081), (305, 33213), (321, 33291), (323, 33306), (327, 33327), (338, 33378), (370, 33537), (371, 33543), (373, 33552), (378, 33588), (384, 33648), (395, 33675), (398, 33687), (399, 33690), (407, 33741), (410, 33747), (426, 33813), (436, 33846), (441, 33864), (447, 33894), (450, 33906), (457, 33933), (473, 33993), (488, 34065),

Gene: Manu_54 Start: 35796, Stop: 33781, Start Num: 55
Candidate Starts for Manu_54:
(Start: 55 @35796 has 103 MA's), (Start: 71 @35703 has 1 MA's), (Start: 73 @35694 has 4 MA's), (Start: 88 @35619 has 3 MA's), (Start: 97 @35568 has 1 MA's), (114, 35487), (116, 35478), (125, 35421), (141, 35361), (156, 35301), (159, 35265), (172, 35205), (173, 35196), (182, 35127), (185, 35115), (207, 35055), (212, 35025), (213, 35022), (214, 35010), (216, 34992), (217, 34986), (218, 34983), (225, 34950), (261, 34848), (287, 34818), (312, 34647), (320, 34614), (323, 34596), (327, 34575), (333, 34551), (341, 34509), (345, 34491), (355, 34443), (370, 34368), (376, 34326), (383, 34263), (384, 34257), (391, 34233), (418, 34128), (436, 34059), (441, 34041), (443, 34032), (447,

34011), (470, 33933), (477, 33897), (490, 33834),

Gene: MarQuardt_54 Start: 35908, Stop: 33890, Start Num: 55
Candidate Starts for MarQuardt_54:
(Start: 55 @35908 has 103 MA's), (Start: 71 @35815 has 1 MA's), (Start: 73 @35806 has 4 MA's), (78, 35782), (Start: 88 @35731 has 3 MA's), (Start: 97 @35680 has 1 MA's), (114, 35599), (116, 35590), (141, 35470), (156, 35410), (159, 35374), (172, 35314), (182, 35236), (207, 35164), (212, 35134), (216, 35101), (217, 35095), (218, 35092), (234, 35011), (242, 34981), (287, 34927), (312, 34756), (333, 34660), (341, 34618), (345, 34600), (355, 34552), (358, 34540), (369, 34483), (370, 34477), (373, 34462), (376, 34435), (383, 34372), (384, 34366), (391, 34342), (418, 34237), (436, 34168), (441, 34150), (443, 34141), (447, 34120), (470, 34042), (477, 34006), (490, 33943),

Gene: Marav_51 Start: 33576, Stop: 35678, Start Num: 48
Candidate Starts for Marav_51:
(Start: 48 @33576 has 546 MA's), (Start: 88 @33777 has 3 MA's), (Start: 97 @33828 has 1 MA's), (114, 33909), (116, 33918), (127, 33987), (134, 34005), (136, 34017), (141, 34038), (163, 34155), (172, 34197), (182, 34275), (207, 34383), (216, 34446), (278, 34611), (283, 34623), (284, 34626), (287, 34635), (302, 34755), (321, 34845), (327, 34881), (333, 34905), (335, 34908), (341, 34947), (370, 35091), (373, 35106), (378, 35142), (384, 35202), (395, 35229), (398, 35241), (407, 35295), (410, 35301), (426, 35367), (436, 35400), (441, 35418), (450, 35460), (466, 35511), (473, 35547), (486, 35616), (490, 35625), (495, 35670),

Gene: Marchesa_51 Start: 35632, Stop: 33608, Start Num: 48
Candidate Starts for Marchesa_51:
(Start: 48 @35632 has 546 MA's), (74, 35518), (92, 35431), (Start: 97 @35395 has 1 MA's), (102, 35362), (114, 35314), (116, 35305), (141, 35185), (168, 35056), (172, 35029), (173, 35020), (182, 34951), (188, 34930), (190, 34927), (207, 34885), (212, 34855), (214, 34840), (216, 34822), (217, 34816), (218, 34813), (239, 34708), (242, 34702), (287, 34645), (294, 34606), (321, 34441), (327, 34405), (333, 34381), (341, 34339), (345, 34321), (369, 34201), (370, 34195), (373, 34180), (376, 34153), (403, 34015), (419, 33952), (443, 33859), (447, 33838), (471, 33757), (477, 33724),

Gene: Margo_50 Start: 35736, Stop: 33718, Start Num: 55
Candidate Starts for Margo_50:
(Start: 55 @35736 has 103 MA's), (Start: 71 @35643 has 1 MA's), (Start: 73 @35634 has 4 MA's), (77, 35613), (92, 35544), (Start: 97 @35508 has 1 MA's), (102, 35475), (114, 35427), (116, 35418), (125, 35361), (141, 35301), (159, 35205), (172, 35145), (179, 35076), (182, 35067), (185, 35055), (207, 34995), (212, 34965), (213, 34962), (214, 34950), (216, 34932), (217, 34926), (218, 34923), (239, 34818), (242, 34812), (287, 34755), (321, 34551), (333, 34491), (341, 34449), (345, 34431), (358, 34368), (370, 34305), (373, 34290), (376, 34263), (385, 34191), (408, 34104), (419, 34062), (443, 33969), (447, 33948), (477, 33834),

Gene: Marie_54 Start: 35906, Stop: 33888, Start Num: 55
Candidate Starts for Marie_54:
(Start: 55 @35906 has 103 MA's), (Start: 71 @35813 has 1 MA's), (Start: 73 @35804 has 4 MA's), (78, 35780), (Start: 88 @35729 has 3 MA's), (Start: 97 @35678 has 1 MA's), (114, 35597), (116, 35588), (141, 35468), (156, 35408), (159, 35372), (172, 35312), (182, 35234), (207, 35162), (212, 35132), (216, 35099), (217, 35093), (218, 35090), (234, 35009), (242, 34979), (287, 34925), (312, 34754), (333, 34658), (341, 34616), (345, 34598), (355, 34550), (358, 34538), (369, 34481), (370, 34475), (373, 34460), (376, 34433), (383, 34370), (384, 34364), (391, 34340), (418, 34235), (436, 34166), (441, 34148), (447, 34118), (470, 34040), (477, 34004), (490, 33941),

Gene: Marius_55 Start: 35793, Stop: 33778, Start Num: 55
Candidate Starts for Marius_55:

(Start: 55 @35793 has 103 MA's), (Start: 71 @35700 has 1 MA's), (Start: 73 @35691 has 4 MA's), (Start: 88 @35616 has 3 MA's), (Start: 97 @35565 has 1 MA's), (114, 35484), (116, 35475), (125, 35418), (141, 35358), (156, 35298), (159, 35262), (172, 35202), (173, 35193), (182, 35124), (185, 35112), (207, 35052), (212, 35022), (213, 35019), (214, 35007), (216, 34989), (217, 34983), (218, 34980), (225, 34947), (261, 34845), (287, 34815), (312, 34644), (323, 34593), (327, 34572), (333, 34548), (341, 34506), (345, 34488), (355, 34440), (370, 34365), (376, 34323), (383, 34260), (384, 34254), (391, 34230), (418, 34125), (436, 34056), (441, 34038), (443, 34029), (447, 34008), (470, 33930), (477, 33894), (490, 33831),

Gene: Marsus_40 Start: 18108, Stop: 20051, Start Num: 64
Candidate Starts for Marsus_40:
(51, 18063), (Start: 64 @18108 has 81 MA's), (Start: 67 @18114 has 1 MA's), (83, 18216), (86, 18237), (90, 18246), (108, 18336), (110, 18345), (111, 18354), (112, 18357), (132, 18462), (143, 18504), (179, 18714), (204, 18771), (211, 18816), (221, 18882), (239, 18972), (245, 18984), (314, 19197), (344, 19341), (345, 19344), (348, 19362), (379, 19518), (401, 19626), (439, 19797), (476, 19935),

Gene: MarysWell_42 Start: 34488, Stop: 32437, Start Num: 48
Candidate Starts for MarysWell_42:
(Start: 48 @34488 has 546 MA's), (74, 34374), (Start: 88 @34302 has 3 MA's), (100, 34233), (114, 34170), (116, 34161), (149, 34023), (155, 33984), (160, 33939), (171, 33894), (172, 33885), (178, 33822), (179, 33816), (182, 33807), (207, 33735), (212, 33705), (213, 33702), (216, 33672), (217, 33666), (218, 33663), (242, 33552), (291, 33450), (294, 33435), (319, 33288), (323, 33255), (334, 33207), (341, 33168), (355, 33099), (367, 33042), (369, 33030), (370, 33024), (376, 32982), (378, 32973), (385, 32910), (416, 32793), (425, 32751), (436, 32715), (441, 32697), (443, 32688), (491, 32478),

Gene: Maupel_24 Start: 8669, Stop: 10612, Start Num: 65
Candidate Starts for Maupel_24:
(62, 8660), (Start: 65 @8669 has 29 MA's), (Start: 73 @8726 has 4 MA's), (90, 8807), (110, 8906), (111, 8915), (112, 8918), (132, 9023), (166, 9173), (172, 9203), (204, 9329), (242, 9536), (311, 9749), (324, 9803), (339, 9875), (344, 9899), (364, 9971), (400, 10181), (401, 10184), (420, 10280), (423, 10289), (480, 10517),

Gene: Maverick_50 Start: 35448, Stop: 33415, Start Num: 48
Candidate Starts for Maverick_50:
(Start: 48 @35448 has 546 MA's), (68, 35385), (Start: 73 @35337 has 4 MA's), (78, 35313), (92, 35247), (Start: 97 @35211 has 1 MA's), (102, 35178), (114, 35130), (116, 35121), (125, 35064), (134, 35037), (141, 35004), (172, 34848), (173, 34839), (182, 34770), (207, 34698), (212, 34668), (213, 34665), (216, 34635), (217, 34629), (218, 34626), (236, 34539), (251, 34509), (261, 34497), (269, 34488), (287, 34440), (318, 34257), (321, 34236), (341, 34134), (345, 34116), (373, 33975), (376, 33948), (407, 33804), (408, 33801), (416, 33771), (430, 33708), (441, 33675), (443, 33666), (447, 33645), (461, 33597), (477, 33531),

Gene: Maxo_51 Start: 35450, Stop: 33417, Start Num: 48
Candidate Starts for Maxo_51:
(Start: 48 @35450 has 546 MA's), (68, 35387), (Start: 73 @35339 has 4 MA's), (78, 35315), (92, 35249), (Start: 97 @35213 has 1 MA's), (102, 35180), (114, 35132), (116, 35123), (125, 35066), (134, 35039), (141, 35006), (172, 34850), (173, 34841), (182, 34772), (207, 34700), (212, 34670), (213, 34667), (216, 34637), (217, 34631), (218, 34628), (236, 34541), (251, 34511), (261, 34499), (269, 34490), (287, 34442), (321, 34238), (341, 34136), (345, 34118), (373, 33977), (376, 33950), (407, 33806), (408, 33803), (416, 33773), (430, 33710), (441, 33677), (443, 33668), (447, 33647), (461, 33599), (477, 33533),

Gene: Mayonnaise_49 Start: 35448, Stop: 33415, Start Num: 48
Candidate Starts for Mayonnaise_49:
(Start: 48 @35448 has 546 MA's), (68, 35385), (Start: 73 @35337 has 4 MA's), (78, 35313), (92, 35247), (Start: 97 @35211 has 1 MA's), (102, 35178), (114, 35130), (116, 35121), (125, 35064), (134, 35037), (141, 35004), (172, 34848), (173, 34839), (182, 34770), (207, 34698), (212, 34668), (213, 34665), (216, 34635), (217, 34629), (218, 34626), (236, 34539), (251, 34509), (261, 34497), (269, 34488), (287, 34440), (321, 34236), (341, 34134), (345, 34116), (373, 33975), (376, 33948), (407, 33804), (408, 33801), (416, 33771), (430, 33708), (441, 33675), (443, 33666), (447, 33645), (461, 33597), (477, 33531),

Gene: Mazhar510_50 Start: 35449, Stop: 33416, Start Num: 48
Candidate Starts for Mazhar510_50:
(Start: 48 @35449 has 546 MA's), (68, 35386), (Start: 73 @35338 has 4 MA's), (78, 35314), (92, 35248), (Start: 97 @35212 has 1 MA's), (102, 35179), (114, 35131), (116, 35122), (125, 35065), (134, 35038), (141, 35005), (172, 34849), (173, 34840), (182, 34771), (207, 34699), (212, 34669), (213, 34666), (216, 34636), (217, 34630), (218, 34627), (236, 34540), (251, 34510), (261, 34498), (269, 34489), (287, 34441), (321, 34237), (341, 34135), (345, 34117), (373, 33976), (376, 33949), (407, 33805), (408, 33802), (416, 33772), (430, 33709), (441, 33676), (443, 33667), (447, 33646), (461, 33598), (477, 33532),

Gene: McFly_53 Start: 34814, Stop: 32790, Start Num: 48
Candidate Starts for McFly_53:
(33, 34847), (Start: 48 @34814 has 546 MA's), (Start: 88 @34628 has 3 MA's), (102, 34544), (114, 34496), (116, 34487), (125, 34427), (141, 34367), (155, 34310), (159, 34271), (168, 34238), (172, 34211), (173, 34202), (178, 34148), (182, 34133), (207, 34061), (212, 34031), (216, 33998), (217, 33992), (218, 33989), (291, 33797), (318, 33638), (321, 33617), (343, 33503), (356, 33443), (358, 33434), (367, 33389), (370, 33371), (374, 33338), (393, 33236), (396, 33230), (408, 33176), (415, 33149), (416, 33146), (418, 33137), (430, 33083), (447, 33020), (454, 32990), (463, 32963),

Gene: Medusa_50 Start: 35447, Stop: 33414, Start Num: 48
Candidate Starts for Medusa_50:
(Start: 48 @35447 has 546 MA's), (68, 35384), (Start: 73 @35336 has 4 MA's), (78, 35312), (92, 35246), (Start: 97 @35210 has 1 MA's), (102, 35177), (114, 35129), (116, 35120), (125, 35063), (134, 35036), (141, 35003), (172, 34847), (173, 34838), (182, 34769), (207, 34697), (212, 34667), (213, 34664), (216, 34634), (217, 34628), (218, 34625), (236, 34538), (251, 34508), (261, 34496), (269, 34487), (287, 34439), (321, 34235), (341, 34133), (345, 34115), (373, 33974), (376, 33947), (407, 33803), (408, 33800), (416, 33770), (430, 33707), (441, 33674), (443, 33665), (447, 33644), (461, 33596), (477, 33530),

Gene: MeeZee_50 Start: 35445, Stop: 33412, Start Num: 48
Candidate Starts for MeeZee_50:
(Start: 48 @35445 has 546 MA's), (68, 35382), (Start: 73 @35334 has 4 MA's), (78, 35310), (92, 35244), (Start: 97 @35208 has 1 MA's), (102, 35175), (114, 35127), (116, 35118), (125, 35061), (134, 35034), (141, 35001), (172, 34845), (173, 34836), (182, 34767), (207, 34695), (212, 34665), (213, 34662), (216, 34632), (217, 34626), (218, 34623), (236, 34536), (251, 34506), (261, 34494), (269, 34485), (287, 34437), (321, 34233), (341, 34131), (345, 34113), (373, 33972), (376, 33945), (407, 33801), (408, 33798), (416, 33768), (430, 33705), (441, 33672), (443, 33663), (447, 33642), (461, 33594), (477, 33528),

Gene: MegTheThird_50 Start: 35208, Stop: 33283, Start Num: 73
Candidate Starts for MegTheThird_50:
(Start: 46 @35325 has 38 MA's), (Start: 48 @35322 has 546 MA's), (Start: 71 @35217 has 1 MA's), (Start: 73 @35208 has 4 MA's), (Start: 97 @35082 has 1 MA's), (116, 34992), (125, 34932), (141,

34872), (149, 34854), (172, 34716), (182, 34638), (185, 34626), (207, 34572), (212, 34542), (213, 34539), (216, 34509), (217, 34503), (218, 34500), (227, 34461), (236, 34413), (280, 34335), (291, 34290), (294, 34275), (321, 34110), (327, 34074), (356, 33936), (358, 33927), (367, 33882), (370, 33864), (376, 33822), (408, 33669), (430, 33576), (436, 33561), (447, 33513),

Gene: MeganTheeKilla_22 Start: 8030, Stop: 9973, Start Num: 65
Candidate Starts for MeganTheeKilla_22:
(62, 8021), (Start: 65 @8030 has 29 MA's), (Start: 73 @8087 has 4 MA's), (90, 8168), (110, 8267), (111, 8276), (112, 8279), (132, 8384), (166, 8534), (172, 8564), (204, 8690), (242, 8897), (311, 9110), (324, 9164), (339, 9236), (344, 9260), (364, 9332), (400, 9542), (401, 9545), (420, 9641), (423, 9650), (480, 9878),

Gene: Melvin_52 Start: 35443, Stop: 33410, Start Num: 48
Candidate Starts for Melvin_52:
(Start: 48 @35443 has 546 MA's), (68, 35380), (Start: 73 @35332 has 4 MA's), (78, 35308), (92, 35242), (Start: 97 @35206 has 1 MA's), (102, 35173), (114, 35125), (116, 35116), (125, 35059), (134, 35032), (141, 34999), (172, 34843), (173, 34834), (182, 34765), (207, 34693), (212, 34663), (213, 34660), (216, 34630), (217, 34624), (218, 34621), (236, 34534), (251, 34504), (261, 34492), (269, 34483), (287, 34435), (321, 34231), (341, 34129), (345, 34111), (373, 33970), (376, 33943), (407, 33799), (408, 33796), (416, 33766), (430, 33703), (441, 33670), (443, 33661), (447, 33640), (461, 33592), (477, 33526),

Gene: Methuselah_50 Start: 35930, Stop: 33912, Start Num: 55
Candidate Starts for Methuselah_50:
(Start: 55 @35930 has 103 MA's), (Start: 71 @35837 has 1 MA's), (Start: 73 @35828 has 4 MA's), (78, 35804), (Start: 88 @35753 has 3 MA's), (Start: 97 @35702 has 1 MA's), (114, 35621), (116, 35612), (141, 35495), (159, 35399), (172, 35339), (179, 35270), (182, 35261), (183, 35258), (185, 35249), (207, 35189), (212, 35159), (213, 35156), (214, 35144), (216, 35126), (217, 35120), (218, 35117), (239, 35012), (242, 35006), (287, 34949), (321, 34745), (323, 34730), (327, 34709), (333, 34685), (338, 34658), (341, 34643), (369, 34505), (370, 34499), (373, 34484), (376, 34457), (383, 34394), (384, 34388), (391, 34364), (418, 34259), (426, 34223), (447, 34142), (470, 34064), (477, 34028), (490, 33965),

Gene: Micasa_45 Start: 34841, Stop: 32712, Start Num: 48
Candidate Starts for Micasa_45:
(Start: 48 @34841 has 546 MA's), (Start: 88 @34655 has 3 MA's), (Start: 97 @34604 has 1 MA's), (114, 34523), (116, 34514), (141, 34394), (148, 34379), (167, 34268), (168, 34265), (172, 34238), (173, 34229), (179, 34169), (182, 34160), (187, 34136), (207, 34049), (212, 34019), (213, 34016), (216, 33986), (217, 33980), (218, 33977), (242, 33866), (291, 33725), (319, 33563), (323, 33530), (334, 33482), (341, 33443), (355, 33374), (367, 33317), (369, 33305), (370, 33299), (376, 33257), (378, 33248), (385, 33185), (410, 33095), (416, 33068), (425, 33026), (436, 32990), (441, 32972), (491, 32753),

Gene: Microwolf_54 Start: 35922, Stop: 33904, Start Num: 55
Candidate Starts for Microwolf_54:
(Start: 55 @35922 has 103 MA's), (Start: 73 @35820 has 4 MA's), (78, 35796), (Start: 88 @35745 has 3 MA's), (Start: 97 @35694 has 1 MA's), (114, 35613), (116, 35604), (141, 35484), (156, 35424), (159, 35388), (172, 35328), (182, 35250), (207, 35178), (212, 35148), (216, 35115), (217, 35109), (218, 35106), (234, 35025), (242, 34995), (287, 34941), (312, 34770), (333, 34674), (341, 34632), (345, 34614), (355, 34566), (358, 34554), (369, 34497), (370, 34491), (373, 34476), (376, 34449), (383, 34386), (384, 34380), (391, 34356), (418, 34251), (436, 34182), (441, 34164), (443, 34155), (447, 34134), (470, 34056), (477, 34020), (490, 33957),

Gene: MiculUcigas_51 Start: 35654, Stop: 33615, Start Num: 48
Candidate Starts for MiculUcigas_51:
(Start: 48 @35654 has 546 MA's), (Start: 71 @35549 has 1 MA's), (Start: 73 @35540 has 4 MA's), (Start: 88 @35465 has 3 MA's), (Start: 97 @35414 has 1 MA's), (102, 35381), (116, 35324), (125, 35264), (134, 35237), (141, 35204), (172, 35048), (182, 34970), (185, 34958), (204, 34916), (207, 34898), (212, 34868), (213, 34865), (214, 34853), (216, 34835), (217, 34829), (218, 34826), (280, 34667), (291, 34622), (298, 34580), (319, 34460), (321, 34442), (327, 34406), (341, 34340), (343, 34328), (356, 34268), (367, 34214), (370, 34196), (378, 34145), (391, 34064), (396, 34055), (408, 34001), (416, 33971), (418, 33962), (430, 33908), (447, 33845), (461, 33797), (463, 33788),

Gene: Midas2_43 Start: 34563, Stop: 32434, Start Num: 48
Candidate Starts for Midas2_43:
(Start: 48 @34563 has 546 MA's), (Start: 88 @34377 has 3 MA's), (Start: 97 @34326 has 1 MA's), (114, 34245), (116, 34236), (141, 34116), (148, 34101), (167, 33990), (168, 33987), (172, 33960), (173, 33951), (182, 33882), (187, 33858), (207, 33771), (212, 33741), (213, 33738), (216, 33708), (217, 33702), (218, 33699), (242, 33588), (291, 33447), (294, 33432), (319, 33285), (323, 33252), (334, 33204), (341, 33165), (355, 33096), (367, 33039), (369, 33027), (370, 33021), (376, 32979), (378, 32970), (385, 32907), (410, 32817), (416, 32790), (425, 32748), (436, 32712), (441, 32694), (443, 32685), (447, 32664), (491, 32475),

Gene: Miko_48 Start: 35863, Stop: 33812, Start Num: 48
Candidate Starts for Miko_48:
(Start: 48 @35863 has 546 MA's), (Start: 61 @35824 has 1 MA's), (Start: 71 @35761 has 1 MA's), (Start: 73 @35752 has 4 MA's), (Start: 88 @35677 has 3 MA's), (Start: 97 @35626 has 1 MA's), (102, 35593), (114, 35545), (116, 35536), (125, 35476), (128, 35464), (141, 35416), (172, 35260), (173, 35251), (182, 35182), (197, 35146), (207, 35116), (212, 35086), (213, 35083), (214, 35071), (216, 35053), (217, 35047), (218, 35044), (264, 34900), (280, 34864), (291, 34819), (298, 34777), (321, 34639), (341, 34537), (343, 34525), (356, 34465), (358, 34456), (370, 34393), (374, 34360), (408, 34198), (419, 34156), (430, 34105), (447, 34042), (461, 33994), (463, 33985),

Gene: Milcery_44 Start: 34630, Stop: 32540, Start Num: 48
Candidate Starts for Milcery_44:
(Start: 48 @34630 has 546 MA's), (Start: 88 @34444 has 3 MA's), (Start: 97 @34393 has 1 MA's), (114, 34312), (116, 34303), (141, 34183), (148, 34168), (167, 34057), (168, 34054), (172, 34027), (173, 34018), (179, 33958), (182, 33949), (187, 33925), (207, 33838), (212, 33808), (213, 33805), (216, 33775), (217, 33769), (218, 33766), (242, 33655), (291, 33553), (319, 33391), (323, 33358), (334, 33310), (341, 33271), (355, 33202), (367, 33145), (369, 33133), (370, 33127), (376, 33085), (378, 33076), (385, 33013), (410, 32923), (416, 32896), (425, 32854), (436, 32818), (441, 32800), (443, 32791), (491, 32581),

Gene: Mildred21_41 Start: 18540, Stop: 20480, Start Num: 64
Candidate Starts for Mildred21_41:
(Start: 64 @18540 has 81 MA's), (83, 18645), (86, 18666), (90, 18675), (108, 18765), (110, 18774), (111, 18783), (112, 18786), (132, 18891), (179, 19143), (239, 19401), (245, 19413), (314, 19626), (345, 19773), (377, 19929), (379, 19947), (382, 19983), (401, 20055), (439, 20226), (448, 20265), (476, 20364),

Gene: Millski_49 Start: 35449, Stop: 33416, Start Num: 48
Candidate Starts for Millski_49:
(Start: 48 @35449 has 546 MA's), (68, 35386), (Start: 73 @35338 has 4 MA's), (78, 35314), (92, 35248), (Start: 97 @35212 has 1 MA's), (102, 35179), (114, 35131), (116, 35122), (125, 35065), (134, 35038), (141, 35005), (172, 34849), (173, 34840), (182, 34771), (207, 34699), (212, 34669), (213, 34666), (216, 34636), (217, 34630), (218, 34627), (236, 34540), (251, 34510), (261, 34498), (269,

34489), (287, 34441), (321, 34237), (341, 34135), (345, 34117), (373, 33976), (376, 33949), (407, 33805), (408, 33802), (416, 33772), (430, 33709), (441, 33676), (443, 33667), (447, 33646), (461, 33598), (477, 33532),

Gene: MindFlayer_43 Start: 19143, Stop: 21083, Start Num: 64
Candidate Starts for MindFlayer_43:
(Start: 64 @19143 has 81 MA's), (90, 19275), (96, 19311), (102, 19347), (110, 19374), (112, 19386), (132, 19491), (150, 19548), (188, 19773), (210, 19827), (221, 19911), (232, 19962), (239, 20001), (245, 20013), (293, 20091), (305, 20190), (314, 20226), (345, 20373), (379, 20547), (382, 20583), (400, 20652), (401, 20655), (439, 20826), (476, 20964),

Gene: MinecraftSteve_57 Start: 34981, Stop: 32918, Start Num: 42
Candidate Starts for MinecraftSteve_57:
(Start: 42 @34981 has 25 MA's), (77, 34837), (87, 34786), (Start: 88 @34783 has 3 MA's), (114, 34651), (116, 34642), (141, 34522), (173, 34357), (177, 34318), (182, 34288), (199, 34246), (207, 34222), (212, 34192), (216, 34159), (217, 34153), (218, 34150), (278, 33976), (283, 33964), (291, 33928), (320, 33751), (321, 33748), (327, 33712), (341, 33646), (349, 33607), (351, 33595), (369, 33508), (370, 33502), (376, 33460), (426, 33229), (447, 33148), (464, 33088), (470, 33070), (488, 32977), (491, 32959),

Gene: Minispark_50 Start: 35233, Stop: 33194, Start Num: 48
Candidate Starts for Minispark_50:
(Start: 46 @35236 has 38 MA's), (Start: 48 @35233 has 546 MA's), (Start: 73 @35119 has 4 MA's), (74, 35116), (Start: 97 @34993 has 1 MA's), (102, 34960), (116, 34903), (125, 34843), (126, 34840), (141, 34783), (172, 34627), (182, 34549), (185, 34537), (206, 34492), (207, 34483), (212, 34453), (214, 34438), (216, 34420), (217, 34414), (218, 34411), (227, 34372), (280, 34246), (291, 34201), (298, 34159), (308, 34075), (321, 34021), (338, 33934), (343, 33907), (356, 33847), (374, 33742), (376, 33733), (408, 33580), (418, 33541), (447, 33424), (461, 33376),

Gene: Miramae_48 Start: 34895, Stop: 32859, Start Num: 48
Candidate Starts for Miramae_48:
(Start: 48 @34895 has 546 MA's), (92, 34694), (Start: 97 @34658 has 1 MA's), (102, 34625), (114, 34577), (116, 34568), (141, 34451), (172, 34295), (173, 34286), (182, 34217), (185, 34205), (206, 34154), (207, 34145), (212, 34115), (213, 34112), (216, 34082), (217, 34076), (218, 34073), (225, 34040), (242, 33962), (282, 33899), (287, 33884), (321, 33680), (345, 33560), (369, 33440), (373, 33419), (376, 33392), (407, 33248), (408, 33245), (416, 33215), (426, 33170), (441, 33119), (443, 33110), (447, 33089), (461, 33041), (477, 32975),

Gene: Misomonster_55 Start: 35933, Stop: 33915, Start Num: 55
Candidate Starts for Misomonster_55:
(Start: 55 @35933 has 103 MA's), (Start: 71 @35840 has 1 MA's), (Start: 73 @35831 has 4 MA's), (78, 35807), (Start: 88 @35756 has 3 MA's), (Start: 97 @35705 has 1 MA's), (114, 35624), (116, 35615), (141, 35498), (159, 35402), (172, 35342), (179, 35273), (182, 35264), (183, 35261), (185, 35252), (207, 35192), (212, 35162), (213, 35159), (214, 35147), (216, 35129), (217, 35123), (218, 35120), (239, 35015), (242, 35009), (287, 34952), (321, 34748), (323, 34733), (327, 34712), (333, 34688), (338, 34661), (341, 34646), (369, 34508), (370, 34502), (373, 34487), (376, 34460), (383, 34397), (384, 34391), (391, 34367), (418, 34262), (426, 34226), (447, 34145), (470, 34067), (477, 34031), (490, 33968),

Gene: MissWhite_50 Start: 34123, Stop: 32183, Start Num: 71
Candidate Starts for MissWhite_50:
(Start: 48 @34228 has 546 MA's), (Start: 71 @34123 has 1 MA's), (Start: 73 @34114 has 4 MA's), (Start: 88 @34039 has 3 MA's), (102, 33955), (114, 33907), (116, 33898), (126, 33835), (141, 33778),

(171, 33631), (172, 33622), (177, 33574), (182, 33544), (206, 33487), (207, 33478), (212, 33448), (216, 33415), (217, 33409), (218, 33406), (236, 33319), (266, 33265), (291, 33184), (298, 33142), (321, 33004), (341, 32902), (343, 32890), (356, 32830), (367, 32776), (370, 32758), (374, 32725), (376, 32716), (382, 32659), (408, 32563), (430, 32476), (447, 32413),

Gene: Moab_21 Start: 8180, Stop: 10123, Start Num: 65
Candidate Starts for Moab_21:
(62, 8171), (Start: 65 @8180 has 29 MA's), (Start: 73 @8237 has 4 MA's), (90, 8318), (110, 8417), (112, 8429), (132, 8534), (204, 8840), (212, 8888), (337, 9374), (339, 9386), (344, 9410), (364, 9482), (379, 9587), (401, 9695), (421, 9797), (474, 9995), (480, 10028),

Gene: MoneyMay_54 Start: 35906, Stop: 33888, Start Num: 55
Candidate Starts for MoneyMay_54:
(Start: 55 @35906 has 103 MA's), (Start: 71 @35813 has 1 MA's), (Start: 73 @35804 has 4 MA's), (78, 35780), (Start: 88 @35729 has 3 MA's), (Start: 97 @35678 has 1 MA's), (114, 35597), (116, 35588), (141, 35468), (156, 35408), (159, 35372), (172, 35312), (182, 35234), (207, 35162), (212, 35132), (216, 35099), (217, 35093), (218, 35090), (234, 35009), (242, 34979), (287, 34925), (312, 34754), (333, 34658), (341, 34616), (345, 34598), (355, 34550), (358, 34538), (369, 34481), (370, 34475), (373, 34460), (376, 34433), (383, 34370), (384, 34364), (391, 34340), (418, 34235), (436, 34166), (441, 34148), (447, 34118), (470, 34040), (477, 34004), (490, 33941),

Gene: Montavir_53 Start: 35907, Stop: 33889, Start Num: 55
Candidate Starts for Montavir_53:
(Start: 55 @35907 has 103 MA's), (Start: 71 @35814 has 1 MA's), (Start: 73 @35805 has 4 MA's), (78, 35781), (Start: 88 @35730 has 3 MA's), (Start: 97 @35679 has 1 MA's), (114, 35598), (116, 35589), (141, 35469), (156, 35409), (159, 35373), (172, 35313), (182, 35235), (207, 35163), (212, 35133), (216, 35100), (217, 35094), (218, 35091), (234, 35010), (242, 34980), (287, 34926), (312, 34755), (333, 34659), (341, 34617), (345, 34599), (355, 34551), (358, 34539), (369, 34482), (370, 34476), (373, 34461), (376, 34434), (383, 34371), (384, 34365), (391, 34341), (418, 34236), (436, 34167), (441, 34149), (443, 34140), (447, 34119), (470, 34041), (477, 34005), (490, 33942),

Gene: Morpher26_49 Start: 35430, Stop: 33412, Start Num: 48
Candidate Starts for Morpher26_49:
(Start: 48 @35430 has 546 MA's), (Start: 73 @35319 has 4 MA's), (92, 35229), (Start: 97 @35193 has 1 MA's), (102, 35160), (114, 35112), (116, 35103), (125, 35043), (141, 34983), (172, 34827), (173, 34818), (182, 34749), (185, 34737), (205, 34686), (207, 34677), (212, 34647), (213, 34644), (216, 34614), (217, 34608), (218, 34605), (255, 34485), (278, 34461), (287, 34437), (321, 34233), (341, 34131), (345, 34113), (355, 34062), (369, 33993), (373, 33972), (376, 33945), (407, 33801), (408, 33798), (416, 33768), (426, 33723), (441, 33672), (443, 33663), (447, 33642), (477, 33528), (488, 33471),

Gene: Morrow_51 Start: 35454, Stop: 33421, Start Num: 48
Candidate Starts for Morrow_51:
(Start: 48 @35454 has 546 MA's), (68, 35391), (Start: 73 @35343 has 4 MA's), (78, 35319), (92, 35253), (Start: 97 @35217 has 1 MA's), (102, 35184), (114, 35136), (116, 35127), (125, 35070), (134, 35043), (141, 35010), (172, 34854), (173, 34845), (182, 34776), (207, 34704), (212, 34674), (213, 34671), (216, 34641), (217, 34635), (218, 34632), (236, 34545), (251, 34515), (261, 34503), (269, 34494), (287, 34446), (321, 34242), (341, 34140), (345, 34122), (373, 33981), (376, 33954), (407, 33810), (408, 33807), (416, 33777), (430, 33714), (441, 33681), (443, 33672), (447, 33651), (461, 33603), (477, 33537),

Gene: MuchMore_57 Start: 35898, Stop: 33880, Start Num: 55
Candidate Starts for MuchMore_57:

(Start: 55 @35898 has 103 MA's), (Start: 73 @35796 has 4 MA's), (78, 35772), (Start: 88 @35721 has 3 MA's), (Start: 97 @35670 has 1 MA's), (114, 35589), (116, 35580), (141, 35460), (156, 35400), (159, 35364), (172, 35304), (182, 35226), (207, 35154), (212, 35124), (216, 35091), (217, 35085), (218, 35082), (234, 35001), (242, 34971), (287, 34917), (312, 34746), (333, 34650), (341, 34608), (345, 34590), (355, 34542), (358, 34530), (369, 34473), (370, 34467), (373, 34452), (376, 34425), (383, 34362), (384, 34356), (391, 34332), (418, 34227), (436, 34158), (441, 34140), (443, 34131), (447, 34110), (470, 34032), (477, 33996), (490, 33933),

Gene: Mugiwara_44 Start: 19338, Stop: 21278, Start Num: 64
Candidate Starts for Mugiwara_44:
(Start: 64 @19338 has 81 MA's), (90, 19470), (102, 19542), (110, 19569), (112, 19581), (132, 19686), (153, 19776), (188, 19968), (221, 20106), (232, 20157), (239, 20196), (245, 20208), (293, 20286), (305, 20385), (314, 20421), (339, 20541), (345, 20568), (379, 20742), (382, 20778), (400, 20847), (401, 20850), (439, 21021), (476, 21159),

Gene: MulchMansion_40 Start: 18338, Stop: 20281, Start Num: 64
Candidate Starts for MulchMansion_40:
(51, 18293), (Start: 64 @18338 has 81 MA's), (Start: 67 @18344 has 1 MA's), (83, 18446), (86, 18467), (90, 18476), (108, 18566), (110, 18575), (111, 18584), (112, 18587), (132, 18692), (143, 18734), (179, 18944), (204, 19001), (221, 19112), (239, 19202), (245, 19214), (314, 19427), (317, 19436), (336, 19532), (345, 19574), (379, 19748), (401, 19856), (439, 20027), (448, 20066), (476, 20165),

Gene: Mulciber_51 Start: 34844, Stop: 32823, Start Num: 52
Candidate Starts for Mulciber_51:
(28, 34895), (43, 34862), (Start: 52 @34844 has 24 MA's), (Start: 73 @34736 has 4 MA's), (Start: 88 @34661 has 3 MA's), (114, 34529), (116, 34520), (141, 34400), (172, 34244), (177, 34196), (181, 34169), (182, 34166), (185, 34154), (201, 34121), (207, 34100), (214, 34055), (216, 34037), (217, 34031), (218, 34028), (257, 33908), (291, 33833), (294, 33818), (298, 33791), (321, 33653), (333, 33593), (341, 33551), (345, 33533), (360, 33461), (370, 33407), (373, 33392), (374, 33374), (391, 33275), (408, 33212), (418, 33173), (441, 33083), (447, 33053), (461, 33005),

Gene: Munch_52 Start: 35307, Stop: 33283, Start Num: 52
Candidate Starts for Munch_52:
(28, 35358), (43, 35325), (Start: 52 @35307 has 24 MA's), (Start: 73 @35199 has 4 MA's), (Start: 88 @35124 has 3 MA's), (114, 34992), (116, 34983), (141, 34863), (172, 34707), (177, 34659), (181, 34632), (182, 34629), (185, 34617), (201, 34584), (207, 34563), (214, 34518), (216, 34500), (217, 34494), (218, 34491), (278, 34341), (291, 34293), (294, 34278), (321, 34113), (341, 34011), (345, 33993), (360, 33921), (370, 33867), (373, 33852), (374, 33834), (408, 33672), (418, 33633), (441, 33543), (447, 33513), (461, 33465),

Gene: Mundrea_49 Start: 35444, Stop: 33414, Start Num: 48
Candidate Starts for Mundrea_49:
(Start: 48 @35444 has 546 MA's), (Start: 73 @35333 has 4 MA's), (92, 35243), (Start: 97 @35207 has 1 MA's), (102, 35174), (114, 35126), (116, 35117), (125, 35060), (141, 35000), (172, 34844), (173, 34835), (182, 34766), (185, 34754), (206, 34703), (207, 34694), (212, 34664), (213, 34661), (216, 34631), (217, 34625), (218, 34622), (225, 34589), (241, 34514), (287, 34439), (321, 34235), (341, 34133), (345, 34115), (355, 34064), (365, 34025), (369, 33995), (373, 33974), (376, 33947), (407, 33803), (408, 33800), (416, 33770), (426, 33725), (436, 33692), (441, 33674), (443, 33665), (447, 33644), (477, 33530),

Gene: Muntaha_16 Start: 6892, Stop: 8838, Start Num: 65
Candidate Starts for Muntaha_16:

(Start: 65 @6892 has 29 MA's), (90, 7033), (Start: 103 @7108 has 6 MA's), (110, 7132), (112, 7144), (132, 7249), (161, 7390), (210, 7582), (217, 7642), (339, 8101), (344, 8125), (360, 8185), (389, 8374), (401, 8410), (421, 8512), (424, 8527),

Gene: MyraDee_44 Start: 32002, Stop: 29960, Start Num: 48
Candidate Starts for MyraDee_44:
(Start: 48 @32002 has 546 MA's), (Start: 71 @31900 has 1 MA's), (Start: 73 @31891 has 4 MA's), (Start: 88 @31816 has 3 MA's), (Start: 97 @31765 has 1 MA's), (100, 31747), (102, 31732), (114, 31684), (116, 31675), (128, 31603), (141, 31555), (168, 31426), (172, 31399), (179, 31330), (182, 31321), (185, 31309), (196, 31279), (207, 31255), (212, 31225), (213, 31222), (216, 31192), (217, 31186), (218, 31183), (278, 31021), (283, 31009), (291, 30973), (307, 30859), (321, 30793), (333, 30733), (338, 30706), (361, 30598), (367, 30565), (369, 30553), (376, 30505), (394, 30406), (407, 30349), (411, 30337), (418, 30307), (419, 30304), (425, 30274), (430, 30253), (432, 30247), (436, 30238), (447, 30190), (461, 30142), (491, 30001),

Gene: Myxus_51 Start: 35670, Stop: 33631, Start Num: 48
Candidate Starts for Myxus_51:
(Start: 48 @35670 has 546 MA's), (Start: 73 @35556 has 4 MA's), (75, 35541), (78, 35532), (Start: 97 @35430 has 1 MA's), (116, 35340), (125, 35280), (141, 35220), (171, 35073), (172, 35064), (182, 34986), (185, 34974), (206, 34929), (207, 34920), (212, 34890), (214, 34875), (216, 34857), (217, 34851), (218, 34848), (280, 34683), (288, 34659), (291, 34638), (321, 34458), (343, 34344), (356, 34284), (374, 34179), (376, 34170), (408, 34017), (416, 33987), (430, 33924), (447, 33861),

Gene: NaSiaTalie_51 Start: 35748, Stop: 33712, Start Num: 48
Candidate Starts for NaSiaTalie_51:
(Start: 48 @35748 has 546 MA's), (Start: 61 @35709 has 1 MA's), (Start: 73 @35637 has 4 MA's), (Start: 88 @35562 has 3 MA's), (Start: 97 @35511 has 1 MA's), (102, 35478), (116, 35421), (125, 35361), (134, 35334), (141, 35301), (172, 35145), (182, 35067), (185, 35055), (204, 35013), (207, 34995), (212, 34965), (213, 34962), (214, 34950), (216, 34932), (217, 34926), (218, 34923), (280, 34764), (291, 34719), (298, 34677), (321, 34539), (327, 34503), (341, 34437), (343, 34425), (356, 34365), (367, 34311), (370, 34293), (378, 34242), (391, 34161), (396, 34152), (408, 34098), (416, 34068), (418, 34059), (430, 34005), (447, 33942), (461, 33894), (463, 33885),

Gene: Nabi_48 Start: 32494, Stop: 34584, Start Num: 48
Candidate Starts for Nabi_48:
(31, 32452), (34, 32458), (Start: 48 @32494 has 546 MA's), (Start: 61 @32539 has 1 MA's), (79, 32650), (Start: 88 @32704 has 3 MA's), (90, 32710), (Start: 97 @32755 has 1 MA's), (114, 32836), (116, 32845), (131, 32923), (134, 32932), (141, 32965), (156, 33025), (158, 33058), (163, 33082), (171, 33115), (172, 33124), (182, 33202), (183, 33205), (200, 33262), (207, 33292), (216, 33355), (218, 33364), (229, 33415), (248, 33484), (283, 33529), (287, 33541), (301, 33640), (305, 33673), (318, 33730), (321, 33751), (327, 33787), (338, 33838), (346, 33874), (358, 33934), (370, 33997), (371, 34003), (378, 34048), (384, 34108), (395, 34135), (398, 34147), (407, 34201), (410, 34207), (420, 34252), (426, 34273), (436, 34306), (441, 34324), (447, 34354), (450, 34366), (457, 34393), (473, 34453), (488, 34525), (495, 34576),

Gene: Naca_45 Start: 34927, Stop: 32849, Start Num: 24
Candidate Starts for Naca_45:
(Start: 24 @34927 has 1 MA's), (Start: 48 @34885 has 546 MA's), (Start: 88 @34699 has 3 MA's), (Start: 97 @34648 has 1 MA's), (102, 34615), (114, 34567), (116, 34558), (121, 34516), (149, 34420), (155, 34381), (160, 34336), (171, 34291), (172, 34282), (178, 34219), (179, 34213), (182, 34204), (203, 34150), (207, 34132), (212, 34102), (213, 34099), (214, 34087), (216, 34069), (217, 34063), (218, 34060), (291, 33862), (298, 33820), (319, 33700), (320, 33685), (323, 33667), (334, 33619), (341, 33580), (355, 33511), (367, 33454), (369, 33442), (370, 33436), (376, 33394), (378, 33385),

(391, 33304), (407, 33238), (411, 33226), (416, 33205), (425, 33163), (436, 33127), (441, 33109), (443, 33100), (491, 32890),

Gene: Naiad_40 Start: 32087, Stop: 30042, Start Num: 46
Candidate Starts for Naiad_40:
(Start: 46 @32087 has 38 MA's), (74, 31967), (87, 31898), (Start: 97 @31844 has 1 MA's), (114, 31763), (116, 31754), (125, 31694), (131, 31676), (156, 31574), (158, 31541), (159, 31538), (161, 31529), (167, 31508), (171, 31487), (172, 31478), (178, 31415), (182, 31400), (184, 31394), (207, 31334), (213, 31301), (216, 31271), (217, 31265), (218, 31262), (259, 31127), (312, 30914), (320, 30881), (338, 30791), (340, 30782), (367, 30650), (376, 30590), (385, 30518), (398, 30479), (399, 30476), (402, 30464), (418, 30392), (436, 30320), (443, 30293), (477, 30158),

Gene: Naji_53 Start: 35562, Stop: 33481, Start Num: 48
Candidate Starts for Naji_53:
(Start: 48 @35562 has 546 MA's), (Start: 71 @35457 has 1 MA's), (Start: 73 @35448 has 4 MA's), (Start: 88 @35373 has 3 MA's), (102, 35289), (114, 35241), (116, 35232), (125, 35172), (149, 35094), (155, 35055), (158, 35019), (172, 34956), (178, 34893), (182, 34878), (207, 34782), (212, 34752), (213, 34749), (216, 34719), (217, 34713), (218, 34710), (236, 34623), (278, 34548), (291, 34500), (321, 34320), (341, 34218), (343, 34206), (356, 34146), (358, 34137), (367, 34092), (369, 34080), (373, 34059), (376, 34032), (384, 33963), (408, 33867), (415, 33840), (418, 33828), (426, 33792), (447, 33711), (458, 33669),

Gene: Nancinator_41 Start: 32007, Stop: 29962, Start Num: 46
Candidate Starts for Nancinator_41:
(Start: 46 @32007 has 38 MA's), (74, 31887), (87, 31818), (Start: 97 @31764 has 1 MA's), (114, 31683), (116, 31674), (125, 31614), (131, 31596), (156, 31494), (158, 31461), (159, 31458), (161, 31449), (167, 31428), (171, 31407), (172, 31398), (178, 31335), (182, 31320), (184, 31314), (207, 31254), (213, 31221), (216, 31191), (217, 31185), (218, 31182), (259, 31047), (308, 30852), (312, 30834), (320, 30801), (338, 30711), (340, 30702), (367, 30570), (376, 30510), (385, 30438), (398, 30399), (399, 30396), (402, 30384), (408, 30351), (418, 30312), (436, 30240), (443, 30213), (477, 30078),

Gene: Nanodon_49 Start: 32264, Stop: 34354, Start Num: 48
Candidate Starts for Nanodon_49:
(Start: 48 @32264 has 546 MA's), (79, 32420), (Start: 88 @32474 has 3 MA's), (90, 32480), (Start: 97 @32525 has 1 MA's), (114, 32606), (116, 32615), (131, 32693), (141, 32735), (158, 32828), (159, 32831), (163, 32852), (172, 32894), (182, 32972), (183, 32975), (200, 33032), (207, 33062), (216, 33125), (218, 33134), (229, 33185), (238, 33236), (283, 33299), (287, 33311), (305, 33443), (321, 33521), (323, 33536), (327, 33557), (338, 33608), (370, 33767), (371, 33773), (373, 33782), (378, 33818), (382, 33866), (384, 33878), (395, 33905), (407, 33971), (410, 33977), (420, 34022), (426, 34043), (436, 34076), (441, 34094), (447, 34124), (457, 34163), (473, 34223), (486, 34292),

Gene: Natosaleda_40 Start: 32006, Stop: 29961, Start Num: 46
Candidate Starts for Natosaleda_40:
(Start: 46 @32006 has 38 MA's), (74, 31886), (87, 31817), (Start: 97 @31763 has 1 MA's), (114, 31682), (116, 31673), (125, 31613), (131, 31595), (156, 31493), (158, 31460), (159, 31457), (161, 31448), (167, 31427), (171, 31406), (172, 31397), (178, 31334), (182, 31319), (184, 31313), (207, 31253), (213, 31220), (216, 31190), (217, 31184), (218, 31181), (259, 31046), (308, 30851), (312, 30833), (320, 30800), (338, 30710), (340, 30701), (367, 30569), (376, 30509), (385, 30437), (398, 30398), (399, 30395), (402, 30383), (408, 30350), (418, 30311), (436, 30239), (443, 30212), (477, 30077),

Gene: Navo_40 Start: 18459, Stop: 20402, Start Num: 64

Candidate Starts for Navo_40:
(Start: 64 @18459 has 81 MA's), (Start: 67 @18465 has 1 MA's), (83, 18567), (86, 18588), (90, 18597), (108, 18687), (110, 18696), (111, 18705), (112, 18708), (132, 18813), (204, 19122), (221, 19233), (239, 19323), (245, 19335), (314, 19548), (345, 19695), (362, 19758), (379, 19869), (401, 19977), (439, 20148), (448, 20187), (476, 20286),

Gene: NearlyHeadless_47 Start: 33763, Stop: 31724, Start Num: 48
Candidate Starts for NearlyHeadless_47:
(Start: 48 @33763 has 546 MA's), (75, 33637), (87, 33580), (Start: 88 @33577 has 3 MA's), (Start: 97 @33526 has 1 MA's), (102, 33493), (114, 33445), (116, 33436), (121, 33394), (149, 33298), (155, 33259), (160, 33214), (171, 33169), (172, 33160), (178, 33097), (179, 33091), (182, 33082), (183, 33079), (207, 33010), (212, 32980), (213, 32977), (216, 32947), (217, 32941), (218, 32938), (291, 32740), (321, 32557), (327, 32521), (341, 32455), (363, 32356), (369, 32317), (376, 32269), (378, 32260), (389, 32179), (416, 32080), (426, 32035), (436, 32002), (443, 31975), (447, 31954), (451, 31936), (491, 31765),

Gene: Nebkiss_88 Start: 50325, Stop: 52307, Start Num: 47
Candidate Starts for Nebkiss_88:
(Start: 47 @50325 has 2 MA's), (85, 50511), (102, 50604), (112, 50649), (116, 50667), (118, 50691), (119, 50706), (120, 50709), (123, 50724), (136, 50775), (139, 50790), (151, 50826), (179, 51021), (188, 51051), (207, 51096), (213, 51129), (217, 51165), (219, 51171), (222, 51192), (231, 51240), (237, 51267), (240, 51273), (279, 51306), (286, 51327), (289, 51333), (293, 51360), (301, 51426), (304, 51453), (307, 51465), (325, 51543), (330, 51573), (332, 51576), (342, 51615), (345, 51627), (360, 51684), (367, 51717), (373, 51750), (374, 51768), (375, 51774), (376, 51777), (379, 51798), (404, 51927), (405, 51930), (409, 51954), (429, 52044), (445, 52092), (446, 52101), (449, 52116), (456, 52140), (460, 52152), (473, 52203), (476, 52215), (478, 52230), (481, 52239), (486, 52263),

Gene: Nebs_51 Start: 35448, Stop: 33415, Start Num: 48
Candidate Starts for Nebs_51:
(Start: 48 @35448 has 546 MA's), (68, 35385), (Start: 73 @35337 has 4 MA's), (78, 35313), (92, 35247), (Start: 97 @35211 has 1 MA's), (102, 35178), (114, 35130), (116, 35121), (125, 35064), (134, 35037), (141, 35004), (172, 34848), (173, 34839), (182, 34770), (207, 34698), (212, 34668), (213, 34665), (216, 34635), (217, 34629), (218, 34626), (236, 34539), (251, 34509), (261, 34497), (269, 34488), (287, 34440), (321, 34236), (341, 34134), (345, 34116), (373, 33975), (376, 33948), (407, 33804), (408, 33801), (416, 33771), (430, 33708), (441, 33675), (443, 33666), (447, 33645), (461, 33597), (477, 33531),

Gene: Nebulosus_55 Start: 34691, Stop: 32628, Start Num: 42
Candidate Starts for Nebulosus_55:
(Start: 42 @34691 has 25 MA's), (87, 34496), (Start: 88 @34493 has 3 MA's), (114, 34361), (116, 34352), (141, 34232), (173, 34067), (177, 34028), (182, 33998), (199, 33956), (207, 33932), (212, 33902), (216, 33869), (217, 33863), (218, 33860), (278, 33686), (283, 33674), (291, 33638), (320, 33461), (321, 33458), (327, 33422), (341, 33356), (349, 33317), (351, 33305), (369, 33218), (370, 33212), (376, 33170), (426, 32939), (447, 32858), (464, 32798), (470, 32780), (488, 32687), (491, 32669),

Gene: Nedarya_51 Start: 34137, Stop: 32068, Start Num: 42
Candidate Starts for Nedarya_51:
(Start: 42 @34137 has 25 MA's), (Start: 71 @34023 has 1 MA's), (Start: 73 @34014 has 4 MA's), (Start: 97 @33888 has 1 MA's), (100, 33870), (102, 33855), (114, 33807), (116, 33798), (119, 33762), (141, 33678), (172, 33522), (177, 33474), (182, 33444), (207, 33378), (212, 33348), (213, 33345), (216, 33315), (217, 33309), (218, 33306), (260, 33168), (270, 33153), (278, 33126), (291, 33078), (321, 32898), (341, 32796), (350, 32748), (353, 32739), (355, 32727), (366, 32685), (370, 32652),

(376, 32610), (378, 32601), (382, 32553), (403, 32478), (408, 32457), (410, 32454), (426, 32379), (436, 32346), (441, 32328), (447, 32298), (463, 32241), (488, 32127), (491, 32109),

Gene: Neeharika16_52 Start: 34274, Stop: 32250, Start Num: 48
Candidate Starts for Neeharika16_52:
(33, 34307), (Start: 48 @34274 has 546 MA's), (Start: 88 @34088 has 3 MA's), (102, 34004), (114, 33956), (116, 33947), (125, 33887), (141, 33827), (155, 33770), (159, 33731), (168, 33698), (172, 33671), (173, 33662), (178, 33608), (182, 33593), (207, 33521), (212, 33491), (216, 33458), (217, 33452), (218, 33449), (291, 33257), (318, 33098), (321, 33077), (343, 32963), (356, 32903), (358, 32894), (367, 32849), (370, 32831), (374, 32798), (393, 32696), (396, 32690), (408, 32636), (415, 32609), (416, 32606), (418, 32597), (430, 32543), (447, 32480), (454, 32450), (463, 32423),

Gene: Nemo27_50 Start: 35447, Stop: 33414, Start Num: 48
Candidate Starts for Nemo27_50:
(Start: 48 @35447 has 546 MA's), (68, 35384), (Start: 73 @35336 has 4 MA's), (78, 35312), (92, 35246), (Start: 97 @35210 has 1 MA's), (102, 35177), (114, 35129), (116, 35120), (125, 35063), (134, 35036), (141, 35003), (172, 34847), (173, 34838), (182, 34769), (207, 34697), (212, 34667), (213, 34664), (216, 34634), (217, 34628), (218, 34625), (236, 34538), (251, 34508), (261, 34496), (269, 34487), (287, 34439), (321, 34235), (341, 34133), (345, 34115), (373, 33974), (376, 33947), (407, 33803), (408, 33800), (416, 33770), (430, 33707), (441, 33674), (443, 33665), (447, 33644), (461, 33596), (477, 33530),

Gene: Nerdos_46 Start: 31662, Stop: 33752, Start Num: 48
Candidate Starts for Nerdos_46:
(Start: 48 @31662 has 546 MA's), (78, 31803), (79, 31818), (Start: 88 @31872 has 3 MA's), (90, 31878), (Start: 97 @31923 has 1 MA's), (114, 32004), (116, 32013), (131, 32091), (134, 32100), (141, 32133), (158, 32226), (163, 32250), (172, 32292), (182, 32370), (183, 32373), (207, 32460), (216, 32523), (218, 32532), (283, 32697), (287, 32709), (305, 32841), (309, 32868), (321, 32919), (323, 32934), (327, 32955), (341, 33021), (370, 33165), (371, 33171), (373, 33180), (378, 33216), (382, 33264), (384, 33276), (395, 33303), (398, 33315), (407, 33369), (420, 33420), (426, 33441), (436, 33474), (441, 33492), (447, 33522), (450, 33534), (457, 33561), (473, 33621), (486, 33690), (488, 33693), (495, 33744),

Gene: Newrala_53 Start: 34816, Stop: 32792, Start Num: 48
Candidate Starts for Newrala_53:
(33, 34849), (Start: 48 @34816 has 546 MA's), (Start: 88 @34630 has 3 MA's), (102, 34546), (114, 34498), (116, 34489), (125, 34429), (141, 34369), (155, 34312), (159, 34273), (168, 34240), (172, 34213), (173, 34204), (178, 34150), (182, 34135), (207, 34063), (212, 34033), (216, 34000), (217, 33994), (218, 33991), (291, 33799), (318, 33640), (321, 33619), (343, 33505), (356, 33445), (358, 33436), (367, 33391), (370, 33373), (374, 33340), (393, 33238), (396, 33232), (408, 33178), (415, 33151), (416, 33148), (418, 33139), (430, 33085), (447, 33022), (454, 32992), (463, 32965),

Gene: NicoleTera_50 Start: 36019, Stop: 33998, Start Num: 48
Candidate Starts for NicoleTera_50:
(Start: 48 @36019 has 546 MA's), (Start: 73 @35908 has 4 MA's), (74, 35905), (87, 35836), (Start: 88 @35833 has 3 MA's), (Start: 97 @35782 has 1 MA's), (102, 35749), (114, 35701), (116, 35692), (125, 35632), (141, 35572), (172, 35416), (173, 35407), (182, 35338), (207, 35266), (212, 35236), (213, 35233), (214, 35221), (216, 35203), (217, 35197), (218, 35194), (244, 35083), (280, 35050), (291, 35005), (298, 34963), (321, 34825), (327, 34789), (341, 34723), (343, 34711), (356, 34651), (367, 34597), (370, 34579), (391, 34447), (396, 34438), (408, 34384), (418, 34345), (430, 34291), (447, 34228), (461, 34180), (463, 34171),

Gene: Nishikigoi_49 Start: 32987, Stop: 35110, Start Num: 48

Candidate Starts for Nishikigoi_49:
(19, 32909), (34, 32951), (41, 32969), (Start: 48 @32987 has 546 MA's), (Start: 88 @33197 has 3 MA's), (90, 33203), (114, 33329), (116, 33338), (131, 33416), (134, 33425), (136, 33437), (141, 33458), (163, 33575), (172, 33617), (173, 33626), (182, 33695), (207, 33803), (212, 33833), (213, 33836), (216, 33866), (268, 34031), (287, 34067), (302, 34187), (321, 34277), (327, 34313), (335, 34340), (358, 34460), (370, 34523), (373, 34538), (378, 34574), (384, 34634), (395, 34661), (398, 34673), (402, 34691), (407, 34727), (410, 34733), (420, 34778), (426, 34799), (436, 34832), (441, 34850), (447, 34880), (450, 34892), (459, 34925), (473, 34979), (486, 35048), (495, 35102),

Gene: Noella_50 Start: 35711, Stop: 33693, Start Num: 55
Candidate Starts for Noella_50:
(Start: 55 @35711 has 103 MA's), (Start: 71 @35618 has 1 MA's), (Start: 73 @35609 has 4 MA's), (77, 35588), (92, 35519), (Start: 97 @35483 has 1 MA's), (102, 35450), (114, 35402), (116, 35393), (141, 35276), (159, 35180), (172, 35120), (179, 35051), (182, 35042), (185, 35030), (207, 34970), (212, 34940), (213, 34937), (214, 34925), (216, 34907), (217, 34901), (218, 34898), (239, 34793), (242, 34787), (287, 34730), (321, 34526), (333, 34466), (341, 34424), (345, 34406), (358, 34343), (370, 34280), (373, 34265), (376, 34238), (385, 34166), (408, 34079), (419, 34037), (443, 33944), (447, 33923), (477, 33809),

Gene: Noelle_50 Start: 35722, Stop: 33704, Start Num: 48
Candidate Starts for Noelle_50:
(Start: 48 @35722 has 546 MA's), (Start: 73 @35611 has 4 MA's), (92, 35521), (Start: 97 @35485 has 1 MA's), (102, 35452), (114, 35404), (116, 35395), (125, 35335), (141, 35275), (172, 35119), (173, 35110), (182, 35041), (185, 35029), (205, 34978), (207, 34969), (212, 34939), (216, 34906), (217, 34900), (218, 34897), (255, 34777), (278, 34753), (287, 34729), (321, 34525), (341, 34423), (345, 34405), (355, 34354), (369, 34285), (373, 34264), (376, 34237), (407, 34093), (408, 34090), (416, 34060), (426, 34015), (441, 33964), (443, 33955), (447, 33934), (477, 33820), (488, 33763),

Gene: NootNoot_38 Start: 17345, Stop: 19288, Start Num: 64
Candidate Starts for NootNoot_38:
(Start: 64 @17345 has 81 MA's), (Start: 67 @17351 has 1 MA's), (83, 17453), (86, 17474), (90, 17483), (108, 17573), (110, 17582), (111, 17591), (112, 17594), (132, 17699), (204, 18008), (221, 18119), (239, 18209), (245, 18221), (314, 18434), (345, 18581), (362, 18644), (377, 18737), (379, 18755), (401, 18863), (439, 19034), (448, 19073), (476, 19172),

Gene: Norbert_49 Start: 35710, Stop: 33692, Start Num: 55
Candidate Starts for Norbert_49:
(Start: 55 @35710 has 103 MA's), (Start: 71 @35617 has 1 MA's), (Start: 73 @35608 has 4 MA's), (77, 35587), (92, 35518), (Start: 97 @35482 has 1 MA's), (102, 35449), (114, 35401), (116, 35392), (141, 35275), (159, 35179), (172, 35119), (179, 35050), (182, 35041), (185, 35029), (207, 34969), (212, 34939), (213, 34936), (214, 34924), (216, 34906), (217, 34900), (218, 34897), (239, 34792), (242, 34786), (287, 34729), (321, 34525), (333, 34465), (341, 34423), (345, 34405), (358, 34342), (370, 34279), (373, 34264), (376, 34237), (385, 34165), (408, 34078), (419, 34036), (443, 33943), (447, 33922), (477, 33808),

Gene: NorthStar_49 Start: 35448, Stop: 33415, Start Num: 48
Candidate Starts for NorthStar_49:
(Start: 48 @35448 has 546 MA's), (68, 35385), (Start: 73 @35337 has 4 MA's), (78, 35313), (92, 35247), (Start: 97 @35211 has 1 MA's), (102, 35178), (114, 35130), (116, 35121), (125, 35064), (134, 35037), (141, 35004), (172, 34848), (173, 34839), (182, 34770), (207, 34698), (212, 34668), (213, 34665), (216, 34635), (217, 34629), (218, 34626), (236, 34539), (251, 34509), (261, 34497), (269, 34488), (287, 34440), (321, 34236), (341, 34134), (345, 34116), (373, 33975), (376, 33948), (407, 33804), (408, 33801), (416, 33771), (430, 33708), (441, 33675), (443, 33666), (447, 33645), (461,

33597), (477, 33531),

Gene: Northrop_50 Start: 35444, Stop: 33411, Start Num: 48
Candidate Starts for Northrop_50:
(Start: 48 @35444 has 546 MA's), (68, 35381), (Start: 73 @35333 has 4 MA's), (78, 35309), (92, 35243), (Start: 97 @35207 has 1 MA's), (102, 35174), (114, 35126), (116, 35117), (125, 35060), (134, 35033), (141, 35000), (172, 34844), (173, 34835), (182, 34766), (207, 34694), (212, 34664), (213, 34661), (216, 34631), (217, 34625), (218, 34622), (236, 34535), (247, 34511), (251, 34505), (261, 34493), (269, 34484), (287, 34436), (321, 34232), (341, 34130), (345, 34112), (373, 33971), (376, 33944), (407, 33800), (408, 33797), (416, 33767), (430, 33704), (441, 33671), (443, 33662), (447, 33641), (461, 33593), (477, 33527),

Gene: NotAPhaseMom_50 Start: 35452, Stop: 33419, Start Num: 48
Candidate Starts for NotAPhaseMom_50:
(Start: 48 @35452 has 546 MA's), (68, 35389), (Start: 73 @35341 has 4 MA's), (78, 35317), (92, 35251), (Start: 97 @35215 has 1 MA's), (102, 35182), (114, 35134), (116, 35125), (125, 35068), (134, 35041), (141, 35008), (172, 34852), (173, 34843), (182, 34774), (207, 34702), (212, 34672), (213, 34669), (216, 34639), (217, 34633), (218, 34630), (236, 34543), (251, 34513), (261, 34501), (269, 34492), (287, 34444), (321, 34240), (341, 34138), (345, 34120), (373, 33979), (376, 33952), (407, 33808), (408, 33805), (416, 33775), (430, 33712), (441, 33679), (443, 33670), (447, 33649), (461, 33601), (477, 33535),

Gene: NothingSpecial_49 Start: 36276, Stop: 34228, Start Num: 48
Candidate Starts for NothingSpecial_49:
(Start: 48 @36276 has 546 MA's), (Start: 73 @36165 has 4 MA's), (Start: 88 @36090 has 3 MA's), (Start: 97 @36039 has 1 MA's), (102, 36006), (114, 35958), (116, 35949), (125, 35889), (126, 35886), (141, 35829), (172, 35673), (182, 35595), (207, 35529), (212, 35499), (213, 35496), (214, 35484), (216, 35466), (217, 35460), (218, 35457), (236, 35370), (278, 35283), (291, 35235), (298, 35193), (321, 35055), (327, 35019), (333, 34995), (356, 34881), (370, 34809), (382, 34710), (397, 34665), (408, 34614), (410, 34611), (418, 34575), (430, 34521), (447, 34458), (461, 34410),

Gene: Nova53_35 Start: 17123, Stop: 19084, Start Num: 63
Candidate Starts for Nova53_35:
(Start: 63 @17123 has 3 MA's), (Start: 64 @17126 has 81 MA's), (77, 17195), (90, 17255), (95, 17288), (98, 17306), (Start: 104 @17336 has 2 MA's), (108, 17345), (110, 17354), (111, 17363), (112, 17366), (130, 17465), (132, 17471), (143, 17513), (172, 17654), (186, 17747), (210, 17807), (213, 17831), (221, 17891), (232, 17942), (245, 17993), (290, 18050), (301, 18137), (317, 18215), (339, 18326), (341, 18335), (356, 18392), (370, 18464), (389, 18599), (394, 18608), (417, 18713), (445, 18821), (453, 18860), (473, 18929), (476, 18941), (480, 18962), (490, 19013),

Gene: Nyxis_50 Start: 35338, Stop: 33305, Start Num: 48
Candidate Starts for Nyxis_50:
(Start: 48 @35338 has 546 MA's), (68, 35275), (Start: 73 @35227 has 4 MA's), (78, 35203), (92, 35137), (Start: 97 @35101 has 1 MA's), (102, 35068), (114, 35020), (116, 35011), (125, 34954), (134, 34927), (141, 34894), (172, 34738), (173, 34729), (182, 34660), (207, 34588), (212, 34558), (213, 34555), (216, 34525), (217, 34519), (218, 34516), (236, 34429), (247, 34405), (251, 34399), (261, 34387), (269, 34378), (287, 34330), (321, 34126), (341, 34024), (345, 34006), (373, 33865), (376, 33838), (407, 33694), (408, 33691), (416, 33661), (430, 33598), (441, 33565), (443, 33556), (447, 33535), (461, 33487), (477, 33421),

Gene: OKCentral2016_48 Start: 34898, Stop: 32817, Start Num: 35
Candidate Starts for OKCentral2016_48:

(Start: 35 @34898 has 17 MA's), (Start: 73 @34757 has 4 MA's), (74, 34754), (78, 34733), (Start: 97 @34631 has 1 MA's), (102, 34598), (114, 34550), (116, 34541), (125, 34484), (141, 34424), (148, 34409), (159, 34328), (172, 34268), (182, 34190), (185, 34178), (206, 34127), (207, 34118), (212, 34088), (216, 34055), (217, 34049), (218, 34046), (273, 33881), (280, 33863), (291, 33818), (298, 33776), (321, 33638), (341, 33536), (345, 33518), (355, 33467), (356, 33464), (369, 33398), (370, 33392), (373, 33377), (376, 33350), (378, 33341), (384, 33281), (407, 33206), (408, 33203), (410, 33200), (419, 33161), (430, 33110), (432, 33104), (447, 33047), (477, 32933), (488, 32876),

Gene: OKaNui_50 Start: 35498, Stop: 33465, Start Num: 48
Candidate Starts for OKaNui_50:
(Start: 48 @35498 has 546 MA's), (68, 35435), (Start: 73 @35387 has 4 MA's), (78, 35363), (92, 35297), (Start: 97 @35261 has 1 MA's), (102, 35228), (114, 35180), (116, 35171), (125, 35114), (134, 35087), (141, 35054), (172, 34898), (173, 34889), (182, 34820), (207, 34748), (212, 34718), (213, 34715), (216, 34685), (217, 34679), (218, 34676), (236, 34589), (251, 34559), (261, 34547), (269, 34538), (287, 34490), (321, 34286), (341, 34184), (345, 34166), (373, 34025), (376, 33998), (407, 33854), (408, 33851), (416, 33821), (430, 33758), (441, 33725), (443, 33716), (447, 33695), (461, 33647), (477, 33581),

Gene: Obama12_51 Start: 35868, Stop: 33835, Start Num: 48
Candidate Starts for Obama12_51:
(Start: 48 @35868 has 546 MA's), (68, 35805), (Start: 73 @35757 has 4 MA's), (78, 35733), (92, 35667), (Start: 97 @35631 has 1 MA's), (102, 35598), (114, 35550), (116, 35541), (125, 35484), (134, 35457), (141, 35424), (172, 35268), (173, 35259), (182, 35190), (207, 35118), (212, 35088), (213, 35085), (216, 35055), (217, 35049), (218, 35046), (236, 34959), (251, 34929), (261, 34917), (269, 34908), (287, 34860), (321, 34656), (341, 34554), (345, 34536), (373, 34395), (376, 34368), (407, 34224), (408, 34221), (416, 34191), (430, 34128), (441, 34095), (443, 34086), (447, 34065), (461, 34017), (477, 33951),

Gene: Odin_50 Start: 34570, Stop: 32531, Start Num: 37
Candidate Starts for Odin_50:
(36, 34573), (Start: 37 @34570 has 1 MA's), (49, 34546), (102, 34279), (114, 34231), (116, 34222), (125, 34162), (141, 34102), (172, 33946), (177, 33898), (182, 33868), (185, 33856), (188, 33847), (206, 33811), (207, 33802), (212, 33772), (213, 33769), (216, 33739), (217, 33733), (218, 33730), (234, 33649), (251, 33619), (278, 33586), (280, 33583), (291, 33538), (308, 33412), (321, 33358), (333, 33298), (338, 33271), (341, 33256), (356, 33184), (358, 33175), (370, 33112), (374, 33079), (376, 33070), (386, 32989), (418, 32878), (420, 32869), (430, 32824), (447, 32761), (467, 32695),

Gene: Ohfah_51 Start: 35448, Stop: 33415, Start Num: 48
Candidate Starts for Ohfah_51:
(Start: 48 @35448 has 546 MA's), (68, 35385), (Start: 73 @35337 has 4 MA's), (78, 35313), (92, 35247), (Start: 97 @35211 has 1 MA's), (102, 35178), (114, 35130), (116, 35121), (125, 35064), (134, 35037), (141, 35004), (172, 34848), (173, 34839), (182, 34770), (207, 34698), (212, 34668), (213, 34665), (216, 34635), (217, 34629), (218, 34626), (236, 34539), (251, 34509), (261, 34497), (269, 34488), (287, 34440), (321, 34236), (341, 34134), (345, 34116), (373, 33975), (376, 33948), (407, 33804), (408, 33801), (416, 33771), (430, 33708), (441, 33675), (443, 33666), (447, 33645), (461, 33597), (477, 33531),

Gene: OlanP_53 Start: 35969, Stop: 33954, Start Num: 55
Candidate Starts for OlanP_53:
(Start: 55 @35969 has 103 MA's), (Start: 71 @35876 has 1 MA's), (Start: 73 @35867 has 4 MA's), (78, 35843), (Start: 88 @35792 has 3 MA's), (Start: 97 @35741 has 1 MA's), (114, 35660), (116, 35651), (125, 35594), (141, 35534), (156, 35474), (159, 35438), (172, 35378), (173, 35369), (182, 35300), (185, 35288), (207, 35228), (212, 35198), (213, 35195), (214, 35183), (216, 35165), (217, 35159),

(218, 35156), (225, 35123), (261, 35021), (287, 34991), (312, 34820), (323, 34769), (327, 34748), (333, 34724), (341, 34682), (345, 34664), (355, 34616), (369, 34547), (370, 34541), (376, 34499), (383, 34436), (384, 34430), (391, 34406), (418, 34301), (436, 34232), (441, 34214), (443, 34205), (447, 34184), (470, 34106), (477, 34070), (490, 34007),

Gene: Oliynyk_48 Start: 31960, Stop: 34050, Start Num: 48
Candidate Starts for Oliynyk_48:
(15, 31876), (17, 31882), (31, 31918), (34, 31924), (Start: 48 @31960 has 546 MA's), (78, 32101), (79, 32116), (82, 32137), (Start: 88 @32170 has 3 MA's), (90, 32176), (Start: 97 @32221 has 1 MA's), (114, 32302), (116, 32311), (131, 32389), (134, 32398), (141, 32431), (158, 32524), (163, 32548), (172, 32590), (182, 32668), (183, 32671), (207, 32758), (216, 32821), (218, 32830), (283, 32995), (287, 33007), (309, 33166), (321, 33217), (323, 33232), (327, 33253), (341, 33319), (370, 33463), (371, 33469), (373, 33478), (378, 33514), (382, 33562), (384, 33574), (395, 33601), (398, 33613), (407, 33667), (420, 33718), (426, 33739), (436, 33772), (441, 33790), (447, 33820), (450, 33832), (457, 33859), (473, 33919), (486, 33988), (488, 33991), (495, 34042),

Gene: Ollie_54 Start: 35777, Stop: 33759, Start Num: 55
Candidate Starts for Ollie_54:
(Start: 55 @35777 has 103 MA's), (Start: 71 @35684 has 1 MA's), (Start: 73 @35675 has 4 MA's), (78, 35651), (Start: 88 @35600 has 3 MA's), (Start: 97 @35549 has 1 MA's), (114, 35468), (116, 35459), (141, 35339), (156, 35279), (159, 35243), (172, 35183), (182, 35105), (185, 35093), (207, 35033), (212, 35003), (216, 34970), (217, 34964), (218, 34961), (234, 34880), (242, 34850), (287, 34796), (312, 34625), (333, 34529), (341, 34487), (345, 34469), (355, 34421), (358, 34409), (369, 34352), (370, 34346), (373, 34331), (376, 34304), (383, 34241), (384, 34235), (391, 34211), (418, 34106), (436, 34037), (441, 34019), (443, 34010), (447, 33989), (470, 33911), (477, 33875), (490, 33812),

Gene: Omar_50 Start: 33134, Stop: 35209, Start Num: 48
Candidate Starts for Omar_50:
(41, 33116), (Start: 48 @33134 has 546 MA's), (79, 33290), (Start: 88 @33344 has 3 MA's), (90, 33350), (114, 33476), (116, 33485), (131, 33563), (136, 33584), (141, 33605), (163, 33722), (172, 33764), (173, 33773), (182, 33842), (183, 33845), (207, 33917), (216, 33980), (268, 34142), (287, 34166), (321, 34376), (323, 34391), (327, 34412), (335, 34439), (341, 34478), (373, 34637), (378, 34673), (384, 34733), (395, 34760), (398, 34772), (407, 34826), (426, 34898), (436, 34931), (441, 34949), (447, 34979), (450, 34991), (473, 35078), (486, 35147), (495, 35201),

Gene: Onglai_50 Start: 34011, Stop: 31972, Start Num: 48
Candidate Starts for Onglai_50:
(Start: 48 @34011 has 546 MA's), (Start: 73 @33897 has 4 MA's), (75, 33882), (78, 33873), (Start: 97 @33771 has 1 MA's), (116, 33681), (125, 33621), (126, 33618), (141, 33561), (171, 33414), (172, 33405), (182, 33327), (185, 33315), (207, 33261), (212, 33231), (214, 33216), (216, 33198), (217, 33192), (218, 33189), (280, 33024), (291, 32979), (321, 32799), (341, 32697), (356, 32625), (374, 32520), (376, 32511), (408, 32358), (416, 32328), (430, 32265), (447, 32202),

Gene: Oofda_56 Start: 34813, Stop: 32756, Start Num: 42
Candidate Starts for Oofda_56:
(Start: 42 @34813 has 25 MA's), (Start: 73 @34690 has 4 MA's), (87, 34618), (Start: 88 @34615 has 3 MA's), (114, 34483), (116, 34474), (141, 34354), (160, 34252), (173, 34189), (177, 34150), (182, 34120), (207, 34054), (212, 34024), (216, 33991), (217, 33985), (218, 33982), (278, 33814), (283, 33802), (291, 33766), (320, 33589), (321, 33586), (327, 33550), (349, 33445), (351, 33433), (369, 33346), (370, 33340), (376, 33298), (426, 33067), (447, 32986), (464, 32926), (470, 32908), (488, 32815), (491, 32797),

Gene: Orange_51 Start: 34856, Stop: 32832, Start Num: 52

Candidate Starts for Orange_51:
(28, 34907), (43, 34874), (Start: 52 @34856 has 24 MA's), (Start: 73 @34748 has 4 MA's), (Start: 88 @34673 has 3 MA's), (114, 34541), (116, 34532), (141, 34412), (172, 34256), (177, 34208), (181, 34181), (182, 34178), (185, 34166), (201, 34133), (207, 34112), (214, 34067), (216, 34049), (217, 34043), (218, 34040), (278, 33890), (291, 33842), (294, 33827), (321, 33662), (341, 33560), (345, 33542), (360, 33470), (370, 33416), (373, 33401), (374, 33383), (391, 33284), (408, 33221), (418, 33182), (441, 33092), (447, 33062), (461, 33014),

Gene: Ozzie_46 Start: 31771, Stop: 33861, Start Num: 48
Candidate Starts for Ozzie_46:
(Start: 48 @31771 has 546 MA's), (78, 31912), (79, 31927), (82, 31948), (Start: 88 @31981 has 3 MA's), (90, 31987), (Start: 97 @32032 has 1 MA's), (114, 32113), (116, 32122), (131, 32200), (134, 32209), (141, 32242), (158, 32335), (163, 32359), (172, 32401), (182, 32479), (183, 32482), (207, 32569), (216, 32632), (218, 32641), (283, 32806), (287, 32818), (305, 32950), (309, 32977), (321, 33028), (323, 33043), (327, 33064), (341, 33130), (370, 33274), (371, 33280), (373, 33289), (378, 33325), (384, 33385), (395, 33412), (398, 33424), (408, 33481), (410, 33484), (420, 33529), (426, 33550), (436, 33583), (441, 33601), (447, 33631), (450, 33643), (457, 33670), (473, 33730), (486, 33799), (488, 33802), (495, 33853),

Gene: OzzyJ_48 Start: 31992, Stop: 34082, Start Num: 48
Candidate Starts for OzzyJ_48:
(16, 31911), (Start: 48 @31992 has 546 MA's), (Start: 61 @32037 has 1 MA's), (79, 32148), (82, 32169), (Start: 88 @32202 has 3 MA's), (90, 32208), (Start: 97 @32253 has 1 MA's), (114, 32334), (116, 32343), (131, 32421), (141, 32463), (156, 32523), (158, 32556), (163, 32580), (172, 32622), (173, 32631), (182, 32700), (183, 32703), (207, 32790), (216, 32853), (218, 32862), (229, 32913), (248, 32982), (283, 33027), (287, 33039), (305, 33171), (318, 33228), (321, 33249), (323, 33264), (327, 33285), (338, 33336), (346, 33372), (347, 33378), (358, 33432), (370, 33495), (371, 33501), (378, 33546), (384, 33606), (395, 33633), (398, 33645), (407, 33699), (410, 33705), (420, 33750), (426, 33771), (436, 33804), (441, 33822), (447, 33852), (450, 33864), (457, 33891), (473, 33951), (488, 34023),

Gene: P28Green_55 Start: 35909, Stop: 33891, Start Num: 55
Candidate Starts for P28Green_55:
(Start: 55 @35909 has 103 MA's), (Start: 71 @35816 has 1 MA's), (Start: 73 @35807 has 4 MA's), (78, 35783), (Start: 88 @35732 has 3 MA's), (Start: 97 @35681 has 1 MA's), (114, 35600), (116, 35591), (141, 35471), (156, 35411), (159, 35375), (172, 35315), (182, 35237), (207, 35165), (212, 35135), (216, 35102), (217, 35096), (218, 35093), (234, 35012), (242, 34982), (287, 34928), (312, 34757), (333, 34661), (341, 34619), (345, 34601), (355, 34553), (358, 34541), (369, 34484), (370, 34478), (373, 34463), (376, 34436), (383, 34373), (384, 34367), (391, 34343), (418, 34238), (436, 34169), (441, 34151), (443, 34142), (447, 34121), (470, 34043), (477, 34007), (490, 33944),

Gene: PGHhamlin_56 Start: 35898, Stop: 33880, Start Num: 55
Candidate Starts for PGHhamlin_56:
(Start: 55 @35898 has 103 MA's), (Start: 73 @35796 has 4 MA's), (78, 35772), (Start: 88 @35721 has 3 MA's), (Start: 97 @35670 has 1 MA's), (114, 35589), (116, 35580), (141, 35460), (156, 35400), (159, 35364), (172, 35304), (182, 35226), (207, 35154), (212, 35124), (216, 35091), (217, 35085), (218, 35082), (234, 35001), (242, 34971), (287, 34917), (312, 34746), (333, 34650), (341, 34608), (345, 34590), (355, 34542), (358, 34530), (369, 34473), (370, 34467), (373, 34452), (376, 34425), (383, 34362), (384, 34356), (391, 34332), (418, 34227), (436, 34158), (441, 34140), (443, 34131), (447, 34110), (470, 34032), (477, 33996), (490, 33933),

Gene: PP_52 Start: 39052, Stop: 36992, Start Num: 45
Candidate Starts for PP_52:

(Start: 45 @39052 has 1 MA's), (Start: 97 @38812 has 1 MA's), (102, 38779), (114, 38731), (116, 38722), (121, 38680), (141, 38602), (148, 38587), (159, 38506), (182, 38368), (204, 38305), (207, 38287), (212, 38257), (214, 38242), (216, 38224), (217, 38218), (218, 38215), (287, 38029), (298, 37963), (299, 37960), (321, 37825), (327, 37789), (345, 37705), (355, 37654), (369, 37585), (370, 37579), (395, 37438), (410, 37375), (441, 37252), (443, 37243), (447, 37222), (461, 37174), (472, 37126),

Gene: Pablito_48 Start: 32672, Stop: 34777, Start Num: 48
Candidate Starts for Pablito_48:
(Start: 48 @32672 has 546 MA's), (79, 32828), (80, 32834), (Start: 88 @32882 has 3 MA's), (90, 32888), (Start: 97 @32933 has 1 MA's), (114, 33014), (116, 33023), (133, 33107), (134, 33110), (136, 33122), (141, 33143), (163, 33260), (168, 33275), (172, 33302), (182, 33380), (207, 33470), (212, 33500), (213, 33503), (216, 33533), (268, 33698), (278, 33710), (287, 33734), (321, 33944), (327, 33980), (341, 34046), (370, 34190), (371, 34196), (373, 34205), (378, 34241), (381, 34280), (384, 34301), (395, 34328), (398, 34340), (403, 34370), (407, 34394), (436, 34499), (441, 34517), (450, 34559), (473, 34646), (486, 34715),

Gene: PacManQ_42 Start: 19022, Stop: 20965, Start Num: 64
Candidate Starts for PacManQ_42:
(Start: 64 @19022 has 81 MA's), (Start: 67 @19028 has 1 MA's), (83, 19130), (86, 19151), (90, 19160), (93, 19172), (108, 19250), (110, 19259), (111, 19268), (112, 19271), (132, 19376), (156, 19475), (204, 19685), (239, 19886), (245, 19898), (314, 20111), (336, 20216), (345, 20258), (348, 20276), (379, 20432), (401, 20540), (439, 20711), (448, 20750), (476, 20849),

Gene: PackMan_50 Start: 35670, Stop: 33631, Start Num: 48
Candidate Starts for PackMan_50:
(Start: 48 @35670 has 546 MA's), (Start: 73 @35556 has 4 MA's), (75, 35541), (78, 35532), (Start: 97 @35430 has 1 MA's), (116, 35340), (125, 35280), (141, 35220), (171, 35073), (172, 35064), (182, 34986), (185, 34974), (206, 34929), (207, 34920), (212, 34890), (214, 34875), (216, 34857), (217, 34851), (218, 34848), (280, 34683), (288, 34659), (291, 34638), (321, 34458), (343, 34344), (356, 34284), (374, 34179), (376, 34170), (408, 34017), (416, 33987), (430, 33924), (447, 33861),

Gene: Paedore_48 Start: 33250, Stop: 35346, Start Num: 48
Candidate Starts for Paedore_48:
(Start: 48 @33250 has 546 MA's), (Start: 88 @33451 has 3 MA's), (114, 33583), (116, 33592), (133, 33676), (134, 33679), (136, 33691), (141, 33712), (163, 33829), (168, 33844), (172, 33871), (173, 33880), (182, 33949), (207, 34039), (212, 34069), (213, 34072), (216, 34102), (268, 34267), (277, 34276), (287, 34303), (296, 34360), (298, 34369), (302, 34423), (305, 34435), (309, 34462), (321, 34513), (327, 34549), (335, 34576), (341, 34615), (370, 34759), (371, 34765), (373, 34774), (378, 34810), (382, 34858), (384, 34870), (388, 34888), (396, 34900), (410, 34969), (420, 35014), (426, 35035), (436, 35068), (441, 35086), (473, 35215), (486, 35284),

Gene: PainterBoy_52 Start: 35473, Stop: 33431, Start Num: 48
Candidate Starts for PainterBoy_52:
(Start: 48 @35473 has 546 MA's), (87, 35290), (114, 35155), (116, 35146), (117, 35131), (125, 35086), (126, 35083), (141, 35026), (172, 34870), (182, 34792), (207, 34726), (212, 34696), (213, 34693), (216, 34663), (217, 34657), (218, 34654), (257, 34531), (278, 34489), (291, 34441), (294, 34426), (298, 34399), (321, 34261), (327, 34225), (333, 34201), (343, 34147), (355, 34090), (356, 34087), (358, 34078), (367, 34033), (370, 34015), (374, 33982), (376, 33973), (408, 33820), (416, 33790), (430, 33724), (447, 33661),

Gene: Palestino_49 Start: 35448, Stop: 33415, Start Num: 48
Candidate Starts for Palestino_49:

(Start: 48 @35448 has 546 MA's), (68, 35385), (Start: 73 @35337 has 4 MA's), (78, 35313), (92, 35247), (Start: 97 @35211 has 1 MA's), (102, 35178), (114, 35130), (116, 35121), (125, 35064), (134, 35037), (141, 35004), (172, 34848), (173, 34839), (182, 34770), (207, 34698), (212, 34668), (213, 34665), (216, 34635), (217, 34629), (218, 34626), (236, 34539), (251, 34509), (261, 34497), (269, 34488), (287, 34440), (321, 34236), (341, 34134), (345, 34116), (373, 33975), (376, 33948), (407, 33804), (408, 33801), (416, 33771), (430, 33708), (441, 33675), (443, 33666), (447, 33645), (461, 33597), (477, 33531),

Gene: Panamaxus_48 Start: 35710, Stop: 33692, Start Num: 55
Candidate Starts for Panamaxus_48:
(Start: 55 @35710 has 103 MA's), (Start: 71 @35617 has 1 MA's), (Start: 73 @35608 has 4 MA's), (77, 35587), (92, 35518), (Start: 97 @35482 has 1 MA's), (102, 35449), (114, 35401), (116, 35392), (141, 35275), (159, 35179), (172, 35119), (179, 35050), (182, 35041), (185, 35029), (207, 34969), (212, 34939), (213, 34936), (214, 34924), (216, 34906), (217, 34900), (218, 34897), (239, 34792), (242, 34786), (287, 34729), (321, 34525), (333, 34465), (341, 34423), (345, 34405), (358, 34342), (370, 34279), (373, 34264), (376, 34237), (385, 34165), (408, 34078), (419, 34036), (443, 33943), (447, 33922), (477, 33808),

Gene: Paolo_50 Start: 33437, Stop: 35551, Start Num: 48
Candidate Starts for Paolo_50:
(Start: 48 @33437 has 546 MA's), (82, 33605), (Start: 88 @33638 has 3 MA's), (Start: 97 @33689 has 1 MA's), (114, 33770), (116, 33779), (127, 33848), (134, 33866), (136, 33878), (141, 33899), (163, 34016), (172, 34058), (182, 34136), (207, 34244), (216, 34307), (268, 34472), (277, 34481), (287, 34508), (321, 34718), (327, 34754), (333, 34778), (335, 34781), (341, 34820), (370, 34964), (373, 34979), (378, 35015), (384, 35075), (388, 35093), (395, 35102), (398, 35114), (402, 35132), (403, 35144), (407, 35168), (413, 35189), (436, 35273), (441, 35291), (450, 35333), (466, 35384), (473, 35420), (486, 35489), (495, 35543),

Gene: Paradiddles_38 Start: 17470, Stop: 19422, Start Num: 64
Candidate Starts for Paradiddles_38:
(Start: 64 @17470 has 81 MA's), (Start: 67 @17476 has 1 MA's), (83, 17578), (86, 17599), (90, 17608), (108, 17698), (110, 17707), (111, 17716), (112, 17719), (132, 17824), (204, 18133), (221, 18244), (239, 18334), (245, 18346), (314, 18559), (345, 18706), (362, 18769), (377, 18862), (379, 18880), (401, 18988), (439, 19159), (448, 19198), (476, 19297),

Gene: Park1214_144 Start: 77842, Stop: 79449, Start Num: 104
Candidate Starts for Park1214_144:
(Start: 104 @77842 has 2 MA's), (107, 77851), (122, 77944), (137, 78007), (154, 78073), (156, 78079), (159, 78112), (161, 78121), (164, 78133), (165, 78136), (176, 78202), (180, 78235), (205, 78268), (216, 78340), (217, 78346), (221, 78367), (224, 78376), (230, 78409), (231, 78415), (261, 78481), (278, 78502), (287, 78526), (315, 78682), (320, 78700), (338, 78793), (340, 78802), (393, 79072), (395, 79075), (424, 79198), (433, 79228), (440, 79249), (447, 79282), (454, 79315), (468, 79354), (479, 79417), (483, 79435),

Gene: Patelgo_21 Start: 7794, Stop: 9737, Start Num: 65
Candidate Starts for Patelgo_21:
(62, 7785), (Start: 65 @7794 has 29 MA's), (Start: 73 @7851 has 4 MA's), (90, 7932), (110, 8031), (112, 8043), (132, 8148), (204, 8454), (339, 9000), (344, 9024), (345, 9027), (364, 9096), (379, 9201), (401, 9309), (421, 9411), (474, 9609), (480, 9642), (493, 9717),

Gene: Pavo_48 Start: 33482, Stop: 35545, Start Num: 48
Candidate Starts for Pavo_48:

(12, 33380), (13, 33386), (Start: 27 @33431 has 1 MA's), (Start: 48 @33482 has 546 MA's), (Start: 61 @33521 has 1 MA's), (Start: 71 @33584 has 1 MA's), (Start: 73 @33593 has 4 MA's), (81, 33644), (82, 33650), (Start: 88 @33683 has 3 MA's), (Start: 97 @33734 has 1 MA's), (116, 33824), (117, 33839), (134, 33911), (141, 33944), (163, 34061), (172, 34103), (182, 34181), (183, 34184), (187, 34205), (207, 34271), (216, 34334), (218, 34343), (234, 34424), (278, 34484), (287, 34508), (318, 34697), (327, 34754), (354, 34877), (376, 35003), (378, 35012), (402, 35129), (403, 35141), (407, 35165), (408, 35168), (420, 35216), (436, 35270), (441, 35288), (447, 35318), (463, 35372), (471, 35396), (473, 35414), (490, 35492),

Gene: Pawn_54 Start: 35800, Stop: 33785, Start Num: 55
Candidate Starts for Pawn_54:
(Start: 55 @35800 has 103 MA's), (Start: 71 @35707 has 1 MA's), (Start: 73 @35698 has 4 MA's), (78, 35674), (Start: 88 @35623 has 3 MA's), (Start: 97 @35572 has 1 MA's), (114, 35491), (116, 35482), (125, 35425), (141, 35365), (156, 35305), (159, 35269), (172, 35209), (173, 35200), (182, 35131), (185, 35119), (207, 35059), (212, 35029), (213, 35026), (214, 35014), (216, 34996), (217, 34990), (218, 34987), (225, 34954), (261, 34852), (287, 34822), (312, 34651), (323, 34600), (327, 34579), (333, 34555), (341, 34513), (345, 34495), (355, 34447), (370, 34372), (376, 34330), (383, 34267), (384, 34261), (391, 34237), (418, 34132), (436, 34063), (441, 34045), (443, 34036), (447, 34015), (470, 33937), (477, 33901), (490, 33838),

Gene: PeaceMeal1_47 Start: 34408, Stop: 32369, Start Num: 35
Candidate Starts for PeaceMeal1_47:
(Start: 35 @34408 has 17 MA's), (78, 34273), (Start: 97 @34171 has 1 MA's), (102, 34138), (114, 34090), (116, 34081), (125, 34024), (141, 33964), (148, 33949), (172, 33808), (182, 33730), (185, 33718), (207, 33658), (212, 33628), (216, 33595), (217, 33589), (218, 33586), (225, 33553), (278, 33418), (287, 33394), (321, 33190), (341, 33088), (345, 33070), (355, 33019), (369, 32950), (370, 32944), (376, 32902), (378, 32893), (384, 32833), (407, 32758), (408, 32755), (410, 32752), (419, 32713), (430, 32662), (432, 32656), (447, 32599), (477, 32485), (488, 32428),

Gene: Peaches_50 Start: 35447, Stop: 33414, Start Num: 48
Candidate Starts for Peaches_50:
(Start: 48 @35447 has 546 MA's), (68, 35384), (Start: 73 @35336 has 4 MA's), (78, 35312), (92, 35246), (Start: 97 @35210 has 1 MA's), (102, 35177), (114, 35129), (116, 35120), (125, 35063), (134, 35036), (141, 35003), (172, 34847), (173, 34838), (182, 34769), (207, 34697), (212, 34667), (213, 34664), (216, 34634), (217, 34628), (218, 34625), (236, 34538), (247, 34514), (251, 34508), (261, 34496), (269, 34487), (287, 34439), (321, 34235), (341, 34133), (345, 34115), (373, 33974), (376, 33947), (407, 33803), (408, 33800), (416, 33770), (430, 33707), (441, 33674), (443, 33665), (447, 33644), (461, 33596), (477, 33530),

Gene: Peebs_42 Start: 19379, Stop: 21322, Start Num: 64
Candidate Starts for Peebs_42:
(Start: 52 @19334 has 24 MA's), (Start: 55 @19343 has 103 MA's), (Start: 64 @19379 has 81 MA's), (Start: 67 @19385 has 1 MA's), (83, 19487), (86, 19508), (90, 19517), (108, 19607), (110, 19616), (111, 19625), (112, 19628), (132, 19733), (204, 20042), (239, 20243), (245, 20255), (314, 20468), (317, 20477), (336, 20573), (345, 20615), (348, 20633), (379, 20789), (401, 20897), (439, 21068), (448, 21107), (476, 21206), (493, 21305),

Gene: Pembroke_54 Start: 35907, Stop: 33889, Start Num: 55
Candidate Starts for Pembroke_54:
(Start: 55 @35907 has 103 MA's), (Start: 73 @35805 has 4 MA's), (78, 35781), (Start: 88 @35730 has 3 MA's), (Start: 97 @35679 has 1 MA's), (114, 35598), (116, 35589), (141, 35469), (156, 35409), (159, 35373), (172, 35313), (182, 35235), (207, 35163), (212, 35133), (216, 35100), (217, 35094), (218, 35091), (234, 35010), (242, 34980), (287, 34926), (312, 34755), (333, 34659), (341, 34617), (345,

34599), (355, 34551), (358, 34539), (369, 34482), (370, 34476), (373, 34461), (376, 34434), (383, 34371), (384, 34365), (391, 34341), (418, 34236), (436, 34167), (441, 34149), (443, 34140), (447, 34119), (470, 34041), (477, 34005), (490, 33942),

Gene: Penny1_55 Start: 35910, Stop: 33892, Start Num: 55
Candidate Starts for Penny1_55:
(Start: 55 @35910 has 103 MA's), (Start: 71 @35817 has 1 MA's), (Start: 73 @35808 has 4 MA's), (78, 35784), (Start: 88 @35733 has 3 MA's), (Start: 97 @35682 has 1 MA's), (114, 35601), (116, 35592), (141, 35472), (156, 35412), (159, 35376), (172, 35316), (182, 35238), (207, 35166), (212, 35136), (216, 35103), (217, 35097), (218, 35094), (234, 35013), (242, 34983), (287, 34929), (312, 34758), (333, 34662), (341, 34620), (345, 34602), (355, 34554), (358, 34542), (369, 34485), (370, 34479), (373, 34464), (376, 34437), (383, 34374), (384, 34368), (391, 34344), (418, 34239), (436, 34170), (441, 34152), (443, 34143), (447, 34122), (470, 34044), (477, 34008), (490, 33945),

Gene: Pepperwood_43 Start: 19516, Stop: 21459, Start Num: 64
Candidate Starts for Pepperwood_43:
(Start: 52 @19471 has 24 MA's), (Start: 55 @19480 has 103 MA's), (Start: 64 @19516 has 81 MA's), (Start: 67 @19522 has 1 MA's), (83, 19624), (86, 19645), (90, 19654), (108, 19744), (110, 19753), (111, 19762), (112, 19765), (132, 19870), (153, 19960), (204, 20179), (239, 20380), (245, 20392), (314, 20605), (317, 20614), (336, 20710), (345, 20752), (348, 20770), (379, 20926), (401, 21034), (439, 21205), (442, 21211), (448, 21244), (476, 21343),

Gene: Perplexer_49 Start: 35406, Stop: 33388, Start Num: 48
Candidate Starts for Perplexer_49:
(Start: 48 @35406 has 546 MA's), (Start: 73 @35295 has 4 MA's), (92, 35205), (Start: 97 @35169 has 1 MA's), (102, 35136), (114, 35088), (116, 35079), (125, 35019), (141, 34959), (172, 34803), (173, 34794), (182, 34725), (185, 34713), (205, 34662), (207, 34653), (212, 34623), (213, 34620), (216, 34590), (217, 34584), (218, 34581), (255, 34461), (278, 34437), (287, 34413), (321, 34209), (341, 34107), (345, 34089), (355, 34038), (369, 33969), (373, 33948), (376, 33921), (407, 33777), (408, 33774), (416, 33744), (426, 33699), (441, 33648), (443, 33639), (447, 33618), (477, 33504), (488, 33447),

Gene: Persimmon_38 Start: 17393, Stop: 19336, Start Num: 64
Candidate Starts for Persimmon_38:
(Start: 64 @17393 has 81 MA's), (Start: 67 @17399 has 1 MA's), (83, 17501), (86, 17522), (90, 17531), (108, 17621), (110, 17630), (111, 17639), (112, 17642), (132, 17747), (204, 18056), (221, 18167), (239, 18257), (245, 18269), (314, 18482), (345, 18629), (362, 18692), (379, 18803), (401, 18911), (439, 19082), (448, 19121), (476, 19220),

Gene: PeterPeter_50 Start: 35445, Stop: 33412, Start Num: 48
Candidate Starts for PeterPeter_50:
(Start: 48 @35445 has 546 MA's), (68, 35382), (Start: 73 @35334 has 4 MA's), (78, 35310), (92, 35244), (Start: 97 @35208 has 1 MA's), (102, 35175), (114, 35127), (116, 35118), (125, 35061), (134, 35034), (141, 35001), (172, 34845), (173, 34836), (182, 34767), (207, 34695), (212, 34665), (213, 34662), (216, 34632), (217, 34626), (218, 34623), (236, 34536), (251, 34506), (261, 34494), (269, 34485), (287, 34437), (321, 34233), (341, 34131), (345, 34113), (373, 33972), (376, 33945), (407, 33801), (408, 33798), (416, 33768), (430, 33705), (441, 33672), (443, 33663), (447, 33642), (461, 33594), (477, 33528),

Gene: Petersenfast_51 Start: 34855, Stop: 32834, Start Num: 52
Candidate Starts for Petersenfast_51:
(28, 34906), (43, 34873), (Start: 52 @34855 has 24 MA's), (Start: 73 @34747 has 4 MA's), (Start: 88 @34672 has 3 MA's), (114, 34540), (116, 34531), (141, 34411), (172, 34255), (177, 34207), (181,

34180), (182, 34177), (185, 34165), (201, 34132), (207, 34111), (214, 34066), (216, 34048), (217, 34042), (218, 34039), (257, 33919), (291, 33844), (294, 33829), (321, 33664), (333, 33604), (341, 33562), (345, 33544), (360, 33472), (370, 33418), (373, 33403), (374, 33385), (391, 33286), (408, 33223), (418, 33184), (427, 33136), (441, 33094), (447, 33064), (461, 33016),

Gene: PetiteSangsue_49 Start: 35409, Stop: 33391, Start Num: 48
Candidate Starts for PetiteSangsue_49:
(Start: 48 @35409 has 546 MA's), (Start: 73 @35298 has 4 MA's), (92, 35208), (Start: 97 @35172 has 1 MA's), (102, 35139), (114, 35091), (116, 35082), (125, 35022), (141, 34962), (172, 34806), (173, 34797), (182, 34728), (185, 34716), (205, 34665), (207, 34656), (212, 34626), (213, 34623), (216, 34593), (217, 34587), (218, 34584), (255, 34464), (278, 34440), (287, 34416), (321, 34212), (341, 34110), (345, 34092), (355, 34041), (369, 33972), (373, 33951), (376, 33924), (407, 33780), (408, 33777), (416, 33747), (426, 33702), (441, 33651), (443, 33642), (447, 33621), (477, 33507), (488, 33450),

Gene: PetterN_47 Start: 34359, Stop: 32269, Start Num: 48
Candidate Starts for PetterN_47:
(Start: 48 @34359 has 546 MA's), (Start: 88 @34173 has 3 MA's), (Start: 97 @34122 has 1 MA's), (102, 34089), (114, 34041), (116, 34032), (121, 33990), (149, 33894), (155, 33855), (160, 33810), (171, 33765), (172, 33756), (178, 33693), (179, 33687), (182, 33678), (203, 33624), (207, 33606), (212, 33576), (213, 33573), (214, 33561), (216, 33543), (217, 33537), (218, 33534), (242, 33423), (291, 33282), (298, 33240), (319, 33120), (320, 33105), (323, 33087), (334, 33039), (341, 33000), (355, 32931), (367, 32874), (369, 32862), (370, 32856), (376, 32814), (378, 32805), (391, 32724), (416, 32625), (425, 32583), (436, 32547), (441, 32529), (443, 32520), (491, 32310),

Gene: Ph8s_53 Start: 35117, Stop: 33099, Start Num: 48
Candidate Starts for Ph8s_53:
(Start: 48 @35117 has 546 MA's), (Start: 71 @35015 has 1 MA's), (Start: 73 @35006 has 4 MA's), (Start: 88 @34931 has 3 MA's), (114, 34799), (116, 34790), (125, 34730), (141, 34670), (158, 34577), (160, 34568), (172, 34514), (177, 34466), (182, 34436), (188, 34415), (201, 34391), (207, 34370), (212, 34340), (213, 34337), (216, 34307), (217, 34301), (218, 34298), (236, 34211), (278, 34154), (280, 34151), (291, 34106), (308, 33980), (321, 33926), (333, 33866), (338, 33839), (341, 33824), (356, 33752), (358, 33743), (370, 33680), (374, 33647), (376, 33638), (386, 33557), (396, 33539), (408, 33485), (418, 33446), (430, 33392), (447, 33329), (458, 33287), (485, 33164),

Gene: Phacado_50 Start: 35447, Stop: 33414, Start Num: 48
Candidate Starts for Phacado_50:
(Start: 48 @35447 has 546 MA's), (68, 35384), (Start: 73 @35336 has 4 MA's), (78, 35312), (92, 35246), (Start: 97 @35210 has 1 MA's), (102, 35177), (114, 35129), (116, 35120), (125, 35063), (134, 35036), (141, 35003), (172, 34847), (173, 34838), (182, 34769), (207, 34697), (212, 34667), (213, 34664), (216, 34634), (217, 34628), (218, 34625), (236, 34538), (251, 34508), (261, 34496), (269, 34487), (287, 34439), (321, 34235), (341, 34133), (345, 34115), (373, 33974), (376, 33947), (407, 33803), (408, 33800), (416, 33770), (430, 33707), (441, 33674), (443, 33665), (447, 33644), (461, 33596), (477, 33530),

Gene: Phaded_52 Start: 36913, Stop: 34883, Start Num: 48
Candidate Starts for Phaded_52:
(Start: 48 @36913 has 546 MA's), (74, 36799), (116, 36586), (117, 36571), (141, 36466), (172, 36310), (173, 36301), (182, 36232), (199, 36184), (207, 36160), (212, 36130), (213, 36127), (214, 36115), (216, 36097), (217, 36091), (218, 36088), (236, 36001), (278, 35932), (291, 35884), (298, 35842), (321, 35704), (327, 35668), (341, 35602), (343, 35590), (356, 35530), (367, 35476), (370, 35458), (391, 35326), (393, 35323), (396, 35317), (402, 35296), (408, 35263), (415, 35236), (430, 35176), (447, 35113), (461, 35065), (463, 35056),

Gene: Phaeder_51 Start: 35670, Stop: 33631, Start Num: 48
Candidate Starts for Phaeder_51:
(Start: 48 @35670 has 546 MA's), (Start: 73 @35556 has 4 MA's), (75, 35541), (78, 35532), (Start: 97 @35430 has 1 MA's), (116, 35340), (125, 35280), (141, 35220), (171, 35073), (172, 35064), (182, 34986), (185, 34974), (206, 34929), (207, 34920), (212, 34890), (214, 34875), (216, 34857), (217, 34851), (218, 34848), (280, 34683), (288, 34659), (291, 34638), (321, 34458), (343, 34344), (356, 34284), (374, 34179), (376, 34170), (408, 34017), (416, 33987), (430, 33924), (447, 33861),

Gene: PhailMary_40 Start: 32396, Stop: 30351, Start Num: 46
Candidate Starts for PhailMary_40:
(Start: 46 @32396 has 38 MA's), (74, 32276), (87, 32207), (Start: 97 @32153 has 1 MA's), (114, 32072), (116, 32063), (125, 32003), (156, 31883), (158, 31850), (159, 31847), (161, 31838), (167, 31817), (171, 31796), (172, 31787), (178, 31724), (182, 31709), (184, 31703), (207, 31643), (213, 31610), (216, 31580), (217, 31574), (218, 31571), (259, 31436), (308, 31241), (312, 31223), (338, 31100), (340, 31091), (367, 30959), (376, 30899), (385, 30827), (398, 30788), (399, 30785), (402, 30773), (408, 30740), (418, 30701), (432, 30638), (436, 30629), (443, 30602), (447, 30581), (470, 30503), (477, 30467),

Gene: Phantastic_52 Start: 35398, Stop: 33377, Start Num: 48
Candidate Starts for Phantastic_52:
(2, 35629), (Start: 48 @35398 has 546 MA's), (74, 35284), (92, 35197), (94, 35176), (Start: 97 @35161 has 1 MA's), (102, 35128), (114, 35080), (116, 35071), (141, 34951), (148, 34936), (168, 34822), (172, 34795), (173, 34786), (182, 34717), (188, 34696), (206, 34660), (207, 34651), (212, 34621), (214, 34606), (216, 34588), (217, 34582), (218, 34579), (287, 34414), (321, 34210), (323, 34195), (327, 34174), (333, 34150), (341, 34108), (345, 34090), (369, 33970), (370, 33964), (373, 33949), (385, 33850), (407, 33766), (419, 33721), (443, 33628), (447, 33607), (477, 33493),

Gene: Pharaoh_46 Start: 35491, Stop: 33452, Start Num: 48
Candidate Starts for Pharaoh_46:
(3, 35632), (Start: 48 @35491 has 546 MA's), (Start: 71 @35386 has 1 MA's), (Start: 73 @35377 has 4 MA's), (Start: 97 @35251 has 1 MA's), (102, 35218), (116, 35161), (125, 35101), (141, 35041), (149, 35023), (172, 34885), (182, 34807), (188, 34786), (207, 34741), (214, 34696), (216, 34678), (217, 34672), (218, 34669), (272, 34531), (280, 34504), (291, 34459), (321, 34279), (333, 34219), (338, 34192), (341, 34177), (343, 34165), (345, 34159), (356, 34105), (358, 34096), (370, 34033), (374, 34000), (408, 33838), (410, 33835), (413, 33820), (419, 33796), (430, 33745), (447, 33682),

Gene: Phelipe_51 Start: 35448, Stop: 33415, Start Num: 48
Candidate Starts for Phelipe_51:
(Start: 48 @35448 has 546 MA's), (68, 35385), (Start: 73 @35337 has 4 MA's), (78, 35313), (92, 35247), (Start: 97 @35211 has 1 MA's), (102, 35178), (114, 35130), (116, 35121), (125, 35064), (134, 35037), (141, 35004), (172, 34848), (173, 34839), (182, 34770), (207, 34698), (212, 34668), (213, 34665), (216, 34635), (217, 34629), (218, 34626), (236, 34539), (251, 34509), (261, 34497), (269, 34488), (287, 34440), (321, 34236), (341, 34134), (345, 34116), (373, 33975), (376, 33948), (407, 33804), (408, 33801), (416, 33771), (430, 33708), (441, 33675), (443, 33666), (447, 33645), (461, 33597), (477, 33531),

Gene: Phettuccine_47 Start: 31663, Stop: 33753, Start Num: 48
Candidate Starts for Phettuccine_47:
(Start: 48 @31663 has 546 MA's), (78, 31804), (79, 31819), (Start: 88 @31873 has 3 MA's), (90, 31879), (Start: 97 @31924 has 1 MA's), (114, 32005), (116, 32014), (131, 32092), (134, 32101), (141, 32134), (158, 32227), (163, 32251), (172, 32293), (182, 32371), (183, 32374), (207, 32461), (216, 32524), (218, 32533), (283, 32698), (287, 32710), (305, 32842), (309, 32869), (321, 32920), (323,

32935), (327, 32956), (341, 33022), (370, 33166), (371, 33172), (373, 33181), (378, 33217), (382, 33265), (384, 33277), (395, 33304), (398, 33316), (407, 33370), (420, 33421), (426, 33442), (436, 33475), (441, 33493), (447, 33523), (450, 33535), (457, 33562), (473, 33622), (486, 33691), (488, 33694), (495, 33745),

Gene: Phighter1804_50 Start: 35509, Stop: 33479, Start Num: 48
Candidate Starts for Phighter1804_50:
(Start: 48 @35509 has 546 MA's), (92, 35308), (Start: 97 @35272 has 1 MA's), (102, 35239), (114, 35191), (116, 35182), (125, 35125), (141, 35065), (160, 34963), (172, 34909), (173, 34900), (182, 34831), (185, 34819), (206, 34768), (207, 34759), (212, 34729), (213, 34726), (216, 34696), (217, 34690), (218, 34687), (225, 34654), (287, 34504), (321, 34300), (341, 34198), (345, 34180), (369, 34060), (373, 34039), (376, 34012), (407, 33868), (408, 33865), (416, 33835), (426, 33790), (436, 33757), (441, 33739), (443, 33730), (447, 33709), (477, 33595),

Gene: Phillis_49 Start: 34315, Stop: 32270, Start Num: 48
Candidate Starts for Phillis_49:
(Start: 48 @34315 has 546 MA's), (74, 34201), (87, 34132), (Start: 88 @34129 has 3 MA's), (Start: 97 @34078 has 1 MA's), (102, 34045), (114, 33997), (116, 33988), (121, 33946), (149, 33850), (155, 33811), (160, 33766), (171, 33721), (172, 33712), (178, 33649), (179, 33643), (182, 33634), (183, 33631), (207, 33562), (212, 33532), (213, 33529), (216, 33499), (217, 33493), (218, 33490), (291, 33292), (321, 33109), (341, 33007), (369, 32869), (376, 32821), (378, 32812), (392, 32728), (416, 32626), (426, 32581), (443, 32521), (447, 32500), (451, 32482), (491, 32311),

Gene: PhishRPhriends_52 Start: 34977, Stop: 32962, Start Num: 55
Candidate Starts for PhishRPhriends_52:
(Start: 55 @34977 has 103 MA's), (Start: 71 @34884 has 1 MA's), (Start: 73 @34875 has 4 MA's), (78, 34851), (Start: 88 @34800 has 3 MA's), (Start: 97 @34749 has 1 MA's), (114, 34668), (116, 34659), (125, 34602), (141, 34542), (156, 34482), (159, 34446), (172, 34386), (173, 34377), (182, 34308), (185, 34296), (207, 34236), (212, 34206), (213, 34203), (214, 34191), (216, 34173), (217, 34167), (218, 34164), (225, 34131), (261, 34029), (287, 33999), (312, 33828), (323, 33777), (327, 33756), (333, 33732), (341, 33690), (345, 33672), (355, 33624), (369, 33555), (370, 33549), (376, 33507), (383, 33444), (384, 33438), (391, 33414), (418, 33309), (436, 33240), (441, 33222), (443, 33213), (447, 33192), (470, 33114), (477, 33078), (490, 33015),

Gene: Phlei_40 Start: 35204, Stop: 33165, Start Num: 52
Candidate Starts for Phlei_40:
(Start: 52 @35204 has 24 MA's), (Start: 97 @34970 has 1 MA's), (100, 34952), (116, 34880), (125, 34820), (141, 34757), (155, 34706), (171, 34616), (172, 34607), (182, 34529), (206, 34472), (207, 34463), (212, 34433), (213, 34430), (214, 34418), (216, 34400), (217, 34394), (218, 34391), (287, 34199), (298, 34133), (299, 34130), (321, 33995), (341, 33893), (361, 33800), (369, 33755), (374, 33716), (382, 33650), (396, 33608), (397, 33605), (410, 33551), (418, 33515), (463, 33338), (470, 33317),

Gene: Phlorence_42 Start: 34240, Stop: 32111, Start Num: 48
Candidate Starts for Phlorence_42:
(Start: 48 @34240 has 546 MA's), (Start: 88 @34054 has 3 MA's), (Start: 97 @34003 has 1 MA's), (114, 33922), (116, 33913), (141, 33793), (148, 33778), (167, 33667), (168, 33664), (172, 33637), (173, 33628), (179, 33568), (182, 33559), (187, 33535), (207, 33448), (212, 33418), (213, 33415), (216, 33385), (217, 33379), (218, 33376), (242, 33265), (291, 33124), (319, 32962), (323, 32929), (334, 32881), (341, 32842), (355, 32773), (367, 32716), (369, 32704), (370, 32698), (376, 32656), (378, 32647), (385, 32584), (410, 32494), (416, 32467), (425, 32425), (436, 32389), (441, 32371), (443, 32362), (491, 32152),

Gene: Phoebe_55 Start: 35899, Stop: 33881, Start Num: 55
Candidate Starts for Phoebe_55:
(Start: 55 @35899 has 103 MA's), (Start: 71 @35806 has 1 MA's), (Start: 73 @35797 has 4 MA's), (78, 35773), (Start: 88 @35722 has 3 MA's), (Start: 97 @35671 has 1 MA's), (114, 35590), (116, 35581), (141, 35461), (156, 35401), (159, 35365), (172, 35305), (182, 35227), (207, 35155), (212, 35125), (216, 35092), (217, 35086), (218, 35083), (234, 35002), (242, 34972), (287, 34918), (312, 34747), (333, 34651), (341, 34609), (345, 34591), (355, 34543), (358, 34531), (369, 34474), (370, 34468), (373, 34453), (376, 34426), (383, 34363), (384, 34357), (391, 34333), (418, 34228), (436, 34159), (441, 34141), (443, 34132), (447, 34111), (470, 34033), (477, 33997), (490, 33934),

Gene: Phonnegut_51 Start: 35767, Stop: 33728, Start Num: 48
Candidate Starts for Phonnegut_51:
(Start: 48 @35767 has 546 MA's), (Start: 73 @35653 has 4 MA's), (75, 35638), (78, 35629), (Start: 97 @35527 has 1 MA's), (116, 35437), (125, 35377), (126, 35374), (141, 35317), (171, 35170), (172, 35161), (182, 35083), (185, 35071), (207, 35017), (212, 34987), (214, 34972), (216, 34954), (217, 34948), (218, 34945), (280, 34780), (291, 34735), (321, 34555), (341, 34453), (356, 34381), (374, 34276), (376, 34267), (408, 34114), (416, 34084), (430, 34021), (447, 33958),

Gene: Phontbonne_50 Start: 35339, Stop: 33306, Start Num: 48
Candidate Starts for Phontbonne_50:
(Start: 48 @35339 has 546 MA's), (68, 35276), (Start: 73 @35228 has 4 MA's), (78, 35204), (92, 35138), (Start: 97 @35102 has 1 MA's), (102, 35069), (114, 35021), (116, 35012), (125, 34955), (134, 34928), (141, 34895), (172, 34739), (173, 34730), (182, 34661), (207, 34589), (212, 34559), (213, 34556), (216, 34526), (217, 34520), (218, 34517), (236, 34430), (251, 34400), (261, 34388), (269, 34379), (287, 34331), (321, 34127), (341, 34025), (345, 34007), (373, 33866), (376, 33839), (407, 33695), (408, 33692), (416, 33662), (430, 33599), (441, 33566), (443, 33557), (447, 33536), (461, 33488), (477, 33422),

Gene: Phoxy_54 Start: 35931, Stop: 33913, Start Num: 55
Candidate Starts for Phoxy_54:
(Start: 55 @35931 has 103 MA's), (Start: 71 @35838 has 1 MA's), (Start: 73 @35829 has 4 MA's), (78, 35805), (Start: 88 @35754 has 3 MA's), (Start: 97 @35703 has 1 MA's), (114, 35622), (116, 35613), (141, 35496), (159, 35400), (172, 35340), (179, 35271), (182, 35262), (183, 35259), (185, 35250), (207, 35190), (212, 35160), (213, 35157), (214, 35145), (216, 35127), (217, 35121), (218, 35118), (239, 35013), (242, 35007), (287, 34950), (321, 34746), (323, 34731), (327, 34710), (333, 34686), (338, 34659), (341, 34644), (369, 34506), (370, 34500), (373, 34485), (376, 34458), (383, 34395), (384, 34389), (391, 34365), (418, 34260), (426, 34224), (447, 34143), (470, 34065), (477, 34029), (490, 33966),

Gene: Phrankenstein_41 Start: 32020, Stop: 29975, Start Num: 46
Candidate Starts for Phrankenstein_41:
(Start: 46 @32020 has 38 MA's), (74, 31900), (87, 31831), (Start: 97 @31777 has 1 MA's), (114, 31696), (116, 31687), (125, 31627), (131, 31609), (156, 31507), (158, 31474), (159, 31471), (161, 31462), (167, 31441), (171, 31420), (172, 31411), (178, 31348), (182, 31333), (184, 31327), (207, 31267), (213, 31234), (216, 31204), (217, 31198), (218, 31195), (259, 31060), (308, 30865), (312, 30847), (320, 30814), (338, 30724), (340, 30715), (367, 30583), (376, 30523), (385, 30451), (398, 30412), (399, 30409), (402, 30397), (408, 30364), (418, 30325), (436, 30253), (443, 30226), (477, 30091),

Gene: Phranny_55 Start: 35782, Stop: 33767, Start Num: 55
Candidate Starts for Phranny_55:
(Start: 55 @35782 has 103 MA's), (Start: 71 @35689 has 1 MA's), (Start: 73 @35680 has 4 MA's), (Start: 88 @35605 has 3 MA's), (Start: 97 @35554 has 1 MA's), (114, 35473), (116, 35464), (125,

35407), (141, 35347), (156, 35287), (159, 35251), (172, 35191), (173, 35182), (182, 35113), (185, 35101), (207, 35041), (212, 35011), (213, 35008), (214, 34996), (216, 34978), (217, 34972), (218, 34969), (225, 34936), (261, 34834), (287, 34804), (312, 34633), (320, 34600), (323, 34582), (327, 34561), (333, 34537), (341, 34495), (345, 34477), (355, 34429), (370, 34354), (376, 34312), (383, 34249), (384, 34243), (391, 34219), (418, 34114), (436, 34045), (441, 34027), (443, 34018), (447, 33997), (470, 33919), (477, 33883), (490, 33820),

Gene: Phredrick_22 Start: 7929, Stop: 9872, Start Num: 65
Candidate Starts for Phredrick_22:
(62, 7920), (Start: 65 @7929 has 29 MA's), (Start: 73 @7986 has 4 MA's), (90, 8067), (98, 8118), (110, 8166), (111, 8175), (112, 8178), (132, 8283), (150, 8340), (235, 8769), (242, 8796), (311, 9009), (324, 9063), (339, 9135), (344, 9159), (364, 9231), (401, 9444), (423, 9549), (429, 9585), (455, 9678), (480, 9777),

Gene: PickleBack_43 Start: 34307, Stop: 32238, Start Num: 48
Candidate Starts for PickleBack_43:
(Start: 48 @34307 has 546 MA's), (Start: 88 @34121 has 3 MA's), (Start: 97 @34070 has 1 MA's), (102, 34037), (114, 33989), (116, 33980), (141, 33860), (148, 33845), (167, 33734), (168, 33731), (172, 33704), (173, 33695), (179, 33635), (182, 33626), (187, 33602), (207, 33515), (212, 33485), (213, 33482), (216, 33452), (217, 33446), (218, 33443), (291, 33251), (319, 33089), (323, 33056), (334, 33008), (341, 32969), (355, 32900), (367, 32843), (369, 32831), (370, 32825), (376, 32783), (378, 32774), (407, 32627), (416, 32594), (425, 32552), (436, 32516), (441, 32498), (443, 32489), (491, 32279),

Gene: PinkiePie_40 Start: 18297, Stop: 20249, Start Num: 64
Candidate Starts for PinkiePie_40:
(Start: 64 @18297 has 81 MA's), (Start: 67 @18303 has 1 MA's), (83, 18405), (86, 18426), (90, 18435), (108, 18525), (110, 18534), (111, 18543), (112, 18546), (132, 18651), (204, 18960), (221, 19071), (239, 19161), (245, 19173), (314, 19386), (345, 19533), (362, 19596), (377, 19689), (379, 19707), (389, 19779), (401, 19815), (439, 19986), (448, 20025), (476, 20124),

Gene: Pioneer_51 Start: 35767, Stop: 33728, Start Num: 48
Candidate Starts for Pioneer_51:
(Start: 48 @35767 has 546 MA's), (Start: 73 @35653 has 4 MA's), (75, 35638), (78, 35629), (Start: 97 @35527 has 1 MA's), (116, 35437), (125, 35377), (126, 35374), (141, 35317), (171, 35170), (172, 35161), (182, 35083), (185, 35071), (207, 35017), (212, 34987), (214, 34972), (216, 34954), (217, 34948), (218, 34945), (280, 34780), (291, 34735), (321, 34555), (341, 34453), (356, 34381), (374, 34276), (376, 34267), (408, 34114), (416, 34084), (430, 34021), (447, 33958),

Gene: Pipcraft_48 Start: 35448, Stop: 33415, Start Num: 48
Candidate Starts for Pipcraft_48:
(Start: 48 @35448 has 546 MA's), (68, 35385), (Start: 73 @35337 has 4 MA's), (78, 35313), (92, 35247), (Start: 97 @35211 has 1 MA's), (102, 35178), (114, 35130), (116, 35121), (125, 35064), (134, 35037), (141, 35004), (172, 34848), (173, 34839), (182, 34770), (207, 34698), (212, 34668), (213, 34665), (216, 34635), (217, 34629), (218, 34626), (236, 34539), (251, 34509), (261, 34497), (269, 34488), (287, 34440), (321, 34236), (341, 34134), (345, 34116), (373, 33975), (376, 33948), (407, 33804), (408, 33801), (416, 33771), (430, 33708), (441, 33675), (443, 33666), (447, 33645), (461, 33597), (477, 33531),

Gene: Piro94_51 Start: 36095, Stop: 34059, Start Num: 48
Candidate Starts for Piro94_51:
(Start: 48 @36095 has 546 MA's), (Start: 61 @36056 has 1 MA's), (Start: 73 @35984 has 4 MA's), (Start: 88 @35909 has 3 MA's), (Start: 97 @35858 has 1 MA's), (102, 35825), (116, 35768), (125,

35708), (134, 35681), (141, 35648), (172, 35492), (182, 35414), (185, 35402), (204, 35360), (207, 35342), (212, 35312), (213, 35309), (214, 35297), (216, 35279), (217, 35273), (218, 35270), (280, 35111), (291, 35066), (298, 35024), (321, 34886), (327, 34850), (341, 34784), (343, 34772), (356, 34712), (367, 34658), (370, 34640), (378, 34589), (391, 34508), (396, 34499), (408, 34445), (415, 34418), (416, 34415), (418, 34406), (430, 34352), (447, 34289), (461, 34241), (463, 34232),

Gene: Pistachio_53 Start: 35316, Stop: 33295, Start Num: 48
Candidate Starts for Pistachio_53:
(Start: 48 @35316 has 546 MA's), (74, 35202), (92, 35115), (Start: 97 @35079 has 1 MA's), (114, 34998), (116, 34989), (124, 34932), (141, 34869), (172, 34713), (182, 34635), (188, 34614), (190, 34611), (207, 34569), (212, 34539), (214, 34524), (216, 34506), (217, 34500), (218, 34497), (225, 34464), (287, 34332), (321, 34128), (327, 34092), (333, 34068), (341, 34026), (345, 34008), (369, 33888), (370, 33882), (373, 33867), (376, 33840), (403, 33702), (419, 33639), (443, 33546), (447, 33525), (471, 33444), (477, 33411),

Gene: Pmask_53 Start: 34817, Stop: 32793, Start Num: 48
Candidate Starts for Pmask_53:
(33, 34850), (Start: 48 @34817 has 546 MA's), (Start: 88 @34631 has 3 MA's), (102, 34547), (114, 34499), (116, 34490), (125, 34430), (141, 34370), (155, 34313), (159, 34274), (168, 34241), (172, 34214), (173, 34205), (178, 34151), (182, 34136), (207, 34064), (212, 34034), (216, 34001), (217, 33995), (218, 33992), (291, 33800), (318, 33641), (321, 33620), (343, 33506), (356, 33446), (358, 33437), (367, 33392), (370, 33374), (374, 33341), (393, 33239), (396, 33233), (408, 33179), (415, 33152), (416, 33149), (418, 33140), (430, 33086), (447, 33023), (454, 32993), (463, 32966),

Gene: Pocahontas_50 Start: 35707, Stop: 33689, Start Num: 55
Candidate Starts for Pocahontas_50:
(Start: 55 @35707 has 103 MA's), (Start: 71 @35614 has 1 MA's), (Start: 73 @35605 has 4 MA's), (77, 35584), (92, 35515), (Start: 97 @35479 has 1 MA's), (102, 35446), (114, 35398), (116, 35389), (141, 35272), (159, 35176), (172, 35116), (179, 35047), (182, 35038), (185, 35026), (207, 34966), (212, 34936), (213, 34933), (214, 34921), (216, 34903), (217, 34897), (218, 34894), (239, 34789), (242, 34783), (287, 34726), (321, 34522), (333, 34462), (341, 34420), (345, 34402), (358, 34339), (370, 34276), (373, 34261), (376, 34234), (385, 34162), (408, 34075), (419, 34033), (443, 33940), (447, 33919), (477, 33805),

Gene: Polymorphads_51 Start: 35441, Stop: 33408, Start Num: 48
Candidate Starts for Polymorphads_51:
(Start: 48 @35441 has 546 MA's), (68, 35378), (Start: 73 @35330 has 4 MA's), (78, 35306), (92, 35240), (Start: 97 @35204 has 1 MA's), (102, 35171), (114, 35123), (116, 35114), (125, 35057), (134, 35030), (141, 34997), (172, 34841), (173, 34832), (182, 34763), (207, 34691), (212, 34661), (213, 34658), (216, 34628), (217, 34622), (218, 34619), (236, 34532), (251, 34502), (261, 34490), (269, 34481), (287, 34433), (321, 34229), (341, 34127), (345, 34109), (373, 33968), (376, 33941), (407, 33797), (408, 33794), (416, 33764), (430, 33701), (441, 33668), (443, 33659), (447, 33638), (461, 33590), (477, 33524),

Gene: Polyphemus_55 Start: 35199, Stop: 33175, Start Num: 48
Candidate Starts for Polyphemus_55:
(33, 35232), (Start: 48 @35199 has 546 MA's), (Start: 88 @35013 has 3 MA's), (102, 34929), (114, 34881), (116, 34872), (125, 34812), (141, 34752), (155, 34695), (159, 34656), (168, 34623), (172, 34596), (173, 34587), (178, 34533), (182, 34518), (207, 34446), (212, 34416), (216, 34383), (217, 34377), (218, 34374), (291, 34182), (318, 34023), (321, 34002), (343, 33888), (356, 33828), (358, 33819), (367, 33774), (370, 33756), (374, 33723), (393, 33621), (396, 33615), (408, 33561), (415, 33534), (416, 33531), (418, 33522), (430, 33468), (447, 33405), (454, 33375), (463, 33348),

Gene: Pomar16_53 Start: 35602, Stop: 33521, Start Num: 48
Candidate Starts for Pomar16_53:
(Start: 48 @35602 has 546 MA's), (Start: 71 @35497 has 1 MA's), (Start: 73 @35488 has 4 MA's), (Start: 88 @35413 has 3 MA's), (102, 35329), (114, 35281), (116, 35272), (125, 35212), (149, 35134), (155, 35095), (172, 34996), (178, 34933), (182, 34918), (204, 34840), (207, 34822), (212, 34792), (213, 34789), (216, 34759), (217, 34753), (218, 34750), (236, 34663), (278, 34588), (291, 34540), (321, 34360), (341, 34258), (343, 34246), (356, 34186), (358, 34177), (367, 34132), (369, 34120), (373, 34099), (376, 34072), (384, 34003), (408, 33907), (415, 33880), (418, 33868), (426, 33832), (447, 33751), (458, 33709),

Gene: Ponzi_21 Start: 13819, Stop: 11810, Start Num: 48
Candidate Starts for Ponzi_21:
(Start: 48 @13819 has 546 MA's), (75, 13699), (92, 13624), (93, 13621), (113, 13513), (131, 13420), (141, 13378), (168, 13249), (171, 13231), (172, 13222), (182, 13144), (206, 13087), (207, 13078), (216, 13015), (218, 13006), (220, 12991), (223, 12979), (225, 12973), (242, 12895), (252, 12880), (295, 12793), (305, 12709), (308, 12691), (312, 12673), (321, 12637), (356, 12463), (361, 12442), (369, 12397), (376, 12349), (385, 12274), (393, 12250), (410, 12184), (415, 12160), (416, 12157), (419, 12145), (425, 12133), (428, 12115), (436, 12097), (438, 12088), (447, 12049), (457, 12010), (461, 12001), (469, 11977), (475, 11941),

Gene: Poompha_48 Start: 34406, Stop: 32367, Start Num: 35
Candidate Starts for Poompha_48:
(Start: 35 @34406 has 17 MA's), (78, 34271), (Start: 97 @34169 has 1 MA's), (102, 34136), (114, 34088), (116, 34079), (125, 34022), (141, 33962), (148, 33947), (172, 33806), (182, 33728), (185, 33716), (207, 33656), (212, 33626), (216, 33593), (217, 33587), (218, 33584), (225, 33551), (278, 33416), (287, 33392), (321, 33188), (341, 33086), (345, 33068), (355, 33017), (369, 32948), (370, 32942), (376, 32900), (378, 32891), (384, 32831), (407, 32756), (408, 32753), (410, 32750), (419, 32711), (430, 32660), (432, 32654), (447, 32597), (477, 32483), (488, 32426),

Gene: Popcicle_50 Start: 35707, Stop: 33689, Start Num: 55
Candidate Starts for Popcicle_50:
(Start: 55 @35707 has 103 MA's), (Start: 71 @35614 has 1 MA's), (Start: 73 @35605 has 4 MA's), (77, 35584), (92, 35515), (Start: 97 @35479 has 1 MA's), (102, 35446), (114, 35398), (116, 35389), (141, 35272), (159, 35176), (172, 35116), (179, 35047), (182, 35038), (185, 35026), (207, 34966), (212, 34936), (213, 34933), (214, 34921), (216, 34903), (217, 34897), (218, 34894), (239, 34789), (242, 34783), (287, 34726), (321, 34522), (333, 34462), (341, 34420), (345, 34402), (358, 34339), (370, 34276), (373, 34261), (376, 34234), (385, 34162), (408, 34075), (419, 34033), (443, 33940), (447, 33919), (477, 33805),

Gene: PotatoSplit_56 Start: 35910, Stop: 33892, Start Num: 55
Candidate Starts for PotatoSplit_56:
(Start: 55 @35910 has 103 MA's), (Start: 71 @35817 has 1 MA's), (Start: 73 @35808 has 4 MA's), (78, 35784), (Start: 88 @35733 has 3 MA's), (Start: 97 @35682 has 1 MA's), (114, 35601), (116, 35592), (141, 35472), (156, 35412), (159, 35376), (172, 35316), (182, 35238), (207, 35166), (212, 35136), (216, 35103), (217, 35097), (218, 35094), (234, 35013), (242, 34983), (287, 34929), (312, 34758), (333, 34662), (341, 34620), (345, 34602), (355, 34554), (358, 34542), (369, 34485), (370, 34479), (373, 34464), (376, 34437), (383, 34374), (384, 34368), (391, 34344), (418, 34239), (436, 34170), (441, 34152), (443, 34143), (447, 34122), (470, 34044), (477, 34008), (490, 33945),

Gene: Power_50 Start: 35732, Stop: 33696, Start Num: 48
Candidate Starts for Power_50:
(Start: 48 @35732 has 546 MA's), (Start: 73 @35621 has 4 MA's), (74, 35618), (Start: 88 @35546 has 3 MA's), (Start: 97 @35495 has 1 MA's), (100, 35477), (109, 35441), (116, 35405), (141, 35285), (172,

35129), (182, 35051), (207, 34979), (212, 34949), (213, 34946), (214, 34934), (216, 34916), (217, 34910), (218, 34907), (280, 34748), (291, 34703), (298, 34661), (321, 34523), (327, 34487), (341, 34421), (343, 34409), (356, 34349), (367, 34295), (370, 34277), (408, 34082), (418, 34043), (419, 34040), (430, 33989), (447, 33926), (461, 33878), (463, 33869), (492, 33728),

Gene: Priamo_55 Start: 34576, Stop: 32534, Start Num: 48
Candidate Starts for Priamo_55:
(33, 34609), (Start: 48 @34576 has 546 MA's), (Start: 73 @34465 has 4 MA's), (74, 34462), (102, 34306), (114, 34258), (116, 34249), (117, 34234), (125, 34189), (141, 34129), (155, 34072), (159, 34033), (168, 34000), (172, 33973), (173, 33964), (177, 33925), (181, 33898), (182, 33895), (206, 33838), (207, 33829), (213, 33796), (214, 33784), (216, 33766), (217, 33760), (218, 33757), (236, 33670), (242, 33646), (291, 33544), (298, 33502), (318, 33385), (321, 33364), (333, 33304), (338, 33277), (356, 33190), (358, 33181), (367, 33136), (370, 33118), (374, 33085), (393, 32983), (396, 32977), (408, 32923), (430, 32827), (447, 32764), (454, 32734), (463, 32707),

Gene: Prinashe11_43 Start: 34532, Stop: 32403, Start Num: 48
Candidate Starts for Prinashe11_43:
(Start: 48 @34532 has 546 MA's), (Start: 88 @34346 has 3 MA's), (Start: 97 @34295 has 1 MA's), (114, 34214), (116, 34205), (141, 34085), (148, 34070), (167, 33959), (168, 33956), (172, 33929), (173, 33920), (179, 33860), (182, 33851), (187, 33827), (207, 33740), (212, 33710), (213, 33707), (216, 33677), (217, 33671), (218, 33668), (242, 33557), (291, 33416), (319, 33254), (323, 33221), (334, 33173), (341, 33134), (355, 33065), (367, 33008), (369, 32996), (370, 32990), (376, 32948), (378, 32939), (385, 32876), (410, 32786), (416, 32759), (425, 32717), (436, 32681), (441, 32663), (443, 32654), (491, 32444),

Gene: Priya_51 Start: 35737, Stop: 33698, Start Num: 48
Candidate Starts for Priya_51:
(Start: 48 @35737 has 546 MA's), (Start: 73 @35623 has 4 MA's), (75, 35608), (78, 35599), (Start: 97 @35497 has 1 MA's), (116, 35407), (125, 35347), (141, 35287), (171, 35140), (172, 35131), (182, 35053), (185, 35041), (206, 34996), (207, 34987), (212, 34957), (214, 34942), (216, 34924), (217, 34918), (218, 34915), (280, 34750), (288, 34726), (291, 34705), (321, 34525), (343, 34411), (356, 34351), (374, 34246), (376, 34237), (408, 34084), (416, 34054), (430, 33991), (447, 33928),

Gene: Provolone_48 Start: 32864, Stop: 34927, Start Num: 48
Candidate Starts for Provolone_48:
(12, 32762), (13, 32768), (Start: 27 @32813 has 1 MA's), (Start: 48 @32864 has 546 MA's), (Start: 61 @32903 has 1 MA's), (Start: 71 @32966 has 1 MA's), (Start: 73 @32975 has 4 MA's), (81, 33026), (82, 33032), (Start: 88 @33065 has 3 MA's), (Start: 97 @33116 has 1 MA's), (116, 33206), (117, 33221), (134, 33293), (141, 33326), (163, 33443), (172, 33485), (173, 33494), (182, 33563), (183, 33566), (187, 33587), (207, 33653), (216, 33716), (218, 33725), (234, 33806), (278, 33866), (287, 33890), (318, 34079), (327, 34136), (354, 34259), (376, 34385), (378, 34394), (402, 34511), (403, 34523), (407, 34547), (408, 34550), (420, 34598), (436, 34652), (441, 34670), (447, 34700), (454, 34730), (463, 34754), (473, 34796), (490, 34874),

Gene: Prudy_51 Start: 36470, Stop: 34422, Start Num: 48
Candidate Starts for Prudy_51:
(Start: 48 @36470 has 546 MA's), (Start: 73 @36359 has 4 MA's), (Start: 88 @36284 has 3 MA's), (Start: 97 @36233 has 1 MA's), (102, 36200), (114, 36152), (116, 36143), (125, 36083), (141, 36023), (156, 35963), (168, 35894), (172, 35867), (182, 35789), (207, 35723), (212, 35693), (213, 35690), (214, 35678), (216, 35660), (217, 35654), (218, 35651), (280, 35468), (291, 35423), (321, 35243), (341, 35141), (343, 35129), (356, 35069), (358, 35060), (367, 35015), (370, 34997), (391, 34865), (393, 34862), (396, 34856), (408, 34802), (422, 34754), (430, 34715), (447, 34652), (461, 34604), (463, 34595), (492, 34454),

Gene: Puginator_50 Start: 33455, Stop: 35590, Start Num: 48
Candidate Starts for Puginator_50:
(Start: 48 @33455 has 546 MA's), (82, 33623), (Start: 88 @33656 has 3 MA's), (Start: 97 @33707 has 1 MA's), (114, 33788), (116, 33797), (136, 33896), (141, 33917), (163, 34034), (172, 34076), (173, 34085), (182, 34154), (187, 34178), (192, 34208), (207, 34283), (216, 34346), (268, 34511), (277, 34520), (287, 34547), (302, 34667), (318, 34736), (321, 34757), (327, 34793), (333, 34817), (335, 34820), (341, 34859), (370, 35003), (371, 35009), (373, 35018), (378, 35054), (384, 35114), (388, 35132), (395, 35141), (398, 35153), (402, 35171), (403, 35183), (407, 35207), (413, 35228), (426, 35279), (436, 35312), (441, 35330), (450, 35372), (466, 35423), (473, 35459), (486, 35528), (495, 35582),

Gene: Pukovnik_50 Start: 36555, Stop: 34498, Start Num: 48
Candidate Starts for Pukovnik_50:
(Start: 48 @36555 has 546 MA's), (74, 36441), (116, 36228), (117, 36213), (141, 36108), (172, 35952), (173, 35943), (182, 35874), (207, 35802), (212, 35772), (213, 35769), (214, 35757), (216, 35739), (217, 35733), (218, 35730), (236, 35643), (271, 35574), (274, 35562), (291, 35499), (298, 35457), (321, 35319), (327, 35283), (341, 35217), (343, 35205), (356, 35145), (370, 35073), (391, 34941), (393, 34938), (396, 34932), (402, 34911), (408, 34878), (415, 34851), (430, 34791), (437, 34773), (447, 34728), (461, 34680),

Gene: Pumbaa_50 Start: 35393, Stop: 33360, Start Num: 48
Candidate Starts for Pumbaa_50:
(Start: 48 @35393 has 546 MA's), (68, 35330), (Start: 73 @35282 has 4 MA's), (78, 35258), (92, 35192), (Start: 97 @35156 has 1 MA's), (102, 35123), (114, 35075), (116, 35066), (125, 35009), (134, 34982), (141, 34949), (172, 34793), (173, 34784), (182, 34715), (207, 34643), (212, 34613), (213, 34610), (216, 34580), (217, 34574), (218, 34571), (236, 34484), (251, 34454), (261, 34442), (269, 34433), (287, 34385), (321, 34181), (341, 34079), (345, 34061), (373, 33920), (376, 33893), (407, 33749), (408, 33746), (416, 33716), (430, 33653), (441, 33620), (443, 33611), (447, 33590), (461, 33542), (477, 33476),

Gene: PumpkinSpice_44 Start: 19533, Stop: 21473, Start Num: 64
Candidate Starts for PumpkinSpice_44:
(Start: 64 @19533 has 81 MA's), (90, 19665), (96, 19701), (102, 19737), (110, 19764), (112, 19776), (132, 19881), (150, 19938), (188, 20163), (210, 20217), (221, 20301), (232, 20352), (239, 20391), (245, 20403), (293, 20481), (305, 20580), (314, 20616), (345, 20763), (379, 20937), (382, 20973), (400, 21042), (401, 21045), (439, 21216), (476, 21354),

Gene: Puppy_53 Start: 35388, Stop: 33367, Start Num: 48
Candidate Starts for Puppy_53:
(Start: 48 @35388 has 546 MA's), (74, 35274), (92, 35187), (Start: 97 @35151 has 1 MA's), (114, 35070), (116, 35061), (124, 35004), (141, 34941), (172, 34785), (182, 34707), (188, 34686), (190, 34683), (207, 34641), (212, 34611), (214, 34596), (216, 34578), (217, 34572), (218, 34569), (225, 34536), (287, 34404), (321, 34200), (327, 34164), (333, 34140), (341, 34098), (345, 34080), (369, 33960), (370, 33954), (373, 33939), (376, 33912), (403, 33774), (419, 33711), (443, 33618), (447, 33597), (471, 33516), (477, 33483),

Gene: PurpleHaze_54 Start: 35795, Stop: 33780, Start Num: 55
Candidate Starts for PurpleHaze_54:
(Start: 55 @35795 has 103 MA's), (Start: 71 @35702 has 1 MA's), (Start: 73 @35693 has 4 MA's), (Start: 88 @35618 has 3 MA's), (Start: 97 @35567 has 1 MA's), (114, 35486), (116, 35477), (125, 35420), (141, 35360), (156, 35300), (159, 35264), (172, 35204), (173, 35195), (182, 35126), (185, 35114), (207, 35054), (212, 35024), (213, 35021), (214, 35009), (216, 34991), (217, 34985), (218,

34982), (225, 34949), (261, 34847), (287, 34817), (312, 34646), (320, 34613), (323, 34595), (327, 34574), (333, 34550), (341, 34508), (345, 34490), (355, 34442), (370, 34367), (376, 34325), (383, 34262), (384, 34256), (391, 34232), (418, 34127), (436, 34058), (441, 34040), (443, 34031), (447, 34010), (470, 33932), (477, 33896), (490, 33833),

Gene: PynkPanther_40 Start: 18511, Stop: 20454, Start Num: 64
Candidate Starts for PynkPanther_40:
(Start: 64 @18511 has 81 MA's), (Start: 67 @18517 has 1 MA's), (83, 18619), (86, 18640), (90, 18649), (108, 18739), (110, 18748), (111, 18757), (112, 18760), (132, 18865), (204, 19174), (221, 19285), (239, 19375), (245, 19387), (314, 19600), (345, 19747), (362, 19810), (377, 19903), (379, 19921), (401, 20029), (439, 20200), (448, 20239), (476, 20338), (494, 20440),

Gene: Qobbit_51 Start: 35699, Stop: 33660, Start Num: 48
Candidate Starts for Qobbit_51:
(Start: 48 @35699 has 546 MA's), (Start: 73 @35585 has 4 MA's), (75, 35570), (78, 35561), (Start: 97 @35459 has 1 MA's), (116, 35369), (125, 35309), (141, 35249), (171, 35102), (172, 35093), (182, 35015), (185, 35003), (206, 34958), (207, 34949), (212, 34919), (214, 34904), (216, 34886), (217, 34880), (218, 34877), (280, 34712), (288, 34688), (291, 34667), (321, 34487), (343, 34373), (356, 34313), (374, 34208), (376, 34199), (408, 34046), (416, 34016), (430, 33953), (447, 33890),

Gene: Quaran19_45 Start: 19524, Stop: 21464, Start Num: 64
Candidate Starts for Quaran19_45:
(Start: 64 @19524 has 81 MA's), (90, 19656), (96, 19692), (102, 19728), (110, 19755), (112, 19767), (132, 19872), (150, 19929), (188, 20154), (210, 20208), (221, 20292), (232, 20343), (239, 20382), (245, 20394), (293, 20472), (305, 20571), (314, 20607), (345, 20754), (379, 20928), (382, 20964), (400, 21033), (401, 21036), (439, 21207), (476, 21345),

Gene: QueenB2_50 Start: 35710, Stop: 33650, Start Num: 48
Candidate Starts for QueenB2_50:
(Start: 48 @35710 has 546 MA's), (Start: 73 @35599 has 4 MA's), (Start: 88 @35524 has 3 MA's), (Start: 97 @35473 has 1 MA's), (102, 35440), (114, 35392), (116, 35383), (125, 35323), (141, 35263), (172, 35107), (182, 35029), (207, 34957), (212, 34927), (213, 34924), (216, 34894), (217, 34888), (218, 34885), (244, 34774), (280, 34702), (291, 34657), (298, 34615), (321, 34477), (327, 34441), (341, 34375), (343, 34363), (356, 34303), (367, 34249), (370, 34231), (408, 34036), (418, 33997), (419, 33994), (430, 33943), (432, 33937), (447, 33880), (454, 33850), (492, 33682),

Gene: QueenBeesly_51 Start: 35679, Stop: 33643, Start Num: 48
Candidate Starts for QueenBeesly_51:
(Start: 48 @35679 has 546 MA's), (Start: 73 @35568 has 4 MA's), (74, 35565), (Start: 88 @35493 has 3 MA's), (Start: 97 @35442 has 1 MA's), (100, 35424), (109, 35388), (116, 35352), (141, 35232), (171, 35085), (172, 35076), (182, 34998), (207, 34926), (212, 34896), (213, 34893), (214, 34881), (216, 34863), (217, 34857), (218, 34854), (280, 34695), (291, 34650), (298, 34608), (321, 34470), (327, 34434), (341, 34368), (343, 34356), (356, 34296), (367, 34242), (370, 34224), (408, 34029), (418, 33990), (419, 33987), (430, 33936), (447, 33873), (461, 33825), (463, 33816), (492, 33675),

Gene: QuinnKiro_49 Start: 35710, Stop: 33692, Start Num: 55
Candidate Starts for QuinnKiro_49:
(Start: 55 @35710 has 103 MA's), (Start: 71 @35617 has 1 MA's), (Start: 73 @35608 has 4 MA's), (77, 35587), (92, 35518), (Start: 97 @35482 has 1 MA's), (102, 35449), (114, 35401), (116, 35392), (141, 35275), (159, 35179), (172, 35119), (179, 35050), (182, 35041), (185, 35029), (207, 34969), (212, 34939), (213, 34936), (214, 34924), (216, 34906), (217, 34900), (218, 34897), (239, 34792), (242, 34786), (287, 34729), (321, 34525), (333, 34465), (341, 34423), (345, 34405), (358, 34342), (370, 34279), (373, 34264), (376, 34237), (385, 34165), (408, 34078), (419, 34036), (443, 33943), (447,

33922), (477, 33808),

Gene: Quokka_49 Start: 34526, Stop: 32664, Start Num: 88
Candidate Starts for Quokka_49:
(Start: 48 @34712 has 546 MA's), (Start: 71 @34610 has 1 MA's), (Start: 73 @34601 has 4 MA's), (Start: 88 @34526 has 3 MA's), (114, 34394), (116, 34385), (126, 34322), (141, 34265), (171, 34118), (172, 34109), (177, 34061), (178, 34046), (182, 34031), (207, 33965), (212, 33935), (213, 33932), (214, 33920), (216, 33902), (217, 33896), (218, 33893), (271, 33740), (278, 33713), (291, 33665), (298, 33623), (321, 33485), (327, 33449), (338, 33398), (343, 33371), (356, 33311), (358, 33302), (370, 33239), (374, 33206), (376, 33197), (386, 33116), (408, 33044), (415, 33017), (430, 32957), (447, 32894),

Gene: R4_49 Start: 33396, Stop: 35510, Start Num: 48
Candidate Starts for R4_49:
(Start: 48 @33396 has 546 MA's), (82, 33564), (Start: 88 @33597 has 3 MA's), (Start: 97 @33648 has 1 MA's), (114, 33729), (116, 33738), (133, 33822), (134, 33825), (136, 33837), (141, 33858), (163, 33975), (168, 33990), (172, 34017), (182, 34095), (207, 34203), (212, 34233), (213, 34236), (216, 34266), (277, 34440), (287, 34467), (296, 34524), (298, 34533), (302, 34587), (305, 34599), (309, 34626), (321, 34677), (327, 34713), (335, 34740), (341, 34779), (370, 34923), (371, 34929), (373, 34938), (378, 34974), (384, 35034), (388, 35052), (396, 35064), (410, 35133), (420, 35178), (426, 35199), (436, 35232), (441, 35250), (450, 35292), (473, 35379), (486, 35448), (495, 35502),

Gene: RER2_34 Start: 28946, Stop: 26901, Start Num: 46
Candidate Starts for RER2_34:
(Start: 46 @28946 has 38 MA's), (74, 28826), (87, 28757), (Start: 97 @28703 has 1 MA's), (114, 28622), (116, 28613), (125, 28553), (131, 28535), (156, 28433), (158, 28400), (159, 28397), (161, 28388), (167, 28367), (171, 28346), (172, 28337), (178, 28274), (182, 28259), (184, 28253), (207, 28193), (213, 28160), (216, 28130), (217, 28124), (218, 28121), (259, 27986), (312, 27773), (320, 27740), (338, 27650), (340, 27641), (376, 27449), (385, 27377), (398, 27338), (399, 27335), (402, 27323), (408, 27290), (418, 27251), (436, 27179), (443, 27152), (447, 27131), (451, 27113), (470, 27053), (477, 27017),

Gene: RGL3_35 Start: 29611, Stop: 27569, Start Num: 46
Candidate Starts for RGL3_35:
(Start: 46 @29611 has 38 MA's), (59, 29572), (74, 29494), (82, 29455), (87, 29425), (Start: 97 @29371 has 1 MA's), (102, 29338), (114, 29290), (116, 29281), (156, 29101), (159, 29065), (168, 29032), (171, 29014), (172, 29005), (178, 28942), (182, 28927), (188, 28906), (190, 28903), (207, 28861), (213, 28828), (216, 28798), (217, 28792), (218, 28789), (236, 28702), (278, 28633), (296, 28552), (298, 28543), (301, 28510), (305, 28477), (321, 28405), (327, 28369), (338, 28318), (363, 28204), (367, 28177), (376, 28117), (378, 28108), (384, 28048), (385, 28045), (399, 28003), (402, 27991), (408, 27958), (410, 27955), (436, 27847), (443, 27820), (477, 27685),

Gene: Rachaly_50 Start: 36008, Stop: 33960, Start Num: 48
Candidate Starts for Rachaly_50:
(Start: 48 @36008 has 546 MA's), (Start: 73 @35897 has 4 MA's), (74, 35894), (Start: 88 @35822 has 3 MA's), (Start: 97 @35771 has 1 MA's), (102, 35738), (114, 35690), (116, 35681), (125, 35621), (141, 35561), (172, 35405), (173, 35396), (182, 35327), (207, 35261), (212, 35231), (213, 35228), (214, 35216), (216, 35198), (217, 35192), (218, 35189), (236, 35102), (271, 35042), (274, 35030), (280, 35012), (285, 34997), (291, 34967), (298, 34925), (321, 34787), (341, 34685), (343, 34673), (356, 34613), (358, 34604), (370, 34541), (374, 34508), (387, 34415), (408, 34346), (415, 34319), (418, 34307), (419, 34304), (430, 34253), (447, 34190), (461, 34142), (463, 34133),

Gene: Rahalelujah_51 Start: 35248, Stop: 33209, Start Num: 48

Candidate Starts for Rahalelujah_51:
(Start: 46 @35251 has 38 MA's), (Start: 48 @35248 has 546 MA's), (Start: 73 @35134 has 4 MA's), (74, 35131), (Start: 97 @35008 has 1 MA's), (102, 34975), (116, 34918), (125, 34858), (126, 34855), (141, 34798), (172, 34642), (182, 34564), (185, 34552), (206, 34507), (207, 34498), (212, 34468), (214, 34453), (216, 34435), (217, 34429), (218, 34426), (227, 34387), (280, 34261), (291, 34216), (298, 34174), (308, 34090), (321, 34036), (338, 33949), (343, 33922), (356, 33862), (374, 33757), (376, 33748), (408, 33595), (418, 33556), (447, 33439), (461, 33391),

Gene: Rana_48 Start: 32494, Stop: 34584, Start Num: 48
Candidate Starts for Rana_48:
(31, 32452), (34, 32458), (Start: 48 @32494 has 546 MA's), (Start: 61 @32539 has 1 MA's), (79, 32650), (Start: 88 @32704 has 3 MA's), (90, 32710), (Start: 97 @32755 has 1 MA's), (114, 32836), (116, 32845), (131, 32923), (134, 32932), (141, 32965), (156, 33025), (158, 33058), (163, 33082), (171, 33115), (172, 33124), (182, 33202), (183, 33205), (200, 33262), (207, 33292), (216, 33355), (218, 33364), (229, 33415), (248, 33484), (283, 33529), (287, 33541), (301, 33640), (305, 33673), (318, 33730), (321, 33751), (327, 33787), (338, 33838), (346, 33874), (358, 33934), (370, 33997), (371, 34003), (378, 34048), (384, 34108), (395, 34135), (398, 34147), (407, 34201), (410, 34207), (420, 34252), (426, 34273), (436, 34306), (441, 34324), (447, 34354), (450, 34366), (457, 34393), (473, 34453), (488, 34525), (495, 34576),

Gene: Rasputin_41 Start: 32044, Stop: 29999, Start Num: 46
Candidate Starts for Rasputin_41:
(Start: 46 @32044 has 38 MA's), (74, 31924), (85, 31861), (87, 31855), (Start: 97 @31801 has 1 MA's), (114, 31720), (116, 31711), (125, 31651), (131, 31633), (156, 31531), (158, 31498), (159, 31495), (161, 31486), (167, 31465), (172, 31435), (178, 31372), (182, 31357), (184, 31351), (207, 31291), (213, 31258), (216, 31228), (217, 31222), (218, 31219), (259, 31084), (308, 30889), (312, 30871), (320, 30838), (338, 30748), (340, 30739), (367, 30607), (376, 30547), (385, 30475), (399, 30433), (402, 30421), (408, 30388), (418, 30349), (432, 30286), (436, 30277), (443, 30250), (447, 30229), (477, 30115),

Gene: Ravana_58 Start: 35505, Stop: 33442, Start Num: 42
Candidate Starts for Ravana_58:
(Start: 42 @35505 has 25 MA's), (87, 35310), (Start: 88 @35307 has 3 MA's), (114, 35175), (116, 35166), (141, 35046), (173, 34881), (177, 34842), (182, 34812), (199, 34770), (207, 34746), (212, 34716), (216, 34683), (217, 34677), (218, 34674), (278, 34500), (283, 34488), (291, 34452), (320, 34275), (321, 34272), (327, 34236), (341, 34170), (349, 34131), (351, 34119), (369, 34032), (370, 34026), (376, 33984), (426, 33753), (447, 33672), (464, 33612), (470, 33594), (488, 33501), (491, 33483),

Gene: ReMo_55 Start: 34692, Stop: 32629, Start Num: 42
Candidate Starts for ReMo_55:
(Start: 42 @34692 has 25 MA's), (87, 34497), (Start: 88 @34494 has 3 MA's), (114, 34362), (116, 34353), (141, 34233), (173, 34068), (177, 34029), (182, 33999), (199, 33957), (207, 33933), (212, 33903), (216, 33870), (217, 33864), (218, 33861), (278, 33687), (283, 33675), (291, 33639), (320, 33462), (321, 33459), (327, 33423), (341, 33357), (349, 33318), (351, 33306), (369, 33219), (370, 33213), (376, 33171), (426, 32940), (447, 32859), (464, 32799), (470, 32781), (488, 32688), (491, 32670),

Gene: Reba_54 Start: 35455, Stop: 33440, Start Num: 55
Candidate Starts for Reba_54:
(Start: 55 @35455 has 103 MA's), (Start: 71 @35362 has 1 MA's), (Start: 73 @35353 has 4 MA's), (Start: 88 @35278 has 3 MA's), (Start: 97 @35227 has 1 MA's), (114, 35146), (116, 35137), (125, 35080), (141, 35020), (156, 34960), (159, 34924), (172, 34864), (173, 34855), (182, 34786), (185,

34774), (207, 34714), (212, 34684), (213, 34681), (214, 34669), (216, 34651), (217, 34645), (218, 34642), (225, 34609), (261, 34507), (287, 34477), (312, 34306), (320, 34273), (323, 34255), (327, 34234), (333, 34210), (341, 34168), (345, 34150), (355, 34102), (370, 34027), (376, 33985), (383, 33922), (384, 33916), (391, 33892), (418, 33787), (436, 33718), (441, 33700), (443, 33691), (447, 33670), (470, 33592), (477, 33556), (490, 33493),

Gene: Rebeuca_49 Start: 35550, Stop: 33469, Start Num: 35
Candidate Starts for Rebeuca_49:
(Start: 35 @35550 has 17 MA's), (44, 35529), (Start: 73 @35409 has 4 MA's), (74, 35406), (78, 35385), (Start: 97 @35283 has 1 MA's), (102, 35250), (114, 35202), (116, 35193), (125, 35136), (141, 35076), (148, 35061), (159, 34980), (172, 34920), (182, 34842), (185, 34830), (206, 34779), (207, 34770), (212, 34740), (216, 34707), (217, 34701), (218, 34698), (273, 34533), (280, 34515), (291, 34470), (298, 34428), (321, 34290), (341, 34188), (345, 34170), (355, 34119), (369, 34050), (370, 34044), (373, 34029), (376, 34002), (378, 33993), (384, 33933), (407, 33858), (408, 33855), (410, 33852), (419, 33813), (430, 33762), (432, 33756), (447, 33699), (477, 33585), (488, 33528),

Gene: RedBear_48 Start: 32197, Stop: 34287, Start Num: 48
Candidate Starts for RedBear_48:
(34, 32158), (Start: 48 @32197 has 546 MA's), (79, 32353), (Start: 88 @32407 has 3 MA's), (90, 32413), (Start: 97 @32458 has 1 MA's), (114, 32539), (116, 32548), (131, 32626), (134, 32635), (141, 32668), (149, 32686), (163, 32785), (172, 32827), (182, 32905), (183, 32908), (207, 32995), (216, 33058), (218, 33067), (283, 33232), (287, 33244), (305, 33376), (321, 33454), (323, 33469), (327, 33490), (338, 33541), (370, 33700), (371, 33706), (378, 33751), (384, 33811), (395, 33838), (407, 33904), (410, 33910), (420, 33955), (425, 33973), (436, 34009), (441, 34027), (447, 34057), (457, 34096), (473, 34156), (488, 34228),

Gene: RedRock_53 Start: 36924, Stop: 34861, Start Num: 48
Candidate Starts for RedRock_53:
(Start: 48 @36924 has 546 MA's), (Start: 61 @36882 has 1 MA's), (Start: 73 @36810 has 4 MA's), (74, 36807), (Start: 88 @36735 has 3 MA's), (Start: 97 @36684 has 1 MA's), (102, 36651), (114, 36603), (116, 36594), (125, 36534), (141, 36474), (172, 36318), (173, 36309), (174, 36300), (182, 36240), (197, 36204), (207, 36174), (212, 36144), (213, 36141), (214, 36129), (216, 36111), (217, 36105), (218, 36102), (236, 36015), (280, 35916), (285, 35901), (291, 35871), (298, 35829), (321, 35691), (327, 35655), (341, 35589), (343, 35577), (370, 35445), (378, 35394), (391, 35313), (393, 35310), (396, 35304), (408, 35250), (418, 35211), (426, 35172), (436, 35139), (447, 35091), (463, 35034),

Gene: Refuge_50 Start: 36910, Stop: 34871, Start Num: 48
Candidate Starts for Refuge_50:
(Start: 48 @36910 has 546 MA's), (Start: 73 @36796 has 4 MA's), (74, 36793), (Start: 97 @36670 has 1 MA's), (102, 36637), (116, 36580), (125, 36520), (141, 36460), (172, 36304), (181, 36229), (182, 36226), (188, 36205), (207, 36160), (213, 36127), (216, 36097), (217, 36091), (218, 36088), (234, 36007), (280, 35923), (288, 35899), (291, 35878), (298, 35836), (321, 35698), (333, 35638), (341, 35596), (343, 35584), (345, 35578), (356, 35524), (358, 35515), (370, 35452), (374, 35419), (382, 35353), (408, 35257), (410, 35254), (425, 35185), (430, 35164), (447, 35101), (470, 35023),

Gene: Relief_49 Start: 35445, Stop: 33412, Start Num: 48
Candidate Starts for Relief_49:
(Start: 48 @35445 has 546 MA's), (68, 35382), (Start: 73 @35334 has 4 MA's), (78, 35310), (92, 35244), (Start: 97 @35208 has 1 MA's), (102, 35175), (114, 35127), (116, 35118), (125, 35061), (134, 35034), (141, 35001), (172, 34845), (173, 34836), (182, 34767), (207, 34695), (212, 34665), (213, 34662), (216, 34632), (217, 34626), (218, 34623), (236, 34536), (251, 34506), (261, 34494), (269, 34485), (287, 34437), (321, 34233), (341, 34131), (345, 34113), (373, 33972), (376, 33945), (407, 33801), (408, 33798), (416, 33768), (430, 33705), (441, 33672), (443, 33663), (447, 33642), (461,

33594), (477, 33528),

Gene: Remus_56 Start: 34602, Stop: 32539, Start Num: 42
Candidate Starts for Remus_56:
(Start: 42 @34602 has 25 MA's), (Start: 73 @34479 has 4 MA's), (87, 34407), (Start: 88 @34404 has 3 MA's), (114, 34272), (116, 34263), (141, 34143), (173, 33978), (177, 33939), (182, 33909), (199, 33867), (207, 33843), (212, 33813), (216, 33780), (217, 33774), (218, 33771), (278, 33597), (283, 33585), (291, 33549), (320, 33372), (321, 33369), (327, 33333), (341, 33267), (349, 33228), (351, 33216), (369, 33129), (370, 33123), (376, 33081), (426, 32850), (447, 32769), (464, 32709), (470, 32691), (488, 32598), (491, 32580),

Gene: ResDef_50 Start: 35710, Stop: 33692, Start Num: 55
Candidate Starts for ResDef_50:
(Start: 55 @35710 has 103 MA's), (Start: 71 @35617 has 1 MA's), (Start: 73 @35608 has 4 MA's), (77, 35587), (92, 35518), (Start: 97 @35482 has 1 MA's), (102, 35449), (114, 35401), (116, 35392), (141, 35275), (159, 35179), (172, 35119), (179, 35050), (182, 35041), (185, 35029), (207, 34969), (212, 34939), (213, 34936), (214, 34924), (216, 34906), (217, 34900), (218, 34897), (239, 34792), (242, 34786), (287, 34729), (321, 34525), (333, 34465), (341, 34423), (345, 34405), (358, 34342), (370, 34279), (373, 34264), (376, 34237), (385, 34165), (408, 34078), (419, 34036), (443, 33943), (447, 33922), (477, 33808),

Gene: Retro23_52 Start: 36110, Stop: 34050, Start Num: 48
Candidate Starts for Retro23_52:
(Start: 48 @36110 has 546 MA's), (59, 36074), (Start: 73 @35999 has 4 MA's), (74, 35996), (Start: 88 @35924 has 3 MA's), (Start: 97 @35873 has 1 MA's), (100, 35855), (109, 35819), (116, 35783), (141, 35663), (171, 35516), (172, 35507), (182, 35429), (207, 35357), (212, 35327), (213, 35324), (214, 35312), (216, 35294), (217, 35288), (218, 35285), (244, 35174), (280, 35102), (291, 35057), (298, 35015), (321, 34877), (327, 34841), (341, 34775), (343, 34763), (356, 34703), (367, 34649), (370, 34631), (408, 34436), (418, 34397), (419, 34394), (430, 34343), (447, 34280), (461, 34232), (463, 34223), (492, 34082),

Gene: RexFury_40 Start: 32105, Stop: 30060, Start Num: 46
Candidate Starts for RexFury_40:
(Start: 46 @32105 has 38 MA's), (74, 31985), (87, 31916), (Start: 97 @31862 has 1 MA's), (114, 31781), (116, 31772), (125, 31712), (131, 31694), (156, 31592), (158, 31559), (159, 31556), (161, 31547), (167, 31526), (172, 31496), (178, 31433), (182, 31418), (184, 31412), (207, 31352), (213, 31319), (216, 31289), (217, 31283), (218, 31280), (259, 31145), (308, 30950), (312, 30932), (320, 30899), (338, 30809), (340, 30800), (367, 30668), (376, 30608), (385, 30536), (399, 30494), (402, 30482), (408, 30449), (418, 30410), (432, 30347), (436, 30338), (443, 30311), (447, 30290), (477, 30176),

Gene: Rhodalysa_41 Start: 32074, Stop: 30029, Start Num: 46
Candidate Starts for Rhodalysa_41:
(Start: 46 @32074 has 38 MA's), (74, 31954), (85, 31891), (87, 31885), (Start: 97 @31831 has 1 MA's), (114, 31750), (116, 31741), (125, 31681), (131, 31663), (156, 31561), (158, 31528), (159, 31525), (161, 31516), (167, 31495), (171, 31474), (172, 31465), (178, 31402), (182, 31387), (184, 31381), (207, 31321), (213, 31288), (216, 31258), (217, 31252), (218, 31249), (259, 31114), (312, 30901), (320, 30868), (338, 30778), (340, 30769), (367, 30637), (376, 30577), (385, 30505), (398, 30466), (399, 30463), (402, 30451), (418, 30379), (436, 30307), (443, 30280), (477, 30145),

Gene: RhynO_50 Start: 35352, Stop: 33271, Start Num: 35
Candidate Starts for RhynO_50:

(Start: 35 @35352 has 17 MA's), (44, 35331), (Start: 73 @35211 has 4 MA's), (74, 35208), (78, 35187), (Start: 97 @35085 has 1 MA's), (102, 35052), (114, 35004), (116, 34995), (141, 34878), (148, 34863), (159, 34782), (172, 34722), (182, 34644), (185, 34632), (206, 34581), (207, 34572), (212, 34542), (216, 34509), (217, 34503), (218, 34500), (273, 34335), (280, 34317), (291, 34272), (298, 34230), (321, 34092), (341, 33990), (345, 33972), (355, 33921), (369, 33852), (370, 33846), (373, 33831), (376, 33804), (378, 33795), (384, 33735), (407, 33660), (408, 33657), (410, 33654), (419, 33615), (430, 33564), (432, 33558), (447, 33501), (477, 33387), (488, 33330),

Gene: Rifter_54 Start: 34380, Stop: 32326, Start Num: 48
Candidate Starts for Rifter_54:
(Start: 48 @34380 has 546 MA's), (Start: 88 @34194 has 3 MA's), (Start: 97 @34143 has 1 MA's), (102, 34110), (114, 34062), (116, 34053), (125, 33993), (141, 33933), (155, 33876), (159, 33837), (168, 33804), (172, 33777), (173, 33768), (178, 33714), (182, 33699), (207, 33627), (212, 33597), (216, 33564), (217, 33558), (218, 33555), (236, 33468), (258, 33414), (278, 33381), (291, 33333), (298, 33291), (321, 33153), (343, 33039), (356, 32979), (358, 32970), (367, 32925), (370, 32907), (374, 32874), (393, 32772), (396, 32766), (408, 32712), (415, 32685), (418, 32673), (430, 32619), (447, 32556), (454, 32526), (463, 32499), (470, 32478),

Gene: Rikishi_45 Start: 19439, Stop: 21379, Start Num: 64
Candidate Starts for Rikishi_45:
(Start: 64 @19439 has 81 MA's), (90, 19571), (96, 19607), (102, 19643), (110, 19670), (112, 19682), (132, 19787), (150, 19844), (188, 20069), (210, 20123), (221, 20207), (232, 20258), (239, 20297), (245, 20309), (293, 20387), (305, 20486), (314, 20522), (345, 20669), (379, 20843), (382, 20879), (400, 20948), (401, 20951), (439, 21122), (476, 21260),

Gene: Riptide_40 Start: 18134, Stop: 20077, Start Num: 64
Candidate Starts for Riptide_40:
(Start: 64 @18134 has 81 MA's), (Start: 67 @18140 has 1 MA's), (83, 18242), (86, 18263), (90, 18272), (108, 18362), (110, 18371), (111, 18380), (112, 18383), (132, 18488), (188, 18770), (204, 18797), (221, 18908), (239, 18998), (245, 19010), (314, 19223), (345, 19370), (348, 19388), (379, 19544), (401, 19652), (439, 19823), (448, 19862), (476, 19961), (490, 20033), (494, 20063),

Gene: Roary_48 Start: 33982, Stop: 31937, Start Num: 48
Candidate Starts for Roary_48:
(Start: 48 @33982 has 546 MA's), (75, 33856), (87, 33799), (Start: 88 @33796 has 3 MA's), (Start: 97 @33745 has 1 MA's), (102, 33712), (114, 33664), (116, 33655), (121, 33613), (149, 33517), (155, 33478), (160, 33433), (171, 33388), (172, 33379), (178, 33316), (179, 33310), (182, 33301), (183, 33298), (190, 33277), (207, 33229), (212, 33199), (213, 33196), (216, 33166), (217, 33160), (218, 33157), (291, 32959), (321, 32776), (327, 32740), (341, 32674), (363, 32575), (369, 32536), (376, 32488), (378, 32479), (392, 32395), (416, 32293), (426, 32248), (441, 32197), (443, 32188), (447, 32167), (451, 32149), (491, 31978),

Gene: RockieBear_50 Start: 35448, Stop: 33415, Start Num: 48
Candidate Starts for RockieBear_50:
(Start: 48 @35448 has 546 MA's), (68, 35385), (Start: 73 @35337 has 4 MA's), (78, 35313), (92, 35247), (Start: 97 @35211 has 1 MA's), (102, 35178), (114, 35130), (116, 35121), (125, 35064), (134, 35037), (141, 35004), (172, 34848), (173, 34839), (182, 34770), (207, 34698), (212, 34668), (213, 34665), (216, 34635), (217, 34629), (218, 34626), (236, 34539), (251, 34509), (261, 34497), (269, 34488), (287, 34440), (321, 34236), (341, 34134), (345, 34116), (373, 33975), (376, 33948), (407, 33804), (408, 33801), (416, 33771), (430, 33708), (441, 33675), (443, 33666), (447, 33645), (461, 33597), (477, 33531),

Gene: Rocksand_50 Start: 35444, Stop: 33411, Start Num: 48

Candidate Starts for Rocksand_50:
(Start: 48 @35444 has 546 MA's), (68, 35381), (Start: 73 @35333 has 4 MA's), (78, 35309), (92, 35243), (Start: 97 @35207 has 1 MA's), (102, 35174), (114, 35126), (116, 35117), (125, 35060), (134, 35033), (141, 35000), (172, 34844), (173, 34835), (182, 34766), (207, 34694), (212, 34664), (213, 34661), (216, 34631), (217, 34625), (218, 34622), (236, 34535), (247, 34511), (251, 34505), (261, 34493), (269, 34484), (287, 34436), (321, 34232), (341, 34130), (345, 34112), (373, 33971), (376, 33944), (407, 33800), (408, 33797), (416, 33767), (430, 33704), (441, 33671), (443, 33662), (447, 33641), (461, 33593), (477, 33527),

Gene: Rockstar_51 Start: 35206, Stop: 33185, Start Num: 48
Candidate Starts for Rockstar_51:
(Start: 48 @35206 has 546 MA's), (Start: 73 @35095 has 4 MA's), (74, 35092), (92, 35005), (Start: 97 @34969 has 1 MA's), (102, 34936), (114, 34888), (116, 34879), (141, 34759), (148, 34744), (168, 34630), (172, 34603), (173, 34594), (182, 34525), (188, 34504), (190, 34501), (207, 34459), (214, 34414), (216, 34396), (217, 34390), (218, 34387), (287, 34222), (321, 34018), (333, 33958), (341, 33916), (345, 33898), (369, 33778), (370, 33772), (373, 33757), (385, 33658), (407, 33574), (416, 33541), (419, 33529), (443, 33436), (447, 33415), (477, 33301),

Gene: Roimos_51 Start: 35562, Stop: 33538, Start Num: 48
Candidate Starts for Roimos_51:
(Start: 48 @35562 has 546 MA's), (74, 35448), (92, 35361), (Start: 97 @35325 has 1 MA's), (102, 35292), (114, 35244), (116, 35235), (141, 35115), (168, 34986), (172, 34959), (173, 34950), (182, 34881), (188, 34860), (190, 34857), (207, 34815), (212, 34785), (214, 34770), (216, 34752), (217, 34746), (218, 34743), (239, 34638), (242, 34632), (287, 34575), (294, 34536), (321, 34371), (327, 34335), (333, 34311), (341, 34269), (345, 34251), (369, 34131), (370, 34125), (373, 34110), (376, 34083), (403, 33945), (419, 33882), (443, 33789), (447, 33768), (471, 33687), (477, 33654),

Gene: Roksolana_55 Start: 35244, Stop: 33190, Start Num: 48
Candidate Starts for Roksolana_55:
(Start: 48 @35244 has 546 MA's), (Start: 88 @35058 has 3 MA's), (Start: 97 @35007 has 1 MA's), (102, 34974), (114, 34926), (116, 34917), (125, 34857), (141, 34797), (155, 34740), (159, 34701), (168, 34668), (172, 34641), (173, 34632), (178, 34578), (182, 34563), (207, 34491), (212, 34461), (216, 34428), (217, 34422), (218, 34419), (236, 34332), (258, 34278), (278, 34245), (291, 34197), (298, 34155), (321, 34017), (343, 33903), (356, 33843), (358, 33834), (367, 33789), (370, 33771), (374, 33738), (393, 33636), (396, 33630), (408, 33576), (418, 33537), (430, 33483), (447, 33420), (454, 33390), (463, 33363), (472, 33324),

Gene: Romney_50 Start: 35445, Stop: 33412, Start Num: 48
Candidate Starts for Romney_50:
(Start: 48 @35445 has 546 MA's), (68, 35382), (Start: 73 @35334 has 4 MA's), (78, 35310), (92, 35244), (Start: 97 @35208 has 1 MA's), (102, 35175), (114, 35127), (116, 35118), (125, 35061), (134, 35034), (141, 35001), (172, 34845), (173, 34836), (182, 34767), (207, 34695), (212, 34665), (213, 34662), (216, 34632), (217, 34626), (218, 34623), (236, 34536), (251, 34506), (261, 34494), (269, 34485), (287, 34437), (321, 34233), (341, 34131), (345, 34113), (373, 33972), (376, 33945), (407, 33801), (408, 33798), (416, 33768), (430, 33705), (441, 33672), (443, 33663), (447, 33642), (461, 33594), (477, 33528),

Gene: Roosevelt_49 Start: 35450, Stop: 33417, Start Num: 48
Candidate Starts for Roosevelt_49:
(Start: 48 @35450 has 546 MA's), (68, 35387), (Start: 73 @35339 has 4 MA's), (78, 35315), (92, 35249), (Start: 97 @35213 has 1 MA's), (102, 35180), (114, 35132), (116, 35123), (125, 35066), (134, 35039), (141, 35006), (172, 34850), (173, 34841), (182, 34772), (207, 34700), (212, 34670), (213, 34667), (216, 34637), (217, 34631), (218, 34628), (236, 34541), (251, 34511), (261, 34499), (269,

34490), (287, 34442), (321, 34238), (341, 34136), (345, 34118), (373, 33977), (376, 33950), (407, 33806), (408, 33803), (416, 33773), (430, 33710), (441, 33677), (443, 33668), (447, 33647), (461, 33599), (477, 33533),

Gene: Rosa24_49 Start: 35476, Stop: 33443, Start Num: 48
Candidate Starts for Rosa24_49:
(Start: 48 @35476 has 546 MA's), (68, 35413), (Start: 73 @35365 has 4 MA's), (78, 35341), (92, 35275), (Start: 97 @35239 has 1 MA's), (102, 35206), (114, 35158), (116, 35149), (125, 35092), (134, 35065), (141, 35032), (172, 34876), (173, 34867), (182, 34798), (207, 34726), (212, 34696), (213, 34693), (216, 34663), (217, 34657), (218, 34654), (236, 34567), (251, 34537), (261, 34525), (269, 34516), (287, 34468), (321, 34264), (341, 34162), (345, 34144), (373, 34003), (376, 33976), (407, 33832), (408, 33829), (416, 33799), (430, 33736), (441, 33703), (443, 33694), (447, 33673), (461, 33625), (477, 33559),

Gene: Rosalind_55 Start: 34900, Stop: 32837, Start Num: 42
Candidate Starts for Rosalind_55:
(Start: 42 @34900 has 25 MA's), (77, 34756), (87, 34705), (Start: 88 @34702 has 3 MA's), (114, 34570), (116, 34561), (141, 34441), (173, 34276), (177, 34237), (182, 34207), (199, 34165), (207, 34141), (212, 34111), (216, 34078), (217, 34072), (218, 34069), (278, 33895), (283, 33883), (291, 33847), (320, 33670), (321, 33667), (327, 33631), (349, 33526), (351, 33514), (369, 33427), (370, 33421), (376, 33379), (426, 33148), (447, 33067), (464, 33007), (470, 32989), (488, 32896), (491, 32878),

Gene: Rowdy_53 Start: 35260, Stop: 33179, Start Num: 35
Candidate Starts for Rowdy_53:
(Start: 35 @35260 has 17 MA's), (44, 35239), (Start: 73 @35119 has 4 MA's), (74, 35116), (78, 35095), (Start: 97 @34993 has 1 MA's), (102, 34960), (114, 34912), (116, 34903), (125, 34846), (141, 34786), (148, 34771), (159, 34690), (172, 34630), (182, 34552), (185, 34540), (206, 34489), (207, 34480), (212, 34450), (216, 34417), (217, 34411), (218, 34408), (273, 34243), (280, 34225), (291, 34180), (298, 34138), (321, 34000), (341, 33898), (345, 33880), (355, 33829), (369, 33760), (370, 33754), (373, 33739), (376, 33712), (378, 33703), (384, 33643), (407, 33568), (408, 33565), (410, 33562), (419, 33523), (430, 33472), (432, 33466), (447, 33409), (477, 33295), (488, 33238),

Gene: Ruin_50 Start: 35441, Stop: 33408, Start Num: 48
Candidate Starts for Ruin_50:
(Start: 48 @35441 has 546 MA's), (68, 35378), (Start: 73 @35330 has 4 MA's), (78, 35306), (92, 35240), (Start: 97 @35204 has 1 MA's), (102, 35171), (114, 35123), (116, 35114), (125, 35057), (134, 35030), (141, 34997), (172, 34841), (173, 34832), (182, 34763), (207, 34691), (212, 34661), (213, 34658), (216, 34628), (217, 34622), (218, 34619), (236, 34532), (251, 34502), (261, 34490), (269, 34481), (287, 34433), (321, 34229), (341, 34127), (345, 34109), (373, 33968), (376, 33941), (407, 33797), (408, 33794), (416, 33764), (430, 33701), (441, 33668), (443, 33659), (447, 33638), (461, 33590), (477, 33524),

Gene: Rummer_53 Start: 35934, Stop: 33916, Start Num: 55
Candidate Starts for Rummer_53:
(Start: 55 @35934 has 103 MA's), (Start: 71 @35841 has 1 MA's), (Start: 73 @35832 has 4 MA's), (78, 35808), (Start: 88 @35757 has 3 MA's), (Start: 97 @35706 has 1 MA's), (114, 35625), (116, 35616), (141, 35499), (159, 35403), (172, 35343), (179, 35274), (182, 35265), (183, 35262), (185, 35253), (207, 35193), (212, 35163), (213, 35160), (214, 35148), (216, 35130), (217, 35124), (218, 35121), (239, 35016), (242, 35010), (287, 34953), (321, 34749), (323, 34734), (327, 34713), (333, 34689), (338, 34662), (341, 34647), (369, 34509), (370, 34503), (373, 34488), (376, 34461), (383, 34398), (384, 34392), (391, 34368), (418, 34263), (426, 34227), (447, 34146), (470, 34068), (477, 34032), (490, 33969),

Gene: RunningOnE_26 Start: 13890, Stop: 11851, Start Num: 55
Candidate Starts for RunningOnE_26:
(Start: 55 @13890 has 103 MA's), (Start: 73 @13788 has 4 MA's), (91, 13704), (92, 13698), (117, 13557), (141, 13452), (156, 13392), (182, 13218), (183, 13215), (198, 13164), (207, 13143), (216, 13080), (218, 13071), (236, 12987), (241, 12966), (287, 12885), (291, 12861), (305, 12753), (360, 12489), (361, 12486), (372, 12423), (376, 12393), (385, 12318), (393, 12294), (402, 12264), (410, 12228), (436, 12141), (441, 12123), (464, 12033), (475, 11985), (477, 11979), (495, 11859),

Gene: Rusticus_48 Start: 31960, Stop: 34050, Start Num: 48
Candidate Starts for Rusticus_48:
(15, 31876), (17, 31882), (31, 31918), (34, 31924), (Start: 48 @31960 has 546 MA's), (78, 32101), (79, 32116), (82, 32137), (Start: 88 @32170 has 3 MA's), (90, 32176), (Start: 97 @32221 has 1 MA's), (114, 32302), (116, 32311), (131, 32389), (134, 32398), (141, 32431), (158, 32524), (163, 32548), (172, 32590), (182, 32668), (183, 32671), (207, 32758), (216, 32821), (218, 32830), (283, 32995), (287, 33007), (309, 33166), (321, 33217), (323, 33232), (327, 33253), (341, 33319), (370, 33463), (371, 33469), (373, 33478), (378, 33514), (382, 33562), (384, 33574), (395, 33601), (398, 33613), (407, 33667), (420, 33718), (426, 33739), (436, 33772), (441, 33790), (447, 33820), (450, 33832), (457, 33859), (473, 33919), (486, 33988), (488, 33991), (495, 34042),

Gene: RyeScarlet_51 Start: 35742, Stop: 33703, Start Num: 48
Candidate Starts for RyeScarlet_51:
(Start: 48 @35742 has 546 MA's), (Start: 73 @35628 has 4 MA's), (75, 35613), (78, 35604), (Start: 97 @35502 has 1 MA's), (116, 35412), (125, 35352), (126, 35349), (141, 35292), (171, 35145), (172, 35136), (182, 35058), (185, 35046), (207, 34992), (212, 34962), (214, 34947), (216, 34929), (217, 34923), (218, 34920), (280, 34755), (291, 34710), (321, 34530), (341, 34428), (356, 34356), (374, 34251), (376, 34242), (408, 34089), (416, 34059), (430, 33996), (447, 33933),

Gene: Sabertooth_50 Start: 35450, Stop: 33417, Start Num: 48
Candidate Starts for Sabertooth_50:
(Start: 48 @35450 has 546 MA's), (68, 35387), (Start: 73 @35339 has 4 MA's), (78, 35315), (92, 35249), (Start: 97 @35213 has 1 MA's), (102, 35180), (114, 35132), (116, 35123), (125, 35066), (134, 35039), (141, 35006), (172, 34850), (173, 34841), (182, 34772), (207, 34700), (212, 34670), (213, 34667), (216, 34637), (217, 34631), (218, 34628), (236, 34541), (247, 34517), (251, 34511), (261, 34499), (269, 34490), (287, 34442), (321, 34238), (341, 34136), (345, 34118), (373, 33977), (376, 33950), (407, 33806), (408, 33803), (416, 33773), (430, 33710), (441, 33677), (443, 33668), (447, 33647), (461, 33599), (477, 33533),

Gene: Sabia_54 Start: 35915, Stop: 33897, Start Num: 55
Candidate Starts for Sabia_54:
(Start: 55 @35915 has 103 MA's), (Start: 73 @35813 has 4 MA's), (78, 35789), (Start: 88 @35738 has 3 MA's), (Start: 97 @35687 has 1 MA's), (114, 35606), (116, 35597), (141, 35477), (156, 35417), (159, 35381), (172, 35321), (182, 35243), (207, 35171), (212, 35141), (216, 35108), (217, 35102), (218, 35099), (234, 35018), (242, 34988), (287, 34934), (312, 34763), (333, 34667), (341, 34625), (345, 34607), (355, 34559), (358, 34547), (369, 34490), (370, 34484), (373, 34469), (376, 34442), (383, 34379), (384, 34373), (391, 34349), (418, 34244), (436, 34175), (441, 34157), (443, 34148), (447, 34127), (470, 34049), (477, 34013), (490, 33950),

Gene: Sabinator_53 Start: 35905, Stop: 33887, Start Num: 55
Candidate Starts for Sabinator_53:
(Start: 55 @35905 has 103 MA's), (Start: 71 @35812 has 1 MA's), (Start: 73 @35803 has 4 MA's), (78, 35779), (Start: 88 @35728 has 3 MA's), (Start: 97 @35677 has 1 MA's), (114, 35596), (116, 35587), (141, 35467), (156, 35407), (159, 35371), (172, 35311), (182, 35233), (207, 35161), (212, 35131),

(216, 35098), (217, 35092), (218, 35089), (234, 35008), (242, 34978), (287, 34924), (312, 34753), (333, 34657), (341, 34615), (345, 34597), (355, 34549), (358, 34537), (369, 34480), (370, 34474), (373, 34459), (376, 34432), (383, 34369), (384, 34363), (391, 34339), (418, 34234), (436, 34165), (441, 34147), (443, 34138), (447, 34117), (470, 34039), (477, 34003), (490, 33940),

Gene: Sachima_51 Start: 35652, Stop: 33613, Start Num: 48
Candidate Starts for Sachima_51:
(Start: 48 @35652 has 546 MA's), (Start: 73 @35538 has 4 MA's), (75, 35523), (78, 35514), (Start: 97 @35412 has 1 MA's), (116, 35322), (125, 35262), (141, 35202), (171, 35055), (172, 35046), (182, 34968), (185, 34956), (207, 34902), (212, 34872), (214, 34857), (216, 34839), (217, 34833), (218, 34830), (280, 34665), (291, 34620), (321, 34440), (341, 34338), (356, 34266), (374, 34161), (376, 34152), (408, 33999), (416, 33969), (430, 33906), (447, 33843),

Gene: Saftant_47 Start: 33416, Stop: 35464, Start Num: 48
Candidate Starts for Saftant_47:
(Start: 48 @33416 has 546 MA's), (Start: 71 @33518 has 1 MA's), (Start: 73 @33527 has 4 MA's), (81, 33578), (82, 33584), (Start: 88 @33617 has 3 MA's), (Start: 97 @33668 has 1 MA's), (102, 33701), (116, 33758), (117, 33773), (134, 33845), (141, 33878), (163, 33995), (172, 34037), (173, 34046), (182, 34115), (183, 34118), (187, 34139), (207, 34190), (212, 34220), (216, 34253), (283, 34415), (287, 34427), (294, 34466), (318, 34616), (327, 34673), (354, 34796), (373, 34895), (376, 34922), (378, 34931), (402, 35048), (407, 35084), (408, 35087), (420, 35135), (436, 35189), (441, 35207), (447, 35237), (451, 35255), (473, 35333), (495, 35456),

Gene: Saintus_42 Start: 30698, Stop: 28659, Start Num: 48
Candidate Starts for Saintus_42:
(Start: 48 @30698 has 546 MA's), (75, 30572), (87, 30515), (Start: 88 @30512 has 3 MA's), (Start: 97 @30461 has 1 MA's), (102, 30428), (114, 30380), (116, 30371), (121, 30329), (149, 30233), (155, 30194), (160, 30149), (171, 30104), (172, 30095), (178, 30032), (179, 30026), (182, 30017), (183, 30014), (207, 29945), (212, 29915), (213, 29912), (216, 29882), (217, 29876), (218, 29873), (280, 29720), (291, 29675), (321, 29492), (327, 29456), (341, 29390), (363, 29291), (369, 29252), (370, 29246), (376, 29204), (378, 29195), (389, 29114), (407, 29048), (416, 29015), (426, 28970), (436, 28937), (443, 28910), (447, 28889), (451, 28871), (491, 28700),

Gene: SaltySpitoon_45 Start: 19533, Stop: 21473, Start Num: 64
Candidate Starts for SaltySpitoon_45:
(Start: 64 @19533 has 81 MA's), (90, 19665), (96, 19701), (102, 19737), (110, 19764), (112, 19776), (132, 19881), (150, 19938), (188, 20163), (210, 20217), (221, 20301), (232, 20352), (239, 20391), (245, 20403), (293, 20481), (305, 20580), (314, 20616), (345, 20763), (379, 20937), (382, 20973), (400, 21042), (401, 21045), (439, 21216), (476, 21354),

Gene: Salz_50 Start: 34643, Stop: 32805, Start Num: 88
Candidate Starts for Salz_50:
(28, 34877), (43, 34844), (Start: 52 @34826 has 24 MA's), (Start: 73 @34718 has 4 MA's), (Start: 88 @34643 has 3 MA's), (114, 34511), (116, 34502), (141, 34382), (172, 34226), (177, 34178), (181, 34151), (182, 34148), (185, 34136), (201, 34103), (207, 34082), (214, 34037), (216, 34019), (217, 34013), (218, 34010), (257, 33890), (291, 33815), (294, 33800), (321, 33635), (333, 33575), (341, 33533), (345, 33515), (360, 33443), (370, 33389), (373, 33374), (374, 33356), (391, 33257), (408, 33194), (418, 33155), (441, 33065), (447, 33035), (461, 32987),

Gene: Samisti12_42 Start: 20108, Stop: 22060, Start Num: 64
Candidate Starts for Samisti12_42:
(Start: 52 @20063 has 24 MA's), (Start: 55 @20072 has 103 MA's), (Start: 64 @20108 has 81 MA's), (Start: 67 @20114 has 1 MA's), (83, 20216), (86, 20237), (90, 20246), (108, 20336), (110, 20345),

(111, 20354), (112, 20357), (132, 20462), (153, 20552), (204, 20771), (239, 20972), (245, 20984), (314, 21197), (317, 21206), (336, 21302), (345, 21344), (348, 21362), (379, 21518), (401, 21626), (439, 21797), (442, 21803), (448, 21836), (476, 21935),

Gene: SarahRose_47 Start: 32000, Stop: 34090, Start Num: 48
Candidate Starts for SarahRose_47:
(16, 31919), (Start: 48 @32000 has 546 MA's), (Start: 61 @32045 has 1 MA's), (79, 32156), (82, 32177), (Start: 88 @32210 has 3 MA's), (90, 32216), (Start: 97 @32261 has 1 MA's), (114, 32342), (116, 32351), (131, 32429), (141, 32471), (156, 32531), (158, 32564), (163, 32588), (172, 32630), (173, 32639), (182, 32708), (183, 32711), (207, 32798), (216, 32861), (218, 32870), (229, 32921), (248, 32990), (283, 33035), (287, 33047), (305, 33179), (318, 33236), (321, 33257), (323, 33272), (327, 33293), (338, 33344), (346, 33380), (347, 33386), (358, 33440), (370, 33503), (371, 33509), (378, 33554), (384, 33614), (395, 33641), (398, 33653), (407, 33707), (410, 33713), (420, 33758), (426, 33779), (436, 33812), (441, 33830), (447, 33860), (450, 33872), (457, 33899), (473, 33959), (488, 34031),

Gene: Saskia_52 Start: 34854, Stop: 32806, Start Num: 52
Candidate Starts for Saskia_52:
(28, 34905), (43, 34872), (Start: 52 @34854 has 24 MA's), (Start: 73 @34746 has 4 MA's), (Start: 88 @34671 has 3 MA's), (114, 34539), (116, 34530), (140, 34413), (141, 34410), (172, 34254), (177, 34206), (181, 34179), (182, 34176), (185, 34164), (201, 34131), (207, 34110), (214, 34065), (216, 34047), (217, 34041), (218, 34038), (236, 33951), (266, 33897), (278, 33864), (291, 33816), (294, 33801), (321, 33636), (341, 33534), (345, 33516), (360, 33444), (370, 33390), (373, 33375), (374, 33357), (408, 33195), (418, 33156), (441, 33066), (447, 33036), (461, 32988),

Gene: SaturnRing_52 Start: 35769, Stop: 33748, Start Num: 48
Candidate Starts for SaturnRing_52:
(Start: 48 @35769 has 546 MA's), (74, 35655), (92, 35568), (Start: 97 @35532 has 1 MA's), (114, 35451), (116, 35442), (124, 35385), (141, 35322), (172, 35166), (182, 35088), (188, 35067), (190, 35064), (207, 35022), (212, 34992), (214, 34977), (216, 34959), (217, 34953), (218, 34950), (225, 34917), (287, 34785), (321, 34581), (327, 34545), (333, 34521), (341, 34479), (345, 34461), (369, 34341), (370, 34335), (373, 34320), (376, 34293), (403, 34155), (419, 34092), (443, 33999), (447, 33978), (471, 33897), (477, 33864),

Gene: Scamp_50 Start: 35450, Stop: 33417, Start Num: 48
Candidate Starts for Scamp_50:
(Start: 48 @35450 has 546 MA's), (68, 35387), (Start: 73 @35339 has 4 MA's), (78, 35315), (92, 35249), (Start: 97 @35213 has 1 MA's), (102, 35180), (114, 35132), (116, 35123), (125, 35066), (134, 35039), (141, 35006), (172, 34850), (173, 34841), (182, 34772), (207, 34700), (212, 34670), (213, 34667), (216, 34637), (217, 34631), (218, 34628), (236, 34541), (251, 34511), (261, 34499), (269, 34490), (287, 34442), (321, 34238), (341, 34136), (345, 34118), (373, 33977), (376, 33950), (407, 33806), (408, 33803), (416, 33773), (430, 33710), (441, 33677), (443, 33668), (447, 33647), (461, 33599), (477, 33533),

Gene: Scheme_43 Start: 19527, Stop: 21479, Start Num: 64
Candidate Starts for Scheme_43:
(Start: 52 @19482 has 24 MA's), (Start: 55 @19491 has 103 MA's), (Start: 64 @19527 has 81 MA's), (Start: 67 @19533 has 1 MA's), (83, 19635), (86, 19656), (90, 19665), (108, 19755), (110, 19764), (111, 19773), (112, 19776), (132, 19881), (204, 20190), (239, 20391), (245, 20403), (314, 20616), (317, 20625), (336, 20721), (345, 20763), (348, 20781), (379, 20937), (401, 21045), (439, 21216), (448, 21255), (476, 21354),

Gene: Scherzo_51 Start: 35956, Stop: 33917, Start Num: 48

Candidate Starts for Scherzo_51:
(Start: 48 @35956 has 546 MA's), (Start: 73 @35842 has 4 MA's), (75, 35827), (78, 35818), (Start: 97 @35716 has 1 MA's), (116, 35626), (125, 35566), (126, 35563), (141, 35506), (171, 35359), (172, 35350), (182, 35272), (185, 35260), (207, 35206), (212, 35176), (214, 35161), (216, 35143), (217, 35137), (218, 35134), (280, 34969), (291, 34924), (321, 34744), (343, 34630), (356, 34570), (374, 34465), (376, 34456), (408, 34303), (416, 34273), (430, 34210), (447, 34147),

Gene: Scorpia_47 Start: 34445, Stop: 32355, Start Num: 48
Candidate Starts for Scorpia_47:
(Start: 48 @34445 has 546 MA's), (Start: 88 @34259 has 3 MA's), (102, 34175), (114, 34127), (116, 34118), (121, 34076), (149, 33980), (155, 33941), (160, 33896), (171, 33851), (172, 33842), (178, 33779), (179, 33773), (182, 33764), (203, 33710), (207, 33692), (212, 33662), (213, 33659), (214, 33647), (216, 33629), (217, 33623), (218, 33620), (242, 33509), (291, 33368), (298, 33326), (319, 33206), (320, 33191), (323, 33173), (334, 33125), (341, 33086), (355, 33017), (367, 32960), (369, 32948), (370, 32942), (376, 32900), (378, 32891), (391, 32810), (407, 32744), (416, 32711), (425, 32669), (436, 32633), (441, 32615), (443, 32606), (491, 32396),

Gene: Scout_51 Start: 34893, Stop: 32869, Start Num: 48
Candidate Starts for Scout_51:
(Start: 48 @34893 has 546 MA's), (74, 34779), (92, 34692), (Start: 97 @34656 has 1 MA's), (102, 34623), (114, 34575), (116, 34566), (141, 34446), (168, 34317), (172, 34290), (173, 34281), (182, 34212), (188, 34191), (190, 34188), (207, 34146), (212, 34116), (214, 34101), (216, 34083), (217, 34077), (218, 34074), (239, 33969), (242, 33963), (287, 33906), (294, 33867), (321, 33702), (327, 33666), (333, 33642), (341, 33600), (345, 33582), (369, 33462), (370, 33456), (373, 33441), (376, 33414), (378, 33405), (403, 33276), (419, 33213), (443, 33120), (447, 33099), (471, 33018), (477, 32985),

Gene: SemperFi_52 Start: 35947, Stop: 33911, Start Num: 48
Candidate Starts for SemperFi_52:
(Start: 48 @35947 has 546 MA's), (Start: 73 @35836 has 4 MA's), (74, 35833), (Start: 88 @35761 has 3 MA's), (Start: 97 @35710 has 1 MA's), (100, 35692), (109, 35656), (116, 35620), (141, 35500), (171, 35353), (172, 35344), (182, 35266), (207, 35194), (212, 35164), (213, 35161), (214, 35149), (216, 35131), (217, 35125), (218, 35122), (280, 34963), (291, 34918), (298, 34876), (321, 34738), (327, 34702), (341, 34636), (343, 34624), (356, 34564), (367, 34510), (370, 34492), (408, 34297), (418, 34258), (419, 34255), (430, 34204), (447, 34141), (461, 34093), (463, 34084), (492, 33943),

Gene: SenorClean_50 Start: 35448, Stop: 33415, Start Num: 48
Candidate Starts for SenorClean_50:
(Start: 48 @35448 has 546 MA's), (68, 35385), (Start: 73 @35337 has 4 MA's), (78, 35313), (92, 35247), (Start: 97 @35211 has 1 MA's), (102, 35178), (114, 35130), (116, 35121), (125, 35064), (134, 35037), (141, 35004), (172, 34848), (173, 34839), (182, 34770), (207, 34698), (212, 34668), (213, 34665), (216, 34635), (217, 34629), (218, 34626), (236, 34539), (251, 34509), (261, 34497), (269, 34488), (287, 34440), (321, 34236), (341, 34134), (345, 34116), (373, 33975), (376, 33948), (407, 33804), (408, 33801), (416, 33771), (430, 33708), (441, 33675), (443, 33666), (447, 33645), (461, 33597), (477, 33531),

Gene: Serenity_51 Start: 34902, Stop: 32854, Start Num: 48
Candidate Starts for Serenity_51:
(Start: 48 @34902 has 546 MA's), (Start: 71 @34800 has 1 MA's), (Start: 73 @34791 has 4 MA's), (Start: 88 @34716 has 3 MA's), (114, 34584), (116, 34575), (126, 34512), (141, 34455), (171, 34308), (172, 34299), (177, 34251), (178, 34236), (182, 34221), (207, 34155), (212, 34125), (213, 34122), (214, 34110), (216, 34092), (217, 34086), (218, 34083), (271, 33930), (278, 33903), (291, 33855), (298, 33813), (308, 33729), (318, 33696), (321, 33675), (327, 33639), (333, 33615), (334, 33612),

(338, 33588), (343, 33561), (356, 33501), (358, 33492), (370, 33429), (374, 33396), (376, 33387), (386, 33306), (408, 33234), (410, 33231), (415, 33207), (430, 33147), (447, 33084),

Gene: SeresaTree_20 Start: 7427, Stop: 9370, Start Num: 65
Candidate Starts for SeresaTree_20:
(62, 7418), (Start: 65 @7427 has 29 MA's), (Start: 73 @7484 has 4 MA's), (110, 7664), (112, 7676), (132, 7781), (210, 8114), (212, 8135), (235, 8267), (324, 8561), (339, 8633), (344, 8657), (383, 8876), (384, 8882), (389, 8906), (390, 8909), (400, 8939), (401, 8942), (405, 8963), (411, 8999), (421, 9044), (429, 9083), (445, 9131), (476, 9251), (480, 9275),

Gene: Severus_47 Start: 34406, Stop: 32367, Start Num: 35
Candidate Starts for Severus_47:
(Start: 35 @34406 has 17 MA's), (78, 34271), (Start: 97 @34169 has 1 MA's), (102, 34136), (114, 34088), (116, 34079), (125, 34022), (141, 33962), (148, 33947), (172, 33806), (182, 33728), (185, 33716), (207, 33656), (212, 33626), (216, 33593), (217, 33587), (218, 33584), (225, 33551), (278, 33416), (287, 33392), (321, 33188), (341, 33086), (345, 33068), (355, 33017), (369, 32948), (370, 32942), (376, 32900), (378, 32891), (384, 32831), (407, 32756), (408, 32753), (410, 32750), (419, 32711), (430, 32660), (432, 32654), (447, 32597), (477, 32483), (488, 32426),

Gene: Shaka_50 Start: 35445, Stop: 33412, Start Num: 48
Candidate Starts for Shaka_50:
(Start: 48 @35445 has 546 MA's), (68, 35382), (Start: 73 @35334 has 4 MA's), (78, 35310), (92, 35244), (Start: 97 @35208 has 1 MA's), (102, 35175), (114, 35127), (116, 35118), (125, 35061), (134, 35034), (141, 35001), (172, 34845), (173, 34836), (182, 34767), (207, 34695), (212, 34665), (213, 34662), (216, 34632), (217, 34626), (218, 34623), (236, 34536), (251, 34506), (261, 34494), (269, 34485), (287, 34437), (321, 34233), (341, 34131), (345, 34113), (373, 33972), (376, 33945), (407, 33801), (408, 33798), (416, 33768), (430, 33705), (441, 33672), (443, 33663), (447, 33642), (461, 33594), (477, 33528),

Gene: Sham_18 Start: 7229, Stop: 9172, Start Num: 65
Candidate Starts for Sham_18:
(62, 7220), (Start: 65 @7229 has 29 MA's), (110, 7466), (112, 7478), (132, 7583), (210, 7916), (324, 8363), (338, 8429), (339, 8435), (383, 8678), (384, 8684), (389, 8708), (390, 8711), (401, 8744), (411, 8801), (421, 8846), (476, 9053), (480, 9077),

Gene: Sham4_51 Start: 34854, Stop: 32833, Start Num: 52
Candidate Starts for Sham4_51:
(28, 34905), (43, 34872), (Start: 52 @34854 has 24 MA's), (Start: 73 @34746 has 4 MA's), (Start: 88 @34671 has 3 MA's), (114, 34539), (116, 34530), (141, 34410), (172, 34254), (177, 34206), (181, 34179), (182, 34176), (185, 34164), (201, 34131), (207, 34110), (214, 34065), (216, 34047), (217, 34041), (218, 34038), (257, 33918), (291, 33843), (294, 33828), (321, 33663), (333, 33603), (341, 33561), (345, 33543), (360, 33471), (370, 33417), (373, 33402), (374, 33384), (391, 33285), (408, 33222), (418, 33183), (427, 33135), (441, 33093), (447, 33063), (461, 33015),

Gene: Shapes_53 Start: 35260, Stop: 33179, Start Num: 35
Candidate Starts for Shapes_53:
(Start: 35 @35260 has 17 MA's), (44, 35239), (Start: 73 @35119 has 4 MA's), (74, 35116), (78, 35095), (Start: 97 @34993 has 1 MA's), (102, 34960), (114, 34912), (116, 34903), (125, 34846), (141, 34786), (148, 34771), (159, 34690), (172, 34630), (182, 34552), (185, 34540), (206, 34489), (207, 34480), (212, 34450), (216, 34417), (217, 34411), (218, 34408), (273, 34243), (280, 34225), (291, 34180), (298, 34138), (321, 34000), (341, 33898), (345, 33880), (355, 33829), (369, 33760), (370, 33754), (373, 33739), (376, 33712), (378, 33703), (384, 33643), (407, 33568), (408, 33565), (410, 33562), (419, 33523), (430, 33472), (432, 33466), (447, 33409), (477, 33295), (488, 33238),

Gene: ShayRa_57 Start: 34944, Stop: 32881, Start Num: 42
Candidate Starts for ShayRa_57:
(Start: 42 @34944 has 25 MA's), (87, 34749), (Start: 88 @34746 has 3 MA's), (114, 34614), (116, 34605), (141, 34485), (173, 34320), (177, 34281), (182, 34251), (199, 34209), (207, 34185), (212, 34155), (216, 34122), (217, 34116), (218, 34113), (278, 33939), (283, 33927), (291, 33891), (320, 33714), (321, 33711), (327, 33675), (341, 33609), (349, 33570), (351, 33558), (369, 33471), (370, 33465), (376, 33423), (426, 33192), (447, 33111), (464, 33051), (470, 33033), (488, 32940), (491, 32922),

Gene: SheaKeira_50 Start: 35356, Stop: 33317, Start Num: 48
Candidate Starts for SheaKeira_50:
(25, 35413), (Start: 48 @35356 has 546 MA's), (Start: 71 @35251 has 1 MA's), (Start: 73 @35242 has 4 MA's), (116, 35026), (125, 34966), (141, 34906), (172, 34750), (182, 34672), (185, 34660), (207, 34606), (212, 34576), (213, 34573), (216, 34543), (217, 34537), (218, 34534), (272, 34396), (278, 34372), (280, 34369), (291, 34324), (298, 34282), (301, 34249), (308, 34198), (321, 34144), (341, 34042), (356, 33970), (358, 33961), (367, 33916), (370, 33898), (376, 33856), (408, 33703), (426, 33628), (436, 33595), (447, 33547), (461, 33499),

Gene: Sheen_51 Start: 37720, Stop: 35663, Start Num: 50
Candidate Starts for Sheen_51:
(Start: 50 @37720 has 3 MA's), (75, 37597), (Start: 88 @37537 has 3 MA's), (Start: 97 @37486 has 1 MA's), (102, 37453), (114, 37405), (116, 37396), (125, 37336), (141, 37276), (152, 37231), (171, 37129), (179, 37051), (182, 37042), (207, 36961), (212, 36931), (213, 36928), (216, 36898), (217, 36892), (218, 36889), (258, 36763), (287, 36697), (321, 36493), (327, 36457), (334, 36430), (341, 36391), (345, 36373), (369, 36253), (370, 36247), (373, 36232), (378, 36196), (385, 36133), (408, 36046), (416, 36016), (419, 36004), (430, 35953), (443, 35911), (467, 35827),

Gene: SheldonCooper_52 Start: 35885, Stop: 33834, Start Num: 48
Candidate Starts for SheldonCooper_52:
(Start: 48 @35885 has 546 MA's), (68, 35822), (Start: 73 @35774 has 4 MA's), (74, 35771), (78, 35750), (92, 35684), (Start: 97 @35648 has 1 MA's), (102, 35615), (114, 35567), (116, 35558), (125, 35501), (141, 35441), (148, 35426), (172, 35285), (173, 35276), (182, 35207), (207, 35135), (212, 35105), (213, 35102), (216, 35072), (217, 35066), (218, 35063), (268, 34910), (287, 34859), (321, 34655), (341, 34553), (345, 34535), (373, 34394), (376, 34367), (407, 34223), (408, 34220), (416, 34190), (430, 34127), (441, 34094), (443, 34085), (447, 34064), (461, 34016), (477, 33950),

Gene: Shep_51 Start: 34643, Stop: 32583, Start Num: 48
Candidate Starts for Shep_51:
(Start: 48 @34643 has 546 MA's), (Start: 73 @34535 has 4 MA's), (92, 34445), (Start: 97 @34409 has 1 MA's), (102, 34376), (114, 34328), (116, 34319), (141, 34202), (159, 34106), (172, 34046), (182, 33968), (207, 33896), (212, 33866), (213, 33863), (214, 33851), (216, 33833), (217, 33827), (218, 33824), (234, 33743), (287, 33620), (288, 33617), (321, 33416), (333, 33356), (341, 33314), (345, 33296), (369, 33176), (370, 33170), (373, 33155), (376, 33128), (403, 32990), (419, 32927), (443, 32834), (447, 32813), (471, 32732), (477, 32699),

Gene: Shuckle_41 Start: 19832, Stop: 21775, Start Num: 64
Candidate Starts for Shuckle_41:
(Start: 52 @19787 has 24 MA's), (Start: 55 @19796 has 103 MA's), (Start: 64 @19832 has 81 MA's), (Start: 67 @19838 has 1 MA's), (83, 19940), (86, 19961), (90, 19970), (108, 20060), (110, 20069), (111, 20078), (112, 20081), (132, 20186), (204, 20495), (239, 20696), (245, 20708), (314, 20921), (317, 20930), (336, 21026), (345, 21068), (348, 21086), (379, 21242), (401, 21350), (439, 21521), (448, 21560), (476, 21659), (493, 21758),

Gene: Shuman_41 Start: 32019, Stop: 29974, Start Num: 46
Candidate Starts for Shuman_41:
(Start: 46 @32019 has 38 MA's), (74, 31899), (87, 31830), (Start: 97 @31776 has 1 MA's), (114, 31695), (116, 31686), (125, 31626), (131, 31608), (156, 31506), (158, 31473), (159, 31470), (161, 31461), (167, 31440), (171, 31419), (172, 31410), (178, 31347), (182, 31332), (184, 31326), (207, 31266), (213, 31233), (216, 31203), (217, 31197), (218, 31194), (259, 31059), (308, 30864), (312, 30846), (320, 30813), (338, 30723), (340, 30714), (367, 30582), (376, 30522), (385, 30450), (398, 30411), (399, 30408), (402, 30396), (408, 30363), (418, 30324), (436, 30252), (443, 30225), (477, 30090),

Gene: Shygu2_49 Start: 35421, Stop: 33391, Start Num: 48
Candidate Starts for Shygu2_49:
(Start: 48 @35421 has 546 MA's), (Start: 73 @35310 has 4 MA's), (92, 35220), (Start: 97 @35184 has 1 MA's), (102, 35151), (114, 35103), (116, 35094), (125, 35037), (134, 35010), (141, 34977), (172, 34821), (173, 34812), (182, 34743), (185, 34731), (206, 34680), (207, 34671), (212, 34641), (213, 34638), (216, 34608), (217, 34602), (218, 34599), (225, 34566), (287, 34416), (308, 34266), (321, 34212), (341, 34110), (345, 34092), (369, 33972), (373, 33951), (376, 33924), (407, 33780), (408, 33777), (416, 33747), (426, 33702), (441, 33651), (443, 33642), (447, 33621), (477, 33507), (488, 33450),

Gene: Skadoosh_51 Start: 35445, Stop: 33412, Start Num: 48
Candidate Starts for Skadoosh_51:
(Start: 48 @35445 has 546 MA's), (68, 35382), (Start: 73 @35334 has 4 MA's), (78, 35310), (92, 35244), (Start: 97 @35208 has 1 MA's), (102, 35175), (114, 35127), (116, 35118), (125, 35061), (134, 35034), (141, 35001), (172, 34845), (173, 34836), (182, 34767), (207, 34695), (212, 34665), (213, 34662), (216, 34632), (217, 34626), (218, 34623), (236, 34536), (251, 34506), (261, 34494), (269, 34485), (287, 34437), (321, 34233), (341, 34131), (345, 34113), (373, 33972), (376, 33945), (407, 33801), (408, 33798), (416, 33768), (430, 33705), (441, 33672), (443, 33663), (447, 33642), (461, 33594), (477, 33528),

Gene: Skipitt_49 Start: 35442, Stop: 33409, Start Num: 48
Candidate Starts for Skipitt_49:
(Start: 48 @35442 has 546 MA's), (68, 35379), (Start: 73 @35331 has 4 MA's), (78, 35307), (92, 35241), (Start: 97 @35205 has 1 MA's), (102, 35172), (114, 35124), (116, 35115), (125, 35058), (134, 35031), (141, 34998), (172, 34842), (173, 34833), (182, 34764), (207, 34692), (212, 34662), (213, 34659), (216, 34629), (217, 34623), (218, 34620), (236, 34533), (251, 34503), (261, 34491), (269, 34482), (287, 34434), (321, 34230), (341, 34128), (345, 34110), (373, 33969), (376, 33942), (407, 33798), (408, 33795), (416, 33765), (430, 33702), (441, 33669), (443, 33660), (447, 33639), (461, 33591), (477, 33525),

Gene: Sknot_51 Start: 35751, Stop: 33715, Start Num: 48
Candidate Starts for Sknot_51:
(Start: 48 @35751 has 546 MA's), (Start: 61 @35712 has 1 MA's), (Start: 73 @35640 has 4 MA's), (87, 35568), (Start: 88 @35565 has 3 MA's), (Start: 97 @35514 has 1 MA's), (102, 35481), (116, 35424), (125, 35364), (134, 35337), (141, 35304), (172, 35148), (182, 35070), (185, 35058), (204, 35016), (207, 34998), (212, 34968), (213, 34965), (214, 34953), (216, 34935), (217, 34929), (218, 34926), (234, 34845), (280, 34767), (291, 34722), (298, 34680), (321, 34542), (327, 34506), (341, 34440), (343, 34428), (356, 34368), (367, 34314), (370, 34296), (378, 34245), (391, 34164), (396, 34155), (408, 34101), (416, 34071), (418, 34062), (430, 34008), (447, 33945), (461, 33897), (463, 33888),

Gene: Smeadley_48 Start: 34148, Stop: 32103, Start Num: 48
Candidate Starts for Smeadley_48:

(Start: 48 @34148 has 546 MA's), (75, 34022), (87, 33965), (Start: 88 @33962 has 3 MA's), (Start: 97 @33911 has 1 MA's), (102, 33878), (114, 33830), (116, 33821), (121, 33779), (149, 33683), (155, 33644), (160, 33599), (171, 33554), (172, 33545), (178, 33482), (179, 33476), (182, 33467), (183, 33464), (207, 33395), (212, 33365), (213, 33362), (216, 33332), (217, 33326), (218, 33323), (291, 33125), (321, 32942), (327, 32906), (341, 32840), (363, 32741), (376, 32654), (378, 32645), (392, 32561), (416, 32459), (426, 32414), (443, 32354), (447, 32333), (451, 32315), (491, 32144),

Gene: Smeagan_54 Start: 36405, Stop: 34366, Start Num: 48
Candidate Starts for Smeagan_54:
(Start: 48 @36405 has 546 MA's), (74, 36288), (Start: 88 @36216 has 3 MA's), (Start: 97 @36165 has 1 MA's), (116, 36075), (141, 35955), (172, 35799), (182, 35721), (207, 35649), (212, 35619), (213, 35616), (214, 35604), (216, 35586), (217, 35580), (218, 35577), (280, 35418), (291, 35373), (298, 35331), (321, 35193), (327, 35157), (341, 35091), (343, 35079), (356, 35019), (367, 34965), (370, 34947), (408, 34752), (418, 34713), (430, 34659), (447, 34596), (461, 34548), (463, 34539), (492, 34398),

Gene: SmellyB_53 Start: 34814, Stop: 32790, Start Num: 48
Candidate Starts for SmellyB_53:
(33, 34847), (Start: 48 @34814 has 546 MA's), (Start: 88 @34628 has 3 MA's), (102, 34544), (114, 34496), (116, 34487), (125, 34427), (141, 34367), (155, 34310), (159, 34271), (168, 34238), (172, 34211), (173, 34202), (178, 34148), (182, 34133), (207, 34061), (212, 34031), (216, 33998), (217, 33992), (218, 33989), (291, 33797), (318, 33638), (321, 33617), (343, 33503), (356, 33443), (358, 33434), (367, 33389), (370, 33371), (374, 33338), (393, 33236), (396, 33230), (408, 33176), (415, 33149), (416, 33146), (418, 33137), (430, 33083), (447, 33020), (454, 32990), (463, 32963),

Gene: SnapTap_51 Start: 35758, Stop: 33722, Start Num: 48
Candidate Starts for SnapTap_51:
(Start: 48 @35758 has 546 MA's), (Start: 73 @35647 has 4 MA's), (74, 35644), (Start: 88 @35572 has 3 MA's), (Start: 97 @35521 has 1 MA's), (100, 35503), (109, 35467), (116, 35431), (141, 35311), (171, 35164), (172, 35155), (182, 35077), (207, 35005), (212, 34975), (213, 34972), (214, 34960), (216, 34942), (217, 34936), (218, 34933), (280, 34774), (291, 34729), (298, 34687), (321, 34549), (327, 34513), (341, 34447), (343, 34435), (356, 34375), (367, 34321), (370, 34303), (408, 34108), (418, 34069), (419, 34066), (430, 34015), (447, 33952), (461, 33904), (463, 33895), (492, 33754),

Gene: Snape_51 Start: 34846, Stop: 32825, Start Num: 52
Candidate Starts for Snape_51:
(28, 34897), (43, 34864), (Start: 52 @34846 has 24 MA's), (Start: 73 @34738 has 4 MA's), (Start: 88 @34663 has 3 MA's), (114, 34531), (116, 34522), (141, 34402), (172, 34246), (177, 34198), (181, 34171), (182, 34168), (185, 34156), (201, 34123), (207, 34102), (214, 34057), (216, 34039), (217, 34033), (218, 34030), (257, 33910), (291, 33835), (294, 33820), (298, 33793), (321, 33655), (333, 33595), (341, 33553), (345, 33535), (360, 33463), (370, 33409), (373, 33394), (374, 33376), (391, 33277), (408, 33214), (418, 33175), (441, 33085), (447, 33055), (461, 33007),

Gene: Snickers_54 Start: 35880, Stop: 33862, Start Num: 55
Candidate Starts for Snickers_54:
(Start: 55 @35880 has 103 MA's), (Start: 71 @35787 has 1 MA's), (Start: 73 @35778 has 4 MA's), (78, 35754), (Start: 88 @35703 has 3 MA's), (Start: 97 @35652 has 1 MA's), (114, 35571), (116, 35562), (141, 35442), (156, 35382), (159, 35346), (172, 35286), (182, 35208), (207, 35136), (212, 35106), (216, 35073), (217, 35067), (218, 35064), (234, 34983), (242, 34953), (287, 34899), (312, 34728), (333, 34632), (341, 34590), (345, 34572), (355, 34524), (358, 34512), (369, 34455), (370, 34449), (373, 34434), (376, 34407), (383, 34344), (384, 34338), (391, 34314), (418, 34209), (436, 34140), (441, 34122), (443, 34113), (447, 34092), (470, 34014), (477, 33978), (490, 33915),

Gene: Snorlax_47 Start: 32004, Stop: 34094, Start Num: 48
Candidate Starts for Snorlax_47:
(16, 31923), (Start: 48 @32004 has 546 MA's), (Start: 61 @32049 has 1 MA's), (79, 32160), (82, 32181), (Start: 88 @32214 has 3 MA's), (90, 32220), (Start: 97 @32265 has 1 MA's), (114, 32346), (116, 32355), (131, 32433), (141, 32475), (156, 32535), (158, 32568), (163, 32592), (172, 32634), (173, 32643), (182, 32712), (183, 32715), (207, 32802), (216, 32865), (218, 32874), (229, 32925), (248, 32994), (283, 33039), (287, 33051), (305, 33183), (318, 33240), (321, 33261), (323, 33276), (327, 33297), (338, 33348), (346, 33384), (347, 33390), (358, 33444), (370, 33507), (371, 33513), (378, 33558), (384, 33618), (395, 33645), (398, 33657), (407, 33711), (410, 33717), (420, 33762), (426, 33783), (436, 33816), (441, 33834), (447, 33864), (450, 33876), (457, 33903), (473, 33963), (488, 34035),

Gene: SoYo_54 Start: 35818, Stop: 33800, Start Num: 55
Candidate Starts for SoYo_54:
(Start: 55 @35818 has 103 MA's), (Start: 71 @35725 has 1 MA's), (Start: 73 @35716 has 4 MA's), (78, 35692), (Start: 88 @35641 has 3 MA's), (Start: 97 @35590 has 1 MA's), (114, 35509), (116, 35500), (141, 35380), (156, 35320), (159, 35284), (172, 35224), (182, 35146), (207, 35074), (212, 35044), (216, 35011), (217, 35005), (218, 35002), (234, 34921), (242, 34891), (287, 34837), (312, 34666), (333, 34570), (341, 34528), (345, 34510), (355, 34462), (358, 34450), (369, 34393), (370, 34387), (373, 34372), (376, 34345), (383, 34282), (384, 34276), (391, 34252), (418, 34147), (436, 34078), (441, 34060), (443, 34051), (447, 34030), (470, 33952), (477, 33916), (490, 33853),

Gene: SoilDragon_54 Start: 35354, Stop: 33336, Start Num: 55
Candidate Starts for SoilDragon_54:
(Start: 55 @35354 has 103 MA's), (Start: 71 @35261 has 1 MA's), (Start: 73 @35252 has 4 MA's), (78, 35228), (Start: 88 @35177 has 3 MA's), (Start: 97 @35126 has 1 MA's), (106, 35078), (114, 35045), (116, 35036), (141, 34916), (156, 34856), (159, 34820), (172, 34760), (182, 34682), (185, 34670), (207, 34610), (212, 34580), (216, 34547), (217, 34541), (218, 34538), (234, 34457), (242, 34427), (287, 34373), (312, 34202), (333, 34106), (341, 34064), (345, 34046), (355, 33998), (358, 33986), (369, 33929), (370, 33923), (373, 33908), (376, 33881), (383, 33818), (384, 33812), (391, 33788), (418, 33683), (436, 33614), (441, 33596), (443, 33587), (447, 33566), (470, 33488), (477, 33452), (490, 33389),

Gene: Sollertia_45 Start: 19480, Stop: 21420, Start Num: 64
Candidate Starts for Sollertia_45:
(Start: 64 @19480 has 81 MA's), (90, 19612), (96, 19648), (101, 19672), (102, 19684), (110, 19711), (112, 19723), (132, 19828), (135, 19843), (143, 19870), (211, 20182), (215, 20215), (221, 20248), (232, 20299), (234, 20314), (239, 20338), (245, 20350), (293, 20428), (305, 20527), (313, 20560), (314, 20563), (339, 20683), (345, 20710), (348, 20728), (379, 20884), (400, 20989), (401, 20992), (439, 21163), (448, 21202), (476, 21301),

Gene: SororFago_53 Start: 36658, Stop: 34622, Start Num: 48
Candidate Starts for SororFago_53:
(Start: 48 @36658 has 546 MA's), (Start: 73 @36547 has 4 MA's), (102, 36388), (114, 36340), (116, 36331), (126, 36268), (141, 36211), (172, 36055), (181, 35980), (182, 35977), (207, 35911), (212, 35881), (213, 35878), (216, 35848), (217, 35842), (218, 35839), (221, 35818), (271, 35704), (280, 35674), (291, 35629), (295, 35605), (298, 35587), (321, 35449), (333, 35389), (343, 35335), (356, 35275), (358, 35266), (370, 35203), (374, 35170), (408, 35008), (415, 34981), (418, 34969), (425, 34936), (430, 34915), (447, 34852), (461, 34804), (492, 34654),

Gene: Soshari_56 Start: 35930, Stop: 33912, Start Num: 55
Candidate Starts for Soshari_56:

(Start: 55 @35930 has 103 MA's), (Start: 71 @35837 has 1 MA's), (Start: 73 @35828 has 4 MA's), (78, 35804), (Start: 88 @35753 has 3 MA's), (Start: 97 @35702 has 1 MA's), (114, 35621), (116, 35612), (141, 35495), (159, 35399), (172, 35339), (179, 35270), (182, 35261), (183, 35258), (185, 35249), (207, 35189), (212, 35159), (213, 35156), (214, 35144), (216, 35126), (217, 35120), (218, 35117), (239, 35012), (242, 35006), (287, 34949), (321, 34745), (323, 34730), (327, 34709), (333, 34685), (338, 34658), (341, 34643), (369, 34505), (370, 34499), (373, 34484), (376, 34457), (383, 34394), (384, 34388), (391, 34364), (418, 34259), (426, 34223), (447, 34142), (470, 34064), (477, 34028), (490, 33965),

Gene: Soups_57 Start: 35183, Stop: 33120, Start Num: 42
Candidate Starts for Soups_57:
(Start: 42 @35183 has 25 MA's), (77, 35039), (87, 34988), (Start: 88 @34985 has 3 MA's), (114, 34853), (116, 34844), (141, 34724), (173, 34559), (177, 34520), (182, 34490), (199, 34448), (207, 34424), (212, 34394), (216, 34361), (217, 34355), (218, 34352), (278, 34178), (283, 34166), (291, 34130), (321, 33950), (327, 33914), (341, 33848), (349, 33809), (351, 33797), (369, 33710), (370, 33704), (376, 33662), (426, 33431), (447, 33350), (464, 33290), (470, 33272), (488, 33179), (491, 33161),

Gene: South40_47 Start: 32197, Stop: 34287, Start Num: 48
Candidate Starts for South40_47:
(34, 32158), (Start: 48 @32197 has 546 MA's), (79, 32353), (Start: 88 @32407 has 3 MA's), (90, 32413), (Start: 97 @32458 has 1 MA's), (114, 32539), (116, 32548), (131, 32626), (141, 32668), (149, 32686), (163, 32785), (172, 32827), (182, 32905), (183, 32908), (207, 32995), (216, 33058), (218, 33067), (283, 33232), (287, 33244), (305, 33376), (321, 33454), (323, 33469), (327, 33490), (338, 33541), (370, 33700), (371, 33706), (378, 33751), (384, 33811), (395, 33838), (407, 33904), (410, 33910), (420, 33955), (425, 33973), (436, 34009), (441, 34027), (447, 34057), (457, 34096), (473, 34156), (488, 34228),

Gene: SparkleGoddess_21 Start: 8140, Stop: 10083, Start Num: 65
Candidate Starts for SparkleGoddess_21:
(62, 8131), (Start: 65 @8140 has 29 MA's), (90, 8278), (110, 8377), (112, 8389), (132, 8494), (242, 9007), (297, 9121), (313, 9223), (339, 9346), (344, 9370), (364, 9442), (383, 9589), (389, 9619), (401, 9655), (405, 9676), (414, 9727), (421, 9757), (434, 9808), (476, 9964), (484, 10006), (493, 10063),

Gene: Sparxx_51 Start: 35443, Stop: 33410, Start Num: 48
Candidate Starts for Sparxx_51:
(Start: 48 @35443 has 546 MA's), (68, 35380), (Start: 73 @35332 has 4 MA's), (78, 35308), (92, 35242), (Start: 97 @35206 has 1 MA's), (102, 35173), (114, 35125), (116, 35116), (125, 35059), (134, 35032), (141, 34999), (172, 34843), (173, 34834), (182, 34765), (207, 34693), (212, 34663), (213, 34660), (216, 34630), (217, 34624), (218, 34621), (236, 34534), (247, 34510), (251, 34504), (261, 34492), (269, 34483), (287, 34435), (321, 34231), (341, 34129), (345, 34111), (373, 33970), (376, 33943), (407, 33799), (408, 33796), (416, 33766), (430, 33703), (441, 33670), (443, 33661), (447, 33640), (461, 33592), (477, 33526),

Gene: Speedwell_52 Start: 34740, Stop: 36803, Start Num: 48
Candidate Starts for Speedwell_52:
(Start: 48 @34740 has 546 MA's), (Start: 61 @34779 has 1 MA's), (Start: 71 @34842 has 1 MA's), (Start: 73 @34851 has 4 MA's), (81, 34902), (82, 34908), (Start: 88 @34941 has 3 MA's), (Start: 97 @34992 has 1 MA's), (116, 35082), (117, 35097), (134, 35169), (141, 35202), (163, 35319), (172, 35361), (173, 35370), (182, 35439), (183, 35442), (187, 35463), (202, 35499), (207, 35529), (216, 35592), (287, 35766), (318, 35955), (327, 36012), (349, 36117), (354, 36135), (376, 36261), (378, 36270), (395, 36357), (402, 36387), (403, 36399), (407, 36423), (408, 36426), (420, 36474), (436, 36528), (441, 36546), (447, 36576), (451, 36594), (457, 36612), (463, 36630), (473, 36672), (495,

36795),

Gene: Spelly_45 Start: 19488, Stop: 21428, Start Num: 64
Candidate Starts for Spelly_45:
(Start: 64 @19488 has 81 MA's), (90, 19620), (96, 19656), (102, 19692), (110, 19719), (112, 19731), (132, 19836), (150, 19893), (188, 20118), (210, 20172), (221, 20256), (232, 20307), (239, 20346), (245, 20358), (293, 20436), (305, 20535), (314, 20571), (345, 20718), (379, 20892), (382, 20928), (400, 20997), (401, 21000), (439, 21171), (476, 21309),

Gene: Spike509_54 Start: 35931, Stop: 33913, Start Num: 55
Candidate Starts for Spike509_54:
(Start: 55 @35931 has 103 MA's), (Start: 71 @35838 has 1 MA's), (Start: 73 @35829 has 4 MA's), (78, 35805), (Start: 88 @35754 has 3 MA's), (Start: 97 @35703 has 1 MA's), (114, 35622), (116, 35613), (141, 35496), (159, 35400), (172, 35340), (179, 35271), (182, 35262), (183, 35259), (185, 35250), (207, 35190), (212, 35160), (213, 35157), (214, 35145), (216, 35127), (217, 35121), (218, 35118), (239, 35013), (242, 35007), (287, 34950), (321, 34746), (323, 34731), (327, 34710), (333, 34686), (338, 34659), (341, 34644), (369, 34506), (370, 34500), (373, 34485), (376, 34458), (383, 34395), (384, 34389), (391, 34365), (418, 34260), (426, 34224), (447, 34143), (470, 34065), (477, 34029), (490, 33966),

Gene: Spilled_45 Start: 19242, Stop: 21182, Start Num: 64
Candidate Starts for Spilled_45:
(Start: 64 @19242 has 81 MA's), (90, 19374), (96, 19410), (102, 19446), (110, 19473), (112, 19485), (132, 19590), (150, 19647), (188, 19872), (221, 20010), (232, 20061), (239, 20100), (245, 20112), (293, 20190), (305, 20289), (314, 20325), (345, 20472), (379, 20646), (400, 20751), (401, 20754), (439, 20925), (476, 21063),

Gene: Spino_49 Start: 35448, Stop: 33415, Start Num: 48
Candidate Starts for Spino_49:
(Start: 48 @35448 has 546 MA's), (68, 35385), (Start: 73 @35337 has 4 MA's), (78, 35313), (92, 35247), (Start: 97 @35211 has 1 MA's), (102, 35178), (114, 35130), (116, 35121), (125, 35064), (134, 35037), (141, 35004), (172, 34848), (173, 34839), (182, 34770), (207, 34698), (212, 34668), (213, 34665), (216, 34635), (217, 34629), (218, 34626), (236, 34539), (251, 34509), (261, 34497), (269, 34488), (287, 34440), (321, 34236), (341, 34134), (345, 34116), (373, 33975), (376, 33948), (407, 33804), (408, 33801), (416, 33771), (430, 33708), (441, 33675), (443, 33666), (447, 33645), (461, 33597), (477, 33531),

Gene: Spooks_23 Start: 16642, Stop: 14645, Start Num: 53
Candidate Starts for Spooks_23:
(Start: 53 @16642 has 4 MA's), (68, 16585), (92, 16447), (93, 16444), (115, 16324), (171, 16054), (172, 16045), (182, 15967), (185, 15955), (188, 15946), (207, 15901), (214, 15856), (216, 15838), (218, 15829), (249, 15712), (264, 15697), (287, 15667), (301, 15568), (308, 15517), (338, 15376), (344, 15346), (347, 15334), (352, 15304), (358, 15283), (367, 15238), (369, 15226), (372, 15208), (393, 15079), (402, 15049), (436, 14932), (450, 14872), (466, 14821),

Gene: Spouty_51 Start: 35736, Stop: 33697, Start Num: 48
Candidate Starts for Spouty_51:
(Start: 48 @35736 has 546 MA's), (Start: 73 @35622 has 4 MA's), (75, 35607), (78, 35598), (Start: 97 @35496 has 1 MA's), (116, 35406), (125, 35346), (141, 35286), (171, 35139), (172, 35130), (182, 35052), (185, 35040), (206, 34995), (207, 34986), (212, 34956), (214, 34941), (216, 34923), (217, 34917), (218, 34914), (280, 34749), (288, 34725), (291, 34704), (321, 34524), (343, 34410), (356, 34350), (374, 34245), (376, 34236), (408, 34083), (416, 34053), (430, 33990), (447, 33927),

Gene: SqueakyClean_47 Start: 32968, Stop: 35091, Start Num: 48
Candidate Starts for SqueakyClean_47:
(Start: 48 @32968 has 546 MA's), (79, 33124), (Start: 88 @33178 has 3 MA's), (90, 33184), (Start: 97 @33229 has 1 MA's), (114, 33310), (116, 33319), (134, 33406), (136, 33418), (141, 33439), (163, 33556), (172, 33598), (182, 33676), (194, 33733), (207, 33784), (216, 33847), (281, 34030), (287, 34048), (321, 34258), (327, 34294), (341, 34360), (370, 34504), (371, 34510), (373, 34519), (378, 34555), (382, 34603), (384, 34615), (395, 34642), (398, 34654), (403, 34684), (407, 34708), (436, 34813), (441, 34831), (473, 34960), (486, 35029), (495, 35083),

Gene: Squillium_41 Start: 18298, Stop: 20250, Start Num: 64
Candidate Starts for Squillium_41:
(Start: 64 @18298 has 81 MA's), (Start: 67 @18304 has 1 MA's), (83, 18406), (86, 18427), (90, 18436), (108, 18526), (110, 18535), (111, 18544), (112, 18547), (132, 18652), (204, 18961), (221, 19072), (239, 19162), (245, 19174), (314, 19387), (345, 19534), (379, 19708), (401, 19816), (439, 19987), (442, 19993), (448, 20026), (476, 20125),

Gene: StCroix_40 Start: 32087, Stop: 30042, Start Num: 46
Candidate Starts for StCroix_40:
(Start: 46 @32087 has 38 MA's), (74, 31967), (87, 31898), (Start: 97 @31844 has 1 MA's), (114, 31763), (116, 31754), (125, 31694), (131, 31676), (156, 31574), (158, 31541), (159, 31538), (161, 31529), (167, 31508), (171, 31487), (172, 31478), (178, 31415), (182, 31400), (184, 31394), (207, 31334), (213, 31301), (216, 31271), (217, 31265), (218, 31262), (259, 31127), (312, 30914), (320, 30881), (338, 30791), (340, 30782), (367, 30650), (376, 30590), (385, 30518), (398, 30479), (399, 30476), (402, 30464), (418, 30392), (436, 30320), (443, 30293), (477, 30158),

Gene: Stagni_54 Start: 35909, Stop: 33891, Start Num: 55
Candidate Starts for Stagni_54:
(Start: 55 @35909 has 103 MA's), (Start: 71 @35816 has 1 MA's), (Start: 73 @35807 has 4 MA's), (78, 35783), (Start: 88 @35732 has 3 MA's), (Start: 97 @35681 has 1 MA's), (114, 35600), (116, 35591), (141, 35471), (156, 35411), (159, 35375), (172, 35315), (182, 35237), (207, 35165), (212, 35135), (216, 35102), (217, 35096), (218, 35093), (234, 35012), (242, 34982), (287, 34928), (312, 34757), (333, 34661), (341, 34619), (345, 34601), (355, 34553), (358, 34541), (369, 34484), (370, 34478), (373, 34463), (376, 34436), (383, 34373), (384, 34367), (391, 34343), (418, 34238), (436, 34169), (441, 34151), (443, 34142), (447, 34121), (470, 34043), (477, 34007), (490, 33944),

Gene: Stanimal_45 Start: 19369, Stop: 21309, Start Num: 64
Candidate Starts for Stanimal_45:
(Start: 64 @19369 has 81 MA's), (90, 19501), (96, 19537), (101, 19561), (102, 19573), (110, 19600), (112, 19612), (132, 19717), (135, 19732), (143, 19759), (211, 20071), (215, 20104), (221, 20137), (232, 20188), (234, 20203), (239, 20227), (245, 20239), (293, 20317), (305, 20416), (313, 20449), (314, 20452), (339, 20572), (345, 20599), (348, 20617), (379, 20773), (400, 20878), (401, 20881), (439, 21052), (448, 21091), (476, 21190),

Gene: StarPlatinum_44 Start: 19484, Stop: 21424, Start Num: 64
Candidate Starts for StarPlatinum_44:
(Start: 64 @19484 has 81 MA's), (90, 19616), (91, 19619), (102, 19688), (110, 19715), (112, 19727), (117, 19760), (132, 19832), (150, 19889), (153, 19922), (188, 20114), (221, 20252), (232, 20303), (234, 20318), (239, 20342), (245, 20354), (305, 20531), (314, 20567), (345, 20714), (379, 20888), (382, 20924), (400, 20993), (401, 20996), (439, 21167), (476, 21305),

Gene: StarStuff_53 Start: 35564, Stop: 33483, Start Num: 48
Candidate Starts for StarStuff_53:

(Start: 48 @35564 has 546 MA's), (Start: 71 @35459 has 1 MA's), (Start: 73 @35450 has 4 MA's), (Start: 88 @35375 has 3 MA's), (102, 35291), (114, 35243), (116, 35234), (125, 35174), (149, 35096), (155, 35057), (158, 35021), (172, 34958), (178, 34895), (182, 34880), (207, 34784), (212, 34754), (213, 34751), (216, 34721), (217, 34715), (218, 34712), (236, 34625), (278, 34550), (291, 34502), (321, 34322), (341, 34220), (343, 34208), (356, 34148), (358, 34139), (367, 34094), (369, 34082), (373, 34061), (376, 34034), (384, 33965), (385, 33962), (408, 33869), (415, 33842), (418, 33830), (426, 33794), (447, 33713), (458, 33671),

Gene: Starbow_43 Start: 19509, Stop: 21449, Start Num: 64
Candidate Starts for Starbow_43:
(Start: 64 @19509 has 81 MA's), (90, 19641), (96, 19677), (102, 19713), (110, 19740), (112, 19752), (132, 19857), (150, 19914), (188, 20139), (210, 20193), (221, 20277), (232, 20328), (239, 20367), (245, 20379), (293, 20457), (305, 20556), (314, 20592), (345, 20739), (379, 20913), (382, 20949), (400, 21018), (401, 21021), (439, 21192), (476, 21330),

Gene: Stasia_49 Start: 35324, Stop: 33291, Start Num: 48
Candidate Starts for Stasia_49:
(Start: 48 @35324 has 546 MA's), (Start: 73 @35213 has 4 MA's), (78, 35189), (92, 35123), (Start: 97 @35087 has 1 MA's), (114, 35006), (116, 34997), (134, 34913), (141, 34880), (172, 34724), (173, 34715), (182, 34646), (207, 34574), (216, 34511), (217, 34505), (218, 34502), (236, 34415), (251, 34385), (261, 34373), (269, 34364), (287, 34316), (321, 34112), (341, 34010), (345, 33992), (369, 33872), (370, 33866), (373, 33851), (376, 33824), (407, 33680), (408, 33677), (416, 33647), (426, 33602), (441, 33551), (443, 33542), (447, 33521), (477, 33407),

Gene: SteMason_49 Start: 35445, Stop: 33412, Start Num: 48
Candidate Starts for SteMason_49:
(Start: 48 @35445 has 546 MA's), (68, 35382), (Start: 73 @35334 has 4 MA's), (78, 35310), (92, 35244), (Start: 97 @35208 has 1 MA's), (102, 35175), (114, 35127), (116, 35118), (125, 35061), (134, 35034), (141, 35001), (172, 34845), (173, 34836), (182, 34767), (207, 34695), (212, 34665), (213, 34662), (216, 34632), (217, 34626), (218, 34623), (236, 34536), (251, 34506), (261, 34494), (269, 34485), (287, 34437), (321, 34233), (341, 34131), (345, 34113), (373, 33972), (376, 33945), (407, 33801), (408, 33798), (416, 33768), (430, 33705), (441, 33672), (443, 33663), (447, 33642), (461, 33594), (477, 33528),

Gene: Steamy_47 Start: 35226, Stop: 33187, Start Num: 48
Candidate Starts for Steamy_47:
(Start: 48 @35226 has 546 MA's), (74, 35109), (Start: 97 @34986 has 1 MA's), (102, 34953), (116, 34896), (125, 34836), (141, 34776), (148, 34761), (172, 34620), (182, 34542), (188, 34521), (207, 34476), (216, 34413), (217, 34407), (218, 34404), (280, 34239), (291, 34194), (321, 34014), (333, 33954), (341, 33912), (343, 33900), (345, 33894), (356, 33840), (358, 33831), (374, 33735), (408, 33573), (410, 33570), (413, 33555), (430, 33480), (436, 33465), (447, 33417),

Gene: Stellammi_98 Start: 49137, Stop: 51167, Start Num: 54
Candidate Starts for Stellammi_98:
(Start: 54 @49137 has 1 MA's), (56, 49143), (Start: 73 @49236 has 4 MA's), (74, 49239), (87, 49308), (Start: 88 @49311 has 3 MA's), (102, 49395), (116, 49452), (141, 49572), (152, 49617), (172, 49728), (173, 49737), (178, 49791), (182, 49806), (190, 49830), (195, 49845), (204, 49860), (207, 49878), (212, 49908), (216, 49941), (217, 49947), (218, 49950), (278, 50112), (291, 50160), (298, 50202), (316, 50313), (320, 50337), (321, 50340), (333, 50400), (338, 50427), (341, 50442), (345, 50460), (355, 50511), (359, 50529), (361, 50535), (376, 50628), (393, 50721), (402, 50748), (408, 50781), (410, 50784), (418, 50820), (432, 50880), (436, 50889), (437, 50892), (441, 50907), (447, 50937), (463, 50994), (464, 50997), (472, 51033), (490, 51114),

Gene: StepMih_54 Start: 35900, Stop: 33882, Start Num: 55
Candidate Starts for StepMih_54:
(Start: 55 @35900 has 103 MA's), (Start: 71 @35807 has 1 MA's), (Start: 73 @35798 has 4 MA's), (78, 35774), (Start: 88 @35723 has 3 MA's), (Start: 97 @35672 has 1 MA's), (114, 35591), (116, 35582), (141, 35462), (156, 35402), (159, 35366), (172, 35306), (182, 35228), (207, 35156), (212, 35126), (216, 35093), (217, 35087), (218, 35084), (234, 35003), (242, 34973), (287, 34919), (312, 34748), (333, 34652), (341, 34610), (345, 34592), (355, 34544), (358, 34532), (369, 34475), (370, 34469), (373, 34454), (376, 34427), (383, 34364), (384, 34358), (391, 34334), (418, 34229), (436, 34160), (441, 34142), (443, 34133), (447, 34112), (470, 34034), (477, 33998), (490, 33935),

Gene: Stephig9_48 Start: 33986, Stop: 31941, Start Num: 48
Candidate Starts for Stephig9_48:
(25, 34028), (30, 34013), (Start: 48 @33986 has 546 MA's), (75, 33860), (87, 33803), (Start: 88 @33800 has 3 MA's), (Start: 97 @33749 has 1 MA's), (102, 33716), (114, 33668), (116, 33659), (121, 33617), (125, 33599), (149, 33521), (155, 33482), (160, 33437), (171, 33392), (172, 33383), (178, 33320), (179, 33314), (182, 33305), (183, 33302), (207, 33233), (212, 33203), (213, 33200), (216, 33170), (217, 33164), (218, 33161), (291, 32963), (295, 32939), (321, 32780), (334, 32717), (338, 32693), (345, 32660), (358, 32591), (369, 32534), (370, 32528), (376, 32486), (378, 32477), (384, 32417), (385, 32414), (388, 32399), (398, 32378), (416, 32297), (436, 32219), (441, 32201), (444, 32189), (447, 32171), (464, 32111), (491, 31982),

Gene: Stigma_21 Start: 8144, Stop: 10087, Start Num: 65
Candidate Starts for Stigma_21:
(62, 8135), (Start: 65 @8144 has 29 MA's), (90, 8282), (110, 8381), (112, 8393), (132, 8498), (242, 9011), (297, 9125), (313, 9227), (339, 9350), (344, 9374), (364, 9446), (383, 9593), (389, 9623), (401, 9659), (405, 9680), (414, 9731), (421, 9761), (434, 9812), (476, 9968), (484, 10010), (493, 10067),

Gene: Stink_49 Start: 35175, Stop: 33139, Start Num: 48
Candidate Starts for Stink_49:
(Start: 48 @35175 has 546 MA's), (92, 34974), (Start: 97 @34938 has 1 MA's), (102, 34905), (114, 34857), (116, 34848), (141, 34731), (172, 34575), (173, 34566), (182, 34497), (185, 34485), (206, 34434), (207, 34425), (212, 34395), (213, 34392), (216, 34362), (217, 34356), (218, 34353), (225, 34320), (242, 34242), (282, 34179), (287, 34164), (321, 33960), (345, 33840), (369, 33720), (373, 33699), (376, 33672), (407, 33528), (408, 33525), (416, 33495), (426, 33450), (441, 33399), (443, 33390), (447, 33369), (461, 33321), (477, 33255),

Gene: Strosahl_56 Start: 34602, Stop: 32539, Start Num: 42
Candidate Starts for Strosahl_56:
(Start: 42 @34602 has 25 MA's), (Start: 73 @34479 has 4 MA's), (87, 34407), (Start: 88 @34404 has 3 MA's), (114, 34272), (116, 34263), (141, 34143), (173, 33978), (177, 33939), (182, 33909), (199, 33867), (207, 33843), (212, 33813), (216, 33780), (217, 33774), (218, 33771), (278, 33597), (283, 33585), (291, 33549), (320, 33372), (321, 33369), (327, 33333), (341, 33267), (349, 33228), (351, 33216), (369, 33129), (370, 33123), (376, 33081), (426, 32850), (447, 32769), (464, 32709), (470, 32691), (488, 32598), (491, 32580),

Gene: Success_23 Start: 15857, Stop: 13860, Start Num: 53
Candidate Starts for Success_23:
(Start: 53 @15857 has 4 MA's), (92, 15662), (114, 15545), (115, 15539), (172, 15260), (182, 15182), (185, 15170), (188, 15161), (207, 15116), (216, 15053), (218, 15044), (249, 14927), (264, 14912), (287, 14882), (308, 14732), (338, 14591), (344, 14561), (347, 14549), (358, 14498), (402, 14264), (436, 14147), (450, 14087), (466, 14036),

Gene: Sudan_47 Start: 33335, Stop: 35398, Start Num: 48

Candidate Starts for Sudan_47:
(12, 33233), (13, 33239), (Start: 48 @33335 has 546 MA's), (Start: 61 @33374 has 1 MA's), (Start: 71 @33437 has 1 MA's), (Start: 73 @33446 has 4 MA's), (81, 33497), (82, 33503), (Start: 88 @33536 has 3 MA's), (Start: 97 @33587 has 1 MA's), (116, 33677), (117, 33692), (134, 33764), (141, 33797), (163, 33914), (172, 33956), (182, 34034), (183, 34037), (187, 34058), (207, 34124), (216, 34187), (278, 34337), (287, 34361), (318, 34550), (327, 34607), (354, 34730), (376, 34856), (378, 34865), (402, 34982), (403, 34994), (407, 35018), (408, 35021), (420, 35069), (436, 35123), (441, 35141), (447, 35171), (463, 35225), (473, 35267), (490, 35345),

Gene: Sujidade_48 Start: 32754, Stop: 34844, Start Num: 48
Candidate Starts for Sujidade_48:
(Start: 48 @32754 has 546 MA's), (Start: 61 @32799 has 1 MA's), (79, 32910), (Start: 88 @32964 has 3 MA's), (90, 32970), (Start: 97 @33015 has 1 MA's), (114, 33096), (116, 33105), (117, 33120), (131, 33183), (141, 33225), (156, 33285), (158, 33318), (163, 33342), (172, 33384), (173, 33393), (182, 33462), (183, 33465), (200, 33522), (207, 33552), (216, 33615), (218, 33624), (229, 33675), (248, 33744), (283, 33789), (287, 33801), (305, 33933), (318, 33990), (321, 34011), (327, 34047), (338, 34098), (346, 34134), (358, 34194), (370, 34257), (371, 34263), (373, 34272), (378, 34308), (384, 34368), (395, 34395), (398, 34407), (399, 34410), (407, 34461), (410, 34467), (420, 34512), (425, 34530), (426, 34533), (436, 34566), (441, 34584), (447, 34614), (450, 34626), (457, 34653), (473, 34713), (488, 34785), (495, 34836),

Gene: Sultana_50 Start: 35448, Stop: 33415, Start Num: 48
Candidate Starts for Sultana_50:
(Start: 48 @35448 has 546 MA's), (68, 35385), (Start: 73 @35337 has 4 MA's), (78, 35313), (92, 35247), (Start: 97 @35211 has 1 MA's), (102, 35178), (114, 35130), (116, 35121), (125, 35064), (134, 35037), (141, 35004), (172, 34848), (173, 34839), (182, 34770), (207, 34698), (212, 34668), (213, 34665), (216, 34635), (217, 34629), (218, 34626), (236, 34539), (251, 34509), (261, 34497), (269, 34488), (287, 34440), (321, 34236), (341, 34134), (345, 34116), (373, 33975), (376, 33948), (407, 33804), (408, 33801), (416, 33771), (430, 33708), (441, 33675), (443, 33666), (447, 33645), (461, 33597), (477, 33531),

Gene: Sunhee_54 Start: 35079, Stop: 33040, Start Num: 48
Candidate Starts for Sunhee_54:
(Start: 48 @35079 has 546 MA's), (Start: 61 @35037 has 1 MA's), (Start: 73 @34965 has 4 MA's), (74, 34962), (102, 34806), (114, 34758), (116, 34749), (125, 34689), (126, 34686), (141, 34629), (172, 34473), (182, 34395), (207, 34329), (213, 34296), (214, 34284), (216, 34266), (217, 34260), (218, 34257), (271, 34122), (280, 34092), (291, 34047), (298, 34005), (321, 33867), (333, 33807), (343, 33753), (356, 33693), (358, 33684), (365, 33657), (370, 33621), (374, 33588), (391, 33489), (396, 33480), (397, 33477), (408, 33426), (418, 33387), (430, 33333), (447, 33270), (461, 33222),

Gene: SunkenRoot_47 Start: 33958, Stop: 36072, Start Num: 48
Candidate Starts for SunkenRoot_47:
(12, 33853), (13, 33859), (Start: 48 @33958 has 546 MA's), (Start: 61 @34000 has 1 MA's), (Start: 71 @34063 has 1 MA's), (Start: 73 @34072 has 4 MA's), (81, 34123), (82, 34129), (Start: 88 @34162 has 3 MA's), (108, 34267), (114, 34297), (116, 34306), (131, 34384), (134, 34393), (136, 34405), (141, 34426), (149, 34444), (163, 34543), (172, 34585), (173, 34594), (182, 34663), (183, 34666), (207, 34771), (212, 34801), (213, 34804), (216, 34834), (277, 35008), (283, 35023), (287, 35035), (298, 35101), (309, 35194), (327, 35281), (341, 35347), (354, 35404), (361, 35437), (376, 35530), (378, 35539), (402, 35656), (403, 35668), (407, 35692), (408, 35695), (420, 35743), (436, 35797), (441, 35815), (447, 35845), (457, 35881), (462, 35893), (463, 35899), (473, 35941), (490, 36019),

Gene: SunsetPointe_46 Start: 31778, Stop: 33868, Start Num: 48
Candidate Starts for SunsetPointe_46:

(Start: 48 @31778 has 546 MA's), (78, 31919), (79, 31934), (82, 31955), (Start: 88 @31988 has 3 MA's), (90, 31994), (Start: 97 @32039 has 1 MA's), (114, 32120), (116, 32129), (131, 32207), (134, 32216), (141, 32249), (158, 32342), (163, 32366), (172, 32408), (182, 32486), (183, 32489), (207, 32576), (216, 32639), (218, 32648), (283, 32813), (287, 32825), (305, 32957), (309, 32984), (321, 33035), (323, 33050), (327, 33071), (341, 33137), (370, 33281), (371, 33287), (373, 33296), (378, 33332), (382, 33380), (384, 33392), (395, 33419), (398, 33431), (407, 33485), (420, 33536), (426, 33557), (436, 33590), (441, 33608), (447, 33638), (450, 33650), (457, 33677), (473, 33737), (486, 33806), (488, 33809), (495, 33860),

Gene: SuperAwesome_53 Start: 34828, Stop: 32804, Start Num: 48
Candidate Starts for SuperAwesome_53:
(33, 34861), (Start: 48 @34828 has 546 MA's), (Start: 88 @34642 has 3 MA's), (102, 34558), (114, 34510), (116, 34501), (125, 34441), (141, 34381), (155, 34324), (159, 34285), (168, 34252), (172, 34225), (173, 34216), (178, 34162), (182, 34147), (207, 34075), (212, 34045), (216, 34012), (217, 34006), (218, 34003), (291, 33811), (318, 33652), (321, 33631), (343, 33517), (356, 33457), (358, 33448), (367, 33403), (370, 33385), (374, 33352), (393, 33250), (396, 33244), (408, 33190), (415, 33163), (416, 33160), (418, 33151), (430, 33097), (447, 33034), (454, 33004), (463, 32977),

Gene: SuperCallie99_52 Start: 34701, Stop: 32677, Start Num: 48
Candidate Starts for SuperCallie99_52:
(33, 34734), (Start: 48 @34701 has 546 MA's), (Start: 88 @34515 has 3 MA's), (102, 34431), (114, 34383), (116, 34374), (125, 34314), (141, 34254), (155, 34197), (159, 34158), (168, 34125), (172, 34098), (173, 34089), (178, 34035), (182, 34020), (207, 33948), (212, 33918), (216, 33885), (217, 33879), (218, 33876), (291, 33684), (318, 33525), (321, 33504), (343, 33390), (356, 33330), (358, 33321), (367, 33276), (370, 33258), (374, 33225), (393, 33123), (396, 33117), (408, 33063), (415, 33036), (416, 33033), (418, 33024), (430, 32970), (447, 32907), (454, 32877), (463, 32850),

Gene: Superchunk_50 Start: 34388, Stop: 32370, Start Num: 48
Candidate Starts for Superchunk_50:
(Start: 48 @34388 has 546 MA's), (Start: 71 @34286 has 1 MA's), (Start: 73 @34277 has 4 MA's), (Start: 88 @34202 has 3 MA's), (102, 34118), (114, 34070), (116, 34061), (125, 34001), (141, 33941), (160, 33839), (172, 33785), (177, 33737), (182, 33707), (206, 33650), (207, 33641), (212, 33611), (213, 33608), (214, 33596), (216, 33578), (217, 33572), (218, 33569), (283, 33413), (291, 33377), (294, 33362), (308, 33251), (321, 33197), (327, 33161), (333, 33137), (338, 33110), (341, 33095), (356, 33023), (358, 33014), (370, 32951), (374, 32918), (376, 32909), (386, 32828), (418, 32717), (420, 32708), (432, 32657), (467, 32534),

Gene: Superstar_52 Start: 34164, Stop: 36230, Start Num: 48
Candidate Starts for Superstar_52:
(Start: 48 @34164 has 546 MA's), (79, 34320), (Start: 88 @34374 has 3 MA's), (90, 34380), (Start: 97 @34425 has 1 MA's), (114, 34506), (116, 34515), (133, 34599), (134, 34602), (136, 34614), (141, 34635), (163, 34752), (168, 34767), (172, 34794), (173, 34803), (182, 34872), (207, 34938), (212, 34968), (213, 34971), (216, 35001), (253, 35130), (287, 35187), (302, 35307), (305, 35319), (309, 35346), (321, 35397), (327, 35433), (335, 35460), (341, 35499), (370, 35643), (371, 35649), (373, 35658), (376, 35685), (378, 35694), (379, 35706), (384, 35754), (393, 35778), (398, 35793), (407, 35847), (410, 35853), (420, 35898), (426, 35919), (436, 35952), (441, 35970), (450, 36012), (473, 36099), (486, 36168), (495, 36222),

Gene: Sushi23_43 Start: 19741, Stop: 21684, Start Num: 64
Candidate Starts for Sushi23_43:
(Start: 52 @19696 has 24 MA's), (Start: 55 @19705 has 103 MA's), (Start: 64 @19741 has 81 MA's), (Start: 67 @19747 has 1 MA's), (83, 19849), (86, 19870), (90, 19879), (108, 19969), (110, 19978), (111, 19987), (112, 19990), (132, 20095), (153, 20185), (204, 20404), (239, 20605), (245, 20617),

(314, 20830), (317, 20839), (336, 20935), (345, 20977), (348, 20995), (379, 21151), (401, 21259), (439, 21430), (442, 21436), (448, 21469), (476, 21568),

Gene: Swann_41 Start: 32072, Stop: 30027, Start Num: 46
Candidate Starts for Swann_41:
(Start: 46 @32072 has 38 MA's), (74, 31952), (87, 31883), (Start: 97 @31829 has 1 MA's), (114, 31748), (116, 31739), (125, 31679), (131, 31661), (156, 31559), (158, 31526), (159, 31523), (161, 31514), (167, 31493), (171, 31472), (172, 31463), (178, 31400), (182, 31385), (184, 31379), (207, 31319), (213, 31286), (216, 31256), (217, 31250), (218, 31247), (259, 31112), (312, 30899), (320, 30866), (338, 30776), (340, 30767), (367, 30635), (376, 30575), (385, 30503), (398, 30464), (399, 30461), (402, 30449), (418, 30377), (436, 30305), (443, 30278), (477, 30143),

Gene: SweetiePie_51 Start: 35890, Stop: 33854, Start Num: 48
Candidate Starts for SweetiePie_51:
(Start: 48 @35890 has 546 MA's), (Start: 73 @35779 has 4 MA's), (74, 35776), (Start: 88 @35704 has 3 MA's), (Start: 97 @35653 has 1 MA's), (100, 35635), (109, 35599), (116, 35563), (141, 35443), (171, 35296), (172, 35287), (182, 35209), (207, 35137), (212, 35107), (213, 35104), (214, 35092), (216, 35074), (217, 35068), (218, 35065), (280, 34906), (291, 34861), (298, 34819), (321, 34681), (327, 34645), (341, 34579), (343, 34567), (356, 34507), (367, 34453), (370, 34435), (408, 34240), (418, 34201), (419, 34198), (430, 34147), (447, 34084), (461, 34036), (463, 34027), (492, 33886),

Gene: SwirlSquare_54 Start: 35044, Stop: 33026, Start Num: 48
Candidate Starts for SwirlSquare_54:
(22, 35107), (Start: 48 @35044 has 546 MA's), (Start: 71 @34942 has 1 MA's), (Start: 73 @34933 has 4 MA's), (Start: 88 @34858 has 3 MA's), (102, 34774), (114, 34726), (116, 34717), (125, 34657), (141, 34597), (160, 34495), (172, 34441), (177, 34393), (182, 34363), (185, 34351), (188, 34342), (206, 34306), (207, 34297), (212, 34267), (213, 34264), (216, 34234), (217, 34228), (218, 34225), (236, 34138), (278, 34081), (280, 34078), (291, 34033), (308, 33907), (321, 33853), (338, 33766), (341, 33751), (356, 33679), (358, 33670), (370, 33607), (374, 33574), (376, 33565), (382, 33508), (397, 33463), (408, 33412), (418, 33373), (430, 33319), (447, 33256), (458, 33214), (485, 33091),

Gene: Swirley_46 Start: 34973, Stop: 32904, Start Num: 48
Candidate Starts for Swirley_46:
(Start: 48 @34973 has 546 MA's), (Start: 88 @34787 has 3 MA's), (Start: 97 @34736 has 1 MA's), (114, 34655), (116, 34646), (141, 34526), (148, 34511), (167, 34400), (168, 34397), (172, 34370), (173, 34361), (179, 34301), (182, 34292), (187, 34268), (207, 34181), (212, 34151), (213, 34148), (216, 34118), (217, 34112), (218, 34109), (291, 33917), (319, 33755), (323, 33722), (334, 33674), (341, 33635), (355, 33566), (367, 33509), (369, 33497), (370, 33491), (376, 33449), (378, 33440), (385, 33377), (410, 33287), (416, 33260), (425, 33218), (436, 33182), (441, 33164), (443, 33155), (491, 32945),

Gene: Switzerland_56 Start: 35083, Stop: 33020, Start Num: 42
Candidate Starts for Switzerland_56:
(Start: 42 @35083 has 25 MA's), (87, 34888), (Start: 88 @34885 has 3 MA's), (114, 34753), (116, 34744), (141, 34624), (173, 34459), (177, 34420), (182, 34390), (199, 34348), (207, 34324), (212, 34294), (216, 34261), (217, 34255), (218, 34252), (278, 34078), (283, 34066), (291, 34030), (320, 33853), (321, 33850), (327, 33814), (341, 33748), (349, 33709), (351, 33697), (369, 33610), (370, 33604), (376, 33562), (426, 33331), (447, 33250), (464, 33190), (470, 33172), (488, 33079), (491, 33061),

Gene: SydNat_45 Start: 35173, Stop: 33110, Start Num: 50
Candidate Starts for SydNat_45:

(Start: 48 @35176 has 546 MA's), (Start: 50 @35173 has 3 MA's), (74, 35062), (Start: 88 @34990 has 3 MA's), (100, 34921), (114, 34858), (116, 34849), (141, 34729), (148, 34714), (167, 34603), (171, 34582), (172, 34573), (173, 34564), (182, 34495), (185, 34483), (204, 34402), (207, 34384), (212, 34354), (213, 34351), (216, 34321), (217, 34315), (218, 34312), (236, 34225), (250, 34195), (264, 34171), (291, 34123), (319, 33961), (323, 33928), (334, 33880), (341, 33841), (355, 33772), (367, 33715), (369, 33703), (370, 33697), (376, 33655), (378, 33646), (407, 33499), (416, 33466), (425, 33424), (436, 33388), (441, 33370), (443, 33361), (491, 33151),

Gene: TNguyen7_52 Start: 35735, Stop: 33714, Start Num: 48
Candidate Starts for TNguyen7_52:
(Start: 48 @35735 has 546 MA's), (74, 35621), (92, 35534), (Start: 97 @35498 has 1 MA's), (114, 35417), (116, 35408), (124, 35351), (141, 35288), (172, 35132), (182, 35054), (188, 35033), (190, 35030), (207, 34988), (212, 34958), (214, 34943), (216, 34925), (217, 34919), (218, 34916), (225, 34883), (287, 34751), (321, 34547), (327, 34511), (333, 34487), (341, 34445), (345, 34427), (369, 34307), (370, 34301), (373, 34286), (376, 34259), (403, 34121), (419, 34058), (443, 33965), (447, 33944), (471, 33863), (477, 33830),

Gene: TWAMP_41 Start: 32074, Stop: 30029, Start Num: 46
Candidate Starts for TWAMP_41:
(Start: 46 @32074 has 38 MA's), (74, 31954), (85, 31891), (87, 31885), (Start: 97 @31831 has 1 MA's), (114, 31750), (116, 31741), (125, 31681), (131, 31663), (156, 31561), (158, 31528), (159, 31525), (161, 31516), (167, 31495), (171, 31474), (172, 31465), (178, 31402), (182, 31387), (184, 31381), (207, 31321), (213, 31288), (216, 31258), (217, 31252), (218, 31249), (259, 31114), (312, 30901), (320, 30868), (338, 30778), (340, 30769), (367, 30637), (376, 30577), (385, 30505), (398, 30466), (399, 30463), (402, 30451), (418, 30379), (436, 30307), (443, 30280), (477, 30145),

Gene: TagePhighter_49 Start: 32004, Stop: 34094, Start Num: 48
Candidate Starts for TagePhighter_49:
(16, 31923), (Start: 48 @32004 has 546 MA's), (Start: 61 @32049 has 1 MA's), (79, 32160), (82, 32181), (Start: 88 @32214 has 3 MA's), (90, 32220), (Start: 97 @32265 has 1 MA's), (114, 32346), (116, 32355), (131, 32433), (141, 32475), (156, 32535), (158, 32568), (163, 32592), (172, 32634), (173, 32643), (182, 32712), (183, 32715), (207, 32802), (216, 32865), (218, 32874), (229, 32925), (248, 32994), (283, 33039), (287, 33051), (305, 33183), (321, 33261), (323, 33276), (327, 33297), (338, 33348), (370, 33507), (371, 33513), (373, 33522), (378, 33558), (384, 33618), (395, 33645), (398, 33657), (407, 33711), (410, 33717), (420, 33762), (426, 33783), (436, 33816), (441, 33834), (447, 33864), (450, 33876), (457, 33903), (462, 33915), (469, 33936), (473, 33963), (488, 34035),

Gene: Takoda_41 Start: 31981, Stop: 29936, Start Num: 46
Candidate Starts for Takoda_41:
(Start: 46 @31981 has 38 MA's), (74, 31861), (85, 31798), (87, 31792), (Start: 97 @31738 has 1 MA's), (114, 31657), (116, 31648), (134, 31561), (156, 31468), (158, 31435), (161, 31423), (167, 31402), (171, 31381), (172, 31372), (182, 31294), (184, 31288), (207, 31228), (213, 31195), (216, 31165), (217, 31159), (218, 31156), (259, 31021), (308, 30826), (312, 30808), (340, 30676), (367, 30544), (376, 30484), (385, 30412), (393, 30388), (398, 30373), (399, 30370), (402, 30358), (408, 30325), (418, 30286), (436, 30214), (443, 30187), (477, 30052),

Gene: Talos_145 Start: 77070, Stop: 78686, Start Num: 103
Candidate Starts for Talos_145:
(Start: 103 @77070 has 6 MA's), (Start: 104 @77076 has 2 MA's), (107, 77088), (122, 77181), (137, 77244), (154, 77310), (156, 77316), (159, 77349), (165, 77373), (170, 77397), (176, 77439), (180, 77472), (205, 77505), (216, 77577), (222, 77607), (224, 77613), (230, 77646), (231, 77652), (261, 77718), (278, 77739), (287, 77763), (292, 77793), (315, 77919), (320, 77937), (329, 77994), (340, 78039), (369, 78171), (393, 78309), (395, 78312), (424, 78435), (433, 78465), (440, 78486), (447,

78519), (451, 78537), (454, 78552), (479, 78654),

Gene: Taquarus_50 Start: 35451, Stop: 33418, Start Num: 48
Candidate Starts for Taquarus_50:
(Start: 48 @35451 has 546 MA's), (68, 35388), (Start: 73 @35340 has 4 MA's), (78, 35316), (92, 35250), (Start: 97 @35214 has 1 MA's), (102, 35181), (114, 35133), (116, 35124), (125, 35067), (134, 35040), (141, 35007), (172, 34851), (173, 34842), (182, 34773), (207, 34701), (213, 34668), (216, 34638), (217, 34632), (218, 34629), (236, 34542), (251, 34512), (261, 34500), (269, 34491), (287, 34443), (321, 34239), (341, 34137), (345, 34119), (373, 33978), (376, 33951), (407, 33807), (408, 33804), (416, 33774), (430, 33711), (441, 33678), (443, 33669), (447, 33648), (461, 33600), (477, 33534),

Gene: Targaryen_44 Start: 20514, Stop: 22457, Start Num: 64
Candidate Starts for Targaryen_44:
(Start: 64 @20514 has 81 MA's), (Start: 67 @20520 has 1 MA's), (83, 20622), (86, 20643), (90, 20652), (108, 20742), (110, 20751), (111, 20760), (112, 20763), (132, 20868), (161, 21012), (204, 21177), (221, 21288), (239, 21378), (245, 21390), (314, 21603), (345, 21750), (348, 21768), (377, 21906), (379, 21924), (401, 22032), (414, 22104), (439, 22203), (448, 22242), (476, 22341),

Gene: TarsusIV_50 Start: 35730, Stop: 33694, Start Num: 48
Candidate Starts for TarsusIV_50:
(Start: 48 @35730 has 546 MA's), (Start: 61 @35691 has 1 MA's), (Start: 73 @35619 has 4 MA's), (Start: 88 @35544 has 3 MA's), (Start: 97 @35493 has 1 MA's), (102, 35460), (116, 35403), (141, 35283), (172, 35127), (182, 35049), (204, 34995), (207, 34977), (212, 34947), (213, 34944), (216, 34914), (217, 34908), (218, 34905), (280, 34746), (291, 34701), (298, 34659), (321, 34521), (327, 34485), (341, 34419), (343, 34407), (356, 34347), (367, 34293), (370, 34275), (391, 34143), (396, 34134), (415, 34053), (418, 34041), (419, 34038), (420, 34032), (430, 33987), (447, 33924),

Gene: Tarynearal_42 Start: 34415, Stop: 32346, Start Num: 48
Candidate Starts for Tarynearal_42:
(Start: 48 @34415 has 546 MA's), (Start: 88 @34229 has 3 MA's), (Start: 97 @34178 has 1 MA's), (114, 34097), (116, 34088), (141, 33968), (148, 33953), (167, 33842), (168, 33839), (172, 33812), (173, 33803), (179, 33743), (182, 33734), (187, 33710), (207, 33623), (212, 33593), (213, 33590), (216, 33560), (217, 33554), (218, 33551), (291, 33359), (319, 33197), (323, 33164), (334, 33116), (341, 33077), (355, 33008), (367, 32951), (369, 32939), (370, 32933), (376, 32891), (378, 32882), (385, 32819), (410, 32729), (416, 32702), (425, 32660), (436, 32624), (441, 32606), (443, 32597), (491, 32387),

Gene: Taurus_55 Start: 35906, Stop: 33888, Start Num: 55
Candidate Starts for Taurus_55:
(Start: 55 @35906 has 103 MA's), (Start: 71 @35813 has 1 MA's), (Start: 73 @35804 has 4 MA's), (78, 35780), (Start: 88 @35729 has 3 MA's), (Start: 97 @35678 has 1 MA's), (114, 35597), (116, 35588), (141, 35468), (156, 35408), (159, 35372), (172, 35312), (182, 35234), (207, 35162), (212, 35132), (216, 35099), (217, 35093), (218, 35090), (234, 35009), (242, 34979), (287, 34925), (312, 34754), (333, 34658), (341, 34616), (345, 34598), (355, 34550), (358, 34538), (369, 34481), (370, 34475), (373, 34460), (376, 34433), (383, 34370), (384, 34364), (391, 34340), (418, 34235), (436, 34166), (441, 34148), (447, 34118), (470, 34040), (477, 34004), (490, 33941),

Gene: Tefunt_49 Start: 32989, Stop: 35112, Start Num: 48
Candidate Starts for Tefunt_49:
(19, 32911), (34, 32953), (41, 32971), (Start: 48 @32989 has 546 MA's), (Start: 88 @33199 has 3 MA's), (90, 33205), (114, 33331), (116, 33340), (131, 33418), (134, 33427), (136, 33439), (141, 33460), (163, 33577), (172, 33619), (173, 33628), (182, 33697), (207, 33805), (212, 33835), (213,

33838), (216, 33868), (268, 34033), (287, 34069), (302, 34189), (321, 34279), (327, 34315), (335, 34342), (358, 34462), (370, 34525), (371, 34531), (373, 34540), (378, 34576), (384, 34636), (395, 34663), (398, 34675), (402, 34693), (407, 34729), (410, 34735), (420, 34780), (426, 34801), (436, 34834), (441, 34852), (447, 34882), (450, 34894), (459, 34927), (473, 34981), (486, 35050), (495, 35104),

Gene: Temprado_55 Start: 35277, Stop: 33223, Start Num: 48
Candidate Starts for Temprado_55:
(Start: 48 @35277 has 546 MA's), (Start: 88 @35091 has 3 MA's), (Start: 97 @35040 has 1 MA's), (102, 35007), (114, 34959), (116, 34950), (125, 34890), (141, 34830), (155, 34773), (159, 34734), (168, 34701), (172, 34674), (173, 34665), (178, 34611), (182, 34596), (207, 34524), (212, 34494), (216, 34461), (217, 34455), (218, 34452), (236, 34365), (258, 34311), (278, 34278), (291, 34230), (298, 34188), (321, 34050), (343, 33936), (356, 33876), (358, 33867), (367, 33822), (370, 33804), (374, 33771), (393, 33669), (396, 33663), (408, 33609), (415, 33582), (418, 33570), (430, 33516), (447, 33453), (454, 33423), (463, 33396), (472, 33357),

Gene: Terrific_52 Start: 36066, Stop: 34069, Start Num: 61
Candidate Starts for Terrific_52:
(Start: 48 @36105 has 546 MA's), (Start: 61 @36066 has 1 MA's), (Start: 73 @35994 has 4 MA's), (Start: 88 @35919 has 3 MA's), (Start: 97 @35868 has 1 MA's), (102, 35835), (116, 35778), (134, 35691), (141, 35658), (172, 35502), (182, 35424), (185, 35412), (204, 35370), (207, 35352), (212, 35322), (213, 35319), (214, 35307), (216, 35289), (217, 35283), (218, 35280), (280, 35121), (291, 35076), (298, 35034), (299, 35031), (321, 34896), (327, 34860), (341, 34794), (343, 34782), (356, 34722), (367, 34668), (370, 34650), (378, 34599), (391, 34518), (396, 34509), (408, 34455), (416, 34425), (418, 34416), (430, 34362), (447, 34299), (461, 34251), (463, 34242),

Gene: Teutsch_42 Start: 19389, Stop: 21377, Start Num: 52
Candidate Starts for Teutsch_42:
(Start: 52 @19389 has 24 MA's), (Start: 55 @19398 has 103 MA's), (Start: 64 @19434 has 81 MA's), (Start: 67 @19440 has 1 MA's), (83, 19542), (86, 19563), (90, 19572), (108, 19662), (110, 19671), (111, 19680), (112, 19683), (132, 19788), (153, 19878), (204, 20097), (239, 20298), (245, 20310), (314, 20523), (317, 20532), (336, 20628), (345, 20670), (348, 20688), (379, 20844), (401, 20952), (439, 21123), (442, 21129), (448, 21162), (476, 21261),

Gene: Texage_49 Start: 35711, Stop: 33693, Start Num: 55
Candidate Starts for Texage_49:
(Start: 55 @35711 has 103 MA's), (Start: 71 @35618 has 1 MA's), (Start: 73 @35609 has 4 MA's), (77, 35588), (92, 35519), (Start: 97 @35483 has 1 MA's), (102, 35450), (114, 35402), (116, 35393), (141, 35276), (159, 35180), (172, 35120), (179, 35051), (182, 35042), (185, 35030), (207, 34970), (212, 34940), (213, 34937), (214, 34925), (216, 34907), (217, 34901), (218, 34898), (239, 34793), (242, 34787), (287, 34730), (321, 34526), (333, 34466), (341, 34424), (345, 34406), (358, 34343), (370, 34280), (373, 34265), (376, 34238), (385, 34166), (408, 34079), (419, 34037), (443, 33944), (447, 33923), (477, 33809),

Gene: Thanksgivukkah_49 Start: 35446, Stop: 33413, Start Num: 48
Candidate Starts for Thanksgivukkah_49:
(Start: 48 @35446 has 546 MA's), (68, 35383), (Start: 73 @35335 has 4 MA's), (78, 35311), (92, 35245), (Start: 97 @35209 has 1 MA's), (102, 35176), (114, 35128), (116, 35119), (125, 35062), (134, 35035), (141, 35002), (172, 34846), (173, 34837), (182, 34768), (207, 34696), (212, 34666), (213, 34663), (216, 34633), (217, 34627), (218, 34624), (236, 34537), (251, 34507), (261, 34495), (269, 34486), (287, 34438), (321, 34234), (341, 34132), (345, 34114), (373, 33973), (376, 33946), (407, 33802), (408, 33799), (416, 33769), (430, 33706), (441, 33673), (443, 33664), (447, 33643), (461, 33595), (477, 33529),

Gene: Theia_41 Start: 34466, Stop: 32376, Start Num: 48
Candidate Starts for Theia_41:
(Start: 48 @34466 has 546 MA's), (74, 34352), (Start: 88 @34280 has 3 MA's), (100, 34211), (114, 34148), (116, 34139), (141, 34019), (148, 34004), (167, 33893), (171, 33872), (172, 33863), (173, 33854), (182, 33785), (185, 33773), (207, 33674), (212, 33644), (213, 33641), (216, 33611), (217, 33605), (218, 33602), (242, 33491), (291, 33389), (294, 33374), (319, 33227), (323, 33194), (334, 33146), (341, 33107), (355, 33038), (367, 32981), (369, 32969), (370, 32963), (376, 32921), (378, 32912), (407, 32765), (416, 32732), (425, 32690), (436, 32654), (441, 32636), (491, 32417),

Gene: Thestral_49 Start: 33066, Stop: 35180, Start Num: 48
Candidate Starts for Thestral_49:
(Start: 48 @33066 has 546 MA's), (82, 33234), (Start: 88 @33267 has 3 MA's), (Start: 97 @33318 has 1 MA's), (114, 33399), (116, 33408), (134, 33495), (136, 33507), (141, 33528), (163, 33645), (172, 33687), (173, 33696), (182, 33765), (207, 33873), (216, 33936), (287, 34137), (321, 34347), (327, 34383), (335, 34410), (337, 34428), (341, 34449), (370, 34593), (371, 34599), (373, 34608), (378, 34644), (384, 34704), (395, 34731), (398, 34743), (402, 34761), (407, 34797), (410, 34803), (435, 34899), (436, 34902), (441, 34920), (447, 34950), (450, 34962), (467, 35016), (473, 35049), (486, 35118), (495, 35172),

Gene: Tiffany_54 Start: 35792, Stop: 33774, Start Num: 55
Candidate Starts for Tiffany_54:
(Start: 55 @35792 has 103 MA's), (Start: 71 @35699 has 1 MA's), (Start: 73 @35690 has 4 MA's), (78, 35666), (Start: 88 @35615 has 3 MA's), (Start: 97 @35564 has 1 MA's), (114, 35483), (116, 35474), (141, 35354), (156, 35294), (159, 35258), (172, 35198), (182, 35120), (207, 35048), (212, 35018), (216, 34985), (217, 34979), (218, 34976), (234, 34895), (242, 34865), (287, 34811), (312, 34640), (333, 34544), (341, 34502), (345, 34484), (355, 34436), (358, 34424), (369, 34367), (370, 34361), (373, 34346), (376, 34319), (383, 34256), (384, 34250), (391, 34226), (418, 34121), (436, 34052), (441, 34034), (443, 34025), (447, 34004), (470, 33926), (477, 33890), (490, 33827),

Gene: Tiger_42 Start: 33981, Stop: 31912, Start Num: 48
Candidate Starts for Tiger_42:
(Start: 48 @33981 has 546 MA's), (Start: 88 @33795 has 3 MA's), (Start: 97 @33744 has 1 MA's), (102, 33711), (114, 33663), (116, 33654), (141, 33534), (148, 33519), (167, 33408), (168, 33405), (172, 33378), (173, 33369), (179, 33309), (182, 33300), (187, 33276), (207, 33189), (212, 33159), (213, 33156), (216, 33126), (217, 33120), (218, 33117), (291, 32925), (319, 32763), (323, 32730), (334, 32682), (341, 32643), (355, 32574), (367, 32517), (369, 32505), (370, 32499), (376, 32457), (378, 32448), (407, 32301), (416, 32268), (425, 32226), (436, 32190), (441, 32172), (443, 32163), (491, 31953),

Gene: Timothy_51 Start: 34715, Stop: 32802, Start Num: 73
Candidate Starts for Timothy_51:
(28, 34874), (43, 34841), (Start: 52 @34823 has 24 MA's), (Start: 73 @34715 has 4 MA's), (Start: 88 @34640 has 3 MA's), (114, 34508), (116, 34499), (141, 34379), (172, 34223), (177, 34175), (181, 34148), (182, 34145), (185, 34133), (201, 34100), (207, 34079), (214, 34034), (216, 34016), (217, 34010), (218, 34007), (257, 33887), (291, 33812), (294, 33797), (298, 33770), (321, 33632), (333, 33572), (341, 33530), (345, 33512), (360, 33440), (370, 33386), (373, 33371), (374, 33353), (391, 33254), (408, 33191), (418, 33152), (441, 33062), (447, 33032), (461, 32984),

Gene: Timshel_48 Start: 36658, Stop: 34610, Start Num: 48
Candidate Starts for Timshel_48:
(Start: 48 @36658 has 546 MA's), (Start: 88 @36472 has 3 MA's), (102, 36388), (114, 36340), (116, 36331), (128, 36259), (141, 36211), (155, 36154), (159, 36115), (172, 36055), (182, 35977), (183,

35974), (185, 35965), (207, 35905), (212, 35875), (213, 35872), (216, 35842), (217, 35836), (218, 35833), (278, 35671), (287, 35647), (321, 35443), (327, 35407), (334, 35380), (338, 35356), (340, 35347), (345, 35323), (356, 35269), (358, 35260), (373, 35182), (378, 35146), (402, 35029), (408, 34996), (416, 34966), (430, 34903), (444, 34858), (466, 34777), (467, 34774), (477, 34726), (488, 34669), (491, 34651),

Gene: TinaBelcher_47 Start: 33014, Stop: 35128, Start Num: 48
Candidate Starts for TinaBelcher_47:
(Start: 21 @32942 has 1 MA's), (34, 32978), (Start: 48 @33014 has 546 MA's), (Start: 88 @33215 has 3 MA's), (Start: 97 @33266 has 1 MA's), (114, 33347), (116, 33356), (134, 33443), (136, 33455), (141, 33476), (163, 33593), (172, 33635), (173, 33644), (182, 33713), (207, 33821), (216, 33884), (277, 34058), (287, 34085), (321, 34295), (327, 34331), (335, 34358), (337, 34376), (341, 34397), (370, 34541), (371, 34547), (373, 34556), (378, 34592), (384, 34652), (395, 34679), (398, 34691), (402, 34709), (407, 34745), (410, 34751), (436, 34850), (441, 34868), (447, 34898), (450, 34910), (467, 34964), (473, 34997), (486, 35066), (495, 35120),

Gene: TinaFeyge_50 Start: 35443, Stop: 33410, Start Num: 48
Candidate Starts for TinaFeyge_50:
(Start: 48 @35443 has 546 MA's), (68, 35380), (Start: 73 @35332 has 4 MA's), (78, 35308), (92, 35242), (Start: 97 @35206 has 1 MA's), (102, 35173), (114, 35125), (116, 35116), (125, 35059), (134, 35032), (141, 34999), (172, 34843), (173, 34834), (182, 34765), (207, 34693), (212, 34663), (213, 34660), (216, 34630), (217, 34624), (218, 34621), (236, 34534), (251, 34504), (261, 34492), (269, 34483), (287, 34435), (320, 34234), (321, 34231), (341, 34129), (345, 34111), (373, 33970), (376, 33943), (407, 33799), (408, 33796), (416, 33766), (430, 33703), (441, 33670), (443, 33661), (447, 33640), (461, 33592), (477, 33526),

Gene: TinyPebbles_53 Start: 35936, Stop: 33918, Start Num: 55
Candidate Starts for TinyPebbles_53:
(Start: 55 @35936 has 103 MA's), (Start: 71 @35843 has 1 MA's), (Start: 73 @35834 has 4 MA's), (78, 35810), (Start: 88 @35759 has 3 MA's), (Start: 97 @35708 has 1 MA's), (114, 35627), (116, 35618), (141, 35501), (159, 35405), (172, 35345), (179, 35276), (182, 35267), (183, 35264), (185, 35255), (207, 35195), (212, 35165), (213, 35162), (214, 35150), (216, 35132), (217, 35126), (218, 35123), (239, 35018), (242, 35012), (287, 34955), (321, 34751), (323, 34736), (327, 34715), (333, 34691), (338, 34664), (341, 34649), (369, 34511), (370, 34505), (373, 34490), (376, 34463), (383, 34400), (384, 34394), (391, 34370), (418, 34265), (426, 34229), (447, 34148), (470, 34070), (477, 34034), (490, 33971),

Gene: TinyTimmy_51 Start: 34872, Stop: 32851, Start Num: 52
Candidate Starts for TinyTimmy_51:
(28, 34923), (43, 34890), (Start: 52 @34872 has 24 MA's), (Start: 73 @34764 has 4 MA's), (Start: 88 @34689 has 3 MA's), (114, 34557), (116, 34548), (141, 34428), (172, 34272), (177, 34224), (181, 34197), (182, 34194), (185, 34182), (201, 34149), (207, 34128), (214, 34083), (216, 34065), (217, 34059), (218, 34056), (257, 33936), (291, 33861), (294, 33846), (321, 33681), (333, 33621), (341, 33579), (345, 33561), (360, 33489), (370, 33435), (373, 33420), (374, 33402), (391, 33303), (408, 33240), (418, 33201), (441, 33111), (447, 33081), (461, 33033),

Gene: Tinybot_49 Start: 35475, Stop: 33442, Start Num: 48
Candidate Starts for Tinybot_49:
(Start: 48 @35475 has 546 MA's), (68, 35412), (Start: 73 @35364 has 4 MA's), (78, 35340), (92, 35274), (Start: 97 @35238 has 1 MA's), (102, 35205), (114, 35157), (116, 35148), (125, 35091), (134, 35064), (141, 35031), (172, 34875), (173, 34866), (182, 34797), (207, 34725), (212, 34695), (213, 34692), (216, 34662), (217, 34656), (218, 34653), (236, 34566), (251, 34536), (261, 34524), (269, 34515), (287, 34467), (321, 34263), (341, 34161), (345, 34143), (373, 34002), (376, 33975), (407,

33831), (408, 33828), (416, 33798), (430, 33735), (441, 33702), (443, 33693), (447, 33672), (461, 33624), (477, 33558),

Gene: TipsytheTRex_47 Start: 34972, Stop: 32924, Start Num: 48
Candidate Starts for TipsytheTRex_47:
(Start: 48 @34972 has 546 MA's), (Start: 71 @34870 has 1 MA's), (Start: 73 @34861 has 4 MA's), (Start: 88 @34786 has 3 MA's), (114, 34654), (116, 34645), (126, 34582), (141, 34525), (171, 34378), (172, 34369), (177, 34321), (178, 34306), (182, 34291), (207, 34225), (212, 34195), (213, 34192), (214, 34180), (216, 34162), (217, 34156), (218, 34153), (271, 34000), (278, 33973), (291, 33925), (298, 33883), (308, 33799), (318, 33766), (321, 33745), (327, 33709), (333, 33685), (334, 33682), (338, 33658), (343, 33631), (356, 33571), (358, 33562), (370, 33499), (374, 33466), (376, 33457), (386, 33376), (408, 33304), (415, 33277), (430, 33217), (447, 33154),

Gene: TiroTheta9_50 Start: 35442, Stop: 33409, Start Num: 48
Candidate Starts for TiroTheta9_50:
(Start: 48 @35442 has 546 MA's), (68, 35379), (Start: 73 @35331 has 4 MA's), (78, 35307), (92, 35241), (Start: 97 @35205 has 1 MA's), (102, 35172), (114, 35124), (116, 35115), (125, 35058), (134, 35031), (141, 34998), (172, 34842), (173, 34833), (182, 34764), (207, 34692), (212, 34662), (213, 34659), (216, 34629), (217, 34623), (218, 34620), (236, 34533), (247, 34509), (251, 34503), (261, 34491), (269, 34482), (287, 34434), (320, 34233), (321, 34230), (341, 34128), (345, 34110), (373, 33969), (376, 33942), (407, 33798), (408, 33795), (416, 33765), (430, 33702), (441, 33669), (443, 33660), (447, 33639), (461, 33591), (477, 33525),

Gene: Toaka_51 Start: 35561, Stop: 33522, Start Num: 48
Candidate Starts for Toaka_51:
(Start: 48 @35561 has 546 MA's), (Start: 73 @35447 has 4 MA's), (78, 35423), (102, 35288), (116, 35231), (126, 35168), (141, 35111), (172, 34955), (182, 34877), (185, 34865), (207, 34811), (214, 34766), (216, 34748), (217, 34742), (218, 34739), (280, 34574), (291, 34529), (321, 34349), (341, 34247), (356, 34175), (370, 34103), (374, 34070), (376, 34061), (413, 33890), (416, 33878), (418, 33869), (430, 33815), (447, 33752), (461, 33704), (478, 33623),

Gene: Todacoro_50 Start: 35710, Stop: 33692, Start Num: 55
Candidate Starts for Todacoro_50:
(Start: 55 @35710 has 103 MA's), (Start: 71 @35617 has 1 MA's), (Start: 73 @35608 has 4 MA's), (77, 35587), (92, 35518), (Start: 97 @35482 has 1 MA's), (102, 35449), (114, 35401), (116, 35392), (141, 35275), (159, 35179), (172, 35119), (179, 35050), (182, 35041), (185, 35029), (207, 34969), (212, 34939), (213, 34936), (214, 34924), (216, 34906), (217, 34900), (218, 34897), (239, 34792), (242, 34786), (287, 34729), (321, 34525), (333, 34465), (341, 34423), (345, 34405), (358, 34342), (370, 34279), (373, 34264), (376, 34237), (385, 34165), (408, 34078), (419, 34036), (443, 33943), (447, 33922), (477, 33808),

Gene: TomSawyer_43 Start: 19127, Stop: 21067, Start Num: 64
Candidate Starts for TomSawyer_43:
(Start: 64 @19127 has 81 MA's), (90, 19259), (96, 19295), (102, 19331), (110, 19358), (112, 19370), (132, 19475), (150, 19532), (188, 19757), (210, 19811), (221, 19895), (232, 19946), (239, 19985), (245, 19997), (293, 20075), (305, 20174), (314, 20210), (345, 20357), (379, 20531), (382, 20567), (400, 20636), (401, 20639), (439, 20810), (476, 20948),

Gene: Toma_47 Start: 32483, Stop: 34573, Start Num: 48
Candidate Starts for Toma_47:
(16, 32399), (Start: 48 @32483 has 546 MA's), (Start: 61 @32528 has 1 MA's), (79, 32639), (Start: 88 @32693 has 3 MA's), (90, 32699), (Start: 97 @32744 has 1 MA's), (114, 32825), (116, 32834), (131, 32912), (134, 32921), (141, 32954), (156, 33014), (158, 33047), (163, 33071), (172, 33113), (182,

33191), (183, 33194), (200, 33251), (207, 33281), (216, 33344), (218, 33353), (229, 33404), (248, 33473), (283, 33518), (287, 33530), (296, 33587), (305, 33662), (318, 33719), (321, 33740), (327, 33776), (338, 33827), (346, 33863), (358, 33923), (370, 33986), (371, 33992), (373, 34001), (378, 34037), (382, 34085), (384, 34097), (395, 34124), (398, 34136), (407, 34190), (410, 34196), (420, 34241), (425, 34259), (426, 34262), (436, 34295), (441, 34313), (447, 34343), (450, 34355), (457, 34382), (473, 34442), (488, 34514), (495, 34565),

Gene: Tomas_46 Start: 21353, Stop: 23293, Start Num: 64
Candidate Starts for Tomas_46:
(Start: 64 @21353 has 81 MA's), (90, 21485), (102, 21557), (110, 21584), (112, 21596), (116, 21614), (132, 21701), (143, 21743), (150, 21758), (161, 21845), (182, 21962), (204, 22010), (221, 22121), (239, 22211), (245, 22223), (303, 22391), (305, 22400), (339, 22556), (345, 22583), (348, 22601), (379, 22757), (400, 22862), (401, 22865), (439, 23036), (448, 23075), (476, 23174), (480, 23198), (490, 23246),

Gene: Tomathan_53 Start: 35561, Stop: 33480, Start Num: 48
Candidate Starts for Tomathan_53:
(Start: 48 @35561 has 546 MA's), (Start: 71 @35456 has 1 MA's), (Start: 73 @35447 has 4 MA's), (Start: 88 @35372 has 3 MA's), (114, 35240), (116, 35231), (125, 35171), (149, 35093), (155, 35054), (172, 34955), (178, 34892), (182, 34877), (204, 34799), (207, 34781), (212, 34751), (213, 34748), (216, 34718), (217, 34712), (218, 34709), (236, 34622), (273, 34562), (278, 34547), (291, 34499), (321, 34319), (341, 34217), (343, 34205), (356, 34145), (358, 34136), (367, 34091), (369, 34079), (373, 34058), (376, 34031), (384, 33962), (408, 33866), (418, 33827), (426, 33791), (447, 33710), (458, 33668),

Gene: ToneTone_51 Start: 34837, Stop: 32783, Start Num: 48
Candidate Starts for ToneTone_51:
(Start: 48 @34837 has 546 MA's), (Start: 88 @34651 has 3 MA's), (Start: 97 @34600 has 1 MA's), (102, 34567), (114, 34519), (116, 34510), (125, 34450), (141, 34390), (155, 34333), (159, 34294), (168, 34261), (172, 34234), (173, 34225), (178, 34171), (182, 34156), (207, 34084), (212, 34054), (216, 34021), (217, 34015), (218, 34012), (236, 33925), (258, 33871), (278, 33838), (291, 33790), (298, 33748), (321, 33610), (343, 33496), (356, 33436), (358, 33427), (367, 33382), (370, 33364), (374, 33331), (393, 33229), (396, 33223), (408, 33169), (415, 33142), (418, 33130), (430, 33076), (447, 33013), (454, 32983), (463, 32956), (472, 32917),

Gene: Topanga_47 Start: 35194, Stop: 33119, Start Num: 35
Candidate Starts for Topanga_47:
(Start: 35 @35194 has 17 MA's), (Start: 73 @35053 has 4 MA's), (74, 35050), (78, 35029), (Start: 97 @34927 has 1 MA's), (102, 34894), (114, 34846), (116, 34837), (125, 34780), (141, 34720), (148, 34705), (172, 34564), (182, 34486), (185, 34474), (206, 34423), (207, 34414), (212, 34384), (216, 34351), (217, 34345), (218, 34342), (236, 34255), (288, 34141), (291, 34120), (298, 34078), (321, 33940), (341, 33838), (345, 33820), (355, 33769), (369, 33700), (370, 33694), (373, 33679), (376, 33652), (378, 33643), (384, 33583), (407, 33508), (408, 33505), (410, 33502), (419, 33463), (430, 33412), (432, 33406), (447, 33349), (477, 33235), (488, 33178),

Gene: Toro_53 Start: 37832, Stop: 35775, Start Num: 50
Candidate Starts for Toro_53:
(Start: 50 @37832 has 3 MA's), (75, 37709), (Start: 88 @37649 has 3 MA's), (Start: 97 @37598 has 1 MA's), (102, 37565), (114, 37517), (116, 37508), (125, 37448), (141, 37388), (152, 37343), (171, 37241), (179, 37163), (182, 37154), (207, 37073), (212, 37043), (213, 37040), (216, 37010), (217, 37004), (218, 37001), (258, 36875), (287, 36809), (321, 36605), (327, 36569), (334, 36542), (341, 36503), (345, 36485), (369, 36365), (370, 36359), (373, 36344), (378, 36308), (385, 36245), (408, 36158), (416, 36128), (419, 36116), (430, 36065), (443, 36023), (467, 35939),

Gene: Travvers_53 Start: 35372, Stop: 33480, Start Num: 88
Candidate Starts for Travvers_53:
(Start: 48 @35561 has 546 MA's), (Start: 71 @35456 has 1 MA's), (Start: 73 @35447 has 4 MA's), (Start: 88 @35372 has 3 MA's), (102, 35288), (114, 35240), (116, 35231), (125, 35171), (149, 35093), (155, 35054), (158, 35018), (172, 34955), (178, 34892), (182, 34877), (207, 34781), (212, 34751), (213, 34748), (216, 34718), (217, 34712), (218, 34709), (236, 34622), (278, 34547), (291, 34499), (321, 34319), (341, 34217), (343, 34205), (356, 34145), (358, 34136), (367, 34091), (369, 34079), (373, 34058), (376, 34031), (384, 33962), (408, 33866), (415, 33839), (418, 33827), (426, 33791), (447, 33710), (458, 33668),

Gene: Tribute_41 Start: 19162, Stop: 21150, Start Num: 52
Candidate Starts for Tribute_41:
(Start: 52 @19162 has 24 MA's), (Start: 55 @19171 has 103 MA's), (Start: 64 @19207 has 81 MA's), (Start: 67 @19213 has 1 MA's), (83, 19315), (86, 19336), (90, 19345), (108, 19435), (110, 19444), (111, 19453), (112, 19456), (132, 19561), (153, 19651), (169, 19729), (204, 19870), (239, 20071), (245, 20083), (314, 20296), (317, 20305), (345, 20443), (348, 20461), (379, 20617), (401, 20725), (439, 20896), (448, 20935), (476, 21034),

Gene: Trike_47 Start: 34415, Stop: 32376, Start Num: 35
Candidate Starts for Trike_47:
(Start: 35 @34415 has 17 MA's), (78, 34280), (Start: 97 @34178 has 1 MA's), (102, 34145), (114, 34097), (116, 34088), (125, 34031), (141, 33971), (148, 33956), (172, 33815), (182, 33737), (185, 33725), (207, 33665), (212, 33635), (216, 33602), (217, 33596), (218, 33593), (225, 33560), (278, 33425), (287, 33401), (321, 33197), (341, 33095), (345, 33077), (355, 33026), (369, 32957), (370, 32951), (376, 32909), (378, 32900), (384, 32840), (407, 32765), (408, 32762), (410, 32759), (419, 32720), (430, 32669), (432, 32663), (447, 32606), (477, 32492), (488, 32435),

Gene: Tristan_50 Start: 36747, Stop: 34690, Start Num: 48
Candidate Starts for Tristan_50:
(Start: 48 @36747 has 546 MA's), (116, 36417), (117, 36402), (125, 36357), (141, 36297), (161, 36192), (172, 36141), (173, 36132), (182, 36063), (199, 36015), (207, 35991), (212, 35961), (213, 35958), (216, 35928), (217, 35922), (218, 35919), (271, 35766), (280, 35736), (291, 35691), (298, 35649), (321, 35511), (327, 35475), (341, 35409), (356, 35337), (370, 35265), (391, 35133), (393, 35130), (396, 35124), (408, 35070), (415, 35043), (430, 34983), (436, 34968), (447, 34920), (461, 34872), (463, 34863),

Gene: Triumph_50 Start: 33000, Stop: 35090, Start Num: 48
Candidate Starts for Triumph_50:
(Start: 48 @33000 has 546 MA's), (82, 33177), (Start: 88 @33210 has 3 MA's), (Start: 97 @33261 has 1 MA's), (114, 33342), (116, 33351), (134, 33438), (136, 33450), (141, 33471), (163, 33588), (172, 33630), (173, 33639), (182, 33708), (194, 33753), (207, 33798), (216, 33861), (253, 33990), (276, 34017), (287, 34047), (305, 34179), (321, 34257), (327, 34293), (335, 34320), (337, 34338), (341, 34359), (370, 34503), (371, 34509), (373, 34518), (378, 34554), (381, 34593), (384, 34614), (395, 34641), (398, 34653), (403, 34683), (407, 34707), (436, 34812), (441, 34830), (450, 34872), (461, 34908), (473, 34959), (486, 35028), (495, 35082),

Gene: Trixie_49 Start: 35841, Stop: 33811, Start Num: 48
Candidate Starts for Trixie_49:
(Start: 48 @35841 has 546 MA's), (Start: 73 @35727 has 4 MA's), (74, 35724), (87, 35655), (Start: 88 @35652 has 3 MA's), (89, 35649), (Start: 97 @35601 has 1 MA's), (102, 35568), (114, 35520), (116, 35511), (125, 35451), (141, 35391), (172, 35235), (173, 35226), (182, 35157), (197, 35121), (199, 35115), (207, 35091), (212, 35061), (213, 35058), (216, 35028), (217, 35022), (218, 35019), (280,

34863), (291, 34818), (298, 34776), (321, 34638), (333, 34578), (341, 34536), (356, 34464), (370, 34392), (391, 34260), (396, 34251), (408, 34197), (425, 34125), (430, 34104), (432, 34098), (447, 34041), (463, 33984),

Gene: Trooper_52 Start: 36110, Stop: 34074, Start Num: 48
Candidate Starts for Trooper_52:
(Start: 48 @36110 has 546 MA's), (Start: 61 @36071 has 1 MA's), (Start: 73 @35999 has 4 MA's), (Start: 88 @35924 has 3 MA's), (Start: 97 @35873 has 1 MA's), (102, 35840), (114, 35792), (116, 35783), (141, 35663), (172, 35507), (182, 35429), (204, 35375), (207, 35357), (212, 35327), (213, 35324), (214, 35312), (216, 35294), (217, 35288), (218, 35285), (280, 35126), (291, 35081), (298, 35039), (321, 34901), (327, 34865), (341, 34799), (343, 34787), (356, 34727), (367, 34673), (370, 34655), (391, 34523), (396, 34514), (408, 34460), (415, 34433), (418, 34421), (419, 34418), (430, 34367), (447, 34304),

Gene: TroyPia_51 Start: 35446, Stop: 33413, Start Num: 48
Candidate Starts for TroyPia_51:
(Start: 48 @35446 has 546 MA's), (68, 35383), (Start: 73 @35335 has 4 MA's), (78, 35311), (92, 35245), (Start: 97 @35209 has 1 MA's), (102, 35176), (114, 35128), (116, 35119), (125, 35062), (134, 35035), (141, 35002), (172, 34846), (173, 34837), (182, 34768), (207, 34696), (212, 34666), (213, 34663), (216, 34633), (217, 34627), (218, 34624), (236, 34537), (251, 34507), (261, 34495), (269, 34486), (287, 34438), (321, 34234), (341, 34132), (345, 34114), (373, 33973), (376, 33946), (408, 33799), (416, 33769), (430, 33706), (441, 33673), (443, 33664), (447, 33643), (461, 33595), (477, 33529),

Gene: TrvxScott_46 Start: 32988, Stop: 35174, Start Num: 21
Candidate Starts for TrvxScott_46:
(Start: 21 @32988 has 1 MA's), (34, 33024), (Start: 48 @33060 has 546 MA's), (Start: 88 @33261 has 3 MA's), (Start: 97 @33312 has 1 MA's), (114, 33393), (116, 33402), (134, 33489), (136, 33501), (141, 33522), (163, 33639), (172, 33681), (173, 33690), (182, 33759), (207, 33867), (216, 33930), (277, 34104), (287, 34131), (321, 34341), (327, 34377), (335, 34404), (337, 34422), (341, 34443), (370, 34587), (371, 34593), (373, 34602), (378, 34638), (384, 34698), (395, 34725), (398, 34737), (402, 34755), (407, 34791), (436, 34896), (441, 34914), (450, 34956), (467, 35010), (473, 35043), (486, 35112), (495, 35166),

Gene: TuanPN_46 Start: 31944, Stop: 34034, Start Num: 48
Candidate Starts for TuanPN_46:
(31, 31902), (34, 31908), (Start: 48 @31944 has 546 MA's), (Start: 73 @32061 has 4 MA's), (79, 32100), (82, 32121), (Start: 88 @32154 has 3 MA's), (Start: 97 @32205 has 1 MA's), (114, 32286), (116, 32295), (131, 32373), (141, 32415), (156, 32475), (158, 32508), (163, 32532), (172, 32574), (182, 32652), (183, 32655), (200, 32712), (207, 32742), (216, 32805), (218, 32814), (229, 32865), (248, 32934), (283, 32979), (287, 32991), (305, 33123), (321, 33201), (323, 33216), (327, 33237), (370, 33447), (371, 33453), (373, 33462), (378, 33498), (384, 33558), (395, 33585), (398, 33597), (399, 33600), (407, 33651), (410, 33657), (426, 33723), (436, 33756), (441, 33774), (447, 33804), (450, 33816), (457, 33843), (473, 33903), (488, 33975),

Gene: Tubs_51 Start: 35670, Stop: 33631, Start Num: 48
Candidate Starts for Tubs_51:
(Start: 48 @35670 has 546 MA's), (Start: 73 @35556 has 4 MA's), (75, 35541), (78, 35532), (Start: 97 @35430 has 1 MA's), (116, 35340), (125, 35280), (141, 35220), (171, 35073), (172, 35064), (182, 34986), (185, 34974), (206, 34929), (207, 34920), (212, 34890), (214, 34875), (216, 34857), (217, 34851), (218, 34848), (280, 34683), (288, 34659), (291, 34638), (321, 34458), (343, 34344), (356, 34284), (374, 34179), (376, 34170), (408, 34017), (416, 33987), (430, 33924), (447, 33861),

Gene: Tucker_54 Start: 35006, Stop: 32952, Start Num: 48
Candidate Starts for Tucker_54:
(Start: 48 @35006 has 546 MA's), (Start: 88 @34820 has 3 MA's), (Start: 97 @34769 has 1 MA's), (102, 34736), (114, 34688), (116, 34679), (125, 34619), (141, 34559), (155, 34502), (159, 34463), (168, 34430), (172, 34403), (173, 34394), (178, 34340), (182, 34325), (207, 34253), (212, 34223), (216, 34190), (217, 34184), (218, 34181), (236, 34094), (258, 34040), (278, 34007), (291, 33959), (298, 33917), (321, 33779), (343, 33665), (356, 33605), (358, 33596), (367, 33551), (370, 33533), (374, 33500), (393, 33398), (396, 33392), (408, 33338), (415, 33311), (418, 33299), (430, 33245), (447, 33182), (454, 33152), (463, 33125), (470, 33104),

Gene: Tuesday_49 Start: 19671, Stop: 21611, Start Num: 64
Candidate Starts for Tuesday_49:
(Start: 64 @19671 has 81 MA's), (90, 19803), (96, 19839), (102, 19875), (110, 19902), (112, 19914), (132, 20019), (150, 20076), (188, 20301), (210, 20355), (221, 20439), (232, 20490), (239, 20529), (245, 20541), (293, 20619), (305, 20718), (314, 20754), (345, 20901), (379, 21075), (382, 21111), (400, 21180), (401, 21183), (439, 21354), (476, 21492),

Gene: TunaTartare_19 Start: 7510, Stop: 9453, Start Num: 65
Candidate Starts for TunaTartare_19:
(62, 7501), (Start: 65 @7510 has 29 MA's), (Start: 73 @7567 has 4 MA's), (110, 7747), (112, 7759), (132, 7864), (166, 8014), (182, 8122), (210, 8197), (212, 8218), (324, 8644), (338, 8710), (339, 8716), (379, 8917), (383, 8959), (384, 8965), (389, 8989), (390, 8992), (401, 9025), (411, 9082), (421, 9127), (476, 9334), (480, 9358),

Gene: Turbido_52 Start: 36139, Stop: 34100, Start Num: 48
Candidate Starts for Turbido_52:
(Start: 48 @36139 has 546 MA's), (Start: 97 @35899 has 1 MA's), (116, 35809), (117, 35794), (141, 35689), (172, 35533), (182, 35455), (207, 35383), (212, 35353), (213, 35350), (214, 35338), (216, 35320), (217, 35314), (218, 35311), (280, 35152), (291, 35107), (298, 35065), (321, 34927), (327, 34891), (341, 34825), (343, 34813), (356, 34753), (367, 34699), (370, 34681), (418, 34447), (419, 34444), (430, 34393), (447, 34330), (461, 34282), (463, 34273), (492, 34132),

Gene: Twigg_44 Start: 34612, Stop: 32543, Start Num: 48
Candidate Starts for Twigg_44:
(Start: 48 @34612 has 546 MA's), (Start: 88 @34426 has 3 MA's), (Start: 97 @34375 has 1 MA's), (114, 34294), (116, 34285), (141, 34165), (148, 34150), (167, 34039), (168, 34036), (172, 34009), (173, 34000), (179, 33940), (182, 33931), (187, 33907), (207, 33820), (212, 33790), (213, 33787), (216, 33757), (217, 33751), (218, 33748), (291, 33556), (319, 33394), (323, 33361), (334, 33313), (341, 33274), (355, 33205), (367, 33148), (369, 33136), (370, 33130), (376, 33088), (378, 33079), (385, 33016), (410, 32926), (416, 32899), (425, 32857), (436, 32821), (441, 32803), (443, 32794), (491, 32584),

Gene: Twister_47 Start: 35111, Stop: 33030, Start Num: 35
Candidate Starts for Twister_47:
(Start: 35 @35111 has 17 MA's), (44, 35090), (Start: 73 @34970 has 4 MA's), (74, 34967), (78, 34946), (Start: 97 @34844 has 1 MA's), (102, 34811), (114, 34763), (116, 34754), (125, 34697), (141, 34637), (148, 34622), (159, 34541), (172, 34481), (182, 34403), (185, 34391), (206, 34340), (207, 34331), (212, 34301), (216, 34268), (217, 34262), (218, 34259), (273, 34094), (280, 34076), (291, 34031), (298, 33989), (321, 33851), (341, 33749), (345, 33731), (355, 33680), (369, 33611), (370, 33605), (373, 33590), (376, 33563), (378, 33554), (384, 33494), (407, 33419), (408, 33416), (410, 33413), (419, 33374), (430, 33323), (432, 33317), (447, 33260), (477, 33146), (488, 33089),

Gene: TygerBlood_50 Start: 35448, Stop: 33415, Start Num: 48

Candidate Starts for TygerBlood_50:
(Start: 48 @35448 has 546 MA's), (68, 35385), (72, 35343), (Start: 73 @35337 has 4 MA's), (78, 35313), (92, 35247), (Start: 97 @35211 has 1 MA's), (102, 35178), (114, 35130), (116, 35121), (125, 35064), (134, 35037), (141, 35004), (172, 34848), (173, 34839), (182, 34770), (207, 34698), (212, 34668), (213, 34665), (216, 34635), (217, 34629), (218, 34626), (236, 34539), (251, 34509), (261, 34497), (269, 34488), (287, 34440), (321, 34236), (341, 34134), (345, 34116), (373, 33975), (376, 33948), (407, 33804), (408, 33801), (416, 33771), (430, 33708), (441, 33675), (443, 33666), (447, 33645), (461, 33597), (477, 33531),

Gene: Ugenie5_48 Start: 35955, Stop: 33916, Start Num: 48
Candidate Starts for Ugenie5_48:
(Start: 48 @35955 has 546 MA's), (Start: 73 @35841 has 4 MA's), (75, 35826), (78, 35817), (Start: 97 @35715 has 1 MA's), (116, 35625), (125, 35565), (126, 35562), (141, 35505), (171, 35358), (172, 35349), (182, 35271), (185, 35259), (207, 35205), (212, 35175), (214, 35160), (216, 35142), (217, 35136), (218, 35133), (280, 34968), (291, 34923), (321, 34743), (343, 34629), (356, 34569), (374, 34464), (376, 34455), (408, 34302), (416, 34272), (430, 34209), (447, 34146),

Gene: UhSalsa_41 Start: 32007, Stop: 29962, Start Num: 46
Candidate Starts for UhSalsa_41:
(Start: 46 @32007 has 38 MA's), (74, 31887), (87, 31818), (Start: 97 @31764 has 1 MA's), (114, 31683), (116, 31674), (125, 31614), (131, 31596), (156, 31494), (158, 31461), (159, 31458), (161, 31449), (167, 31428), (171, 31407), (172, 31398), (178, 31335), (182, 31320), (184, 31314), (207, 31254), (213, 31221), (216, 31191), (217, 31185), (218, 31182), (259, 31047), (308, 30852), (312, 30834), (320, 30801), (338, 30711), (340, 30702), (367, 30570), (376, 30510), (385, 30438), (398, 30399), (399, 30396), (402, 30384), (408, 30351), (418, 30312), (436, 30240), (443, 30213), (477, 30078),

Gene: Ulysses_49 Start: 35125, Stop: 33092, Start Num: 48
Candidate Starts for Ulysses_49:
(Start: 48 @35125 has 546 MA's), (68, 35062), (Start: 73 @35014 has 4 MA's), (78, 34990), (92, 34924), (Start: 97 @34888 has 1 MA's), (102, 34855), (114, 34807), (116, 34798), (125, 34741), (134, 34714), (141, 34681), (172, 34525), (173, 34516), (182, 34447), (207, 34375), (212, 34345), (213, 34342), (216, 34312), (217, 34306), (218, 34303), (236, 34216), (251, 34186), (261, 34174), (269, 34165), (287, 34117), (321, 33913), (341, 33811), (345, 33793), (373, 33652), (376, 33625), (407, 33481), (408, 33478), (416, 33448), (430, 33385), (441, 33352), (443, 33343), (447, 33322), (461, 33274), (477, 33208),

Gene: UnionJack_44 Start: 33904, Stop: 31856, Start Num: 48
Candidate Starts for UnionJack_44:
(14, 33970), (Start: 48 @33904 has 546 MA's), (Start: 88 @33721 has 3 MA's), (Start: 97 @33670 has 1 MA's), (102, 33637), (114, 33589), (116, 33580), (121, 33538), (149, 33442), (155, 33403), (160, 33358), (171, 33313), (172, 33304), (178, 33241), (179, 33235), (182, 33226), (207, 33154), (212, 33124), (213, 33121), (216, 33091), (217, 33085), (218, 33082), (242, 32971), (291, 32869), (294, 32854), (323, 32674), (334, 32626), (341, 32587), (355, 32518), (367, 32461), (369, 32449), (370, 32443), (376, 32401), (378, 32392), (385, 32329), (410, 32239), (416, 32212), (425, 32170), (436, 32134), (441, 32116), (443, 32107), (491, 31897),

Gene: Unstoppable_47 Start: 31658, Stop: 33748, Start Num: 48
Candidate Starts for Unstoppable_47:
(Start: 48 @31658 has 546 MA's), (78, 31799), (79, 31814), (Start: 88 @31868 has 3 MA's), (90, 31874), (Start: 97 @31919 has 1 MA's), (114, 32000), (116, 32009), (131, 32087), (134, 32096), (141, 32129), (158, 32222), (163, 32246), (172, 32288), (182, 32366), (183, 32369), (207, 32456), (216, 32519), (218, 32528), (283, 32693), (287, 32705), (305, 32837), (309, 32864), (321, 32915), (323,

32930), (327, 32951), (341, 33017), (370, 33161), (371, 33167), (373, 33176), (378, 33212), (382, 33260), (384, 33272), (395, 33299), (398, 33311), (407, 33365), (420, 33416), (426, 33437), (436, 33470), (441, 33488), (447, 33518), (450, 33530), (457, 33557), (473, 33617), (486, 33686), (488, 33689), (495, 33740),

Gene: Updawg_52 Start: 35992, Stop: 33956, Start Num: 48
Candidate Starts for Updawg_52:
(Start: 48 @35992 has 546 MA's), (Start: 61 @35953 has 1 MA's), (Start: 73 @35881 has 4 MA's), (Start: 88 @35806 has 3 MA's), (Start: 97 @35755 has 1 MA's), (102, 35722), (116, 35665), (125, 35605), (134, 35578), (141, 35545), (172, 35389), (182, 35311), (185, 35299), (204, 35257), (207, 35239), (212, 35209), (213, 35206), (214, 35194), (216, 35176), (217, 35170), (218, 35167), (280, 35008), (291, 34963), (298, 34921), (321, 34783), (327, 34747), (341, 34681), (343, 34669), (367, 34555), (370, 34537), (378, 34486), (391, 34405), (396, 34396), (408, 34342), (416, 34312), (418, 34303), (430, 34249), (447, 34186), (461, 34138), (463, 34129),

Gene: VA6_52 Start: 36127, Stop: 34070, Start Num: 48
Candidate Starts for VA6_52:
(Start: 48 @36127 has 546 MA's), (Start: 71 @36022 has 1 MA's), (Start: 73 @36013 has 4 MA's), (74, 36010), (78, 35989), (Start: 88 @35938 has 3 MA's), (Start: 97 @35887 has 1 MA's), (116, 35797), (125, 35737), (141, 35677), (172, 35521), (173, 35512), (182, 35443), (207, 35377), (212, 35347), (213, 35344), (214, 35332), (216, 35314), (217, 35308), (218, 35305), (244, 35194), (280, 35122), (291, 35077), (298, 35035), (321, 34897), (327, 34861), (341, 34795), (343, 34783), (356, 34723), (367, 34669), (370, 34651), (397, 34510), (402, 34489), (408, 34456), (418, 34417), (419, 34414), (425, 34384), (430, 34363), (432, 34357), (447, 34300), (461, 34252), (463, 34243),

Gene: VC3_54 Start: 35980, Stop: 33899, Start Num: 48
Candidate Starts for VC3_54:
(Start: 48 @35980 has 546 MA's), (78, 35842), (102, 35707), (114, 35659), (116, 35650), (125, 35590), (149, 35512), (155, 35473), (158, 35437), (172, 35374), (178, 35311), (182, 35296), (207, 35200), (212, 35170), (213, 35167), (216, 35137), (217, 35131), (218, 35128), (236, 35041), (278, 34966), (291, 34918), (294, 34903), (321, 34738), (341, 34636), (343, 34624), (356, 34564), (358, 34555), (367, 34510), (369, 34498), (373, 34477), (376, 34450), (408, 34285), (415, 34258), (418, 34246), (426, 34210), (447, 34129),

Gene: Vanisoa_51 Start: 36591, Stop: 34552, Start Num: 48
Candidate Starts for Vanisoa_51:
(Start: 48 @36591 has 546 MA's), (Start: 73 @36477 has 4 MA's), (74, 36474), (102, 36318), (116, 36261), (125, 36201), (126, 36198), (141, 36141), (172, 35985), (182, 35907), (185, 35895), (207, 35841), (213, 35808), (214, 35796), (216, 35778), (217, 35772), (218, 35769), (227, 35730), (280, 35604), (291, 35559), (298, 35517), (321, 35379), (338, 35292), (343, 35265), (356, 35205), (358, 35196), (374, 35100), (376, 35091), (408, 34938), (416, 34908), (418, 34899), (447, 34782),

Gene: Vanseggelen_52 Start: 32956, Stop: 35067, Start Num: 48
Candidate Starts for Vanseggelen_52:
(12, 32851), (13, 32857), (Start: 48 @32956 has 546 MA's), (Start: 73 @33067 has 4 MA's), (81, 33118), (82, 33124), (Start: 88 @33157 has 3 MA's), (Start: 97 @33208 has 1 MA's), (108, 33262), (114, 33292), (116, 33301), (131, 33379), (134, 33388), (136, 33400), (141, 33421), (142, 33424), (149, 33439), (163, 33538), (172, 33580), (182, 33658), (183, 33661), (207, 33766), (212, 33796), (213, 33799), (216, 33829), (277, 34003), (283, 34018), (287, 34030), (298, 34096), (309, 34189), (327, 34276), (341, 34342), (354, 34399), (361, 34432), (373, 34498), (376, 34525), (378, 34534), (402, 34651), (403, 34663), (407, 34687), (408, 34690), (420, 34738), (436, 34792), (441, 34810), (451, 34858), (457, 34876), (462, 34888), (463, 34894), (473, 34936), (490, 35014),

Gene: Verabelle_51 Start: 33521, Stop: 35584, Start Num: 48
Candidate Starts for Verabelle_51:
(Start: 48 @33521 has 546 MA's), (Start: 61 @33560 has 1 MA's), (Start: 73 @33632 has 4 MA's), (81, 33683), (82, 33689), (Start: 88 @33722 has 3 MA's), (116, 33863), (117, 33878), (134, 33950), (141, 33983), (163, 34100), (172, 34142), (173, 34151), (182, 34220), (183, 34223), (187, 34244), (207, 34310), (212, 34340), (216, 34373), (283, 34535), (287, 34547), (318, 34736), (327, 34793), (354, 34916), (373, 35015), (376, 35042), (378, 35051), (395, 35138), (399, 35153), (402, 35168), (407, 35204), (408, 35207), (420, 35255), (436, 35309), (441, 35327), (447, 35357), (457, 35393), (462, 35405), (473, 35453), (474, 35456),

Gene: Veracruz_49 Start: 35710, Stop: 33692, Start Num: 55
Candidate Starts for Veracruz_49:
(Start: 55 @35710 has 103 MA's), (Start: 71 @35617 has 1 MA's), (Start: 73 @35608 has 4 MA's), (77, 35587), (92, 35518), (Start: 97 @35482 has 1 MA's), (102, 35449), (114, 35401), (116, 35392), (141, 35275), (159, 35179), (172, 35119), (179, 35050), (182, 35041), (185, 35029), (207, 34969), (212, 34939), (213, 34936), (214, 34924), (216, 34906), (217, 34900), (218, 34897), (239, 34792), (242, 34786), (287, 34729), (321, 34525), (333, 34465), (341, 34423), (345, 34405), (358, 34342), (370, 34279), (373, 34264), (376, 34237), (385, 34165), (408, 34078), (419, 34036), (443, 33943), (447, 33922), (477, 33808),

Gene: Verse_47 Start: 34130, Stop: 36244, Start Num: 48
Candidate Starts for Verse_47:
(8, 34004), (15, 34043), (17, 34049), (Start: 48 @34130 has 546 MA's), (Start: 61 @34172 has 1 MA's), (Start: 71 @34235 has 1 MA's), (Start: 73 @34244 has 4 MA's), (81, 34295), (82, 34301), (Start: 88 @34334 has 3 MA's), (108, 34439), (114, 34469), (116, 34478), (131, 34556), (134, 34565), (136, 34577), (141, 34598), (149, 34616), (163, 34715), (172, 34757), (173, 34766), (182, 34835), (183, 34838), (207, 34943), (212, 34973), (213, 34976), (216, 35006), (277, 35180), (283, 35195), (287, 35207), (298, 35273), (309, 35366), (327, 35453), (341, 35519), (354, 35576), (376, 35702), (378, 35711), (402, 35828), (403, 35840), (407, 35864), (408, 35867), (420, 35915), (436, 35969), (441, 35987), (447, 36017), (457, 36053), (462, 36065), (463, 36071), (473, 36113), (490, 36191),

Gene: Vix_54 Start: 35989, Stop: 33971, Start Num: 55
Candidate Starts for Vix_54:
(Start: 55 @35989 has 103 MA's), (Start: 71 @35896 has 1 MA's), (Start: 73 @35887 has 4 MA's), (78, 35863), (Start: 88 @35812 has 3 MA's), (Start: 97 @35761 has 1 MA's), (114, 35680), (116, 35671), (141, 35551), (156, 35491), (159, 35455), (172, 35395), (182, 35317), (207, 35245), (212, 35215), (216, 35182), (217, 35176), (218, 35173), (234, 35092), (242, 35062), (287, 35008), (312, 34837), (333, 34741), (341, 34699), (345, 34681), (355, 34633), (358, 34621), (369, 34564), (370, 34558), (373, 34543), (376, 34516), (383, 34453), (384, 34447), (391, 34423), (418, 34318), (436, 34249), (441, 34231), (443, 34222), (447, 34201), (470, 34123), (477, 34087), (490, 34024),

Gene: VohminGhazi_53 Start: 34815, Stop: 32791, Start Num: 48
Candidate Starts for VohminGhazi_53:
(33, 34848), (Start: 48 @34815 has 546 MA's), (Start: 88 @34629 has 3 MA's), (102, 34545), (114, 34497), (116, 34488), (125, 34428), (141, 34368), (155, 34311), (159, 34272), (168, 34239), (172, 34212), (173, 34203), (178, 34149), (182, 34134), (207, 34062), (212, 34032), (216, 33999), (217, 33993), (218, 33990), (291, 33798), (318, 33639), (321, 33618), (343, 33504), (356, 33444), (358, 33435), (367, 33390), (370, 33372), (374, 33339), (393, 33237), (396, 33231), (408, 33177), (415, 33150), (416, 33147), (418, 33138), (430, 33084), (447, 33021), (454, 32991), (463, 32964),

Gene: Waits_56 Start: 34804, Stop: 32747, Start Num: 42
Candidate Starts for Waits_56:

(Start: 42 @34804 has 25 MA's), (Start: 73 @34681 has 4 MA's), (87, 34609), (Start: 88 @34606 has 3 MA's), (114, 34474), (116, 34465), (141, 34345), (160, 34243), (173, 34180), (177, 34141), (182, 34111), (207, 34045), (212, 34015), (216, 33982), (217, 33976), (218, 33973), (278, 33805), (283, 33793), (291, 33757), (320, 33580), (321, 33577), (327, 33541), (349, 33436), (351, 33424), (369, 33337), (370, 33331), (376, 33289), (426, 33058), (447, 32977), (464, 32917), (470, 32899), (488, 32806), (491, 32788),

Gene: Wakanda_16 Start: 7049, Stop: 8995, Start Num: 65
Candidate Starts for Wakanda_16:
(Start: 65 @7049 has 29 MA's), (90, 7190), (Start: 103 @7265 has 6 MA's), (110, 7289), (112, 7301), (132, 7406), (161, 7547), (210, 7739), (217, 7799), (339, 8258), (344, 8282), (360, 8342), (389, 8531), (401, 8567), (421, 8669), (424, 8684), (429, 8708), (490, 8948),

Gene: WalterMcMickey_47 Start: 35111, Stop: 33030, Start Num: 35
Candidate Starts for WalterMcMickey_47:
(Start: 35 @35111 has 17 MA's), (44, 35090), (Start: 73 @34970 has 4 MA's), (74, 34967), (78, 34946), (Start: 97 @34844 has 1 MA's), (102, 34811), (114, 34763), (116, 34754), (125, 34697), (141, 34637), (148, 34622), (159, 34541), (172, 34481), (182, 34403), (185, 34391), (206, 34340), (207, 34331), (212, 34301), (216, 34268), (217, 34262), (218, 34259), (273, 34094), (280, 34076), (291, 34031), (298, 33989), (321, 33851), (341, 33749), (345, 33731), (355, 33680), (369, 33611), (370, 33605), (373, 33590), (376, 33563), (378, 33554), (384, 33494), (407, 33419), (408, 33416), (410, 33413), (419, 33374), (430, 33323), (432, 33317), (447, 33260), (477, 33146), (488, 33089),

Gene: Wander_50 Start: 35445, Stop: 33412, Start Num: 48
Candidate Starts for Wander_50:
(Start: 48 @35445 has 546 MA's), (68, 35382), (Start: 73 @35334 has 4 MA's), (78, 35310), (92, 35244), (Start: 97 @35208 has 1 MA's), (102, 35175), (114, 35127), (116, 35118), (125, 35061), (134, 35034), (141, 35001), (172, 34845), (173, 34836), (182, 34767), (207, 34695), (212, 34665), (213, 34662), (216, 34632), (217, 34626), (218, 34623), (236, 34536), (251, 34506), (261, 34494), (269, 34485), (287, 34437), (321, 34233), (341, 34131), (345, 34113), (373, 33972), (376, 33945), (407, 33801), (408, 33798), (416, 33768), (430, 33705), (441, 33672), (443, 33663), (447, 33642), (461, 33594), (477, 33528),

Gene: Warpy_47 Start: 19977, Stop: 21920, Start Num: 64
Candidate Starts for Warpy_47:
(Start: 64 @19977 has 81 MA's), (Start: 67 @19983 has 1 MA's), (83, 20085), (86, 20106), (90, 20115), (108, 20205), (110, 20214), (111, 20223), (112, 20226), (132, 20331), (161, 20475), (204, 20640), (221, 20751), (239, 20841), (245, 20853), (314, 21066), (345, 21213), (348, 21231), (377, 21369), (379, 21387), (401, 21495), (439, 21666), (448, 21705), (476, 21804),

Gene: Warrior24_58 Start: 35268, Stop: 33211, Start Num: 42
Candidate Starts for Warrior24_58:
(Start: 42 @35268 has 25 MA's), (Start: 73 @35145 has 4 MA's), (87, 35073), (Start: 88 @35070 has 3 MA's), (114, 34938), (116, 34929), (141, 34809), (160, 34707), (173, 34644), (177, 34605), (182, 34575), (207, 34509), (212, 34479), (216, 34446), (217, 34440), (218, 34437), (278, 34269), (283, 34257), (291, 34221), (320, 34044), (321, 34041), (327, 34005), (349, 33900), (351, 33888), (369, 33801), (370, 33795), (376, 33753), (426, 33522), (447, 33441), (464, 33381), (470, 33363), (488, 33270), (491, 33252),

Gene: WashU_43 Start: 19519, Stop: 21462, Start Num: 64
Candidate Starts for WashU_43:
(Start: 52 @19474 has 24 MA's), (Start: 55 @19483 has 103 MA's), (Start: 64 @19519 has 81 MA's), (Start: 67 @19525 has 1 MA's), (83, 19627), (86, 19648), (90, 19657), (108, 19747), (110, 19756),

(111, 19765), (112, 19768), (132, 19873), (153, 19963), (204, 20182), (239, 20383), (245, 20395), (314, 20608), (317, 20617), (336, 20713), (345, 20755), (348, 20773), (379, 20929), (401, 21037), (439, 21208), (442, 21214), (448, 21247), (476, 21346),

Gene: Watermoore_42 Start: 19642, Stop: 21585, Start Num: 64
Candidate Starts for Watermoore_42:
(Start: 52 @19597 has 24 MA's), (Start: 55 @19606 has 103 MA's), (Start: 64 @19642 has 81 MA's), (Start: 67 @19648 has 1 MA's), (83, 19750), (86, 19771), (90, 19780), (93, 19792), (108, 19870), (110, 19879), (111, 19888), (112, 19891), (132, 19996), (156, 20095), (204, 20305), (239, 20506), (245, 20518), (314, 20731), (336, 20836), (345, 20878), (348, 20896), (379, 21052), (401, 21160), (439, 21331), (448, 21370), (476, 21469),

Gene: Watson_54 Start: 35898, Stop: 33880, Start Num: 55
Candidate Starts for Watson_54:
(Start: 55 @35898 has 103 MA's), (Start: 71 @35805 has 1 MA's), (Start: 73 @35796 has 4 MA's), (78, 35772), (Start: 88 @35721 has 3 MA's), (Start: 97 @35670 has 1 MA's), (114, 35589), (116, 35580), (141, 35460), (156, 35400), (159, 35364), (172, 35304), (182, 35226), (207, 35154), (212, 35124), (216, 35091), (217, 35085), (218, 35082), (234, 35001), (242, 34971), (287, 34917), (312, 34746), (333, 34650), (341, 34608), (345, 34590), (355, 34542), (358, 34530), (369, 34473), (370, 34467), (373, 34452), (376, 34425), (383, 34362), (384, 34356), (391, 34332), (418, 34227), (436, 34158), (441, 34140), (443, 34131), (447, 34110), (470, 34032), (477, 33996), (490, 33933),

Gene: WeiHuaDA_51 Start: 36646, Stop: 34613, Start Num: 48
Candidate Starts for WeiHuaDA_51:
(Start: 48 @36646 has 546 MA's), (Start: 73 @36532 has 4 MA's), (74, 36529), (87, 36460), (Start: 88 @36457 has 3 MA's), (Start: 97 @36406 has 1 MA's), (102, 36373), (114, 36325), (116, 36316), (125, 36256), (141, 36196), (172, 36040), (173, 36031), (182, 35962), (207, 35896), (212, 35866), (213, 35863), (216, 35833), (217, 35827), (218, 35824), (280, 35665), (291, 35620), (298, 35578), (321, 35440), (327, 35404), (341, 35338), (343, 35326), (356, 35266), (370, 35194), (391, 35062), (396, 35053), (408, 34999), (418, 34960), (430, 34906), (447, 34843), (461, 34795), (463, 34786),

Gene: Werner_47 Start: 32002, Stop: 34092, Start Num: 48
Candidate Starts for Werner_47:
(Start: 48 @32002 has 546 MA's), (Start: 73 @32119 has 4 MA's), (79, 32158), (82, 32179), (Start: 88 @32212 has 3 MA's), (Start: 97 @32263 has 1 MA's), (114, 32344), (116, 32353), (131, 32431), (141, 32473), (156, 32533), (158, 32566), (163, 32590), (172, 32632), (173, 32641), (182, 32710), (183, 32713), (207, 32800), (216, 32863), (218, 32872), (229, 32923), (248, 32992), (283, 33037), (287, 33049), (305, 33181), (321, 33259), (323, 33274), (327, 33295), (338, 33346), (370, 33505), (371, 33511), (373, 33520), (378, 33556), (384, 33616), (395, 33643), (398, 33655), (399, 33658), (407, 33709), (410, 33715), (426, 33781), (436, 33814), (441, 33832), (447, 33862), (450, 33874), (457, 33901), (473, 33961), (488, 34033),

Gene: Westy_21 Start: 8144, Stop: 10087, Start Num: 65
Candidate Starts for Westy_21:
(62, 8135), (Start: 65 @8144 has 29 MA's), (90, 8282), (110, 8381), (112, 8393), (132, 8498), (242, 9011), (297, 9125), (313, 9227), (339, 9350), (344, 9374), (364, 9446), (379, 9551), (383, 9593), (389, 9623), (401, 9659), (405, 9680), (414, 9731), (421, 9761), (434, 9812), (476, 9968), (484, 10010),

Gene: Whabigail7_52 Start: 36124, Stop: 34085, Start Num: 48
Candidate Starts for Whabigail7_52:
(Start: 48 @36124 has 546 MA's), (Start: 97 @35884 has 1 MA's), (116, 35794), (117, 35779), (141, 35674), (172, 35518), (182, 35440), (207, 35368), (212, 35338), (213, 35335), (214, 35323), (216, 35305), (217, 35299), (218, 35296), (280, 35137), (291, 35092), (298, 35050), (321, 34912), (327,

34876), (341, 34810), (343, 34798), (356, 34738), (367, 34684), (370, 34666), (418, 34432), (419, 34429), (430, 34378), (447, 34315), (461, 34267), (463, 34258), (492, 34117),

Gene: Whatever_47 Start: 32002, Stop: 34092, Start Num: 48
Candidate Starts for Whatever_47:
(16, 31921), (Start: 48 @32002 has 546 MA's), (Start: 61 @32047 has 1 MA's), (79, 32158), (82, 32179), (Start: 88 @32212 has 3 MA's), (90, 32218), (Start: 97 @32263 has 1 MA's), (114, 32344), (116, 32353), (131, 32431), (141, 32473), (156, 32533), (158, 32566), (163, 32590), (172, 32632), (173, 32641), (182, 32710), (183, 32713), (207, 32800), (216, 32863), (218, 32872), (229, 32923), (248, 32992), (283, 33037), (287, 33049), (288, 33052), (305, 33181), (318, 33238), (321, 33259), (323, 33274), (327, 33295), (338, 33346), (346, 33382), (347, 33388), (358, 33442), (370, 33505), (371, 33511), (378, 33556), (384, 33616), (395, 33643), (398, 33655), (407, 33709), (410, 33715), (420, 33760), (426, 33781), (436, 33814), (441, 33832), (447, 33862), (450, 33874), (457, 33901), (473, 33961), (488, 34033),

Gene: WhereRU_39 Start: 17983, Stop: 19926, Start Num: 64
Candidate Starts for WhereRU_39:
(Start: 64 @17983 has 81 MA's), (Start: 67 @17989 has 1 MA's), (83, 18091), (86, 18112), (90, 18121), (108, 18211), (110, 18220), (111, 18229), (112, 18232), (132, 18337), (204, 18646), (221, 18757), (239, 18847), (245, 18859), (314, 19072), (345, 19219), (362, 19282), (379, 19393), (401, 19501), (439, 19672), (448, 19711), (476, 19810),

Gene: WideWale_52 Start: 35992, Stop: 33956, Start Num: 48
Candidate Starts for WideWale_52:
(Start: 48 @35992 has 546 MA's), (Start: 61 @35953 has 1 MA's), (Start: 73 @35881 has 4 MA's), (Start: 88 @35806 has 3 MA's), (Start: 97 @35755 has 1 MA's), (102, 35722), (116, 35665), (125, 35605), (134, 35578), (141, 35545), (172, 35389), (182, 35311), (185, 35299), (204, 35257), (207, 35239), (212, 35209), (213, 35206), (214, 35194), (216, 35176), (217, 35170), (218, 35167), (280, 35008), (291, 34963), (298, 34921), (321, 34783), (327, 34747), (341, 34681), (343, 34669), (367, 34555), (370, 34537), (378, 34486), (391, 34405), (396, 34396), (408, 34342), (416, 34312), (418, 34303), (430, 34249), (447, 34186), (461, 34138), (463, 34129),

Gene: Wiks_53 Start: 34908, Stop: 32854, Start Num: 48
Candidate Starts for Wiks_53:
(Start: 48 @34908 has 546 MA's), (Start: 88 @34722 has 3 MA's), (Start: 97 @34671 has 1 MA's), (102, 34638), (114, 34590), (116, 34581), (125, 34521), (141, 34461), (155, 34404), (159, 34365), (168, 34332), (172, 34305), (173, 34296), (178, 34242), (182, 34227), (207, 34155), (212, 34125), (216, 34092), (217, 34086), (218, 34083), (236, 33996), (258, 33942), (278, 33909), (291, 33861), (298, 33819), (321, 33681), (343, 33567), (356, 33507), (358, 33498), (367, 33453), (370, 33435), (374, 33402), (393, 33300), (396, 33294), (408, 33240), (415, 33213), (418, 33201), (430, 33147), (447, 33084), (454, 33054), (463, 33027), (472, 32988),

Gene: Wilbur_50 Start: 35445, Stop: 33412, Start Num: 48
Candidate Starts for Wilbur_50:
(Start: 48 @35445 has 546 MA's), (68, 35382), (Start: 73 @35334 has 4 MA's), (78, 35310), (92, 35244), (Start: 97 @35208 has 1 MA's), (102, 35175), (114, 35127), (116, 35118), (125, 35061), (134, 35034), (141, 35001), (172, 34845), (173, 34836), (182, 34767), (207, 34695), (212, 34665), (213, 34662), (216, 34632), (217, 34626), (218, 34623), (236, 34536), (251, 34506), (261, 34494), (269, 34485), (287, 34437), (321, 34233), (341, 34131), (345, 34113), (373, 33972), (376, 33945), (407, 33801), (408, 33798), (416, 33768), (430, 33705), (441, 33672), (443, 33663), (447, 33642), (461, 33594), (477, 33528),

Gene: Wile_49 Start: 35440, Stop: 33422, Start Num: 48

Candidate Starts for Wile_49:
(Start: 48 @35440 has 546 MA's), (Start: 73 @35329 has 4 MA's), (92, 35239), (Start: 97 @35203 has 1 MA's), (102, 35170), (114, 35122), (116, 35113), (125, 35053), (141, 34993), (172, 34837), (173, 34828), (182, 34759), (185, 34747), (205, 34696), (207, 34687), (212, 34657), (213, 34654), (216, 34624), (217, 34618), (218, 34615), (255, 34495), (278, 34471), (287, 34447), (321, 34243), (341, 34141), (345, 34123), (355, 34072), (369, 34003), (373, 33982), (376, 33955), (407, 33811), (408, 33808), (416, 33778), (426, 33733), (441, 33682), (443, 33673), (447, 33652), (477, 33538), (488, 33481),

Gene: Wipeout_42 Start: 19287, Stop: 21227, Start Num: 64
Candidate Starts for Wipeout_42:
(Start: 64 @19287 has 81 MA's), (90, 19419), (96, 19455), (102, 19491), (110, 19518), (112, 19530), (132, 19635), (150, 19692), (188, 19917), (210, 19971), (221, 20055), (232, 20106), (239, 20145), (245, 20157), (293, 20235), (305, 20334), (314, 20370), (345, 20517), (379, 20691), (382, 20727), (400, 20796), (401, 20799), (439, 20970), (476, 21108),

Gene: Wizard007_50 Start: 35453, Stop: 33420, Start Num: 48
Candidate Starts for Wizard007_50:
(Start: 48 @35453 has 546 MA's), (68, 35390), (Start: 73 @35342 has 4 MA's), (78, 35318), (92, 35252), (Start: 97 @35216 has 1 MA's), (102, 35183), (114, 35135), (116, 35126), (125, 35069), (134, 35042), (141, 35009), (172, 34853), (173, 34844), (182, 34775), (207, 34703), (212, 34673), (213, 34670), (216, 34640), (217, 34634), (218, 34631), (236, 34544), (251, 34514), (261, 34502), (269, 34493), (287, 34445), (321, 34241), (341, 34139), (345, 34121), (373, 33980), (376, 33953), (407, 33809), (408, 33806), (416, 33776), (430, 33713), (441, 33680), (443, 33671), (447, 33650), (461, 33602), (477, 33536),

Gene: Wofford_43 Start: 19909, Stop: 21852, Start Num: 64
Candidate Starts for Wofford_43:
(Start: 52 @19867 has 24 MA's), (57, 19879), (58, 19885), (Start: 64 @19909 has 81 MA's), (66, 19912), (90, 20044), (102, 20116), (110, 20143), (112, 20155), (132, 20260), (150, 20317), (153, 20350), (221, 20680), (232, 20731), (239, 20770), (245, 20782), (305, 20959), (314, 20995), (345, 21142), (379, 21316), (401, 21424), (411, 21481), (421, 21526), (439, 21595), (442, 21601), (448, 21634), (476, 21733),

Gene: Wolpertinger_50 Start: 34747, Stop: 32834, Start Num: 73
Candidate Starts for Wolpertinger_50:
(28, 34906), (43, 34873), (Start: 52 @34855 has 24 MA's), (Start: 73 @34747 has 4 MA's), (Start: 88 @34672 has 3 MA's), (114, 34540), (116, 34531), (141, 34411), (172, 34255), (177, 34207), (181, 34180), (182, 34177), (185, 34165), (201, 34132), (207, 34111), (214, 34066), (216, 34048), (217, 34042), (218, 34039), (257, 33919), (291, 33844), (294, 33829), (321, 33664), (333, 33604), (341, 33562), (345, 33544), (360, 33472), (370, 33418), (373, 33403), (374, 33385), (391, 33286), (408, 33223), (418, 33184), (427, 33136), (441, 33094), (447, 33064), (461, 33016),

Gene: Wooldri_56 Start: 35818, Stop: 33800, Start Num: 55
Candidate Starts for Wooldri_56:
(Start: 55 @35818 has 103 MA's), (Start: 71 @35725 has 1 MA's), (Start: 73 @35716 has 4 MA's), (78, 35692), (Start: 88 @35641 has 3 MA's), (Start: 97 @35590 has 1 MA's), (114, 35509), (116, 35500), (141, 35380), (156, 35320), (159, 35284), (172, 35224), (182, 35146), (207, 35074), (212, 35044), (216, 35011), (217, 35005), (218, 35002), (234, 34921), (242, 34891), (287, 34837), (312, 34666), (333, 34570), (341, 34528), (345, 34510), (355, 34462), (358, 34450), (369, 34393), (370, 34387), (373, 34372), (376, 34345), (383, 34282), (384, 34276), (391, 34252), (418, 34147), (436, 34078), (441, 34060), (443, 34051), (447, 34030), (470, 33952), (477, 33916), (490, 33853),

Gene: WorldCup_50 Start: 35242, Stop: 33203, Start Num: 48
Candidate Starts for WorldCup_50:
(Start: 46 @35245 has 38 MA's), (Start: 48 @35242 has 546 MA's), (Start: 73 @35128 has 4 MA's), (74, 35125), (Start: 97 @35002 has 1 MA's), (102, 34969), (116, 34912), (125, 34852), (126, 34849), (141, 34792), (172, 34636), (182, 34558), (185, 34546), (204, 34510), (207, 34492), (214, 34447), (216, 34429), (217, 34423), (218, 34420), (227, 34381), (280, 34255), (291, 34210), (298, 34168), (308, 34084), (321, 34030), (338, 33943), (343, 33916), (356, 33856), (374, 33751), (376, 33742), (408, 33589), (418, 33550), (447, 33433), (461, 33385),

Gene: WunderPhul_54 Start: 34906, Stop: 32852, Start Num: 48
Candidate Starts for WunderPhul_54:
(Start: 48 @34906 has 546 MA's), (Start: 88 @34720 has 3 MA's), (Start: 97 @34669 has 1 MA's), (102, 34636), (114, 34588), (116, 34579), (125, 34519), (141, 34459), (155, 34402), (159, 34363), (168, 34330), (172, 34303), (173, 34294), (178, 34240), (182, 34225), (207, 34153), (212, 34123), (216, 34090), (217, 34084), (218, 34081), (236, 33994), (258, 33940), (278, 33907), (291, 33859), (298, 33817), (321, 33679), (343, 33565), (356, 33505), (358, 33496), (367, 33451), (370, 33433), (374, 33400), (393, 33298), (396, 33292), (408, 33238), (415, 33211), (418, 33199), (430, 33145), (447, 33082), (454, 33052), (463, 33025), (472, 32986),

Gene: Xena_48 Start: 35406, Stop: 33388, Start Num: 48
Candidate Starts for Xena_48:
(Start: 48 @35406 has 546 MA's), (Start: 73 @35295 has 4 MA's), (92, 35205), (Start: 97 @35169 has 1 MA's), (102, 35136), (114, 35088), (116, 35079), (125, 35019), (141, 34959), (172, 34803), (173, 34794), (182, 34725), (185, 34713), (205, 34662), (207, 34653), (212, 34623), (213, 34620), (216, 34590), (217, 34584), (218, 34581), (255, 34461), (278, 34437), (287, 34413), (321, 34209), (341, 34107), (345, 34089), (355, 34038), (369, 33969), (373, 33948), (376, 33921), (407, 33777), (408, 33774), (416, 33744), (426, 33699), (441, 33648), (443, 33639), (447, 33618), (477, 33504), (488, 33447),

Gene: XianYue_50 Start: 35502, Stop: 33442, Start Num: 48
Candidate Starts for XianYue_50:
(Start: 48 @35502 has 546 MA's), (Start: 61 @35460 has 1 MA's), (Start: 73 @35388 has 4 MA's), (Start: 88 @35313 has 3 MA's), (Start: 97 @35262 has 1 MA's), (102, 35229), (114, 35181), (116, 35172), (125, 35112), (141, 35052), (172, 34896), (182, 34818), (197, 34782), (207, 34752), (212, 34722), (213, 34719), (214, 34707), (216, 34689), (217, 34683), (218, 34680), (278, 34497), (291, 34449), (298, 34407), (321, 34269), (327, 34233), (333, 34209), (341, 34167), (343, 34155), (356, 34095), (358, 34086), (370, 34023), (374, 33990), (391, 33891), (396, 33882), (408, 33828), (430, 33735), (447, 33672), (461, 33624), (463, 33615), (492, 33474),

Gene: Yaboi_45 Start: 19457, Stop: 21397, Start Num: 64
Candidate Starts for Yaboi_45:
(Start: 64 @19457 has 81 MA's), (90, 19589), (96, 19625), (101, 19649), (102, 19661), (110, 19688), (112, 19700), (132, 19805), (143, 19847), (153, 19895), (211, 20159), (215, 20192), (221, 20225), (232, 20276), (234, 20291), (239, 20315), (245, 20327), (293, 20405), (305, 20504), (313, 20537), (314, 20540), (339, 20660), (345, 20687), (348, 20705), (379, 20861), (400, 20966), (401, 20969), (439, 21140), (448, 21179), (476, 21278),

Gene: Yasdnil_47 Start: 32062, Stop: 34152, Start Num: 48
Candidate Starts for Yasdnil_47:
(31, 32020), (34, 32026), (Start: 48 @32062 has 546 MA's), (Start: 73 @32179 has 4 MA's), (79, 32218), (82, 32239), (Start: 88 @32272 has 3 MA's), (Start: 97 @32323 has 1 MA's), (114, 32404), (116, 32413), (131, 32491), (141, 32533), (156, 32593), (158, 32626), (163, 32650), (172, 32692), (182, 32770), (183, 32773), (207, 32860), (216, 32923), (218, 32932), (229, 32983), (248, 33052),

(283, 33097), (287, 33109), (305, 33241), (321, 33319), (323, 33334), (327, 33355), (338, 33406), (370, 33565), (371, 33571), (373, 33580), (378, 33616), (384, 33676), (395, 33703), (398, 33715), (399, 33718), (407, 33769), (410, 33775), (426, 33841), (436, 33874), (441, 33892), (447, 33922), (450, 33934), (457, 33961), (473, 34021), (488, 34093),

Gene: Yecey3_52 Start: 35247, Stop: 33208, Start Num: 48
Candidate Starts for Yecey3_52:
(Start: 48 @35247 has 546 MA's), (Start: 71 @35142 has 1 MA's), (Start: 73 @35133 has 4 MA's), (116, 34917), (125, 34857), (141, 34797), (171, 34650), (172, 34641), (182, 34563), (207, 34497), (214, 34452), (216, 34434), (217, 34428), (218, 34425), (278, 34263), (280, 34260), (291, 34215), (321, 34035), (327, 33999), (356, 33861), (358, 33852), (367, 33807), (374, 33756), (376, 33747), (408, 33594), (418, 33555), (430, 33501), (436, 33486), (447, 33438),

Gene: YoSam321_50 Start: 35442, Stop: 33409, Start Num: 48
Candidate Starts for YoSam321_50:
(Start: 48 @35442 has 546 MA's), (68, 35379), (Start: 73 @35331 has 4 MA's), (78, 35307), (92, 35241), (Start: 97 @35205 has 1 MA's), (102, 35172), (114, 35124), (116, 35115), (125, 35058), (141, 34998), (172, 34842), (173, 34833), (182, 34764), (207, 34692), (212, 34662), (213, 34659), (216, 34629), (217, 34623), (218, 34620), (236, 34533), (251, 34503), (261, 34491), (269, 34482), (287, 34434), (321, 34230), (341, 34128), (345, 34110), (373, 33969), (376, 33942), (407, 33798), (408, 33795), (416, 33765), (430, 33702), (441, 33669), (443, 33660), (447, 33639), (461, 33591), (477, 33525),

Gene: Yogi_40 Start: 32048, Stop: 30003, Start Num: 46
Candidate Starts for Yogi_40:
(Start: 46 @32048 has 38 MA's), (74, 31928), (87, 31859), (Start: 97 @31805 has 1 MA's), (114, 31724), (116, 31715), (125, 31655), (156, 31535), (158, 31502), (159, 31499), (161, 31490), (167, 31469), (171, 31448), (172, 31439), (178, 31376), (182, 31361), (184, 31355), (207, 31295), (213, 31262), (216, 31232), (217, 31226), (218, 31223), (259, 31088), (308, 30893), (312, 30875), (338, 30752), (340, 30743), (367, 30611), (376, 30551), (385, 30479), (398, 30440), (399, 30437), (402, 30425), (408, 30392), (418, 30353), (436, 30281), (443, 30254), (447, 30233), (451, 30215), (470, 30155), (477, 30119),

Gene: Yokurt_54 Start: 34908, Stop: 32854, Start Num: 48
Candidate Starts for Yokurt_54:
(Start: 48 @34908 has 546 MA's), (Start: 88 @34722 has 3 MA's), (Start: 97 @34671 has 1 MA's), (102, 34638), (114, 34590), (116, 34581), (125, 34521), (141, 34461), (155, 34404), (159, 34365), (168, 34332), (172, 34305), (173, 34296), (178, 34242), (182, 34227), (207, 34155), (212, 34125), (216, 34092), (217, 34086), (218, 34083), (236, 33996), (258, 33942), (278, 33909), (291, 33861), (298, 33819), (321, 33681), (343, 33567), (356, 33507), (358, 33498), (367, 33453), (370, 33435), (374, 33402), (393, 33300), (396, 33294), (408, 33240), (415, 33213), (418, 33201), (430, 33147), (447, 33084), (454, 33054), (463, 33027), (472, 32988),

Gene: Yoncess_40 Start: 31828, Stop: 29783, Start Num: 46
Candidate Starts for Yoncess_40:
(Start: 46 @31828 has 38 MA's), (74, 31708), (87, 31639), (Start: 97 @31585 has 1 MA's), (114, 31504), (116, 31495), (125, 31435), (156, 31315), (158, 31282), (159, 31279), (161, 31270), (167, 31249), (172, 31219), (178, 31156), (182, 31141), (184, 31135), (207, 31075), (213, 31042), (216, 31012), (217, 31006), (218, 31003), (259, 30868), (308, 30673), (312, 30655), (338, 30532), (340, 30523), (367, 30391), (376, 30331), (385, 30259), (398, 30220), (399, 30217), (402, 30205), (408, 30172), (418, 30133), (436, 30061), (443, 30034), (447, 30013), (451, 29995), (470, 29935), (477, 29899),

Gene: Yosif_50 Start: 34061, Stop: 36223, Start Num: 27
Candidate Starts for Yosif_50:
(26, 34055), (Start: 27 @34061 has 1 MA's), (Start: 71 @34217 has 1 MA's), (Start: 73 @34226 has 4 MA's), (81, 34277), (82, 34283), (Start: 88 @34316 has 3 MA's), (114, 34448), (116, 34457), (134, 34544), (136, 34556), (141, 34577), (163, 34694), (172, 34736), (182, 34814), (183, 34817), (207, 34922), (216, 34985), (283, 35174), (287, 35186), (318, 35375), (321, 35396), (323, 35411), (354, 35555), (360, 35585), (370, 35639), (371, 35645), (376, 35681), (378, 35690), (402, 35807), (403, 35819), (407, 35843), (408, 35846), (420, 35894), (436, 35948), (441, 35966), (447, 35996), (462, 36044), (463, 36050), (473, 36092),

Gene: Zainub_50 Start: 33415, Stop: 35529, Start Num: 48
Candidate Starts for Zainub_50:
(Start: 48 @33415 has 546 MA's), (82, 33583), (Start: 88 @33616 has 3 MA's), (Start: 97 @33667 has 1 MA's), (114, 33748), (116, 33757), (127, 33826), (134, 33844), (136, 33856), (141, 33877), (163, 33994), (172, 34036), (173, 34045), (182, 34114), (207, 34222), (216, 34285), (268, 34450), (277, 34459), (287, 34486), (321, 34696), (327, 34732), (333, 34756), (335, 34759), (341, 34798), (370, 34942), (373, 34957), (378, 34993), (384, 35053), (388, 35071), (395, 35080), (398, 35092), (402, 35110), (403, 35122), (407, 35146), (413, 35167), (436, 35251), (441, 35269), (450, 35311), (466, 35362), (473, 35398), (486, 35467), (495, 35521),

Gene: Zaka_54 Start: 34908, Stop: 32854, Start Num: 48
Candidate Starts for Zaka_54:
(Start: 48 @34908 has 546 MA's), (Start: 88 @34722 has 3 MA's), (Start: 97 @34671 has 1 MA's), (102, 34638), (114, 34590), (116, 34581), (125, 34521), (141, 34461), (155, 34404), (159, 34365), (168, 34332), (172, 34305), (173, 34296), (178, 34242), (182, 34227), (207, 34155), (212, 34125), (216, 34092), (217, 34086), (218, 34083), (236, 33996), (258, 33942), (278, 33909), (291, 33861), (298, 33819), (321, 33681), (343, 33567), (356, 33507), (358, 33498), (367, 33453), (370, 33435), (374, 33402), (393, 33300), (396, 33294), (408, 33240), (415, 33213), (418, 33201), (430, 33147), (447, 33084), (454, 33054), (463, 33027), (472, 32988),

Gene: ZamZam_47 Start: 33402, Stop: 35450, Start Num: 48
Candidate Starts for ZamZam_47:
(Start: 48 @33402 has 546 MA's), (Start: 71 @33504 has 1 MA's), (Start: 73 @33513 has 4 MA's), (81, 33564), (82, 33570), (Start: 88 @33603 has 3 MA's), (Start: 97 @33654 has 1 MA's), (102, 33687), (116, 33744), (117, 33759), (134, 33831), (141, 33864), (163, 33981), (172, 34023), (173, 34032), (182, 34101), (183, 34104), (187, 34125), (207, 34176), (212, 34206), (216, 34239), (283, 34401), (287, 34413), (294, 34452), (318, 34602), (327, 34659), (354, 34782), (373, 34881), (376, 34908), (378, 34917), (407, 35070), (410, 35076), (420, 35121), (436, 35175), (441, 35193), (447, 35223), (451, 35241), (462, 35271), (473, 35319), (495, 35442),

Gene: Zarafa_51 Start: 35655, Stop: 33631, Start Num: 48
Candidate Starts for Zarafa_51:
(Start: 48 @35655 has 546 MA's), (74, 35541), (92, 35454), (Start: 97 @35418 has 1 MA's), (102, 35385), (114, 35337), (116, 35328), (141, 35208), (168, 35079), (172, 35052), (173, 35043), (182, 34974), (188, 34953), (190, 34950), (207, 34908), (212, 34878), (214, 34863), (216, 34845), (217, 34839), (218, 34836), (239, 34731), (242, 34725), (287, 34668), (294, 34629), (321, 34464), (327, 34428), (333, 34404), (341, 34362), (345, 34344), (369, 34224), (370, 34218), (373, 34203), (376, 34176), (403, 34038), (419, 33975), (443, 33882), (447, 33861), (471, 33780), (477, 33747),

Gene: Zemlya_49 Start: 32513, Stop: 34603, Start Num: 48
Candidate Starts for Zemlya_49:
(31, 32471), (34, 32477), (Start: 48 @32513 has 546 MA's), (Start: 61 @32558 has 1 MA's), (79, 32669), (Start: 88 @32723 has 3 MA's), (90, 32729), (Start: 97 @32774 has 1 MA's), (114, 32855),

(116, 32864), (131, 32942), (134, 32951), (141, 32984), (156, 33044), (158, 33077), (163, 33101), (172, 33143), (182, 33221), (183, 33224), (200, 33281), (207, 33311), (216, 33374), (218, 33383), (229, 33434), (248, 33503), (283, 33548), (287, 33560), (305, 33692), (318, 33749), (321, 33770), (327, 33806), (338, 33857), (346, 33893), (358, 33953), (361, 33965), (370, 34016), (371, 34022), (373, 34031), (378, 34067), (382, 34115), (384, 34127), (395, 34154), (398, 34166), (399, 34169), (407, 34220), (410, 34226), (420, 34271), (425, 34289), (426, 34292), (436, 34325), (441, 34343), (447, 34373), (450, 34385), (457, 34412), (473, 34472), (488, 34544), (495, 34595),

Gene: Zetzy_53 Start: 35469, Stop: 33451, Start Num: 55
Candidate Starts for Zetzy_53:
(Start: 55 @35469 has 103 MA's), (Start: 71 @35376 has 1 MA's), (Start: 73 @35367 has 4 MA's), (78, 35343), (Start: 88 @35292 has 3 MA's), (Start: 97 @35241 has 1 MA's), (114, 35160), (116, 35151), (141, 35031), (156, 34971), (159, 34935), (172, 34875), (182, 34797), (185, 34785), (207, 34725), (212, 34695), (216, 34662), (217, 34656), (218, 34653), (234, 34572), (242, 34542), (287, 34488), (312, 34317), (333, 34221), (341, 34179), (345, 34161), (369, 34044), (370, 34038), (373, 34023), (376, 33996), (383, 33933), (384, 33927), (391, 33903), (418, 33798), (436, 33729), (441, 33711), (443, 33702), (447, 33681), (470, 33603), (477, 33567), (490, 33504),

Gene: Zimmer_48 Start: 36416, Stop: 34377, Start Num: 48
Candidate Starts for Zimmer_48:
(Start: 48 @36416 has 546 MA's), (Start: 71 @36311 has 1 MA's), (Start: 73 @36302 has 4 MA's), (102, 36143), (116, 36086), (117, 36071), (125, 36026), (126, 36023), (141, 35966), (145, 35957), (172, 35810), (181, 35735), (182, 35732), (185, 35720), (188, 35711), (207, 35666), (213, 35633), (216, 35603), (217, 35597), (218, 35594), (272, 35456), (280, 35429), (288, 35405), (291, 35384), (298, 35342), (319, 35222), (321, 35204), (333, 35144), (341, 35102), (345, 35084), (358, 35021), (370, 34958), (374, 34925), (382, 34859), (397, 34814), (408, 34763), (410, 34760), (425, 34691), (430, 34670), (447, 34607), (470, 34529),

Gene: Zolita_44 Start: 35177, Stop: 33114, Start Num: 50
Candidate Starts for Zolita_44:
(Start: 48 @35180 has 546 MA's), (Start: 50 @35177 has 3 MA's), (74, 35066), (Start: 88 @34994 has 3 MA's), (100, 34925), (114, 34862), (116, 34853), (141, 34733), (148, 34718), (167, 34607), (171, 34586), (172, 34577), (173, 34568), (182, 34499), (185, 34487), (204, 34406), (207, 34388), (212, 34358), (213, 34355), (216, 34325), (217, 34319), (218, 34316), (236, 34229), (250, 34199), (264, 34175), (291, 34127), (319, 33965), (323, 33932), (334, 33884), (341, 33845), (355, 33776), (367, 33719), (369, 33707), (370, 33701), (376, 33659), (378, 33650), (407, 33503), (416, 33470), (425, 33428), (436, 33392), (441, 33374), (443, 33365), (491, 33155),

Gene: Zulu_55 Start: 35286, Stop: 33232, Start Num: 48
Candidate Starts for Zulu_55:
(Start: 48 @35286 has 546 MA's), (Start: 88 @35100 has 3 MA's), (Start: 97 @35049 has 1 MA's), (102, 35016), (114, 34968), (116, 34959), (125, 34899), (141, 34839), (155, 34782), (159, 34743), (168, 34710), (172, 34683), (173, 34674), (178, 34620), (182, 34605), (207, 34533), (212, 34503), (216, 34470), (217, 34464), (218, 34461), (236, 34374), (258, 34320), (278, 34287), (291, 34239), (298, 34197), (321, 34059), (343, 33945), (356, 33885), (358, 33876), (367, 33831), (370, 33813), (374, 33780), (393, 33678), (396, 33672), (408, 33618), (415, 33591), (418, 33579), (430, 33525), (447, 33462), (454, 33432), (463, 33405), (472, 33366),

Gene: phiCAM_45 Start: 35519, Stop: 37381, Start Num: 88
Candidate Starts for phiCAM_45:
(20, 35240), (34, 35282), (Start: 48 @35318 has 546 MA's), (Start: 73 @35429 has 4 MA's), (81, 35480), (82, 35486), (Start: 88 @35519 has 3 MA's), (Start: 97 @35570 has 1 MA's), (116, 35660), (117, 35675), (131, 35738), (134, 35747), (141, 35780), (163, 35897), (172, 35939), (173, 35948),

(182, 36017), (183, 36020), (187, 36041), (207, 36107), (212, 36137), (216, 36170), (283, 36332), (287, 36344), (298, 36410), (318, 36533), (327, 36590), (354, 36713), (360, 36743), (376, 36839), (378, 36848), (402, 36965), (407, 37001), (408, 37004), (420, 37052), (436, 37106), (441, 37124), (447, 37154), (451, 37172), (457, 37190), (462, 37202), (473, 37250), (495, 37373),

Gene: phiHau3_48 Start: 31684, Stop: 33753, Start Num: 48
Candidate Starts for phiHau3_48:
(Start: 48 @31684 has 546 MA's), (Start: 88 @31891 has 3 MA's), (Start: 97 @31942 has 1 MA's), (116, 32035), (134, 32122), (136, 32134), (141, 32155), (159, 32251), (163, 32272), (182, 32392), (183, 32395), (189, 32425), (207, 32464), (212, 32494), (214, 32509), (216, 32527), (233, 32611), (278, 32689), (287, 32713), (302, 32833), (305, 32845), (315, 32893), (321, 32923), (327, 32959), (335, 32986), (338, 33010), (373, 33184), (376, 33211), (384, 33280), (388, 33298), (398, 33319), (408, 33376), (410, 33379), (420, 33424), (441, 33496), (447, 33526), (461, 33571), (462, 33574), (473, 33622), (486, 33691), (495, 33745),