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Note: Tracks are now grouped by subcluster and scaled. Switching in subcluster is indicated by changes in track color. Track scale is now set by default to display the region 30 bp upstream of start 1 to 30 bp downstream of the last possible start. If this default region is judged to be packed too tightly with annotated starts, the track will be further scaled to only show that region of the ORF with annotated starts. This action will be indicated by adding "Zoomed" to the title. For starts, yellow indicates the location of called starts comprised solely of Glimmer/GeneMark auto-annotations, green indicates the location of called starts with at least 1 manual gene annotation.

Pham 330327 Report

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

Pham number 330327 has 470 members, 38 are drafts.

Phages represented in each track:

- Track 1 : JacoRen57_20
- Track 2 : Weirido19_22
- Track 3 : StAugustine_34
- Track 4 : Causa_36
- Track 5 : Delton_30, Erk16_30, KandZ_30, Visconti_30, Troll4_30, PLOT_31, Prager_30, Giuseppe_30, Adjutor_31, Mopey_30, Thoth_30, WaldoWhy_31, PBI1_30, BigMama_28, Butterscotch_30, Chill_31
- Track 6 : Phalaborwa_30
- Track 7 : SuperheroCarly_30, Helpful_31, Penelope2018_30
- Track 8 : Nova_30
- Track 9 : SirHarley_29, Gumball_29
- Track 10 : Hawkeye_32
- Track 11 : Terminus_26, Goldilocks_27, Murphy_27, Willez_25, TeamEdward_26, Holt_27, Thimble_26, Teaspoon_27, Porky_26, Buck_25, PhatBacter_26, Cookies_26, Murica_25, Pharsalus_27, Inca_25, LiveLaughBron_26, Gemini_29, Miniwave_26, Tarkin_28, NonchalantPear_26, Palpatine_26, HufflyPuff_25, Petra64142_28, FireRed_26, Phaux_25, StellaBean_26, TBrady12_28, AmericanBeauty_28, MPhalcon_25, Misfit_26, Paperbeatsrock_28, Bogg_26, Nala_26, Argent26_28, MISSy_25, Nimrod_26, Highbury_27, Manda_27, Becksu_26, SophKB_26, GooberAzure_28, StormChicken_26, Gage_28, BugsBunny_24, Saints25_27, Kimchi_28, ShereKhan_28, Stank_29, Qualification_27, Easy2Say_28, Filch_27, Kanye_28, Sassay_25
- Track 12 : Brewer_26, YassJohnny_27, Greep_27, Contagion_25, Mosby_25, MollyToe_26, Tomaszewski_25, BigBubba_27, Bruin_26, ChotaBhai_26, xkcd_27, Rimmer_25, FoghornLeghorn_25
- Track 13 : Command613_27, Marshmallow_26, Icee_25, Bask21_26, Sotrice96_26, Kostya_26, CrystalP_26, BilboSwaggins_26, Cactus_27, SirDuracell_25
- Track 14 : Gator_24, Rakim_27, ABCat_25, Asriel_25, Barbarian_25, Goku_26, Myrale_26, Dusk_25, Balomoji_25, Tuco_27, Traaww1_24, TeardropMSU_25, Eureka_26
- Track 15 : HanKaySha_27, Phrux_26, Xandras_28, Wiggin_29, Adnama_29, Lilizi_28, Stark_27, Emmina_27, Czystczon1_27, RiverMonster_26, Elite2014_25, Bench_28, ChosenOne_25, DoctorDiddles_26, DrDrey_27, Simpliphy_27, Lilpickle_25, PaddyBaddy_27, Pumpkin_28, MadamMonkfish_26, NoSleep_27, Dumbo_26, Ukulele_26, OrionPax_27, Elph10_27, Maxxinista_27, JeTaime_28, Hopey_28, StolenFromERC_28, Moldemort_27, Hoonter_28, Lilac_28, 244_28
- Track 16 : Phaja_26, IHOP_26, FairyPath_26

- Track 17 : Cjw1_26
- Track 18 : Ptowny_26
- Track 19 : Pat3_25
- Track 20 : Budgie_28
- Track 21 : BaboJay_25
- Track 22 : BadStone_25
- Track 23 : Harella_25, Flypotenuse_24, Glexan_24
- Track 24 : Amao_26
- Track 25 : NelitzaMV_26, Henry_26, Daikon_24, ShamWow_26, Toto_26, Mindy_26
- Track 26 : Policronamos_26
- Track 27 : GoldenSpark_28
- Track 28 : Thresher_27
- Track 29 : Youngblood_26
- Track 30 : Clank_18
- Track 31 : Blarby_25
- Track 32 : Whatsapiecost_18, IMpilo_18, Firehouse51_19, Minnie_19, Leozinho_19, MilleniumForce_19
- Track 33 : ShiLan_18, Gandalph_18, Burwell21_18, OlympiaSaint_18, NormanBulbieJr_18, ShowerHandel_18, Priscilla_18, Yorick_18, Jarcob_18, Spoonbill_18, Martik_18, Cabrinians_18
- Track 34 : Aubs_18
- Track 35 : Rockne_18, Llij_18, PMC_18
- Track 36 : Sabbb_19, Mattes_18, BobaPhett_18, Gorge_18, James_18, LilMoolah_18
- Track 37 : Flathead_19
- Track 38 : RitaG_18, Lucia_19
- Track 39 : BlueCrab_18, Pacc40_18, Polka14_19, Dorothy_18, Daenerys_18, PHappiness_18, KingMidas_19, JoeyJr_18, OldBen_18, DaddyRickover_18, IbOuu_18, Scottish_19
- Track 40 : SG4_18
- Track 41 : MisterCuddles_18, GUmbie_18, Girr_18, Veteran_18, Phasih_19, Ruby_18
- Track 42 : Totinger_19, LittleShirley_19, GigiOuiOui_18, Emmaloid_19, Starcevich_19, Vivum_18, Tchotchke_19, Slim_19, Rialto_20, EmiMonkey_18, PhilipPhlop_18
- Track 43 : Beanstalk_19
- Track 44 : Alexphander_20, ArcusAngelus_18, DaWorst_20, Chevrolet_18
- Track 45 : Zerg_18
- Track 46 : Madiba_19
- Track 47 : VRedHorse_18
- Track 48 : Job42_21
- Track 49 : UncleRicky_19, Phatniss_19, Drago_19, Lorde_19, Enby_19
- Track 50 : Doug_19
- Track 51 : TootsiePop_19, Awesomesauce_19, Misha28_19
- Track 52 : Tootsieroll_19, Radiance_18
- Track 53 : Aloeri_19, ChickenDinner_19, DocMcStuffins_19, Piper2020_19
- Track 54 : OfUltron_18, Jinglebell_17, Llama_18, Modragons_18, AlpineSix_18, Seabastian_18, Ochi17_18
- Track 55 : Spikelee_19, RedBird_18, BuzzLyseyear_20, RockyHorror_19, WillSterrel_19, IrishSherpFalk_19, Mantra_18
- Track 56 : OwlsT2W_20, Hades_18, DosHalletts_19
- Track 57 : Nichirin_18
- Track 58 : Coco12_20, Phanphagia_18, Brookers_19, Kingsley_19

- Track 59 : StAnnes_18
- Track 60 : Karhdo_18
- Track 61 : Strokeseat_18, Hlubikazi_18, Mandlovu_18
- Track 62 : Dante_18
- Track 63 : Kersh_19
- Track 64 : Mova_19
- Track 65 : Moonbeam_19, Kimberlium_20, Juice456_20, QuickMath_19, MulchExplorer_20
- Track 66 : Ibhubesi_18, Harley_18
- Track 67 : Mozy_19
- Track 68 : SuperGrey_19
- Track 69 : PatoPoderoso_18, Doomslug_20, EleanorGeorge_18, JalFarm20_20, KristaRAM_19, Batiatus_18, KingJulian_18, Corium_18, Fruitloop_18
- Track 70 : DotProduct_18
- Track 71 : NewHope4_19, Polo2Bam_20, SeaLumen_19, Enzomatic_20
- Track 72 : MinionDave_19, CaptainTrips_19
- Track 73 : Brushbloom_19
- Track 74 : Nitzel_19
- Track 75 : Taj_18, DeadP_18
- Track 76 : Peridot_20
- Track 77 : Nivrat_18, Lizziana_18
- Track 78 : Wee_19
- Track 79 : Boomer_19
- Track 80 : ByChance_18
- Track 81 : PhesterPhotato_18
- Track 82 : Chuckly_18
- Track 83 : Ramsey_19
- Track 84 : Nimbo_18, Blexus_18, Deb65_18, Geralt_18, Inventum_18, Sassafras_18
- Track 85 : XFactor_18, Galactic_18, Filuzino_18
- Track 86 : Mwanjiwa_18
- Track 87 : Che8_18
- Track 88 : Fancypants_18
- Track 89 : ShroomBoi_18
- Track 90 : SwagPigglett_18, TDanisky_18, Philus_18, DRBy19_18, Saal_18, Sparkdehlily_18
- Track 91 : Spartacus_19
- Track 92 : SimranZ1_19
- Track 93 : Whouxphf_18
- Track 94 : Donkeykong_18
- Track 95 : LunaBlu_19
- Track 96 : Bobi_20
- Track 97 : DoRead_18
- Track 98 : Mutaforma13_18
- Track 99 : Pollywog_21, Ogopogo_21
- Track 100 : Royals2015_18
- Track 101 : Bubbles123_19
- Track 102 : Stap_19
- Track 103 : Wachhund_18
- Track 104 : Phalconet_18
- Track 105 : Oksu_19
- Track 106 : Quico_19, Girafales_19, Florinda_18
- Track 107 : Guppsters_19

- Track 108 : Estave1_18
- Track 109 : Mahavrat_18, Juniper1_18
- Track 110 : Jant_18
- Track 111 : Plumbus_19
- Track 112 : Ovechkin_18
- Track 113 : Krakatau_19
- Track 114 : Hegedechwinu_19
- Track 115 : Eish_18
- Track 116 : Hamulus_18
- Track 117 : Empress_19
- Track 118 : Sandalphon_19
- Track 119 : SiSi_18
- Track 120 : Grimmer_19
- Track 121 : Poenanya_18, Doomphist_18
- Track 122 : SassyB_18, PopTart_18
- Track 123 : Seagreen_19
- Track 124 : Cornucopia_19, Marker_19
- Track 125 : Leperchaun_18
- Track 126 : Eradicator_18
- Track 127 : Maravista_18
- Track 128 : Topiatin_20
- Track 129 : Melissauren88_18
- Track 130 : Zizzle_18
- Track 131 : Violac_19
- Track 132 : Beakin_19
- Track 133 : Bipolar_18
- Track 134 : Emma_18, Tweety_18
- Track 135 : MadMen_19
- Track 136 : DLane_18
- Track 137 : DillTech15_18
- Track 138 : FreddyB_18
- Track 139 : BodEinwohner17_18
- Track 140 : Byougenkin_18
- Track 141 : Fastidio_18
- Track 142 : DirtMcgirt_19
- Track 143 : Ardmore_18
- Track 144 : Medindi_18
- Track 145 : Shauna1_18
- Track 146 : Latretium_19
- Track 147 : Frankie_19
- Track 148 : Cheesepuff_20
- Track 149 : Rita_18
- Track 150 : Kenuha5_18
- Track 151 : Zapner_25, Jabbawokkie_26
- Track 152 : Avani_24
- Track 153 : Soul22_24
- Track 154 : Demsculpinboyz_24
- Track 155 : Che9d_24
- Track 156 : SilverChicken_24
- Track 157 : Yoshi_24
- Track 158 : LunaStella_20
- Track 159 : Renaud18_20
- Track 160 : ThetaBob_20

- Track 161 : Cornie_20
- Track 162 : Toron_20
- Track 163 : Oaker_29
- Track 164 : Damien_29, Nish23_30, Cborch11_30, Beckerton_29, Megatron06_31
- Track 165 : Phreeze_29, Konstantine_34
- Track 166 : Thumb_29, BobtimousPrime_31
- Track 167 : Puissant_30
- Track 168 : PaintedDog_20
- Track 169 : Courthouse_36, Squint_35, Porcelain_35, Ariel_36, Superphikiman_36, Lucky2013_36
- Track 170 : LittleE_39
- Track 171 : MiaZeal_36
- Track 172 : Optimus_37
- Track 173 : Shaboozey_30, Hannaconda_33, KashFlow_30, BronnyJames_30, Nibley_31
- Track 174 : Wanda_39, BAKA_36, Omega_38
- Track 175 : Duke13_36
- Track 176 : Minerva_39
- Track 177 : Gonephishing_34
- Track 178 : DmpstrDiver_37
- Track 179 : MaryV_43, Wildcat_43
- Track 180 : Cosmo_43
- Track 181 : Azrael100_42
- Track 182 : EniyanLRS_40
- Track 183 : Gaia_21
- Track 184 : Nebkiss_22
- Track 185 : Kumao_30
- Track 186 : MooMoo_18

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

The start number called the most often in the published annotations is 21, it was called in 242 of the 432 non-draft genes in the pham.

Genes that call this "Most Annotated" start:

• Alexphander_20, Aloeri_19, AlpineSix_18, ArcusAngelus_18, Ardmore_18, Ariel_36, Aubs_18, Awesomesauce_19, BAKA_36, Batiatus_18, Beakin_19, Beanstalk_19, Bipolar_18, Blexus_18, BlueCrab_18, BobaPhett_18, Bobi_20, BodEinwohner17_18, Boomer_19, BronnyJames_30, Brookers_19, Brushbloom_19, Bubbles123_19, Burwell21_18, BuzzLyseyear_20, ByChance_18, Byougenkin_18, Cabrinians_18, CaptainTrips_19, Che8_18, CheesePuff_20, Chevrolet_18, ChickenDinner_19, Chuckly_18, Clank_18, Coco12_20, Corium_18, Cornucopia_19, Courthouse_36, DLane_18, DRBy19_18, DaWorst_20, DaddyRickover_18, Daenerys_18, Dante_18, DeadP_18, Deb65_18, DillTech15_18, DirtMcGirt_19, DmpstrDiver_37, DoRead_18, DocMcStuffins_19, Donkeykong_18, Doomphist_18, Doomslug_20, Dorothy_18, DosHalletts_19, DotProduct_18, Doug_19, Drago_19, Duke13_36, Eish_18, EleanorGeorge_18, EmiMonkey_18, Emma_18, Emmaloid_19, Empress_19, Enby_19, Enzomatic_20, Eradicator_18, Estave1_18, Fancypants_18, Fastidio_18, Filuzino_18, Firehouse51_19, Flathead_19, Florinda_18, Frankie_19, FreddyB_18, Fruitloop_18, GUmbie_18, Galactic_18, Gandolph_18, Geralt_18, GigiOuiOui_18,

Girafales_19, Girr_18, Gorge_18, Grimmer_19, Guppsters_19, Hades_18, Hamulus_18, Hannaconda_33, Harley_18, Hegedechwinu_19, Hlubikazi_18, IMpilo_18, IbOuu_18, Ibhubesi_18, Inventum_18, IrishSherpFalk_19, JalFarm20_20, James_18, Jant_18, Jarcob_18, Jinglebell_17, Job42_21, JoeyJr_18, Juice456_20, Juniper1_18, Karhdo_18, KashFlow_30, Kenuha5_18, Kersh_19, Kimberlium_20, KingJulian_18, KingMidas_19, Kingsley_19, Krakatau_19, KristaRAM_19, Latretium_19, Leozinho_19, Leperchaun_18, LilMoolah_18, LittleE_39, LittleShirley_19, Lizziana_18, Llama_18, Llij_18, Lorde_19, Lucia_19, Lucky2013_36, LunaBlu_19, MadMen_19, Madiba_19, Mahavrat_18, Mandlovu_18, Mantra_18, Maravista_18, Marker_19, Martik_18, Mattes_18, Medindi_18, MiaZeal_36, MilleniumForce_19, Minerva_39, MinionDave_19, Minnie_19, Misha28_19, MisterCuddles_18, Modragons_18, MooMoo_18, Moonbeam_19, Mova_19, Mozy_19, MulchExplorer_20, Mutaforma13_18, Mwanjiwa_18, NewHope4_19, Nibley_31, Nichirin_18, Nimbo_18, Nitzel_19, Nivrat_18, NormanBulbieJr_18, Ochi17_18, OfUltron_18, Ogopogo_21, Oksu_19, OldBen_18, OlympiaSaint_18, Omega_38, Optimus_37, Ovechkin_18, OwlsT2W_20, PHappiness_18, PMC_18, Pacc40_18, PatoPoderoso_18, Peridot_20, Phalconet_18, Phanphagia_18, Phasih_19, Phatniss_19, PhesterPhotato_18, Philus_18, PhilipPhlop_18, Piper2020_19, Plumbus_19, Poenanya_18, Polka14_19, Pollywog_21, Polo2Bam_20, PopTart_18, Porcelain_35, Priscilla_18, QuickMath_19, Quico_19, Radiance_18, Ramsey_19, RedBird_18, Rialto_20, RitaG_18, Rita_18, Rockne_18, RockyHorror_19, Royals2015_18, Ruby_18, SG4_18, Saal_18, Sabbb_19, Sandalphon_19, Sassafras_18, SassyB_18, Scottish_19, SeaLumen_19, Seabastian_18, Seagreen_19, Shaboozey_30, Shauna1_18, ShiLan_18, ShowerHandel_18, ShroomBoi_18, SiSi_18, SimranZ1_19, Slim_19, Sparkdehlily_18, Spartacus_19, Spikelee_19, Spoonbill_18, Squint_35, StAnnes_18, Stap_19, Starcevich_19, Strokeseat_18, SuperGrey_19, Superphikiman_36, SwagPigglett_18, TDanisky_18, Taj_18, Tchotchke_19, TootsiePop_19, Tootsieroll_19, Topiatin_20, Totinger_19, Tweety_18, UncleRicky_19, VRedHorse_18, Veteran_18, Violac_19, Vivum_18, Wachhund_18, Wanda_39, Wee_19, Whatsapiecost_18, Whouxphf_18, WillSterrel_19, XFactor_18, Yorick_18, Zerg_18, Zizzle_18,

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

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

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

- 244_28, ABCat_25, Adjutor_31, Adnama_29, Amao_26, AmericanBeauty_28, Argent26_28, Asriel_25, Azrael100_42, BaboJay_25, BadStone_25, Balomoji_25, Barbarian_25, Bask21_26, Beckerton_29, Becksu_26, Bench_28, BigBubba_27, BigMama_28, BilboSwaggins_26, Blarby_25, BobtimousPrime_31, Bogg_26, Brewer_26, Bruin_26, Buck_25, Budgie_28, BugsBunny_24, Butterscotch_30, Cactus_27, Causa_36, Cborch11_30, Chill_31, ChosenOne_25, ChotaBhai_26, Cjw1_26, Command613_27, Contagion_25, Cookies_26, Cornie_20, Cosmo_43, CrystalP_26, Czystszczon1_27, Daikon_24, Damien_29, Delton_30, DoctorDiddles_26, DrDrey_27, Dumbo_26, Dusk_25, Easy2Say_28, Elite2014_25, Elph10_27, Emmina_27, EniyanLRS_40, Erk16_30, Eureka_26, FairyPath_26, Filch_27, FireRed_26, Flypotenuse_24, FoghornLeghorn_25, Gage_28, Gaia_21, Gator_24, Gemini_29, Giuseppe_30, Glexan_24, Goku_26, GoldenSpark_28, Goldilocks_27, GooberAzure_28, Greep_27, Gumball_29, HanKaySha_27, Harella_25, Hawkeye_32, Helpful_31, Henry_26, Highbury_27, Holt_27, Hoonter_28, Hopey_28, HuffyPuff_25, IHOP_26, Icee_25, Inca_25, JacoRen57_20, JeTaimé_28, KandZ_30,

Kanye_28, Kimchi_28, Konstantine_34, Kostya_26, Kumao_30, Lilac_28, Lilizi_28, Lilpickle_25, Liveloughbron_26, LunaStella_20, MISSy_25, MPhalcon_25, MadamMonkfish_26, Manda_27, Marshmallow_26, MaryV_43, Maxxinista_27, Megatron06_31, Mindy_26, Miniwave_26, Misfit_26, Moldemort_27, MollyToe_26, Mopey_30, Mosby_25, Murica_25, Murphy_27, Myrale_26, Nala_26, Nebkiss_22, NelitzaMV_26, Nimrod_26, Nish23_30, NoSleep_27, NonchalantPear_26, Nova_30, Oaker_29, OrionPax_27, PBI1_30, PLOT_31, PaddyBaddy_27, PaintedDog_20, Palpatine_26, Paperbeatsrock_28, Pat3_25, Penelope2018_30, Petra64142_28, Phaja_26, Phalaborwa_30, Pharsalus_27, PhatBacter_26, Phaux_25, Phreeze_29, Phrux_26, Policronamos_26, Porky_26, Prager_30, Ptowny_26, Puissant_30, Pumpkin_28, Qualification_27, Rakim_27, Renaud18_20, Rimmer_25, RiverMonster_26, Saints25_27, Sassay_25, ShamWow_26, ShereKhan_28, SilverChicken_24, Simpliphy_27, SirDuracell_25, SirHarley_29, SophKB_26, Sotrice96_26, StAugustine_34, Stank_29, Stark_27, StellaBean_26, StolenFromERC_28, StormChicken_26, SuperheroCarly_30, TBrady12_28, Tarkin_28, TeamEdward_26, TeardropMSU_25, Teaspoon_27, Terminus_26, ThetaBob_20, Thimble_26, Thoth_30, Thresher_27, Thumb_29, Tomaszewski_25, Toron_20, Toto_26, Traaww1_24, Troll4_30, Tuco_27, Ukulele_26, Visconti_30, WaldoWhy_31, Weirido19_22, Wiggin_29, Wildcat_43, Willez_25, Xandras_28, YassJohnny_27, Youngblood_26, xkcd_27,

Summary by start number:

Start 1:

- Found in 1 of 470 (0.2%) of genes in pham
- Manual Annotations of this start: 1 of 432
- Called 100.0% of time when present
- Phage (with cluster) where this start called: Hawkeye_32 (D2),

Start 4:

- Found in 11 of 470 (2.3%) of genes in pham
- Manual Annotations of this start: 10 of 432
- Called 100.0% of time when present
- Phage (with cluster) where this start called: Beckerton_29 (H1), BobtimousPrime_31 (H1), Cborch11_30 (H1), Damien_29 (H1), Konstantine_34 (H1), Megatron06_31 (H1), Nish23_30 (H1), Oaker_29 (H1), Phreeze_29 (H1), Puissant_30 (H1), Thumb_29 (H1),

Start 13:

- Found in 7 of 470 (1.5%) of genes in pham
- Manual Annotations of this start: 7 of 432
- Called 100.0% of time when present
- Phage (with cluster) where this start called: Avani_24 (F2), Che9d_24 (F2), Demsculpinboyz_24 (F2), Jabbawokkie_26 (F2), Soul22_24 (F2), Yoshi_24 (F2), Zapner_25 (F2),

Start 16:

- Found in 1 of 470 (0.2%) of genes in pham
- No Manual Annotations of this start.
- Called 100.0% of time when present
- Phage (with cluster) where this start called: Blarby_25 (F),

Start 17:

- Found in 2 of 470 (0.4%) of genes in pham
- Manual Annotations of this start: 2 of 432
- Called 100.0% of time when present
- Phage (with cluster) where this start called: Gaia_21 (X), Nebkiss_22 (X),

Start 20:

- Found in 6 of 470 (1.3%) of genes in pham
- Manual Annotations of this start: 6 of 432
- Called 100.0% of time when present
- Phage (with cluster) where this start called: Azrael100_42 (V), Cosmo_43 (V), EniyanLRS_40 (V), Kumao_30 (singleton), MaryV_43 (V), Wildcat_43 (V),

Start 21:

- Found in 270 of 470 (57.4%) of genes in pham
- Manual Annotations of this start: 242 of 432
- Called 96.7% of time when present
- Phage (with cluster) where this start called: Alexphander_20 (F1), Aloeri_19 (F1), AlpineSix_18 (F1), ArcusAngelus_18 (F1), Ardmore_18 (F1), Ariel_36 (J), Aubs_18 (F1), Awesomesauce_19 (F1), BAKA_36 (J), Batiatius_18 (F1), Beakin_19 (F1), Beanstalk_19 (F1), Bipolar_18 (F1), Blexus_18 (F1), BlueCrab_18 (F1), BobaPhett_18 (F1), Bobi_20 (F1), BodEinwohner17_18 (F1), Boomer_19 (F1), BronnyJames_30 (J), Brookers_19 (F1), Brushbloom_19 (F1), Bubbles123_19 (F1), Burwell21_18 (F1), BuzzLyseyear_20 (F1), ByChance_18 (F1), Byougenkin_18 (F1), Cabrinians_18 (F1), CaptainTrips_19 (F1), Che8_18 (F1), Cheesepuff_20 (F1), Chevrolet_18 (F1), ChickenDinner_19 (F1), Chuckly_18 (F1), Clank_18 (F), Coco12_20 (F1), Corium_18 (F1), Cornucopia_19 (F1), Courthouse_36 (J), DLane_18 (F1), DRBy19_18 (F1), DaWorst_20 (F1), DaddyRickover_18 (F1), Daenerys_18 (F1), Dante_18 (F1), DeadP_18 (F1), Deb65_18 (F1), DillTech15_18 (F1), DirtMcGirt_19 (F1), DmpstrDiver_37 (J), DoRead_18 (F1), DocMcStuffins_19 (F1), Donkeykong_18 (F1), Doomphist_18 (F1), Doomslug_20 (F), Dorothy_18 (F1), DosHalletts_19 (F1), DotProduct_18 (F1), Doug_19 (F1), Drago_19 (F1), Duke13_36 (J), Eish_18 (F1), EleanorGeorge_18 (F1), EmiMonkey_18 (F1), Emma_18 (F1), Emmaloid_19 (F1), Empress_19 (F1), Enby_19 (F1), Enzomatic_20 (F1), Eradicator_18 (F1), Estave1_18 (F1), Fancypants_18 (F1), Fastidio_18 (F1), Filuzino_18 (F1), Firehouse51_19 (F1), Flathead_19 (F1), Florinda_18 (F1), Frankie_19 (F1), FreddyB_18 (F1), Fruitloop_18 (F1), GUmbie_18 (F1), Galactic_18 (F1), Gandolph_18 (F1), Geralt_18 (F1), GigiOuiOui_18 (F1), Girafales_19 (F1), Girr_18 (F1), Gorge_18 (F1), Grimmer_19 (F1), Guppsters_19 (F1), Hades_18 (F1), Hamulus_18 (F1), Hannaconda33 (J), Harley_18 (F1), Hegedechwinu_19 (F1), Hlubikazi_18 (F1), IMpilo_18 (F1), IbOuu_18 (F1), Ibhubesi_18 (F1), Inventum_18 (F1), IrishSherpFalk_19 (F1), JalFarm20_20 (F1), James_18 (F1), Jant_18 (F1), Jacob_18 (F1), Jinglebell_17 (F1), Job42_21 (F1), JoeyJr_18 (F1), Juice456_20 (F1), Juniper1_18 (F1), Karhdo_18 (F1), KashFlow_30 (J), Kenuha5_18 (F1), Kersh_19 (F1), Kimberlium_20 (F1), KingJulian_18 (F1), KingMidas_19 (F1), Kingsley_19 (F1), Krakatau_19 (F1), KristaRAM_19 (F1), Latretium_19 (F1), Leozinho_19 (F1), Leperchaun_18 (F1), LilMoolah_18 (F1), LittleE_39 (J), LittleShirley_19 (F1), Lizziana_18 (F1), Llama_18 (F1), Llij_18 (F1), Lorde_19 (F1), Lucia_19 (F1), Lucky2013_36 (J), LunaBlu_19 (F1), MadMen_19 (F1), Madiba_19 (F1), Mahavrat_18 (F1), Mandlovu_18 (F1), Mantra_18 (F1), Maravista_18 (F1), Marker_19 (F1), Martik_18 (F1), Mattes_18 (F1), Medindi_18 (F1), MiaZeal_36 (J), MilleniumForce_19 (F1), Minerva_39 (J), MinionDave_19 (F1), Minnie_19 (F1), Misha28_19 (F1), MisterCuddles_18 (F1), Modragons_18 (F1), MooMoo_18 (singleton), Moonbeam_19 (F1), Mova_19 (F1), Mozy_19 (F1), MulchExplorer_20

(F1), Mutaforma13_18 (F1), Mwanjiwa_18 (F1), NewHope4_19 (F1), Nibley_31 (J), Nichirin_18 (F1), Nimbo_18 (F1), Nitze_19 (F1), Nivrat_18 (F1), NormanBulbieJr_18 (F1), Ochi17_18 (F1), OfUltron_18 (F1), Ogoopogo_21 (F1), Oksu_19 (F1), OldBen_18 (F1), OlympiaSaint_18 (F1), Omega_38 (J), Optimus_37 (J), Ovechkin_18 (F1), OwlsT2W_20 (F1), PHappiness_18 (F1), PMC_18 (F1), Pacc40_18 (F1), PatoPoderoso_18 (F1), Peridot_20 (F1), Phalconet_18 (F1), Phanphagia_18 (F1), Phasih_19 (F1), Phatniss_19 (F1), PhesterPhotato_18 (F1), Philus_18 (F1), PhilipPhlop_18 (F1), Piper2020_19 (F1), Plumbus_19 (F1), Poenanya_18 (F1), Polka14_19 (F1), Pollywog_21 (F1), Polo2Bam_20 (F1), PopTart_18 (F1), Porcelain_35 (J), Priscilla_18 (F1), QuickMath_19 (F1), Quico_19 (F1), Radiance_18 (F1), Ramsey_19 (F1), RedBird_18 (F1), Rialto_20 (F1), RitaG_18 (F1), Rita_18 (F1), Rockne_18 (F1), RockyHorror_19 (F1), Royals2015_18 (F1), Ruby_18 (F1), SG4_18 (F1), Saal_18 (F1), Sabbb_19 (F1), Sandalphon_19 (F1), Sassafras_18 (F1), SassyB_18 (F1), Scottish_19 (F1), SeaLumen_19 (F1), Seabastian_18 (F1), Seagreen_19 (F1), Shaboozey_30 (J), Shauna1_18 (F1), ShiLan_18 (F1), ShowerHandel_18 (F1), ShroomBoi_18 (F1), SiSi_18 (F1), SimranZ1_19 (F1), Slim_19 (F1), Sparkdehlily_18 (F1), Spartacus_19 (F1), Spikelee_19 (F1), Spoonbill_18 (F1), Squint_35 (J), StAnnes_18 (F1), Stap_19 (F1), Starceovich_19 (F1), Strokeseat_18 (F1), SuperGrey_19 (F1), Superphikiman_36 (J), SwagPigglett_18 (F1), TDanisky_18 (F1), Taj_18 (F1), Tchotchke_19 (F1), TootsiePop_19 (F1), Tootsieroll_19 (F1), Topiatin_20 (F1), Totinger_19 (F1), Tweety_18 (F1), UncleRicky_19 (F1), VRedHorse_18 (F1), Veteran_18 (F1), Violac_19 (F1), Vivum_18 (F1), Wachhund_18 (F1), Wanda_39 (J), Wee_19 (F1), Whatsapiecost_18 (F1), Whouxphf_18 (F1), WillSterrel_19 (F1), XFactor_18 (F1), Yorick_18 (F1), Zerg_18 (F1), Zizzle_18 (F1),

Start 22:

- Found in 12 of 470 (2.6%) of genes in pham
- Manual Annotations of this start: 1 of 432
- Called 8.3% of time when present
- Phage (with cluster) where this start called: Cornie_20 (F5),

Start 23:

- Found in 3 of 470 (0.6%) of genes in pham
- Manual Annotations of this start: 3 of 432
- Called 100.0% of time when present
- Phage (with cluster) where this start called: LunaStella_20 (F4), Renaud18_20 (F4), ThetaBob_20 (F4),

Start 25:

- Found in 1 of 470 (0.2%) of genes in pham
- No Manual Annotations of this start.
- Called 100.0% of time when present
- Phage (with cluster) where this start called: PaintedDog_20 (I1),

Start 35:

- Found in 197 of 470 (41.9%) of genes in pham
- Manual Annotations of this start: 1 of 432
- Called 0.5% of time when present
- Phage (with cluster) where this start called: Melissauren88_18 (F1),

Start 38:

- Found in 1 of 470 (0.2%) of genes in pham

- No Manual Annotations of this start.
- Called 100.0% of time when present
- Phage (with cluster) where this start called: SilverChicken_24 (F2),

Start 45:

- Found in 148 of 470 (31.5%) of genes in pham
- Manual Annotations of this start: 134 of 432
- Called 98.0% of time when present
- Phage (with cluster) where this start called: 244_28 (E), ABCat_25 (E), Adnama_29 (E), Amao_26 (E), AmericanBeauty_28 (E), Argent26_28 (E), Asriel_25 (E), BaboJay_25 (E), BadStone_25 (E), Balomoji_25 (E), Barbarian_25 (E), Bask21_26 (E), Becksu_26 (E), Bench_28 (E), BigBubba_27 (E), BilboSwaggins_26 (E), Bogg_26 (E), Brewer_26 (E), Bruin_26 (E), Buck_25 (E), Budgie_28 (E), BugsBunny_24 (E), Cactus_27 (E), ChosenOne_25 (E), ChotaBhai_26 (E), Cjw1_26 (E), Command613_27 (E), Contagion_25 (E), Cookies_26 (E), CrystalP_26 (E), Czystczon1_27 (E), Daikon_24 (E), DoctorDiddles_26 (E), DrDrey_27 (E), Dumbo_26 (E), Dusk_25 (E), Easy2Say_28 (E), Elite2014_25 (E), Elph10_27 (E), Emmina_27 (E), Eureka_26 (E), FairyPath_26 (E), Filch_27 (E), FireRed_26 (E), Flypotenuse_24 (E), FoghornLeghorn_25 (E), Gage_28 (E), Gator_24 (E), Gemini_29 (E), Glexan_24 (E), Goku_26 (E), GoldenSpark_28 (E), Goldilocks_27 (E), GooberAzure_28 (E), Greep_27 (E), HanKaySha_27 (E), Harella_25 (E), Henry_26 (E), Highbury_27 (E), Holt_27 (E), Hoonter_28 (E), Hopey_28 (E), HuffyPuff_25 (E), IHOP_26 (E), Icee_25 (E), Inca_25 (E), JeTaime_28 (E), Kanye_28 (E), Kimchi_28 (E), Kostya_26 (E), Lilac_28 (E), Lilizi_28 (E), Lilpickle_25 (E), Liveloughbron_26 (E), MISSy_25 (E), MPhalcon_25 (E), MadamMonkfish_26 (E), Manda_27 (E), Marshmallow_26 (E), Maxxinista_27 (E), Mindy_26 (E), Miniwave_26 (E), Misfit_26 (E), Moldemort_27 (E), MollyToe_26 (E), Mosby_25 (E), Murica_25 (E), Murphy_27 (E), Myrale_26 (E), Nala_26 (E), NelitzaMV_26 (E), Nimrod_26 (E), NoSleep_27 (E), NonchalantPear_26 (E), OrionPax_27 (E), PaddyBaddy_27 (E), Palpatine_26 (E), Paperbeatsrock_28 (E), Pat3_25 (E), Petra64142_28 (E), Phaja_26 (E), Pharsalus_27 (E), PhatBacter_26 (E), Phaux_25 (E), Phrux_26 (E), Policronamos_26 (E), Porky_26 (E), Ptowny_26 (E), Pumpkin_28 (E), Quallification_27 (E), Rakim_27 (E), Rimmer_25 (E), RiverMonster_26 (E), Saints25_27 (E), Sassay_25 (E), ShamWow_26 (E), ShereKhan_28 (E), Simpliphy_27 (E), SirDuracell_25 (E), SophKB_26 (E), Sotrice96_26 (E), Stank_29 (E), Stark_27 (E), StellaBean_26 (E), StolenFromERC_28 (E), StormChicken_26 (E), TBrady12_28 (E), Tarkin_28 (E), TeamEdward_26 (E), TeardropMSU_25 (E), Teaspoon_27 (E), Terminus_26 (E), Thimble_26 (E), Thresher_27 (E), Tomaszewski_25 (E), Toto_26 (E), Traaww1_24 (E), Tucō_27 (E), Ukulele_26 (E), Wiggin_29 (E), Willez_25 (E), Xandras_28 (E), YassJohnny_27 (E), Youngblood_26 (E), xkcd_27 (E),

Start 57:

- Found in 1 of 470 (0.2%) of genes in pham
- No Manual Annotations of this start.
- Called 100.0% of time when present
- Phage (with cluster) where this start called: Toron_20 (F6),

Start 73:

- Found in 268 of 470 (57.0%) of genes in pham
- No Manual Annotations of this start.
- Called 0.4% of time when present
- Phage (with cluster) where this start called: Gonephishing_34 (J),

Start 91:

- Found in 23 of 470 (4.9%) of genes in pham
- Manual Annotations of this start: 22 of 432
- Called 100.0% of time when present
- Phage (with cluster) where this start called: Adjutor_31 (D1), BigMama_28 (D1), Butterscotch_30 (D1), Chill_31 (D1), Delton_30 (D1), Erk16_30 (D1), Giuseppe_30 (D1), Gumball_29 (D1), Helpful_31 (D1), KandZ_30 (D1), Mopey_30 (D1), Nova_30 (D1), PBI1_30 (D1), PLOT_31 (D1), Penelope2018_30 (D1), Phalaborwa_30 (D1), Prager_30 (D1), SirHarley_29 (D1), SuperheroCarly_30 (D1), Thoth_30 (D1), Troll4_30 (D1), Visconti_30 (D1), WaldoWhy_31 (D1),

Start 160:

- Found in 1 of 470 (0.2%) of genes in pham
- No Manual Annotations of this start.
- Called 100.0% of time when present
- Phage (with cluster) where this start called: Weirido19_22 (AH),

Start 161:

- Found in 202 of 470 (43.0%) of genes in pham
- Manual Annotations of this start: 1 of 432
- Called 0.5% of time when present
- Phage (with cluster) where this start called: JacoRen57_20 (AB),

Start 162:

- Found in 2 of 470 (0.4%) of genes in pham
- Manual Annotations of this start: 2 of 432
- Called 100.0% of time when present
- Phage (with cluster) where this start called: Causa_36 (AI), StAugustine_34 (AI),

Summary by clusters:

There are 18 clusters represented in this pham: F1, F2, H1, E, F5, F6, F, I1, F4, J, singleton, AI, AH, AB, V, X, D2, D1,

Info for manual annotations of cluster AB:

- Start number 161 was manually annotated 1 time for cluster AB.

Info for manual annotations of cluster AI:

- Start number 162 was manually annotated 2 times for cluster AI.

Info for manual annotations of cluster D1:

- Start number 91 was manually annotated 22 times for cluster D1.

Info for manual annotations of cluster D2:

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

Info for manual annotations of cluster E:

- Start number 45 was manually annotated 134 times for cluster E.

Info for manual annotations of cluster F1:

- Start number 21 was manually annotated 224 times for cluster F1.

- Start number 35 was manually annotated 1 time for cluster F1.

Info for manual annotations of cluster F2:

- Start number 13 was manually annotated 7 times for cluster F2.

Info for manual annotations of cluster F4:

- Start number 23 was manually annotated 3 times for cluster F4.

Info for manual annotations of cluster F5:

- Start number 22 was manually annotated 1 time for cluster F5.

Info for manual annotations of cluster H1:

- Start number 4 was manually annotated 10 times for cluster H1.

Info for manual annotations of cluster J:

- Start number 21 was manually annotated 17 times for cluster J.

Info for manual annotations of cluster V:

- Start number 20 was manually annotated 5 times for cluster V.

Info for manual annotations of cluster X:

- Start number 17 was manually annotated 2 times for cluster X.

Gene Information:

Gene: 244_28 Start: 22564, Stop: 24960, Start Num: 45

Candidate Starts for 244_28:

(Start: 45 @22564 has 134 MA's), (92, 22741), (96, 22762), (139, 22909), (167, 23083), (171, 23116), (176, 23152), (196, 23245), (208, 23305), (213, 23323), (238, 23455), (245, 23500), (265, 23632), (272, 23677), (287, 23737), (307, 23851), (310, 23872), (318, 23911), (321, 23932), (325, 23947), (349, 24097), (351, 24103), (352, 24121), (362, 24175), (376, 24259), (390, 24352), (427, 24598), (450, 24814), (457, 24898), (464, 24931),

Gene: ABCat_25 Start: 22283, Stop: 24679, Start Num: 45

Candidate Starts for ABCat_25:

(Start: 45 @22283 has 134 MA's), (92, 22460), (96, 22481), (139, 22628), (163, 22769), (167, 22802), (171, 22835), (176, 22871), (196, 22964), (208, 23024), (213, 23042), (227, 23123), (265, 23351), (272, 23396), (310, 23591), (311, 23597), (314, 23606), (321, 23651), (325, 23666), (351, 23822), (352, 23840), (354, 23849), (363, 23903), (376, 23978), (377, 23981), (407, 24191), (409, 24203), (427, 24317), (450, 24533), (457, 24617), (462, 24641), (464, 24650),

Gene: Adjutor_31 Start: 24256, Stop: 26526, Start Num: 91

Candidate Starts for Adjutor_31:

(Start: 91 @24256 has 22 MA's), (118, 24391), (122, 24400), (152, 24574), (153, 24580), (154, 24592), (181, 24745), (185, 24760), (188, 24775), (260, 25156), (261, 25162), (268, 25207), (288, 25294), (324, 25495), (326, 25501), (332, 25549), (336, 25579), (340, 25603), (366, 25792), (373, 25819), (379, 25867), (389, 25939), (396, 25978), (397, 25999), (400, 26014), (403, 26032), (405, 26062), (417, 26146), (446, 26347), (450, 26389), (468, 26515),

Gene: Adnama_29 Start: 22791, Stop: 25187, Start Num: 45

Candidate Starts for Adnama_29:

(Start: 45 @22791 has 134 MA's), (92, 22968), (96, 22989), (139, 23136), (167, 23310), (171, 23343), (176, 23379), (196, 23472), (208, 23532), (213, 23550), (238, 23682), (245, 23727), (265, 23859), (272, 23904), (287, 23964), (307, 24078), (310, 24099), (318, 24138), (321, 24159), (325, 24174), (349, 24324), (351, 24330), (352, 24348), (362, 24402), (376, 24486), (390, 24579), (427, 24825), (450, 25041), (457, 25125), (464, 25158),

Gene: Alexphander_20 Start: 17923, Stop: 20460, Start Num: 21

Candidate Starts for Alexphander_20:

(Start: 21 @17923 has 242 MA's), (28, 17944), (Start: 35 @17965 has 1 MA's), (41, 18004), (64, 18073), (65, 18082), (66, 18085), (73, 18103), (80, 18136), (83, 18151), (120, 18310), (121, 18313), (131, 18343), (135, 18358), (145, 18436), (148, 18457), (149, 18460), (Start: 161 @18526 has 1 MA's), (171, 18601), (172, 18607), (181, 18649), (182, 18655), (183, 18658), (189, 18691), (191, 18697), (196, 18727), (202, 18748), (206, 18778), (208, 18787), (229, 18895), (232, 18907), (234, 18916), (235, 18919), (236, 18928), (237, 18934), (240, 18949), (241, 18952), (243, 18973), (252, 19015), (254, 19048), (279, 19189), (282, 19195), (290, 19249), (291, 19252), (296, 19279), (308, 19339), (310, 19354), (313, 19366), (314, 19369), (327, 19435), (330, 19459), (332, 19480), (334, 19489), (344, 19549), (345, 19552), (351, 19588), (352, 19606), (355, 19618), (356, 19627), (360, 19654), (374, 19723), (376, 19741), (378, 19750), (379, 19762), (382, 19798), (386, 19828), (402, 19909), (408, 19963), (416, 20023), (422, 20065), (430, 20143), (438, 20200), (442, 20224), (447, 20278), (450, 20326), (454, 20368), (456, 20392), (457, 20395),

Gene: Aloeri_19 Start: 17271, Stop: 19796, Start Num: 21

Candidate Starts for Aloeri_19:

(Start: 21 @17271 has 242 MA's), (28, 17292), (Start: 35 @17313 has 1 MA's), (41, 17352), (64, 17421), (65, 17430), (66, 17433), (73, 17451), (80, 17484), (83, 17499), (94, 17547), (120, 17658), (121, 17661), (135, 17706), (145, 17784), (149, 17808), (Start: 161 @17874 has 1 MA's), (163, 17883), (171, 17949), (172, 17955), (174, 17973), (181, 17997), (182, 18003), (183, 18006), (189, 18039), (191, 18045), (196, 18075), (202, 18096), (208, 18135), (212, 18150), (214, 18156), (241, 18300), (250, 18351), (264, 18462), (273, 18513), (278, 18537), (296, 18630), (305, 18675), (307, 18684), (310, 18705), (313, 18717), (314, 18720), (321, 18765), (330, 18810), (331, 18828), (332, 18831), (341, 18882), (349, 18933), (351, 18939), (352, 18957), (355, 18969), (356, 18978), (362, 19011), (376, 19092), (384, 19161), (390, 19188), (393, 19215), (403, 19266), (408, 19314), (441, 19557), (450, 19662), (452, 19683), (459, 19737), (463, 19761),

Gene: AlpineSix_18 Start: 17634, Stop: 20171, Start Num: 21

Candidate Starts for AlpineSix_18:

(Start: 21 @17634 has 242 MA's), (28, 17655), (Start: 35 @17676 has 1 MA's), (41, 17715), (64, 17784), (65, 17793), (66, 17796), (73, 17814), (83, 17862), (120, 18021), (121, 18024), (134, 18066), (135, 18069), (145, 18147), (148, 18168), (149, 18171), (Start: 161 @18237 has 1 MA's), (163, 18246), (168, 18282), (171, 18312), (172, 18318), (181, 18360), (182, 18366), (183, 18369), (189, 18402), (191, 18408), (196, 18438), (202, 18459), (206, 18489), (208, 18498), (229, 18606), (232, 18618), (234, 18627), (235, 18630), (236, 18639), (237, 18645), (240, 18660), (241, 18663), (243, 18684), (252, 18726), (254, 18759), (279, 18900), (282, 18906), (290, 18960), (291, 18963), (296, 18990), (310, 19065), (313, 19077), (314, 19080), (327, 19146), (329, 19167), (330, 19170), (332, 19191), (341, 19242), (344, 19260), (345, 19263), (349, 19293), (352, 19317), (355, 19329), (374, 19434), (376, 19452), (378, 19461), (379, 19473), (382, 19509), (386, 19539), (391, 19560), (396, 19584), (402, 19620), (416, 19734), (422, 19776), (430, 19854), (438, 19911), (442, 19935), (447, 19989), (450, 20037), (454, 20079), (456, 20103), (457, 20106),

Gene: Amao_26 Start: 21488, Stop: 23884, Start Num: 45

Candidate Starts for Amao_26:

(Start: 45 @21488 has 134 MA's), (92, 21665), (96, 21686), (139, 21833), (163, 21974), (167, 22007), (176, 22076), (196, 22169), (208, 22229), (213, 22247), (238, 22379), (245, 22424), (265, 22556), (272, 22601), (307, 22775), (310, 22796), (318, 22835), (321, 22856), (325, 22871), (351, 23027), (352, 23045), (362, 23099), (376, 23183), (424, 23507), (450, 23738), (457, 23822), (464, 23855),

Gene: AmericanBeauty_28 Start: 22271, Stop: 24667, Start Num: 45

Candidate Starts for AmericanBeauty_28:

(Start: 45 @22271 has 134 MA's), (92, 22448), (96, 22469), (139, 22616), (163, 22757), (167, 22790), (171, 22823), (176, 22859), (196, 22952), (208, 23012), (213, 23030), (238, 23162), (245, 23207), (265, 23339), (272, 23384), (287, 23444), (307, 23558), (310, 23579), (318, 23618), (321, 23639), (325, 23654), (349, 23804), (351, 23810), (352, 23828), (362, 23882), (376, 23966), (390, 24059), (427, 24305), (450, 24521), (457, 24605), (464, 24638),

Gene: ArcusAngelus_18 Start: 17438, Stop: 19975, Start Num: 21

Candidate Starts for ArcusAngelus_18:

(Start: 21 @17438 has 242 MA's), (28, 17459), (Start: 35 @17480 has 1 MA's), (41, 17519), (64, 17588), (65, 17597), (66, 17600), (73, 17618), (80, 17651), (83, 17666), (120, 17825), (121, 17828), (131, 17858), (135, 17873), (145, 17951), (148, 17972), (149, 17975), (Start: 161 @18041 has 1 MA's), (171, 18116), (172, 18122), (181, 18164), (182, 18170), (183, 18173), (189, 18206), (191, 18212), (196, 18242), (202, 18263), (206, 18293), (208, 18302), (229, 18410), (232, 18422), (234, 18431), (235, 18434), (236, 18443), (237, 18449), (240, 18464), (241, 18467), (243, 18488), (252, 18530), (254, 18563), (279, 18704), (282, 18710), (290, 18764), (291, 18767), (296, 18794), (308, 18854), (310, 18869), (313, 18881), (314, 18884), (327, 18950), (330, 18974), (332, 18995), (334, 19004), (344, 19064), (345, 19067), (351, 19103), (352, 19121), (355, 19133), (356, 19142), (360, 19169), (374, 19238), (376, 19256), (378, 19265), (379, 19277), (382, 19313), (386, 19343), (402, 19424), (408, 19478), (416, 19538), (422, 19580), (430, 19658), (438, 19715), (442, 19739), (447, 19793), (450, 19841), (454, 19883), (456, 19907), (457, 19910),

Gene: Ardmore_18 Start: 17447, Stop: 19984, Start Num: 21

Candidate Starts for Ardmore_18:

(18, 17435), (Start: 21 @17447 has 242 MA's), (28, 17468), (Start: 35 @17489 has 1 MA's), (41, 17528), (64, 17597), (65, 17606), (66, 17609), (73, 17627), (80, 17660), (83, 17675), (94, 17723), (120, 17834), (121, 17837), (131, 17867), (134, 17879), (135, 17882), (145, 17960), (149, 17984), (Start: 161 @18050 has 1 MA's), (168, 18095), (171, 18125), (172, 18131), (174, 18149), (181, 18173), (183, 18182), (189, 18215), (191, 18221), (196, 18251), (205, 18290), (206, 18302), (208, 18311), (212, 18326), (213, 18329), (234, 18440), (235, 18443), (236, 18452), (237, 18458), (240, 18473), (241, 18476), (243, 18497), (250, 18527), (252, 18539), (254, 18572), (272, 18683), (273, 18686), (279, 18713), (282, 18719), (290, 18773), (291, 18776), (310, 18878), (313, 18890), (314, 18893), (327, 18959), (330, 18983), (332, 19004), (334, 19013), (344, 19073), (345, 19076), (351, 19112), (352, 19130), (355, 19142), (356, 19151), (360, 19178), (374, 19247), (376, 19265), (378, 19274), (379, 19286), (382, 19322), (386, 19352), (391, 19373), (402, 19433), (408, 19487), (416, 19547), (422, 19589), (438, 19724), (442, 19748), (447, 19802), (450, 19850), (454, 19892), (456, 19916), (457, 19919),

Gene: Argent26_28 Start: 22274, Stop: 24670, Start Num: 45

Candidate Starts for Argent26_28:

(Start: 45 @22274 has 134 MA's), (92, 22451), (96, 22472), (139, 22619), (163, 22760), (167, 22793), (171, 22826), (176, 22862), (196, 22955), (208, 23015), (213, 23033), (238, 23165), (245, 23210), (265, 23342), (272, 23387), (287, 23447), (307, 23561), (310, 23582), (318, 23621), (321, 23642), (325, 23657), (349, 23807), (351, 23813), (352, 23831), (362, 23885), (376, 23969), (390, 24062), (427, 24308), (450, 24524), (457, 24608), (464, 24641),

Gene: Ariel_36 Start: 27338, Stop: 29845, Start Num: 21

Candidate Starts for Ariel_36:

(Start: 21 @27338 has 242 MA's), (73, 27533), (80, 27569), (83, 27584), (106, 27671), (112, 27686), (134, 27761), (137, 27773), (142, 27800), (157, 27905), (165, 27944), (168, 27953), (171, 27977), (172, 27983), (174, 28001), (178, 28019), (183, 28034), (186, 28043), (187, 28052), (189, 28067), (195, 28094), (196, 28103), (205, 28142), (206, 28154), (208, 28163), (225, 28247), (241, 28328), (245, 28358), (246, 28361), (252, 28391), (253, 28418), (255, 28427), (262, 28478), (263, 28487), (265, 28490), (271, 28526), (275, 28547), (285, 28583), (311, 28736), (321, 28790), (330, 28835), (331, 28853), (332, 28856), (339, 28895), (359, 29042), (362, 29051), (375, 29120), (376, 29135), (402, 29300), (411, 29387), (419, 29435), (427, 29486), (434, 29564), (458, 29786), (460, 29789), (464, 29816),

Gene: Asriel_25 Start: 21152, Stop: 23548, Start Num: 45

Candidate Starts for Asriel_25:

(Start: 45 @21152 has 134 MA's), (92, 21329), (96, 21350), (139, 21497), (163, 21638), (167, 21671), (171, 21704), (176, 21740), (196, 21833), (208, 21893), (213, 21911), (227, 21992), (265, 22220), (272, 22265), (310, 22460), (311, 22466), (314, 22475), (321, 22520), (325, 22535), (351, 22691), (352, 22709), (354, 22718), (363, 22772), (376, 22847), (377, 22850), (407, 23060), (409, 23072), (427, 23186), (450, 23402), (457, 23486), (462, 23510), (464, 23519),

Gene: Aubs_18 Start: 17557, Stop: 20094, Start Num: 21

Candidate Starts for Aubs_18:

(Start: 21 @17557 has 242 MA's), (28, 17578), (Start: 35 @17599 has 1 MA's), (40, 17635), (41, 17638), (64, 17707), (65, 17716), (66, 17719), (73, 17737), (80, 17770), (83, 17785), (94, 17833), (117, 17938), (120, 17944), (121, 17947), (134, 17989), (135, 17992), (149, 18094), (Start: 161 @18160 has 1 MA's), (168, 18205), (171, 18235), (172, 18241), (174, 18259), (181, 18283), (183, 18292), (189, 18325), (191, 18331), (202, 18382), (205, 18400), (206, 18412), (208, 18421), (212, 18436), (214, 18442), (234, 18550), (235, 18553), (236, 18562), (237, 18568), (240, 18583), (241, 18586), (243, 18607), (250, 18637), (252, 18649), (254, 18682), (265, 18748), (272, 18793), (273, 18796), (279, 18823), (282, 18829), (290, 18883), (291, 18886), (296, 18913), (310, 18988), (313, 19000), (314, 19003), (327, 19069), (330, 19093), (334, 19123), (341, 19165), (344, 19183), (345, 19186), (351, 19222), (352, 19240), (356, 19261), (360, 19288), (374, 19357), (376, 19375), (378, 19384), (379, 19396), (382, 19432), (391, 19483), (394, 19501), (402, 19543), (408, 19597), (422, 19699), (430, 19777), (438, 19834), (442, 19858), (447, 19912), (450, 19960), (456, 20026), (457, 20029),

Gene: Avani_24 Start: 17093, Stop: 19642, Start Num: 13

Candidate Starts for Avani_24:

(11, 17084), (Start: 13 @17093 has 7 MA's), (Start: 21 @17153 has 242 MA's), (30, 17186), (31, 17189), (50, 17258), (59, 17288), (106, 17468), (112, 17483), (121, 17519), (123, 17525), (124, 17528), (131, 17546), (134, 17558), (137, 17570), (141, 17594), (142, 17597), (165, 17741), (168, 17750), (171, 17774), (174, 17798), (181, 17822), (182, 17828), (187, 17849), (188, 17852), (191, 17870), (196, 17900), (203, 17930), (206, 17951), (225, 18044), (227, 18059), (229, 18068), (234, 18089), (235, 18092), (242, 18134), (250, 18176), (251, 18179), (252, 18188), (253, 18215), (255, 18224), (259, 18263), (263, 18284), (265, 18287), (271, 18323), (275, 18344), (290, 18422), (291, 18425), (304, 18479), (313, 18539), (328, 18626), (330, 18632), (332, 18653), (339, 18689), (348, 18743), (349, 18752), (359, 18830), (363, 18848), (369, 18884), (370, 18887), (374, 18905), (375, 18908), (376, 18923), (382, 18980), (384, 18992), (402, 19088), (411, 19175), (419, 19223), (421, 19247), (425, 19274), (427, 19283), (429, 19322), (434, 19361), (438, 19385), (441, 19406), (450, 19502), (452, 19523), (458, 19583), (460, 19586), (464, 19613),

Gene: Awesomesauce_19 Start: 17268, Stop: 19793, Start Num: 21

Candidate Starts for Awesomesauce_19:

(Start: 21 @17268 has 242 MA's), (28, 17289), (Start: 35 @17310 has 1 MA's), (41, 17349), (64, 17418), (65, 17427), (66, 17430), (73, 17448), (80, 17481), (83, 17496), (94, 17544), (120, 17655),

(121, 17658), (135, 17703), (145, 17781), (149, 17805), (Start: 161 @17871 has 1 MA's), (168, 17916), (171, 17946), (172, 17952), (174, 17970), (181, 17994), (183, 18003), (189, 18036), (191, 18042), (196, 18072), (205, 18111), (206, 18123), (208, 18132), (212, 18147), (213, 18150), (241, 18297), (250, 18348), (264, 18459), (273, 18510), (278, 18534), (296, 18627), (305, 18672), (307, 18681), (310, 18702), (313, 18714), (314, 18717), (321, 18762), (330, 18807), (331, 18825), (332, 18828), (341, 18879), (349, 18930), (351, 18936), (352, 18954), (355, 18966), (356, 18975), (362, 19008), (376, 19089), (384, 19158), (390, 19185), (393, 19212), (403, 19263), (408, 19311), (441, 19554), (450, 19659), (452, 19680), (459, 19734), (463, 19758),

Gene: Azrael100_42 Start: 28340, Stop: 30907, Start Num: 20

Candidate Starts for Azrael100_42:

(Start: 20 @28340 has 6 MA's), (36, 28409), (69, 28532), (72, 28538), (73, 28541), (78, 28565), (82, 28586), (116, 28742), (119, 28748), (121, 28754), (130, 28784), (131, 28790), (135, 28811), (136, 28820), (144, 28880), (156, 28958), (172, 29057), (177, 29090), (182, 29105), (183, 29108), (191, 29147), (202, 29198), (205, 29216), (208, 29237), (209, 29243), (216, 29270), (219, 29297), (234, 29366), (239, 29390), (242, 29411), (245, 29432), (247, 29441), (252, 29462), (254, 29495), (255, 29498), (262, 29549), (277, 29627), (283, 29645), (289, 29684), (310, 29801), (319, 29846), (329, 29903), (332, 29927), (334, 29936), (337, 29954), (344, 29999), (349, 30032), (353, 30068), (381, 30242), (382, 30260), (383, 30266), (393, 30323), (437, 30647), (440, 30665), (445, 30716), (451, 30779), (456, 30854),

Gene: BAKA_36 Start: 29892, Stop: 32447, Start Num: 21

Candidate Starts for BAKA_36:

(Start: 21 @29892 has 242 MA's), (73, 30087), (80, 30123), (83, 30138), (94, 30186), (120, 30297), (121, 30300), (131, 30330), (135, 30345), (145, 30423), (149, 30447), (Start: 161 @30513 has 1 MA's), (168, 30558), (171, 30588), (172, 30594), (174, 30612), (181, 30636), (183, 30645), (189, 30678), (191, 30684), (196, 30714), (205, 30753), (206, 30765), (208, 30774), (212, 30789), (213, 30792), (234, 30903), (235, 30906), (236, 30915), (237, 30921), (240, 30936), (241, 30939), (243, 30960), (250, 30990), (252, 31002), (254, 31035), (265, 31101), (272, 31146), (273, 31149), (279, 31176), (282, 31182), (290, 31236), (291, 31239), (308, 31326), (310, 31341), (313, 31353), (314, 31356), (327, 31422), (332, 31467), (334, 31476), (344, 31536), (345, 31539), (351, 31575), (352, 31593), (355, 31605), (356, 31614), (360, 31641), (374, 31710), (376, 31728), (378, 31737), (379, 31749), (382, 31785), (386, 31815), (391, 31836), (396, 31860), (402, 31896), (408, 31950), (416, 32010), (422, 32052), (438, 32187), (442, 32211), (447, 32265), (450, 32313), (454, 32355), (456, 32379), (457, 32382),

Gene: BaboJay_25 Start: 21834, Stop: 24230, Start Num: 45

Candidate Starts for BaboJay_25:

(Start: 45 @21834 has 134 MA's), (92, 22011), (96, 22032), (139, 22179), (163, 22320), (167, 22353), (171, 22386), (176, 22422), (196, 22515), (208, 22575), (213, 22593), (238, 22725), (245, 22770), (265, 22902), (272, 22947), (307, 23121), (310, 23142), (318, 23181), (321, 23202), (325, 23217), (349, 23367), (351, 23373), (352, 23391), (362, 23445), (376, 23529), (390, 23622), (427, 23868), (450, 24084), (457, 24168), (464, 24201),

Gene: BadStone_25 Start: 22283, Stop: 24679, Start Num: 45

Candidate Starts for BadStone_25:

(Start: 45 @22283 has 134 MA's), (92, 22460), (96, 22481), (139, 22628), (163, 22769), (167, 22802), (171, 22835), (176, 22871), (196, 22964), (208, 23024), (227, 23123), (265, 23351), (272, 23396), (310, 23591), (311, 23597), (314, 23606), (321, 23651), (325, 23666), (351, 23822), (352, 23840), (354, 23849), (363, 23903), (376, 23978), (377, 23981), (407, 24191), (409, 24203), (427, 24317), (450, 24533), (457, 24617), (462, 24641), (464, 24650),

Gene: Balomoji_25 Start: 22017, Stop: 24413, Start Num: 45

Candidate Starts for Balomoji_25:

(Start: 45 @22017 has 134 MA's), (92, 22194), (96, 22215), (139, 22362), (163, 22503), (167, 22536), (171, 22569), (176, 22605), (196, 22698), (208, 22758), (213, 22776), (227, 22857), (265, 23085), (272, 23130), (310, 23325), (311, 23331), (314, 23340), (321, 23385), (325, 23400), (351, 23556), (352, 23574), (354, 23583), (363, 23637), (376, 23712), (377, 23715), (407, 23925), (409, 23937), (427, 24051), (450, 24267), (457, 24351), (462, 24375), (464, 24384),

Gene: Barbarian_25 Start: 21152, Stop: 23548, Start Num: 45

Candidate Starts for Barbarian_25:

(Start: 45 @21152 has 134 MA's), (92, 21329), (96, 21350), (139, 21497), (163, 21638), (167, 21671), (171, 21704), (176, 21740), (196, 21833), (208, 21893), (213, 21911), (227, 21992), (265, 22220), (272, 22265), (310, 22460), (311, 22466), (314, 22475), (321, 22520), (325, 22535), (351, 22691), (352, 22709), (354, 22718), (363, 22772), (376, 22847), (377, 22850), (407, 23060), (409, 23072), (427, 23186), (450, 23402), (457, 23486), (462, 23510), (464, 23519),

Gene: Bask21_26 Start: 21463, Stop: 23859, Start Num: 45

Candidate Starts for Bask21_26:

(Start: 45 @21463 has 134 MA's), (92, 21640), (96, 21661), (139, 21808), (163, 21949), (167, 21982), (171, 22015), (176, 22051), (196, 22144), (208, 22204), (213, 22222), (227, 22303), (265, 22531), (272, 22576), (310, 22771), (311, 22777), (314, 22786), (321, 22831), (325, 22846), (351, 23002), (352, 23020), (354, 23029), (376, 23158), (377, 23161), (407, 23371), (409, 23383), (427, 23497), (450, 23713), (457, 23797), (462, 23821), (464, 23830),

Gene: Batiatus_18 Start: 17448, Stop: 19985, Start Num: 21

Candidate Starts for Batiatus_18:

(18, 17436), (Start: 21 @17448 has 242 MA's), (28, 17469), (Start: 35 @17490 has 1 MA's), (41, 17529), (64, 17598), (65, 17607), (66, 17610), (73, 17628), (80, 17661), (83, 17676), (94, 17724), (120, 17835), (121, 17838), (131, 17868), (134, 17880), (135, 17883), (145, 17961), (149, 17985), (Start: 161 @18051 has 1 MA's), (168, 18096), (171, 18126), (172, 18132), (174, 18150), (181, 18174), (183, 18183), (189, 18216), (191, 18222), (196, 18252), (205, 18291), (206, 18303), (208, 18312), (212, 18327), (213, 18330), (234, 18441), (235, 18444), (236, 18453), (237, 18459), (240, 18474), (241, 18477), (243, 18498), (250, 18528), (252, 18540), (254, 18573), (272, 18684), (273, 18687), (279, 18714), (282, 18720), (290, 18774), (291, 18777), (308, 18864), (310, 18879), (313, 18891), (314, 18894), (327, 18960), (330, 18984), (332, 19005), (334, 19014), (344, 19074), (345, 19077), (351, 19113), (352, 19131), (355, 19143), (356, 19152), (360, 19179), (374, 19248), (376, 19266), (378, 19275), (379, 19287), (382, 19323), (386, 19353), (391, 19374), (396, 19398), (402, 19434), (408, 19488), (416, 19548), (422, 19590), (430, 19668), (438, 19725), (442, 19749), (447, 19803), (450, 19851), (454, 19893), (456, 19917), (457, 19920),

Gene: Beakin_19 Start: 17255, Stop: 19786, Start Num: 21

Candidate Starts for Beakin_19:

(18, 17243), (Start: 21 @17255 has 242 MA's), (28, 17276), (Start: 35 @17297 has 1 MA's), (41, 17336), (64, 17405), (65, 17414), (66, 17417), (73, 17435), (80, 17468), (83, 17483), (94, 17525), (120, 17636), (121, 17639), (131, 17669), (135, 17684), (145, 17762), (149, 17786), (Start: 161 @17852 has 1 MA's), (168, 17897), (171, 17927), (172, 17933), (174, 17951), (181, 17975), (183, 17984), (189, 18017), (191, 18023), (196, 18053), (205, 18092), (206, 18104), (208, 18113), (212, 18128), (213, 18131), (234, 18242), (235, 18245), (236, 18254), (237, 18260), (240, 18275), (241, 18278), (243, 18299), (250, 18329), (252, 18341), (254, 18374), (265, 18440), (272, 18485), (273, 18488), (279, 18515), (282, 18521), (290, 18575), (291, 18578), (308, 18665), (310, 18680), (313, 18692), (314, 18695), (327, 18761), (330, 18785), (332, 18806), (334, 18815), (344, 18875), (345, 18878), (351, 18914), (352, 18932), (356, 18953), (360, 18980), (374, 19049), (376, 19067), (378, 19076), (379, 19088), (382, 19124), (391, 19175), (394, 19193), (402, 19235), (408, 19289), (422, 19391), (430, 19469), (438, 19526), (442, 19550), (447, 19604), (450, 19652), (456, 19718), (457, 19721),

Gene: Beanstalk_19 Start: 17400, Stop: 19937, Start Num: 21

Candidate Starts for Beanstalk_19:

(Start: 21 @17400 has 242 MA's), (28, 17421), (Start: 35 @17442 has 1 MA's), (41, 17481), (64, 17550), (65, 17559), (66, 17562), (73, 17580), (80, 17613), (83, 17628), (117, 17781), (121, 17790), (135, 17835), (148, 17934), (149, 17937), (Start: 161 @18003 has 1 MA's), (171, 18078), (172, 18084), (174, 18102), (181, 18126), (183, 18135), (189, 18168), (191, 18174), (196, 18204), (205, 18243), (206, 18255), (208, 18264), (212, 18279), (213, 18282), (234, 18393), (235, 18396), (236, 18405), (237, 18411), (240, 18426), (241, 18429), (243, 18450), (250, 18480), (252, 18492), (254, 18525), (272, 18636), (273, 18639), (279, 18666), (282, 18672), (290, 18726), (291, 18729), (308, 18816), (310, 18831), (313, 18843), (314, 18846), (327, 18912), (330, 18936), (332, 18957), (334, 18966), (344, 19026), (345, 19029), (352, 19083), (355, 19095), (356, 19104), (360, 19131), (372, 19188), (374, 19200), (376, 19218), (378, 19227), (379, 19239), (382, 19275), (386, 19305), (391, 19326), (396, 19350), (402, 19386), (408, 19440), (416, 19500), (422, 19542), (438, 19677), (442, 19701), (447, 19755), (450, 19803), (454, 19845), (456, 19869), (457, 19872),

Gene: Beckerton_29 Start: 26219, Stop: 29062, Start Num: 4

Candidate Starts for Beckerton_29:

(Start: 4 @26219 has 10 MA's), (9, 26351), (10, 26363), (12, 26372), (Start: 22 @26441 has 1 MA's), (24, 26447), (37, 26507), (40, 26528), (51, 26576), (63, 26618), (68, 26642), (77, 26675), (85, 26711), (89, 26723), (107, 26816), (121, 26873), (133, 26912), (151, 27038), (163, 27107), (166, 27137), (172, 27179), (183, 27230), (202, 27320), (205, 27338), (219, 27419), (227, 27458), (232, 27479), (254, 27617), (258, 27656), (271, 27719), (291, 27821), (331, 28046), (387, 28409), (392, 28436), (431, 28679), (436, 28712), (439, 28736), (450, 28856), (458, 28934), (470, 29021), (471, 29036), (472, 29042),

Gene: Becksu_26 Start: 22467, Stop: 24863, Start Num: 45

Candidate Starts for Becksu_26:

(Start: 45 @22467 has 134 MA's), (92, 22644), (96, 22665), (139, 22812), (163, 22953), (167, 22986), (171, 23019), (176, 23055), (196, 23148), (208, 23208), (213, 23226), (238, 23358), (245, 23403), (265, 23535), (272, 23580), (287, 23640), (307, 23754), (310, 23775), (318, 23814), (321, 23835), (325, 23850), (349, 24000), (351, 24006), (352, 24024), (362, 24078), (376, 24162), (390, 24255), (427, 24501), (450, 24717), (457, 24801), (464, 24834),

Gene: Bench_28 Start: 22144, Stop: 24540, Start Num: 45

Candidate Starts for Bench_28:

(Start: 45 @22144 has 134 MA's), (92, 22321), (96, 22342), (139, 22489), (167, 22663), (171, 22696), (176, 22732), (196, 22825), (208, 22885), (213, 22903), (238, 23035), (245, 23080), (265, 23212), (272, 23257), (287, 23317), (307, 23431), (310, 23452), (318, 23491), (321, 23512), (325, 23527), (349, 23677), (351, 23683), (352, 23701), (362, 23755), (376, 23839), (390, 23932), (427, 24178), (450, 24394), (457, 24478), (464, 24511),

Gene: BigBubba_27 Start: 22047, Stop: 24443, Start Num: 45

Candidate Starts for BigBubba_27:

(Start: 45 @22047 has 134 MA's), (92, 22224), (96, 22245), (139, 22392), (163, 22533), (167, 22566), (171, 22599), (176, 22635), (196, 22728), (208, 22788), (213, 22806), (238, 22938), (245, 22983), (265, 23115), (272, 23160), (307, 23334), (310, 23355), (318, 23394), (321, 23415), (325, 23430), (351, 23586), (352, 23604), (362, 23658), (376, 23742), (390, 23835), (427, 24081), (450, 24297), (457, 24381), (464, 24414),

Gene: BigMama_28 Start: 24332, Stop: 26602, Start Num: 91

Candidate Starts for BigMama_28:

(Start: 91 @24332 has 22 MA's), (118, 24467), (122, 24476), (152, 24650), (153, 24656), (154, 24668), (181, 24821), (185, 24836), (188, 24851), (260, 25232), (261, 25238), (268, 25283), (288, 25370), (324, 25571), (326, 25577), (332, 25625), (336, 25655), (340, 25679), (366, 25868), (373, 25895), (379, 25943), (389, 26015), (396, 26054), (397, 26075), (400, 26090), (403, 26108), (405, 26138), (417, 26222), (446, 26423), (450, 26465), (468, 26591),

Gene: BilboSwaggins_26 Start: 22284, Stop: 24680, Start Num: 45

Candidate Starts for BilboSwaggins_26:

(Start: 45 @22284 has 134 MA's), (92, 22461), (96, 22482), (139, 22629), (163, 22770), (167, 22803), (171, 22836), (176, 22872), (196, 22965), (208, 23025), (213, 23043), (227, 23124), (265, 23352), (272, 23397), (310, 23592), (311, 23598), (314, 23607), (321, 23652), (325, 23667), (351, 23823), (352, 23841), (354, 23850), (376, 23979), (377, 23982), (407, 24192), (409, 24204), (427, 24318), (450, 24534), (457, 24618), (462, 24642), (464, 24651),

Gene: Bipolar_18 Start: 17398, Stop: 19890, Start Num: 21

Candidate Starts for Bipolar_18:

(19, 17386), (Start: 21 @17398 has 242 MA's), (28, 17419), (Start: 35 @17440 has 1 MA's), (43, 17479), (64, 17548), (65, 17557), (66, 17560), (73, 17578), (80, 17611), (90, 17644), (94, 17677), (112, 17731), (121, 17767), (124, 17776), (131, 17794), (137, 17818), (141, 17842), (157, 17950), (163, 17974), (165, 17989), (168, 17998), (171, 18022), (172, 18028), (174, 18046), (176, 18058), (178, 18064), (181, 18070), (182, 18076), (183, 18079), (186, 18088), (187, 18097), (189, 18112), (196, 18148), (205, 18187), (206, 18199), (208, 18208), (225, 18292), (241, 18373), (245, 18403), (246, 18406), (252, 18436), (253, 18463), (255, 18472), (262, 18523), (263, 18532), (265, 18535), (271, 18571), (275, 18592), (285, 18628), (311, 18781), (321, 18835), (330, 18880), (331, 18898), (332, 18901), (339, 18940), (359, 19087), (362, 19096), (375, 19165), (376, 19180), (402, 19345), (411, 19432), (419, 19480), (427, 19531), (434, 19609), (458, 19831), (460, 19834), (464, 19861),

Gene: Blarby_25 Start: 17613, Stop: 20210, Start Num: 16

Candidate Starts for Blarby_25:

(12, 17604), (16, 17613), (Start: 22 @17673 has 1 MA's), (30, 17706), (33, 17709), (58, 17808), (94, 17949), (120, 18060), (121, 18063), (131, 18093), (134, 18105), (135, 18108), (149, 18210), (Start: 161 @18276 has 1 MA's), (168, 18321), (171, 18351), (172, 18357), (174, 18375), (181, 18399), (183, 18408), (189, 18441), (191, 18447), (196, 18477), (205, 18516), (206, 18528), (208, 18537), (212, 18552), (213, 18555), (234, 18666), (235, 18669), (236, 18678), (237, 18684), (240, 18699), (241, 18702), (243, 18723), (250, 18753), (252, 18765), (254, 18798), (272, 18909), (273, 18912), (279, 18939), (282, 18945), (290, 18999), (291, 19002), (308, 19089), (310, 19104), (313, 19116), (314, 19119), (327, 19185), (332, 19230), (334, 19239), (344, 19299), (345, 19302), (351, 19338), (352, 19356), (356, 19377), (360, 19404), (374, 19473), (376, 19491), (378, 19500), (379, 19512), (382, 19548), (386, 19578), (391, 19599), (394, 19617), (402, 19659), (408, 19713), (422, 19815), (438, 19950), (442, 19974), (447, 20028), (450, 20076), (454, 20118), (456, 20142), (457, 20145),

Gene: Blexus_18 Start: 17586, Stop: 20123, Start Num: 21

Candidate Starts for Blexus_18:

(Start: 21 @17586 has 242 MA's), (28, 17607), (Start: 35 @17628 has 1 MA's), (41, 17667), (64, 17736), (65, 17745), (66, 17748), (73, 17766), (83, 17814), (94, 17862), (120, 17973), (121, 17976), (135, 18021), (145, 18099), (149, 18123), (Start: 161 @18189 has 1 MA's), (171, 18264), (172, 18270), (174, 18288), (181, 18312), (183, 18321), (189, 18354), (191, 18360), (196, 18390), (202, 18411), (206, 18441), (208, 18450), (229, 18558), (232, 18570), (234, 18579), (235, 18582), (237, 18597), (240, 18612), (241, 18615), (243, 18636), (252, 18678), (254, 18711), (272, 18822), (273, 18825), (279, 18852), (282, 18858), (290, 18912), (291, 18915), (296, 18942), (310, 19017), (313, 19029), (314, 19032), (327, 19098), (329, 19119), (330, 19122), (332, 19143), (334, 19152), (341, 19194), (344, 19212), (345, 19215), (349, 19245), (352, 19269), (355, 19281), (356, 19290), (374, 19386), (376, 19404), (378, 19413), (379, 19425), (382, 19461), (386, 19491), (390, 19500), (391, 19512),

(402, 19572), (408, 19626), (416, 19686), (422, 19728), (438, 19863), (442, 19887), (447, 19941), (450, 19989), (454, 20031), (456, 20055), (457, 20058),

Gene: BlueCrab_18 Start: 17568, Stop: 20105, Start Num: 21

Candidate Starts for BlueCrab_18:

(18, 17556), (Start: 21 @17568 has 242 MA's), (28, 17589), (Start: 35 @17610 has 1 MA's), (41, 17649), (64, 17718), (65, 17727), (66, 17730), (73, 17748), (83, 17796), (94, 17844), (120, 17955), (121, 17958), (135, 18003), (145, 18081), (149, 18105), (Start: 161 @18171 has 1 MA's), (168, 18216), (171, 18246), (172, 18252), (174, 18270), (181, 18294), (183, 18303), (189, 18336), (191, 18342), (196, 18372), (205, 18411), (206, 18423), (208, 18432), (212, 18447), (213, 18450), (234, 18561), (235, 18564), (236, 18573), (237, 18579), (240, 18594), (241, 18597), (243, 18618), (250, 18648), (252, 18660), (254, 18693), (272, 18804), (273, 18807), (279, 18834), (282, 18840), (290, 18894), (291, 18897), (310, 18999), (313, 19011), (314, 19014), (327, 19080), (330, 19104), (332, 19125), (334, 19134), (344, 19194), (345, 19197), (351, 19233), (352, 19251), (356, 19272), (360, 19299), (374, 19368), (376, 19386), (378, 19395), (379, 19407), (382, 19443), (391, 19494), (394, 19512), (402, 19554), (408, 19608), (422, 19710), (438, 19845), (442, 19869), (447, 19923), (452, 19992), (456, 20037), (457, 20040),

Gene: BobaPhett_18 Start: 17397, Stop: 19922, Start Num: 21

Candidate Starts for BobaPhett_18:

(Start: 21 @17397 has 242 MA's), (28, 17418), (32, 17439), (42, 17478), (64, 17547), (65, 17556), (66, 17559), (73, 17577), (83, 17625), (94, 17673), (120, 17784), (121, 17787), (132, 17820), (135, 17832), (145, 17910), (155, 17976), (163, 18009), (169, 18063), (171, 18075), (182, 18129), (183, 18132), (186, 18141), (192, 18174), (200, 18213), (202, 18216), (204, 18231), (205, 18234), (209, 18261), (210, 18267), (212, 18270), (213, 18273), (217, 18300), (220, 18318), (221, 18321), (236, 18396), (240, 18417), (241, 18420), (244, 18447), (250, 18471), (254, 18516), (255, 18519), (262, 18570), (273, 18633), (275, 18642), (280, 18666), (302, 18771), (303, 18774), (310, 18825), (311, 18831), (313, 18837), (314, 18840), (321, 18885), (325, 18900), (329, 18927), (332, 18951), (341, 19002), (344, 19020), (345, 19023), (346, 19035), (355, 19089), (376, 19212), (383, 19275), (394, 19338), (404, 19413), (432, 19614), (453, 19824), (459, 19863), (460, 19866),

Gene: Bobi_20 Start: 17987, Stop: 20524, Start Num: 21

Candidate Starts for Bobi_20:

(18, 17975), (Start: 21 @17987 has 242 MA's), (28, 18008), (Start: 35 @18029 has 1 MA's), (41, 18068), (64, 18137), (65, 18146), (66, 18149), (73, 18167), (80, 18200), (83, 18215), (94, 18263), (120, 18374), (121, 18377), (131, 18407), (134, 18419), (135, 18422), (145, 18500), (149, 18524), (Start: 161 @18590 has 1 MA's), (168, 18635), (171, 18665), (172, 18671), (174, 18689), (181, 18713), (183, 18722), (189, 18755), (191, 18761), (196, 18791), (205, 18830), (206, 18842), (208, 18851), (212, 18866), (213, 18869), (234, 18980), (235, 18983), (236, 18992), (237, 18998), (240, 19013), (241, 19016), (250, 19067), (252, 19079), (254, 19112), (265, 19178), (272, 19223), (273, 19226), (279, 19253), (282, 19259), (290, 19313), (291, 19316), (308, 19403), (310, 19418), (313, 19430), (314, 19433), (327, 19499), (332, 19544), (334, 19553), (344, 19613), (345, 19616), (351, 19652), (352, 19670), (355, 19682), (356, 19691), (360, 19718), (374, 19787), (376, 19805), (378, 19814), (379, 19826), (382, 19862), (386, 19892), (391, 19913), (396, 19937), (402, 19973), (408, 20027), (416, 20087), (422, 20129), (438, 20264), (442, 20288), (447, 20342), (450, 20390), (454, 20432), (456, 20456), (457, 20459),

Gene: BobtimousPrime_31 Start: 26139, Stop: 28982, Start Num: 4

Candidate Starts for BobtimousPrime_31:

(Start: 4 @26139 has 10 MA's), (9, 26271), (10, 26283), (12, 26292), (Start: 22 @26361 has 1 MA's), (37, 26427), (40, 26448), (51, 26496), (63, 26538), (68, 26562), (77, 26595), (85, 26631), (89, 26643), (107, 26736), (121, 26793), (133, 26832), (163, 27027), (166, 27057), (172, 27099), (202, 27240), (205, 27258), (219, 27339), (227, 27378), (232, 27399), (254, 27537), (258, 27576), (291, 27741),

(305, 27813), (313, 27855), (316, 27867), (331, 27966), (387, 28329), (431, 28599), (436, 28632),
(439, 28656), (450, 28776), (458, 28854), (470, 28941), (471, 28956), (472, 28962),

Gene: BodEinwohner17_18 Start: 17569, Stop: 20106, Start Num: 21

Candidate Starts for BodEinwohner17_18:

(Start: 21 @17569 has 242 MA's), (28, 17590), (Start: 35 @17611 has 1 MA's), (41, 17650), (64, 17719), (65, 17728), (66, 17731), (73, 17749), (83, 17797), (117, 17950), (121, 17959), (135, 18004), (148, 18103), (149, 18106), (Start: 161 @18172 has 1 MA's), (171, 18247), (172, 18253), (174, 18271), (181, 18295), (183, 18304), (189, 18337), (191, 18343), (196, 18373), (202, 18394), (206, 18424), (208, 18433), (212, 18448), (213, 18451), (229, 18541), (232, 18553), (234, 18562), (235, 18565), (237, 18580), (240, 18595), (241, 18598), (243, 18619), (252, 18661), (254, 18694), (272, 18805), (273, 18808), (279, 18835), (282, 18841), (290, 18895), (291, 18898), (296, 18925), (310, 19000), (313, 19012), (314, 19015), (327, 19081), (329, 19102), (330, 19105), (332, 19126), (334, 19135), (341, 19177), (344, 19195), (345, 19198), (349, 19228), (352, 19252), (355, 19264), (356, 19273), (374, 19369), (376, 19387), (378, 19396), (379, 19408), (382, 19444), (386, 19474), (390, 19483), (391, 19495), (402, 19555), (408, 19609), (416, 19669), (422, 19711), (438, 19846), (442, 19870), (447, 19924), (450, 19972), (454, 20014), (456, 20038), (457, 20041),

Gene: Bogg_26 Start: 21184, Stop: 23580, Start Num: 45

Candidate Starts for Bogg_26:

(Start: 45 @21184 has 134 MA's), (92, 21361), (96, 21382), (139, 21529), (163, 21670), (167, 21703), (171, 21736), (176, 21772), (196, 21865), (208, 21925), (213, 21943), (238, 22075), (245, 22120), (265, 22252), (272, 22297), (287, 22357), (307, 22471), (310, 22492), (318, 22531), (321, 22552), (325, 22567), (349, 22717), (351, 22723), (352, 22741), (362, 22795), (376, 22879), (390, 22972), (427, 23218), (450, 23434), (457, 23518), (464, 23551),

Gene: Boomer_19 Start: 17212, Stop: 19749, Start Num: 21

Candidate Starts for Boomer_19:

(Start: 21 @17212 has 242 MA's), (28, 17233), (Start: 35 @17254 has 1 MA's), (41, 17293), (64, 17362), (65, 17371), (66, 17374), (73, 17392), (80, 17425), (83, 17440), (94, 17488), (120, 17599), (121, 17602), (131, 17632), (135, 17647), (145, 17725), (149, 17749), (Start: 161 @17815 has 1 MA's), (168, 17860), (171, 17890), (172, 17896), (174, 17914), (181, 17938), (183, 17947), (189, 17980), (191, 17986), (196, 18016), (202, 18037), (205, 18055), (206, 18067), (208, 18076), (212, 18091), (213, 18094), (226, 18172), (234, 18205), (235, 18208), (236, 18217), (237, 18223), (240, 18238), (241, 18241), (243, 18262), (250, 18292), (252, 18304), (254, 18337), (272, 18448), (273, 18451), (279, 18478), (282, 18484), (290, 18538), (291, 18541), (308, 18628), (310, 18643), (313, 18655), (314, 18658), (327, 18724), (330, 18748), (332, 18769), (334, 18778), (344, 18838), (345, 18841), (349, 18871), (352, 18895), (355, 18907), (356, 18916), (360, 18943), (374, 19012), (376, 19030), (378, 19039), (379, 19051), (382, 19087), (386, 19117), (391, 19138), (396, 19162), (402, 19198), (408, 19252), (416, 19312), (422, 19354), (430, 19432), (438, 19489), (442, 19513), (447, 19567), (450, 19615), (456, 19681), (457, 19684),

Gene: Brewer_26 Start: 22532, Stop: 24928, Start Num: 45

Candidate Starts for Brewer_26:

(Start: 45 @22532 has 134 MA's), (92, 22709), (96, 22730), (139, 22877), (163, 23018), (167, 23051), (171, 23084), (176, 23120), (196, 23213), (208, 23273), (213, 23291), (238, 23423), (245, 23468), (265, 23600), (272, 23645), (307, 23819), (310, 23840), (318, 23879), (321, 23900), (325, 23915), (351, 24071), (352, 24089), (362, 24143), (376, 24227), (390, 24320), (427, 24566), (450, 24782), (457, 24866), (464, 24899),

Gene: BronnyJames_30 Start: 25923, Stop: 28418, Start Num: 21

Candidate Starts for BronnyJames_30:

(Start: 21 @25923 has 242 MA's), (73, 26118), (80, 26154), (83, 26169), (106, 26256), (112, 26271), (121, 26307), (123, 26313), (134, 26346), (137, 26358), (165, 26529), (168, 26538), (171, 26562), (182, 26616), (189, 26652), (191, 26658), (196, 26688), (203, 26718), (206, 26739), (208, 26748), (212, 26763), (225, 26832), (241, 26913), (242, 26922), (245, 26943), (246, 26946), (252, 26976), (255, 27012), (262, 27063), (263, 27072), (265, 27075), (269, 27102), (271, 27111), (275, 27132), (290, 27210), (291, 27213), (305, 27285), (311, 27321), (313, 27327), (320, 27369), (321, 27375), (329, 27417), (330, 27420), (332, 27441), (333, 27447), (334, 27450), (339, 27480), (359, 27621), (362, 27630), (363, 27639), (368, 27672), (374, 27696), (375, 27699), (376, 27714), (379, 27735), (382, 27771), (383, 27777), (384, 27783), (388, 27804), (392, 27831), (411, 27966), (421, 28038), (423, 28044), (427, 28062), (438, 28161), (450, 28278), (458, 28359), (460, 28362), (464, 28389),

Gene: Brookers_19 Start: 17254, Stop: 19731, Start Num: 21

Candidate Starts for Brookers_19:

(19, 17242), (Start: 21 @17254 has 242 MA's), (28, 17275), (Start: 35 @17296 has 1 MA's), (43, 17335), (64, 17404), (65, 17413), (66, 17416), (73, 17434), (80, 17467), (83, 17482), (106, 17569), (112, 17584), (121, 17620), (123, 17626), (134, 17659), (137, 17671), (165, 17842), (168, 17851), (171, 17875), (182, 17929), (189, 17965), (191, 17971), (196, 18001), (203, 18031), (206, 18052), (208, 18061), (225, 18145), (237, 18208), (241, 18226), (242, 18235), (245, 18256), (246, 18259), (250, 18277), (252, 18289), (253, 18316), (255, 18325), (262, 18376), (263, 18385), (265, 18388), (269, 18415), (271, 18424), (275, 18445), (290, 18523), (291, 18526), (311, 18634), (313, 18640), (321, 18688), (329, 18730), (330, 18733), (332, 18754), (333, 18760), (334, 18763), (339, 18793), (359, 18934), (363, 18952), (368, 18985), (374, 19009), (375, 19012), (376, 19027), (379, 19048), (382, 19084), (383, 19090), (388, 19117), (392, 19144), (411, 19279), (419, 19327), (421, 19351), (423, 19357), (427, 19375), (438, 19474), (441, 19495), (443, 19513), (450, 19591), (452, 19612), (460, 19675), (462, 19693), (467, 19711),

Gene: Bruin_26 Start: 22307, Stop: 24703, Start Num: 45

Candidate Starts for Bruin_26:

(Start: 45 @22307 has 134 MA's), (92, 22484), (96, 22505), (139, 22652), (163, 22793), (167, 22826), (171, 22859), (176, 22895), (196, 22988), (208, 23048), (213, 23066), (238, 23198), (245, 23243), (265, 23375), (272, 23420), (307, 23594), (310, 23615), (318, 23654), (321, 23675), (325, 23690), (351, 23846), (352, 23864), (362, 23918), (376, 24002), (390, 24095), (427, 24341), (450, 24557), (457, 24641), (464, 24674),

Gene: Brushbloom_19 Start: 17281, Stop: 19818, Start Num: 21

Candidate Starts for Brushbloom_19:

(Start: 21 @17281 has 242 MA's), (28, 17302), (Start: 35 @17323 has 1 MA's), (40, 17359), (41, 17362), (64, 17431), (65, 17440), (66, 17443), (73, 17461), (80, 17494), (83, 17509), (94, 17557), (117, 17662), (120, 17668), (121, 17671), (134, 17713), (135, 17716), (149, 17818), (Start: 161 @17884 has 1 MA's), (168, 17929), (171, 17959), (172, 17965), (174, 17983), (181, 18007), (183, 18016), (189, 18049), (191, 18055), (202, 18106), (205, 18124), (206, 18136), (208, 18145), (212, 18160), (214, 18166), (234, 18274), (236, 18286), (237, 18292), (240, 18307), (241, 18310), (243, 18331), (250, 18361), (252, 18373), (254, 18406), (265, 18472), (272, 18517), (273, 18520), (279, 18547), (282, 18553), (290, 18607), (291, 18610), (296, 18637), (310, 18712), (313, 18724), (314, 18727), (327, 18793), (330, 18817), (334, 18847), (341, 18889), (344, 18907), (345, 18910), (351, 18946), (352, 18964), (356, 18985), (360, 19012), (374, 19081), (376, 19099), (378, 19108), (379, 19120), (382, 19156), (391, 19207), (394, 19225), (402, 19267), (408, 19321), (422, 19423), (430, 19501), (438, 19558), (442, 19582), (447, 19636), (450, 19684), (454, 19726), (456, 19750), (457, 19753),

Gene: Bubbles123_19 Start: 18112, Stop: 20649, Start Num: 21

Candidate Starts for Bubbles123_19:

(Start: 21 @18112 has 242 MA's), (28, 18133), (Start: 35 @18154 has 1 MA's), (41, 18193), (64, 18262), (65, 18271), (66, 18274), (73, 18292), (80, 18325), (83, 18340), (94, 18388), (120, 18499),

(121, 18502), (134, 18544), (135, 18547), (149, 18649), (Start: 161 @18715 has 1 MA's), (168, 18760), (171, 18790), (172, 18796), (174, 18814), (181, 18838), (183, 18847), (189, 18880), (191, 18886), (205, 18955), (206, 18967), (208, 18976), (212, 18991), (214, 18997), (234, 19105), (236, 19117), (237, 19123), (240, 19138), (241, 19141), (243, 19162), (250, 19192), (252, 19204), (254, 19237), (265, 19303), (272, 19348), (273, 19351), (279, 19378), (282, 19384), (290, 19438), (291, 19441), (296, 19468), (310, 19543), (313, 19555), (314, 19558), (327, 19624), (330, 19648), (334, 19678), (341, 19720), (344, 19738), (345, 19741), (351, 19777), (352, 19795), (356, 19816), (360, 19843), (374, 19912), (376, 19930), (378, 19939), (379, 19951), (382, 19987), (391, 20038), (396, 20062), (402, 20098), (408, 20152), (422, 20254), (430, 20332), (438, 20389), (442, 20413), (450, 20515), (454, 20557), (456, 20581), (457, 20584),

Gene: Buck_25 Start: 22240, Stop: 24636, Start Num: 45

Candidate Starts for Buck_25:

(Start: 45 @22240 has 134 MA's), (92, 22417), (96, 22438), (139, 22585), (163, 22726), (167, 22759), (171, 22792), (176, 22828), (196, 22921), (208, 22981), (213, 22999), (238, 23131), (245, 23176), (265, 23308), (272, 23353), (287, 23413), (307, 23527), (310, 23548), (318, 23587), (321, 23608), (325, 23623), (349, 23773), (351, 23779), (352, 23797), (362, 23851), (376, 23935), (390, 24028), (427, 24274), (450, 24490), (457, 24574), (464, 24607),

Gene: Budgie_28 Start: 21675, Stop: 24068, Start Num: 45

Candidate Starts for Budgie_28:

(Start: 45 @21675 has 134 MA's), (92, 21852), (96, 21873), (147, 22077), (148, 22083), (166, 22191), (167, 22194), (176, 22263), (205, 22392), (208, 22413), (227, 22512), (231, 22530), (265, 22740), (272, 22785), (310, 22980), (311, 22986), (314, 22995), (321, 23040), (325, 23055), (351, 23211), (352, 23229), (354, 23238), (376, 23367), (377, 23370), (407, 23580), (409, 23592), (433, 23775), (434, 23781), (450, 23922), (457, 24006), (462, 24030), (464, 24039),

Gene: BugsBunny_24 Start: 21873, Stop: 24269, Start Num: 45

Candidate Starts for BugsBunny_24:

(Start: 45 @21873 has 134 MA's), (92, 22050), (96, 22071), (139, 22218), (163, 22359), (167, 22392), (171, 22425), (176, 22461), (196, 22554), (208, 22614), (213, 22632), (238, 22764), (245, 22809), (265, 22941), (272, 22986), (287, 23046), (307, 23160), (310, 23181), (318, 23220), (321, 23241), (325, 23256), (349, 23406), (351, 23412), (352, 23430), (362, 23484), (376, 23568), (390, 23661), (427, 23907), (450, 24123), (457, 24207), (464, 24240),

Gene: Burwell21_18 Start: 17404, Stop: 19956, Start Num: 21

Candidate Starts for Burwell21_18:

(Start: 21 @17404 has 242 MA's), (42, 17485), (64, 17554), (65, 17563), (66, 17566), (73, 17584), (83, 17632), (93, 17677), (120, 17791), (121, 17794), (125, 17806), (132, 17827), (134, 17836), (135, 17839), (142, 17887), (145, 17917), (155, 17983), (163, 18016), (168, 18052), (170, 18076), (182, 18136), (183, 18139), (187, 18157), (200, 18220), (202, 18223), (205, 18241), (208, 18262), (213, 18280), (217, 18307), (221, 18328), (227, 18361), (236, 18403), (237, 18409), (238, 18412), (241, 18427), (244, 18454), (245, 18457), (250, 18478), (252, 18490), (254, 18523), (269, 18616), (290, 18724), (293, 18748), (296, 18754), (301, 18772), (302, 18775), (305, 18799), (310, 18829), (316, 18853), (321, 18889), (322, 18895), (325, 18904), (329, 18931), (338, 18994), (341, 19018), (342, 19033), (349, 19075), (357, 19126), (375, 19222), (376, 19237), (378, 19246), (380, 19270), (390, 19333), (396, 19369), (436, 19675), (442, 19720), (450, 19822),

Gene: Butterscotch_30 Start: 24316, Stop: 26586, Start Num: 91

Candidate Starts for Butterscotch_30:

(Start: 91 @24316 has 22 MA's), (118, 24451), (122, 24460), (152, 24634), (153, 24640), (154, 24652), (181, 24805), (185, 24820), (188, 24835), (260, 25216), (261, 25222), (268, 25267), (288, 25354), (324, 25555), (326, 25561), (332, 25609), (336, 25639), (340, 25663), (366, 25852), (373, 25879),

(379, 25927), (389, 25999), (396, 26038), (397, 26059), (400, 26074), (403, 26092), (405, 26122), (417, 26206), (446, 26407), (450, 26449), (468, 26575),

Gene: BuzzLyseyear_20 Start: 17791, Stop: 20328, Start Num: 21

Candidate Starts for BuzzLyseyear_20:

(Start: 21 @17791 has 242 MA's), (28, 17812), (Start: 35 @17833 has 1 MA's), (41, 17872), (64, 17941), (65, 17950), (66, 17953), (73, 17971), (83, 18019), (117, 18172), (121, 18181), (135, 18226), (148, 18325), (149, 18328), (Start: 161 @18394 has 1 MA's), (171, 18469), (172, 18475), (174, 18493), (181, 18517), (182, 18523), (183, 18526), (189, 18559), (191, 18565), (196, 18595), (202, 18616), (206, 18646), (208, 18655), (212, 18670), (213, 18673), (234, 18784), (235, 18787), (236, 18796), (237, 18802), (240, 18817), (241, 18820), (243, 18841), (250, 18871), (252, 18883), (254, 18916), (272, 19027), (273, 19030), (279, 19057), (282, 19063), (290, 19117), (291, 19120), (308, 19207), (310, 19222), (313, 19234), (314, 19237), (327, 19303), (330, 19327), (332, 19348), (334, 19357), (344, 19417), (345, 19420), (351, 19456), (352, 19474), (355, 19486), (356, 19495), (360, 19522), (372, 19579), (374, 19591), (376, 19609), (378, 19618), (379, 19630), (382, 19666), (386, 19696), (390, 19705), (391, 19717), (402, 19777), (408, 19831), (416, 19891), (422, 19933), (438, 20068), (442, 20092), (447, 20146), (450, 20194), (454, 20236), (456, 20260), (457, 20263),

Gene: ByChance_18 Start: 17408, Stop: 19933, Start Num: 21

Candidate Starts for ByChance_18:

(Start: 21 @17408 has 242 MA's), (42, 17489), (64, 17558), (65, 17567), (66, 17570), (73, 17588), (83, 17636), (94, 17684), (120, 17795), (121, 17798), (132, 17831), (135, 17843), (145, 17921), (155, 17987), (163, 18020), (169, 18074), (171, 18086), (182, 18140), (183, 18143), (186, 18152), (192, 18185), (200, 18224), (202, 18227), (204, 18242), (205, 18245), (209, 18272), (210, 18278), (212, 18281), (213, 18284), (217, 18311), (220, 18329), (221, 18332), (236, 18407), (240, 18428), (241, 18431), (244, 18458), (250, 18482), (254, 18527), (255, 18530), (262, 18581), (273, 18644), (275, 18653), (280, 18677), (302, 18782), (303, 18785), (310, 18836), (311, 18842), (313, 18848), (314, 18851), (321, 18896), (325, 18911), (329, 18938), (332, 18962), (341, 19013), (344, 19031), (345, 19034), (346, 19046), (355, 19100), (362, 19142), (383, 19286), (392, 19340), (393, 19346), (394, 19349), (399, 19385), (401, 19388), (403, 19397), (404, 19424), (432, 19625), (450, 19796), (453, 19835), (459, 19874), (460, 19877),

Gene: Byougenkin_18 Start: 17418, Stop: 19949, Start Num: 21

Candidate Starts for Byougenkin_18:

(Start: 21 @17418 has 242 MA's), (47, 17508), (64, 17568), (65, 17577), (66, 17580), (73, 17598), (80, 17631), (83, 17646), (94, 17694), (120, 17805), (121, 17808), (131, 17838), (135, 17853), (145, 17931), (149, 17955), (Start: 161 @18021 has 1 MA's), (168, 18066), (171, 18096), (172, 18102), (174, 18120), (181, 18144), (182, 18150), (183, 18153), (189, 18186), (191, 18192), (205, 18261), (208, 18282), (212, 18297), (213, 18300), (234, 18411), (236, 18423), (237, 18429), (240, 18444), (241, 18447), (243, 18468), (252, 18510), (254, 18543), (272, 18654), (273, 18657), (279, 18684), (282, 18690), (290, 18744), (291, 18747), (308, 18834), (310, 18849), (313, 18861), (314, 18864), (327, 18930), (330, 18954), (332, 18975), (334, 18984), (344, 19044), (345, 19047), (351, 19083), (352, 19101), (355, 19113), (356, 19122), (360, 19149), (374, 19218), (376, 19236), (378, 19245), (379, 19257), (382, 19293), (386, 19323), (391, 19344), (396, 19368), (402, 19404), (408, 19458), (416, 19518), (422, 19560), (430, 19638), (438, 19695), (442, 19719), (447, 19773), (450, 19821), (454, 19857), (456, 19881), (457, 19884),

Gene: Cabrinians_18 Start: 17398, Stop: 19950, Start Num: 21

Candidate Starts for Cabrinians_18:

(Start: 21 @17398 has 242 MA's), (42, 17479), (64, 17548), (65, 17557), (66, 17560), (73, 17578), (83, 17626), (93, 17671), (120, 17785), (121, 17788), (125, 17800), (132, 17821), (134, 17830), (135, 17833), (142, 17881), (145, 17911), (155, 17977), (163, 18010), (168, 18046), (170, 18070), (182, 18130), (183, 18133), (187, 18151), (200, 18214), (202, 18217), (205, 18235), (208, 18256), (213,

18274), (217, 18301), (221, 18322), (227, 18355), (236, 18397), (237, 18403), (238, 18406), (241, 18421), (244, 18448), (245, 18451), (250, 18472), (252, 18484), (254, 18517), (269, 18610), (290, 18718), (293, 18742), (296, 18748), (301, 18766), (302, 18769), (305, 18793), (310, 18823), (316, 18847), (321, 18883), (322, 18889), (325, 18898), (329, 18925), (338, 18988), (341, 19012), (342, 19027), (349, 19069), (357, 19120), (375, 19216), (376, 19231), (378, 19240), (380, 19264), (390, 19327), (396, 19363), (436, 19669), (442, 19714), (450, 19816),

Gene: Cactus_27 Start: 21496, Stop: 23892, Start Num: 45

Candidate Starts for Cactus_27:

(Start: 45 @21496 has 134 MA's), (92, 21673), (96, 21694), (139, 21841), (163, 21982), (167, 22015), (171, 22048), (176, 22084), (196, 22177), (208, 22237), (213, 22255), (227, 22336), (265, 22564), (272, 22609), (310, 22804), (311, 22810), (314, 22819), (321, 22864), (325, 22879), (351, 23035), (352, 23053), (354, 23062), (376, 23191), (377, 23194), (407, 23404), (409, 23416), (427, 23530), (450, 23746), (457, 23830), (462, 23854), (464, 23863),

Gene: CaptainTrips_19 Start: 18092, Stop: 20629, Start Num: 21

Candidate Starts for CaptainTrips_19:

(Start: 21 @18092 has 242 MA's), (47, 18182), (64, 18242), (65, 18251), (66, 18254), (73, 18272), (80, 18305), (83, 18320), (94, 18368), (120, 18479), (121, 18482), (131, 18512), (134, 18524), (135, 18527), (145, 18605), (149, 18629), (Start: 161 @18695 has 1 MA's), (168, 18740), (171, 18770), (172, 18776), (174, 18794), (181, 18818), (183, 18827), (189, 18860), (191, 18866), (196, 18896), (205, 18935), (206, 18947), (208, 18956), (212, 18971), (213, 18974), (234, 19085), (235, 19088), (236, 19097), (237, 19103), (240, 19118), (241, 19121), (243, 19142), (250, 19172), (252, 19184), (254, 19217), (272, 19328), (273, 19331), (279, 19358), (282, 19364), (290, 19418), (291, 19421), (308, 19508), (310, 19523), (313, 19535), (314, 19538), (327, 19604), (330, 19628), (332, 19649), (334, 19658), (344, 19718), (345, 19721), (351, 19757), (352, 19775), (355, 19787), (356, 19796), (360, 19823), (374, 19892), (376, 19910), (378, 19919), (379, 19931), (382, 19967), (386, 19997), (391, 20018), (396, 20042), (402, 20078), (408, 20132), (416, 20192), (422, 20234), (430, 20312), (438, 20369), (442, 20393), (447, 20447), (450, 20495), (454, 20537), (456, 20561), (457, 20564),

Gene: Causa_36 Start: 31862, Stop: 33766, Start Num: 162

Candidate Starts for Causa_36:

(Start: 162 @31862 has 2 MA's), (179, 31973), (184, 31991), (197, 32060), (233, 32231), (248, 32306), (261, 32408), (270, 32453), (284, 32513), (288, 32537), (292, 32567), (326, 32753), (336, 32831), (343, 32885), (352, 32948), (358, 32996), (364, 33032), (365, 33035), (367, 33047), (373, 33071), (397, 33248), (398, 33254), (405, 33299), (406, 33302), (413, 33353), (435, 33485), (450, 33629), (459, 33710), (468, 33755),

Gene: Cborch11_30 Start: 25681, Stop: 28524, Start Num: 4

Candidate Starts for Cborch11_30:

(Start: 4 @25681 has 10 MA's), (9, 25813), (10, 25825), (12, 25834), (Start: 22 @25903 has 1 MA's), (24, 25909), (37, 25969), (40, 25990), (51, 26038), (63, 26080), (68, 26104), (77, 26137), (85, 26173), (89, 26185), (107, 26278), (121, 26335), (133, 26374), (151, 26500), (163, 26569), (166, 26599), (172, 26641), (183, 26692), (202, 26782), (205, 26800), (219, 26881), (227, 26920), (232, 26941), (254, 27079), (258, 27118), (271, 27181), (291, 27283), (331, 27508), (387, 27871), (392, 27898), (431, 28141), (436, 28174), (439, 28198), (450, 28318), (458, 28396), (470, 28483), (471, 28498), (472, 28504),

Gene: Che8_18 Start: 17426, Stop: 19963, Start Num: 21

Candidate Starts for Che8_18:

(Start: 21 @17426 has 242 MA's), (28, 17447), (Start: 35 @17468 has 1 MA's), (41, 17507), (64, 17576), (65, 17585), (66, 17588), (73, 17606), (80, 17639), (83, 17654), (120, 17813), (121, 17816), (131, 17846), (135, 17861), (145, 17939), (149, 17963), (Start: 161 @18029 has 1 MA's), (171, 18104),

(172, 18110), (174, 18128), (181, 18152), (182, 18158), (183, 18161), (189, 18194), (191, 18200), (196, 18230), (202, 18251), (206, 18281), (208, 18290), (229, 18398), (232, 18410), (234, 18419), (235, 18422), (236, 18431), (237, 18437), (240, 18452), (241, 18455), (243, 18476), (250, 18506), (252, 18518), (254, 18551), (279, 18692), (282, 18698), (290, 18752), (291, 18755), (296, 18782), (310, 18857), (313, 18869), (314, 18872), (317, 18893), (327, 18938), (330, 18962), (334, 18992), (341, 19034), (344, 19052), (345, 19055), (351, 19091), (352, 19109), (355, 19121), (356, 19130), (360, 19157), (372, 19214), (374, 19226), (376, 19244), (378, 19253), (379, 19265), (382, 19301), (386, 19331), (390, 19340), (391, 19352), (402, 19412), (408, 19466), (422, 19568), (430, 19646), (438, 19703), (442, 19727), (447, 19781), (450, 19829), (452, 19850), (456, 19895), (457, 19898),

Gene: Che9d_24 Start: 17101, Stop: 19650, Start Num: 13

Candidate Starts for Che9d_24:

(11, 17092), (Start: 13 @17101 has 7 MA's), (Start: 21 @17161 has 242 MA's), (31, 17197), (59, 17296), (94, 17437), (106, 17476), (112, 17491), (121, 17527), (123, 17533), (124, 17536), (131, 17554), (137, 17578), (141, 17602), (142, 17605), (165, 17749), (168, 17758), (171, 17782), (174, 17806), (181, 17830), (182, 17836), (187, 17857), (188, 17860), (191, 17878), (196, 17908), (203, 17938), (206, 17959), (225, 18052), (227, 18067), (229, 18076), (234, 18097), (235, 18100), (242, 18142), (250, 18184), (251, 18187), (252, 18196), (253, 18223), (255, 18232), (259, 18271), (263, 18292), (265, 18295), (271, 18331), (275, 18352), (290, 18430), (291, 18433), (304, 18487), (313, 18547), (328, 18634), (330, 18640), (332, 18661), (339, 18697), (348, 18751), (349, 18760), (359, 18838), (363, 18856), (369, 18892), (370, 18895), (374, 18913), (376, 18931), (382, 18988), (384, 19000), (396, 19063), (402, 19096), (411, 19183), (419, 19231), (421, 19255), (425, 19282), (427, 19291), (429, 19330), (434, 19369), (438, 19393), (441, 19414), (450, 19510), (452, 19531), (458, 19591), (460, 19594), (464, 19621),

Gene: Cheesepuff_20 Start: 18248, Stop: 20785, Start Num: 21

Candidate Starts for Cheesepuff_20:

(Start: 21 @18248 has 242 MA's), (28, 18269), (Start: 35 @18290 has 1 MA's), (41, 18329), (64, 18398), (65, 18407), (66, 18410), (73, 18428), (80, 18461), (83, 18476), (117, 18629), (121, 18638), (135, 18683), (148, 18782), (149, 18785), (Start: 161 @18851 has 1 MA's), (168, 18896), (171, 18926), (172, 18932), (174, 18950), (181, 18974), (182, 18980), (183, 18983), (189, 19016), (191, 19022), (196, 19052), (205, 19091), (206, 19103), (208, 19112), (212, 19127), (213, 19130), (234, 19241), (235, 19244), (236, 19253), (237, 19259), (240, 19274), (241, 19277), (243, 19298), (250, 19328), (252, 19340), (254, 19373), (272, 19484), (273, 19487), (279, 19514), (282, 19520), (290, 19574), (291, 19577), (299, 19613), (308, 19664), (310, 19679), (313, 19691), (314, 19694), (327, 19760), (330, 19784), (332, 19805), (334, 19814), (344, 19874), (345, 19877), (351, 19913), (352, 19931), (355, 19943), (356, 19952), (360, 19979), (372, 20036), (374, 20048), (376, 20066), (378, 20075), (379, 20087), (382, 20123), (386, 20153), (390, 20162), (391, 20174), (396, 20198), (402, 20234), (408, 20288), (416, 20348), (422, 20390), (430, 20468), (438, 20525), (442, 20549), (447, 20603), (450, 20651), (454, 20693), (456, 20717), (457, 20720),

Gene: Chevrolet_18 Start: 17438, Stop: 19975, Start Num: 21

Candidate Starts for Chevrolet_18:

(Start: 21 @17438 has 242 MA's), (28, 17459), (Start: 35 @17480 has 1 MA's), (41, 17519), (64, 17588), (65, 17597), (66, 17600), (73, 17618), (80, 17651), (83, 17666), (120, 17825), (121, 17828), (131, 17858), (135, 17873), (145, 17951), (148, 17972), (149, 17975), (Start: 161 @18041 has 1 MA's), (171, 18116), (172, 18122), (181, 18164), (182, 18170), (183, 18173), (189, 18206), (191, 18212), (196, 18242), (202, 18263), (206, 18293), (208, 18302), (229, 18410), (232, 18422), (234, 18431), (235, 18434), (236, 18443), (237, 18449), (240, 18464), (241, 18467), (243, 18488), (252, 18530), (254, 18563), (279, 18704), (282, 18710), (290, 18764), (291, 18767), (296, 18794), (308, 18854), (310, 18869), (313, 18881), (314, 18884), (327, 18950), (330, 18974), (332, 18995), (334, 19004), (344, 19064), (345, 19067), (351, 19103), (352, 19121), (355, 19133), (356, 19142), (360, 19169), (374, 19238), (376, 19256), (378, 19265), (379, 19277), (382, 19313), (386, 19343), (402, 19424),

(408, 19478), (416, 19538), (422, 19580), (430, 19658), (438, 19715), (442, 19739), (447, 19793),
(450, 19841), (454, 19883), (456, 19907), (457, 19910),

Gene: ChickenDinner_19 Start: 17271, Stop: 19796, Start Num: 21

Candidate Starts for ChickenDinner_19:

(Start: 21 @17271 has 242 MA's), (28, 17292), (Start: 35 @17313 has 1 MA's), (41, 17352), (64, 17421), (65, 17430), (66, 17433), (73, 17451), (80, 17484), (83, 17499), (94, 17547), (120, 17658), (121, 17661), (135, 17706), (145, 17784), (149, 17808), (Start: 161 @17874 has 1 MA's), (163, 17883), (171, 17949), (172, 17955), (174, 17973), (181, 17997), (182, 18003), (183, 18006), (189, 18039), (191, 18045), (196, 18075), (202, 18096), (208, 18135), (212, 18150), (214, 18156), (241, 18300), (250, 18351), (264, 18462), (273, 18513), (278, 18537), (296, 18630), (305, 18675), (307, 18684), (310, 18705), (313, 18717), (314, 18720), (321, 18765), (330, 18810), (331, 18828), (332, 18831), (341, 18882), (349, 18933), (351, 18939), (352, 18957), (355, 18969), (356, 18978), (362, 19011), (376, 19092), (384, 19161), (390, 19188), (393, 19215), (403, 19266), (408, 19314), (441, 19557), (450, 19662), (452, 19683), (459, 19737), (463, 19761),

Gene: Chill_31 Start: 24322, Stop: 26592, Start Num: 91

Candidate Starts for Chill_31:

(Start: 91 @24322 has 22 MA's), (118, 24457), (122, 24466), (152, 24640), (153, 24646), (154, 24658), (181, 24811), (185, 24826), (188, 24841), (260, 25222), (261, 25228), (268, 25273), (288, 25360), (324, 25561), (326, 25567), (332, 25615), (336, 25645), (340, 25669), (366, 25858), (373, 25885), (379, 25933), (389, 26005), (396, 26044), (397, 26065), (400, 26080), (403, 26098), (405, 26128), (417, 26212), (446, 26413), (450, 26455), (468, 26581),

Gene: ChosenOne_25 Start: 21491, Stop: 23887, Start Num: 45

Candidate Starts for ChosenOne_25:

(Start: 45 @21491 has 134 MA's), (92, 21668), (96, 21689), (139, 21836), (167, 22010), (171, 22043), (176, 22079), (196, 22172), (208, 22232), (213, 22250), (238, 22382), (245, 22427), (265, 22559), (272, 22604), (287, 22664), (307, 22778), (310, 22799), (318, 22838), (321, 22859), (325, 22874), (349, 23024), (351, 23030), (352, 23048), (362, 23102), (376, 23186), (390, 23279), (427, 23525), (450, 23741), (457, 23825), (464, 23858),

Gene: ChotaBhai_26 Start: 21533, Stop: 23929, Start Num: 45

Candidate Starts for ChotaBhai_26:

(Start: 45 @21533 has 134 MA's), (92, 21710), (96, 21731), (139, 21878), (163, 22019), (167, 22052), (171, 22085), (176, 22121), (196, 22214), (208, 22274), (213, 22292), (238, 22424), (245, 22469), (265, 22601), (272, 22646), (307, 22820), (310, 22841), (318, 22880), (321, 22901), (325, 22916), (351, 23072), (352, 23090), (362, 23144), (376, 23228), (390, 23321), (427, 23567), (450, 23783), (457, 23867), (464, 23900),

Gene: Chuckly_18 Start: 17569, Stop: 20106, Start Num: 21

Candidate Starts for Chuckly_18:

(18, 17557), (Start: 21 @17569 has 242 MA's), (28, 17590), (Start: 35 @17611 has 1 MA's), (41, 17650), (64, 17719), (65, 17728), (66, 17731), (73, 17749), (80, 17782), (83, 17797), (94, 17845), (120, 17956), (121, 17959), (131, 17989), (134, 18001), (135, 18004), (145, 18082), (149, 18106), (Start: 161 @18172 has 1 MA's), (168, 18217), (171, 18247), (172, 18253), (174, 18271), (181, 18295), (183, 18304), (189, 18337), (191, 18343), (196, 18373), (205, 18412), (206, 18424), (208, 18433), (212, 18448), (214, 18454), (234, 18562), (235, 18565), (236, 18574), (237, 18580), (240, 18595), (241, 18598), (243, 18619), (250, 18649), (252, 18661), (254, 18694), (265, 18760), (272, 18805), (273, 18808), (279, 18835), (282, 18841), (290, 18895), (291, 18898), (308, 18985), (310, 19000), (313, 19012), (314, 19015), (327, 19081), (330, 19105), (332, 19126), (334, 19135), (344, 19195), (345, 19198), (351, 19234), (352, 19252), (356, 19273), (360, 19300), (374, 19369), (376, 19387), (378, 19396), (379, 19408), (382, 19444), (386, 19474), (391, 19495), (396, 19519), (402, 19555), (408,

19609), (416, 19669), (422, 19711), (438, 19846), (442, 19870), (447, 19924), (450, 19972), (454, 20014), (456, 20038), (457, 20041),

Gene: Cjw1_26 Start: 23044, Stop: 25440, Start Num: 45

Candidate Starts for Cjw1_26:

(Start: 45 @23044 has 134 MA's), (92, 23221), (96, 23242), (139, 23389), (167, 23563), (171, 23596), (176, 23632), (208, 23785), (213, 23803), (238, 23935), (245, 23980), (265, 24112), (272, 24157), (287, 24217), (307, 24331), (310, 24352), (318, 24391), (321, 24412), (325, 24427), (349, 24577), (351, 24583), (352, 24601), (362, 24655), (376, 24739), (390, 24832), (427, 25078), (450, 25294), (457, 25378), (464, 25411),

Gene: Clank_18 Start: 17552, Stop: 20029, Start Num: 21

Candidate Starts for Clank_18:

(Start: 21 @17552 has 242 MA's), (28, 17573), (Start: 35 @17594 has 1 MA's), (43, 17633), (64, 17702), (65, 17711), (66, 17714), (73, 17732), (80, 17765), (83, 17780), (106, 17867), (112, 17882), (121, 17918), (123, 17924), (134, 17957), (137, 17969), (165, 18140), (168, 18149), (171, 18173), (182, 18227), (189, 18263), (191, 18269), (196, 18299), (203, 18329), (206, 18350), (208, 18359), (212, 18374), (225, 18443), (241, 18524), (242, 18533), (245, 18554), (246, 18557), (252, 18587), (255, 18623), (262, 18674), (263, 18683), (265, 18686), (269, 18713), (271, 18722), (275, 18743), (290, 18821), (291, 18824), (305, 18896), (311, 18932), (313, 18938), (320, 18980), (321, 18986), (329, 19028), (330, 19031), (332, 19052), (333, 19058), (334, 19061), (339, 19091), (359, 19232), (362, 19241), (363, 19250), (368, 19283), (374, 19307), (375, 19310), (376, 19325), (379, 19346), (382, 19382), (383, 19388), (384, 19394), (388, 19415), (392, 19442), (411, 19577), (421, 19649), (423, 19655), (427, 19673), (438, 19772), (450, 19889), (458, 19970), (460, 19973), (464, 20000),

Gene: Coco12_20 Start: 17795, Stop: 20272, Start Num: 21

Candidate Starts for Coco12_20:

(19, 17783), (Start: 21 @17795 has 242 MA's), (28, 17816), (Start: 35 @17837 has 1 MA's), (43, 17876), (64, 17945), (65, 17954), (66, 17957), (73, 17975), (80, 18008), (83, 18023), (106, 18110), (112, 18125), (121, 18161), (123, 18167), (134, 18200), (137, 18212), (165, 18383), (168, 18392), (171, 18416), (182, 18470), (189, 18506), (191, 18512), (196, 18542), (203, 18572), (206, 18593), (208, 18602), (225, 18686), (237, 18749), (241, 18767), (242, 18776), (245, 18797), (246, 18800), (250, 18818), (252, 18830), (253, 18857), (255, 18866), (262, 18917), (263, 18926), (265, 18929), (269, 18956), (271, 18965), (275, 18986), (290, 19064), (291, 19067), (311, 19175), (313, 19181), (321, 19229), (329, 19271), (330, 19274), (332, 19295), (333, 19301), (334, 19304), (339, 19334), (359, 19475), (363, 19493), (368, 19526), (374, 19550), (375, 19553), (376, 19568), (379, 19589), (382, 19625), (383, 19631), (388, 19658), (392, 19685), (411, 19820), (419, 19868), (421, 19892), (423, 19898), (427, 19916), (438, 20015), (441, 20036), (443, 20054), (450, 20132), (452, 20153), (460, 20216), (462, 20234), (467, 20252),

Gene: Command613_27 Start: 22552, Stop: 24948, Start Num: 45

Candidate Starts for Command613_27:

(Start: 45 @22552 has 134 MA's), (92, 22729), (96, 22750), (139, 22897), (163, 23038), (167, 23071), (171, 23104), (176, 23140), (196, 23233), (208, 23293), (213, 23311), (227, 23392), (265, 23620), (272, 23665), (310, 23860), (311, 23866), (314, 23875), (321, 23920), (325, 23935), (351, 24091), (352, 24109), (354, 24118), (376, 24247), (377, 24250), (407, 24460), (409, 24472), (427, 24586), (450, 24802), (457, 24886), (462, 24910), (464, 24919),

Gene: Contagion_25 Start: 21791, Stop: 24187, Start Num: 45

Candidate Starts for Contagion_25:

(Start: 45 @21791 has 134 MA's), (92, 21968), (96, 21989), (139, 22136), (163, 22277), (167, 22310), (171, 22343), (176, 22379), (196, 22472), (208, 22532), (213, 22550), (238, 22682), (245, 22727), (265, 22859), (272, 22904), (307, 23078), (310, 23099), (318, 23138), (321, 23159), (325, 23174),

(351, 23330), (352, 23348), (362, 23402), (376, 23486), (390, 23579), (427, 23825), (450, 24041), (457, 24125), (464, 24158),

Gene: Cookies_26 Start: 22153, Stop: 24549, Start Num: 45

Candidate Starts for Cookies_26:

(Start: 45 @22153 has 134 MA's), (92, 22330), (96, 22351), (139, 22498), (163, 22639), (167, 22672), (171, 22705), (176, 22741), (196, 22834), (208, 22894), (213, 22912), (238, 23044), (245, 23089), (265, 23221), (272, 23266), (287, 23326), (307, 23440), (310, 23461), (318, 23500), (321, 23521), (325, 23536), (349, 23686), (351, 23692), (352, 23710), (362, 23764), (376, 23848), (390, 23941), (427, 24187), (450, 24403), (457, 24487), (464, 24520),

Gene: Corium_18 Start: 17437, Stop: 19974, Start Num: 21

Candidate Starts for Corium_18:

(18, 17425), (Start: 21 @17437 has 242 MA's), (28, 17458), (Start: 35 @17479 has 1 MA's), (41, 17518), (64, 17587), (65, 17596), (66, 17599), (73, 17617), (80, 17650), (83, 17665), (94, 17713), (120, 17824), (121, 17827), (131, 17857), (134, 17869), (135, 17872), (145, 17950), (149, 17974), (Start: 161 @18040 has 1 MA's), (168, 18085), (171, 18115), (172, 18121), (174, 18139), (181, 18163), (183, 18172), (189, 18205), (191, 18211), (196, 18241), (205, 18280), (206, 18292), (208, 18301), (212, 18316), (213, 18319), (234, 18430), (235, 18433), (236, 18442), (237, 18448), (240, 18463), (241, 18466), (243, 18487), (250, 18517), (252, 18529), (254, 18562), (272, 18673), (273, 18676), (279, 18703), (282, 18709), (290, 18763), (291, 18766), (308, 18853), (310, 18868), (313, 18880), (314, 18883), (327, 18949), (330, 18973), (332, 18994), (334, 19003), (344, 19063), (345, 19066), (351, 19102), (352, 19120), (355, 19132), (356, 19141), (360, 19168), (374, 19237), (376, 19255), (378, 19264), (379, 19276), (382, 19312), (386, 19342), (391, 19363), (396, 19387), (402, 19423), (408, 19477), (416, 19537), (422, 19579), (430, 19657), (438, 19714), (442, 19738), (447, 19792), (450, 19840), (454, 19882), (456, 19906), (457, 19909),

Gene: Cornie_20 Start: 18264, Stop: 20744, Start Num: 22

Candidate Starts for Cornie_20:

(Start: 22 @18264 has 1 MA's), (24, 18270), (28, 18276), (Start: 45 @18339 has 134 MA's), (46, 18342), (53, 18369), (69, 18423), (73, 18432), (80, 18465), (90, 18498), (94, 18531), (106, 18570), (112, 18585), (121, 18621), (123, 18627), (124, 18630), (131, 18648), (134, 18660), (137, 18672), (141, 18696), (142, 18699), (157, 18804), (163, 18828), (165, 18843), (168, 18852), (171, 18876), (172, 18882), (174, 18900), (176, 18912), (178, 18918), (181, 18924), (182, 18930), (183, 18933), (186, 18942), (187, 18951), (189, 18966), (196, 19002), (205, 19041), (206, 19053), (208, 19062), (225, 19146), (241, 19227), (242, 19236), (246, 19260), (252, 19290), (255, 19326), (262, 19377), (263, 19386), (265, 19389), (269, 19416), (271, 19425), (275, 19446), (285, 19482), (290, 19524), (291, 19527), (304, 19581), (313, 19641), (328, 19728), (330, 19734), (332, 19755), (339, 19791), (348, 19845), (349, 19854), (359, 19932), (363, 19950), (369, 19986), (370, 19989), (374, 20007), (376, 20025), (382, 20082), (384, 20094), (396, 20157), (402, 20190), (411, 20277), (419, 20325), (421, 20349), (425, 20376), (427, 20385), (429, 20424), (434, 20463), (438, 20487), (441, 20508), (450, 20604), (452, 20625), (458, 20685), (460, 20688), (464, 20715),

Gene: Cornucopia_19 Start: 17435, Stop: 19972, Start Num: 21

Candidate Starts for Cornucopia_19:

(Start: 21 @17435 has 242 MA's), (28, 17456), (Start: 35 @17477 has 1 MA's), (41, 17516), (64, 17585), (65, 17594), (66, 17597), (73, 17615), (83, 17663), (117, 17816), (121, 17825), (135, 17870), (148, 17969), (149, 17972), (Start: 161 @18038 has 1 MA's), (171, 18113), (172, 18119), (174, 18137), (181, 18161), (183, 18170), (189, 18203), (191, 18209), (196, 18239), (202, 18260), (205, 18278), (206, 18290), (208, 18299), (212, 18314), (213, 18317), (234, 18428), (235, 18431), (236, 18440), (237, 18446), (240, 18461), (241, 18464), (243, 18485), (250, 18515), (252, 18527), (254, 18560), (272, 18671), (273, 18674), (279, 18701), (282, 18707), (290, 18761), (291, 18764), (302, 18812), (308, 18851), (310, 18866), (313, 18878), (314, 18881), (317, 18902), (327, 18947), (330, 18971),

(334, 19001), (341, 19043), (344, 19061), (345, 19064), (351, 19100), (352, 19118), (355, 19130), (356, 19139), (362, 19172), (374, 19235), (376, 19253), (378, 19262), (379, 19274), (386, 19340), (391, 19361), (396, 19385), (402, 19421), (408, 19475), (416, 19535), (422, 19577), (430, 19655), (438, 19712), (442, 19736), (447, 19790), (450, 19838), (454, 19880), (456, 19904), (457, 19907),

Gene: Cosmo_43 Start: 28347, Stop: 30914, Start Num: 20

Candidate Starts for Cosmo_43:

(Start: 20 @28347 has 6 MA's), (36, 28416), (69, 28539), (72, 28545), (73, 28548), (78, 28572), (82, 28593), (116, 28749), (119, 28755), (121, 28761), (130, 28791), (131, 28797), (135, 28818), (136, 28827), (144, 28887), (150, 28923), (156, 28965), (172, 29064), (177, 29097), (182, 29112), (183, 29115), (191, 29154), (202, 29205), (205, 29223), (208, 29244), (209, 29250), (216, 29277), (219, 29304), (234, 29373), (239, 29397), (242, 29418), (245, 29439), (247, 29448), (252, 29469), (254, 29502), (255, 29505), (262, 29556), (265, 29568), (277, 29634), (283, 29652), (289, 29691), (310, 29808), (319, 29853), (329, 29910), (332, 29934), (334, 29943), (337, 29961), (344, 30006), (349, 30039), (353, 30075), (381, 30249), (382, 30267), (383, 30273), (393, 30330), (437, 30654), (440, 30672), (445, 30723), (451, 30786), (456, 30861),

Gene: Courthouse_36 Start: 27742, Stop: 30249, Start Num: 21

Candidate Starts for Courthouse_36:

(Start: 21 @27742 has 242 MA's), (73, 27937), (80, 27973), (83, 27988), (106, 28075), (112, 28090), (134, 28165), (137, 28177), (142, 28204), (157, 28309), (165, 28348), (168, 28357), (171, 28381), (172, 28387), (174, 28405), (178, 28423), (183, 28438), (186, 28447), (187, 28456), (189, 28471), (195, 28498), (196, 28507), (205, 28546), (206, 28558), (208, 28567), (225, 28651), (241, 28732), (245, 28762), (246, 28765), (252, 28795), (253, 28822), (255, 28831), (262, 28882), (263, 28891), (265, 28894), (271, 28930), (275, 28951), (285, 28987), (311, 29140), (321, 29194), (330, 29239), (331, 29257), (332, 29260), (339, 29299), (359, 29446), (362, 29455), (375, 29524), (376, 29539), (402, 29704), (411, 29791), (419, 29839), (427, 29890), (434, 29968), (458, 30190), (460, 30193), (464, 30220),

Gene: CrystalP_26 Start: 22284, Stop: 24680, Start Num: 45

Candidate Starts for CrystalP_26:

(Start: 45 @22284 has 134 MA's), (92, 22461), (96, 22482), (139, 22629), (163, 22770), (167, 22803), (171, 22836), (176, 22872), (196, 22965), (208, 23025), (213, 23043), (227, 23124), (265, 23352), (272, 23397), (310, 23592), (311, 23598), (314, 23607), (321, 23652), (325, 23667), (351, 23823), (352, 23841), (354, 23850), (376, 23979), (377, 23982), (407, 24192), (409, 24204), (427, 24318), (450, 24534), (457, 24618), (462, 24642), (464, 24651),

Gene: Czyszczone1_27 Start: 22029, Stop: 24425, Start Num: 45

Candidate Starts for Czyszczone1_27:

(Start: 45 @22029 has 134 MA's), (92, 22206), (96, 22227), (139, 22374), (167, 22548), (171, 22581), (176, 22617), (196, 22710), (208, 22770), (213, 22788), (238, 22920), (245, 22965), (265, 23097), (272, 23142), (287, 23202), (307, 23316), (310, 23337), (318, 23376), (321, 23397), (325, 23412), (349, 23562), (351, 23568), (352, 23586), (362, 23640), (376, 23724), (390, 23817), (427, 24063), (450, 24279), (457, 24363), (464, 24396),

Gene: DLane_18 Start: 17386, Stop: 19923, Start Num: 21

Candidate Starts for DLane_18:

(18, 17374), (Start: 21 @17386 has 242 MA's), (28, 17407), (Start: 35 @17428 has 1 MA's), (41, 17467), (64, 17536), (65, 17545), (66, 17548), (73, 17566), (80, 17599), (83, 17614), (94, 17662), (120, 17773), (121, 17776), (131, 17806), (133, 17809), (135, 17821), (145, 17899), (149, 17923), (Start: 161 @17989 has 1 MA's), (168, 18034), (171, 18064), (172, 18070), (174, 18088), (181, 18112), (183, 18121), (189, 18154), (191, 18160), (196, 18190), (206, 18241), (208, 18250), (212, 18265), (213, 18268), (234, 18379), (235, 18382), (236, 18391), (237, 18397), (240, 18412), (241, 18415), (243,

18436), (250, 18466), (252, 18478), (254, 18511), (272, 18622), (273, 18625), (279, 18652), (282, 18658), (290, 18712), (291, 18715), (310, 18817), (313, 18829), (314, 18832), (327, 18898), (330, 18922), (332, 18943), (334, 18952), (344, 19012), (345, 19015), (351, 19051), (352, 19069), (355, 19081), (356, 19090), (360, 19117), (374, 19186), (376, 19204), (378, 19213), (379, 19225), (382, 19261), (386, 19291), (391, 19312), (396, 19336), (402, 19372), (408, 19426), (416, 19486), (422, 19528), (430, 19606), (438, 19663), (442, 19687), (447, 19741), (450, 19789), (454, 19831), (456, 19855), (457, 19858),

Gene: DRBy19_18 Start: 17429, Stop: 19966, Start Num: 21

Candidate Starts for DRBy19_18:

(Start: 21 @17429 has 242 MA's), (28, 17450), (Start: 35 @17471 has 1 MA's), (41, 17510), (64, 17579), (65, 17588), (66, 17591), (73, 17609), (83, 17657), (117, 17810), (121, 17819), (135, 17864), (145, 17942), (149, 17966), (Start: 161 @18032 has 1 MA's), (168, 18077), (171, 18107), (172, 18113), (174, 18131), (181, 18155), (183, 18164), (189, 18197), (191, 18203), (196, 18233), (205, 18272), (208, 18293), (212, 18308), (213, 18311), (235, 18425), (236, 18434), (237, 18440), (241, 18458), (243, 18479), (250, 18509), (252, 18521), (254, 18554), (272, 18665), (273, 18668), (279, 18695), (282, 18701), (290, 18755), (291, 18758), (308, 18845), (310, 18860), (314, 18875), (330, 18965), (332, 18986), (334, 18995), (344, 19055), (345, 19058), (351, 19094), (352, 19112), (355, 19124), (356, 19133), (360, 19160), (374, 19229), (376, 19247), (378, 19256), (379, 19268), (382, 19304), (386, 19334), (391, 19355), (396, 19379), (402, 19415), (408, 19469), (422, 19571), (430, 19649), (438, 19706), (442, 19730), (447, 19784), (450, 19832), (454, 19874), (459, 19907), (460, 19910),

Gene: DaWorst_20 Start: 17930, Stop: 20467, Start Num: 21

Candidate Starts for DaWorst_20:

(Start: 21 @17930 has 242 MA's), (28, 17951), (Start: 35 @17972 has 1 MA's), (41, 18011), (64, 18080), (65, 18089), (66, 18092), (73, 18110), (80, 18143), (83, 18158), (120, 18317), (121, 18320), (131, 18350), (135, 18365), (145, 18443), (148, 18464), (149, 18467), (Start: 161 @18533 has 1 MA's), (171, 18608), (172, 18614), (181, 18656), (182, 18662), (183, 18665), (189, 18698), (191, 18704), (196, 18734), (202, 18755), (206, 18785), (208, 18794), (229, 18902), (232, 18914), (234, 18923), (235, 18926), (236, 18935), (237, 18941), (240, 18956), (241, 18959), (243, 18980), (252, 19022), (254, 19055), (279, 19196), (282, 19202), (290, 19256), (291, 19259), (296, 19286), (308, 19346), (310, 19361), (313, 19373), (314, 19376), (327, 19442), (330, 19466), (332, 19487), (334, 19496), (344, 19556), (345, 19559), (351, 19595), (352, 19613), (355, 19625), (356, 19634), (360, 19661), (374, 19730), (376, 19748), (378, 19757), (379, 19769), (382, 19805), (386, 19835), (402, 19916), (408, 19970), (416, 20030), (422, 20072), (430, 20150), (438, 20207), (442, 20231), (447, 20285), (450, 20333), (454, 20375), (456, 20399), (457, 20402),

Gene: DaddyRickover_18 Start: 17568, Stop: 20105, Start Num: 21

Candidate Starts for DaddyRickover_18:

(18, 17556), (Start: 21 @17568 has 242 MA's), (28, 17589), (Start: 35 @17610 has 1 MA's), (41, 17649), (64, 17718), (65, 17727), (66, 17730), (73, 17748), (83, 17796), (94, 17844), (120, 17955), (121, 17958), (135, 18003), (145, 18081), (149, 18105), (Start: 161 @18171 has 1 MA's), (168, 18216), (171, 18246), (172, 18252), (174, 18270), (181, 18294), (183, 18303), (189, 18336), (191, 18342), (196, 18372), (205, 18411), (206, 18423), (208, 18432), (212, 18447), (213, 18450), (234, 18561), (235, 18564), (236, 18573), (237, 18579), (240, 18594), (241, 18597), (243, 18618), (250, 18648), (252, 18660), (254, 18693), (272, 18804), (273, 18807), (279, 18834), (282, 18840), (290, 18894), (291, 18897), (310, 18999), (313, 19011), (314, 19014), (327, 19080), (330, 19104), (332, 19125), (334, 19134), (344, 19194), (345, 19197), (351, 19233), (352, 19251), (356, 19272), (360, 19299), (374, 19368), (376, 19386), (378, 19395), (379, 19407), (382, 19443), (391, 19494), (394, 19512), (402, 19554), (408, 19608), (422, 19710), (438, 19845), (442, 19869), (447, 19923), (452, 19992), (456, 20037), (457, 20040),

Gene: Daenerys_18 Start: 17400, Stop: 19937, Start Num: 21

Candidate Starts for Daenerys_18:

(18, 17388), (Start: 21 @17400 has 242 MA's), (28, 17421), (Start: 35 @17442 has 1 MA's), (41, 17481), (64, 17550), (65, 17559), (66, 17562), (73, 17580), (83, 17628), (94, 17676), (120, 17787), (121, 17790), (135, 17835), (145, 17913), (149, 17937), (Start: 161 @18003 has 1 MA's), (168, 18048), (171, 18078), (172, 18084), (174, 18102), (181, 18126), (183, 18135), (189, 18168), (191, 18174), (196, 18204), (205, 18243), (206, 18255), (208, 18264), (212, 18279), (213, 18282), (234, 18393), (235, 18396), (236, 18405), (237, 18411), (240, 18426), (241, 18429), (243, 18450), (250, 18480), (252, 18492), (254, 18525), (272, 18636), (273, 18639), (279, 18666), (282, 18672), (290, 18726), (291, 18729), (310, 18831), (313, 18843), (314, 18846), (327, 18912), (330, 18936), (332, 18957), (334, 18966), (344, 19026), (345, 19029), (351, 19065), (352, 19083), (356, 19104), (360, 19131), (374, 19200), (376, 19218), (378, 19227), (379, 19239), (382, 19275), (391, 19326), (394, 19344), (402, 19386), (408, 19440), (422, 19542), (438, 19677), (442, 19701), (447, 19755), (452, 19824), (456, 19869), (457, 19872),

Gene: Daikon_24 Start: 22021, Stop: 24417, Start Num: 45

Candidate Starts for Daikon_24:

(Start: 45 @22021 has 134 MA's), (92, 22198), (96, 22219), (139, 22366), (163, 22507), (167, 22540), (171, 22573), (176, 22609), (196, 22702), (208, 22762), (213, 22780), (242, 22936), (245, 22957), (262, 23077), (265, 23089), (272, 23134), (310, 23329), (314, 23344), (321, 23389), (325, 23404), (351, 23560), (352, 23578), (354, 23587), (376, 23716), (377, 23719), (407, 23929), (409, 23941), (427, 24055), (450, 24271), (457, 24355), (462, 24379), (464, 24388),

Gene: Damien_29 Start: 25682, Stop: 28525, Start Num: 4

Candidate Starts for Damien_29:

(Start: 4 @25682 has 10 MA's), (9, 25814), (10, 25826), (12, 25835), (Start: 22 @25904 has 1 MA's), (24, 25910), (37, 25970), (40, 25991), (51, 26039), (63, 26081), (68, 26105), (77, 26138), (85, 26174), (89, 26186), (107, 26279), (121, 26336), (133, 26375), (151, 26501), (163, 26570), (166, 26600), (172, 26642), (183, 26693), (202, 26783), (205, 26801), (219, 26882), (227, 26921), (232, 26942), (254, 27080), (258, 27119), (271, 27182), (291, 27284), (331, 27509), (387, 27872), (392, 27899), (431, 28142), (436, 28175), (439, 28199), (450, 28319), (458, 28397), (470, 28484), (471, 28499), (472, 28505),

Gene: Dante_18 Start: 17416, Stop: 19953, Start Num: 21

Candidate Starts for Dante_18:

(18, 17404), (Start: 21 @17416 has 242 MA's), (28, 17437), (Start: 35 @17458 has 1 MA's), (41, 17497), (64, 17566), (65, 17575), (66, 17578), (73, 17596), (80, 17629), (83, 17644), (94, 17692), (117, 17797), (120, 17803), (121, 17806), (134, 17848), (135, 17851), (145, 17929), (149, 17953), (Start: 161 @18019 has 1 MA's), (168, 18064), (171, 18094), (172, 18100), (174, 18118), (181, 18142), (183, 18151), (189, 18184), (191, 18190), (196, 18220), (205, 18259), (206, 18271), (208, 18280), (212, 18295), (213, 18298), (234, 18409), (235, 18412), (236, 18421), (237, 18427), (240, 18442), (241, 18445), (243, 18466), (250, 18496), (254, 18541), (272, 18652), (273, 18655), (279, 18682), (282, 18688), (290, 18742), (291, 18745), (310, 18847), (313, 18859), (314, 18862), (327, 18928), (330, 18952), (332, 18973), (334, 18982), (344, 19042), (345, 19045), (351, 19081), (352, 19099), (355, 19111), (356, 19120), (360, 19147), (374, 19216), (376, 19234), (378, 19243), (379, 19255), (382, 19291), (386, 19321), (391, 19342), (396, 19366), (402, 19402), (408, 19456), (416, 19516), (422, 19558), (430, 19636), (438, 19693), (442, 19717), (447, 19771), (450, 19819), (454, 19861), (456, 19885), (457, 19888),

Gene: DeadP_18 Start: 17430, Stop: 19967, Start Num: 21

Candidate Starts for DeadP_18:

(18, 17418), (Start: 21 @17430 has 242 MA's), (28, 17451), (Start: 35 @17472 has 1 MA's), (41, 17511), (64, 17580), (65, 17589), (66, 17592), (73, 17610), (80, 17643), (83, 17658), (94, 17706), (117, 17811), (120, 17817), (121, 17820), (134, 17862), (135, 17865), (145, 17943), (Start: 161 @18033 has

1 MA's), (168, 18078), (171, 18108), (172, 18114), (174, 18132), (181, 18156), (183, 18165), (189, 18198), (191, 18204), (196, 18234), (205, 18273), (206, 18285), (208, 18294), (212, 18309), (213, 18312), (234, 18423), (235, 18426), (236, 18435), (237, 18441), (240, 18456), (241, 18459), (243, 18480), (250, 18510), (252, 18522), (254, 18555), (272, 18666), (273, 18669), (279, 18696), (282, 18702), (290, 18756), (291, 18759), (308, 18846), (310, 18861), (313, 18873), (314, 18876), (327, 18942), (330, 18966), (332, 18987), (334, 18996), (344, 19056), (345, 19059), (351, 19095), (352, 19113), (355, 19125), (356, 19134), (360, 19161), (374, 19230), (376, 19248), (378, 19257), (379, 19269), (382, 19305), (386, 19335), (391, 19356), (396, 19380), (402, 19416), (408, 19470), (416, 19530), (422, 19572), (438, 19707), (442, 19731), (447, 19785), (450, 19833), (454, 19875), (456, 19899), (457, 19902),

Gene: Deb65_18 Start: 17397, Stop: 19934, Start Num: 21

Candidate Starts for Deb65_18:

(Start: 21 @17397 has 242 MA's), (28, 17418), (Start: 35 @17439 has 1 MA's), (41, 17478), (64, 17547), (65, 17556), (66, 17559), (73, 17577), (83, 17625), (94, 17673), (120, 17784), (121, 17787), (135, 17832), (145, 17910), (149, 17934), (Start: 161 @18000 has 1 MA's), (171, 18075), (172, 18081), (174, 18099), (181, 18123), (183, 18132), (189, 18165), (191, 18171), (196, 18201), (202, 18222), (206, 18252), (208, 18261), (229, 18369), (232, 18381), (234, 18390), (235, 18393), (237, 18408), (240, 18423), (241, 18426), (243, 18447), (252, 18489), (254, 18522), (272, 18633), (273, 18636), (279, 18663), (282, 18669), (290, 18723), (291, 18726), (296, 18753), (310, 18828), (313, 18840), (314, 18843), (327, 18909), (329, 18930), (330, 18933), (332, 18954), (334, 18963), (341, 19005), (344, 19023), (345, 19026), (349, 19056), (352, 19080), (355, 19092), (356, 19101), (374, 19197), (376, 19215), (378, 19224), (379, 19236), (382, 19272), (386, 19302), (390, 19311), (391, 19323), (402, 19383), (408, 19437), (416, 19497), (422, 19539), (438, 19674), (442, 19698), (447, 19752), (450, 19800), (454, 19842), (456, 19866), (457, 19869),

Gene: Delton_30 Start: 24328, Stop: 26598, Start Num: 91

Candidate Starts for Delton_30:

(Start: 91 @24328 has 22 MA's), (118, 24463), (122, 24472), (152, 24646), (153, 24652), (154, 24664), (181, 24817), (185, 24832), (188, 24847), (260, 25228), (261, 25234), (268, 25279), (288, 25366), (324, 25567), (326, 25573), (332, 25621), (336, 25651), (340, 25675), (366, 25864), (373, 25891), (379, 25939), (389, 26011), (396, 26050), (397, 26071), (400, 26086), (403, 26104), (405, 26134), (417, 26218), (446, 26419), (450, 26461), (468, 26587),

Gene: Demsculpinboyz_24 Start: 17086, Stop: 19635, Start Num: 13

Candidate Starts for Demsculpinboyz_24:

(11, 17077), (Start: 13 @17086 has 7 MA's), (Start: 21 @17146 has 242 MA's), (30, 17179), (31, 17182), (50, 17251), (59, 17281), (106, 17461), (112, 17476), (121, 17512), (123, 17518), (131, 17539), (137, 17563), (141, 17587), (165, 17734), (168, 17743), (171, 17767), (174, 17791), (181, 17815), (182, 17821), (187, 17842), (191, 17863), (196, 17893), (203, 17923), (206, 17944), (225, 18037), (227, 18052), (229, 18061), (231, 18070), (234, 18082), (235, 18085), (250, 18169), (251, 18172), (252, 18181), (253, 18208), (255, 18217), (259, 18256), (263, 18277), (265, 18280), (271, 18316), (275, 18337), (290, 18415), (291, 18418), (313, 18532), (328, 18619), (330, 18625), (332, 18646), (339, 18682), (348, 18736), (349, 18745), (359, 18823), (363, 18841), (369, 18877), (370, 18880), (374, 18898), (376, 18916), (382, 18973), (384, 18985), (396, 19048), (402, 19081), (411, 19168), (419, 19216), (421, 19240), (427, 19276), (429, 19315), (434, 19354), (438, 19378), (441, 19399), (450, 19495), (452, 19516), (458, 19576), (460, 19579), (464, 19606),

Gene: DillTech15_18 Start: 17434, Stop: 19971, Start Num: 21

Candidate Starts for DillTech15_18:

(Start: 21 @17434 has 242 MA's), (28, 17455), (Start: 35 @17476 has 1 MA's), (41, 17515), (64, 17584), (65, 17593), (66, 17596), (73, 17614), (80, 17647), (83, 17662), (117, 17815), (121, 17824), (135, 17869), (148, 17968), (149, 17971), (Start: 161 @18037 has 1 MA's), (168, 18082), (171, 18112),

(172, 18118), (174, 18136), (181, 18160), (182, 18166), (183, 18169), (189, 18202), (191, 18208), (196, 18238), (205, 18277), (206, 18289), (208, 18298), (212, 18313), (213, 18316), (234, 18427), (235, 18430), (236, 18439), (237, 18445), (240, 18460), (241, 18463), (243, 18484), (250, 18514), (252, 18526), (254, 18559), (272, 18670), (273, 18673), (279, 18700), (282, 18706), (290, 18760), (291, 18763), (308, 18850), (310, 18865), (313, 18877), (314, 18880), (327, 18946), (330, 18970), (332, 18991), (334, 19000), (344, 19060), (345, 19063), (351, 19099), (352, 19117), (355, 19129), (356, 19138), (360, 19165), (374, 19234), (376, 19252), (378, 19261), (379, 19273), (382, 19309), (386, 19339), (390, 19348), (391, 19360), (396, 19384), (402, 19420), (408, 19474), (416, 19534), (422, 19576), (438, 19711), (442, 19735), (447, 19789), (450, 19837), (454, 19879), (456, 19903), (457, 19906),

Gene: DirtMcgirt_19 Start: 17221, Stop: 19758, Start Num: 21

Candidate Starts for DirtMcgirt_19:

(18, 17209), (Start: 21 @17221 has 242 MA's), (28, 17242), (Start: 35 @17263 has 1 MA's), (41, 17302), (64, 17371), (65, 17380), (66, 17383), (73, 17401), (80, 17434), (83, 17449), (94, 17497), (117, 17602), (121, 17611), (134, 17653), (135, 17656), (145, 17734), (149, 17758), (Start: 161 @17824 has 1 MA's), (168, 17869), (171, 17899), (172, 17905), (174, 17923), (181, 17947), (183, 17956), (189, 17989), (191, 17995), (196, 18025), (205, 18064), (206, 18076), (208, 18085), (212, 18100), (213, 18103), (234, 18214), (236, 18226), (237, 18232), (240, 18247), (241, 18250), (243, 18271), (250, 18301), (252, 18313), (254, 18346), (272, 18457), (273, 18460), (279, 18487), (282, 18493), (290, 18547), (291, 18550), (296, 18577), (310, 18652), (313, 18664), (314, 18667), (327, 18733), (330, 18757), (334, 18787), (341, 18829), (344, 18847), (345, 18850), (351, 18886), (352, 18904), (356, 18925), (360, 18952), (374, 19021), (376, 19039), (378, 19048), (379, 19060), (382, 19096), (386, 19126), (390, 19135), (391, 19147), (402, 19207), (408, 19261), (416, 19321), (422, 19363), (430, 19441), (438, 19498), (442, 19522), (447, 19576), (450, 19624), (454, 19666), (456, 19690), (457, 19693),

Gene: DmpstrDiver_37 Start: 30383, Stop: 32890, Start Num: 21

Candidate Starts for DmpstrDiver_37:

(15, 30326), (Start: 21 @30383 has 242 MA's), (73, 30578), (80, 30614), (83, 30629), (94, 30677), (112, 30731), (121, 30767), (123, 30773), (124, 30776), (131, 30794), (134, 30806), (137, 30818), (142, 30845), (157, 30950), (165, 30989), (168, 30998), (171, 31022), (172, 31028), (174, 31046), (178, 31064), (183, 31079), (186, 31088), (187, 31097), (189, 31112), (195, 31139), (196, 31148), (205, 31187), (206, 31199), (208, 31208), (225, 31292), (241, 31373), (245, 31403), (246, 31406), (252, 31436), (253, 31463), (255, 31472), (262, 31523), (263, 31532), (265, 31535), (271, 31571), (275, 31592), (285, 31628), (311, 31781), (321, 31835), (330, 31880), (331, 31898), (332, 31901), (339, 31940), (359, 32087), (362, 32096), (375, 32165), (376, 32180), (402, 32345), (411, 32432), (419, 32480), (427, 32531), (434, 32609), (458, 32831), (460, 32834), (464, 32861),

Gene: DoRead_18 Start: 17366, Stop: 19891, Start Num: 21

Candidate Starts for DoRead_18:

(Start: 21 @17366 has 242 MA's), (28, 17387), (47, 17456), (64, 17516), (65, 17525), (66, 17528), (73, 17546), (83, 17594), (94, 17642), (120, 17753), (121, 17756), (127, 17777), (132, 17789), (135, 17801), (145, 17879), (155, 17945), (163, 17978), (169, 18032), (171, 18044), (181, 18092), (182, 18098), (183, 18101), (186, 18110), (192, 18143), (200, 18182), (202, 18185), (204, 18200), (209, 18230), (210, 18236), (212, 18239), (213, 18242), (217, 18269), (220, 18287), (221, 18290), (231, 18341), (232, 18344), (236, 18365), (237, 18371), (238, 18374), (240, 18386), (241, 18389), (244, 18416), (250, 18440), (252, 18452), (262, 18539), (273, 18602), (275, 18611), (280, 18635), (302, 18740), (303, 18743), (310, 18794), (311, 18800), (313, 18806), (314, 18809), (321, 18854), (325, 18869), (329, 18896), (332, 18920), (334, 18929), (344, 18989), (345, 18992), (346, 19004), (352, 19046), (355, 19058), (362, 19100), (383, 19244), (394, 19307), (404, 19382), (432, 19583), (453, 19793), (459, 19832), (460, 19835),

Gene: DocMcStuffins_19 Start: 17271, Stop: 19796, Start Num: 21

Candidate Starts for DocMcStuffins_19:

(Start: 21 @17271 has 242 MA's), (28, 17292), (Start: 35 @17313 has 1 MA's), (41, 17352), (64, 17421), (65, 17430), (66, 17433), (73, 17451), (80, 17484), (83, 17499), (94, 17547), (120, 17658), (121, 17661), (135, 17706), (145, 17784), (149, 17808), (Start: 161 @17874 has 1 MA's), (163, 17883), (171, 17949), (172, 17955), (174, 17973), (181, 17997), (182, 18003), (183, 18006), (189, 18039), (191, 18045), (196, 18075), (202, 18096), (208, 18135), (212, 18150), (214, 18156), (241, 18300), (250, 18351), (264, 18462), (273, 18513), (278, 18537), (296, 18630), (305, 18675), (307, 18684), (310, 18705), (313, 18717), (314, 18720), (321, 18765), (330, 18810), (331, 18828), (332, 18831), (341, 18882), (349, 18933), (351, 18939), (352, 18957), (355, 18969), (356, 18978), (362, 19011), (376, 19092), (384, 19161), (390, 19188), (393, 19215), (403, 19266), (408, 19314), (441, 19557), (450, 19662), (452, 19683), (459, 19737), (463, 19761),

Gene: DoctorDiddles_26 Start: 21446, Stop: 23842, Start Num: 45

Candidate Starts for DoctorDiddles_26:

(Start: 45 @21446 has 134 MA's), (92, 21623), (96, 21644), (139, 21791), (167, 21965), (171, 21998), (176, 22034), (196, 22127), (208, 22187), (213, 22205), (238, 22337), (245, 22382), (265, 22514), (272, 22559), (287, 22619), (307, 22733), (310, 22754), (318, 22793), (321, 22814), (325, 22829), (349, 22979), (351, 22985), (352, 23003), (362, 23057), (376, 23141), (390, 23234), (427, 23480), (450, 23696), (457, 23780), (464, 23813),

Gene: Donkeykong_18 Start: 17574, Stop: 20111, Start Num: 21

Candidate Starts for Donkeykong_18:

(18, 17562), (Start: 21 @17574 has 242 MA's), (28, 17595), (Start: 35 @17616 has 1 MA's), (41, 17655), (64, 17724), (65, 17733), (66, 17736), (73, 17754), (80, 17787), (83, 17802), (94, 17850), (120, 17961), (121, 17964), (131, 17994), (134, 18006), (135, 18009), (145, 18087), (149, 18111), (Start: 161 @18177 has 1 MA's), (168, 18222), (171, 18252), (172, 18258), (174, 18276), (181, 18300), (183, 18309), (189, 18342), (191, 18348), (196, 18378), (205, 18417), (206, 18429), (208, 18438), (212, 18453), (213, 18456), (234, 18567), (235, 18570), (236, 18579), (237, 18585), (240, 18600), (241, 18603), (243, 18624), (250, 18654), (252, 18666), (254, 18699), (265, 18765), (272, 18810), (273, 18813), (279, 18840), (282, 18846), (290, 18900), (291, 18903), (310, 19005), (313, 19017), (314, 19020), (327, 19086), (330, 19110), (332, 19131), (334, 19140), (344, 19200), (345, 19203), (351, 19239), (352, 19257), (355, 19269), (356, 19278), (360, 19305), (374, 19374), (376, 19392), (378, 19401), (379, 19413), (382, 19449), (386, 19479), (391, 19500), (396, 19524), (402, 19560), (408, 19614), (416, 19674), (422, 19716), (430, 19794), (438, 19851), (442, 19875), (447, 19929), (450, 19977), (454, 20019), (456, 20043), (457, 20046),

Gene: Doomphist_18 Start: 17534, Stop: 20071, Start Num: 21

Candidate Starts for Doomphist_18:

(Start: 21 @17534 has 242 MA's), (28, 17555), (Start: 35 @17576 has 1 MA's), (41, 17615), (64, 17684), (65, 17693), (66, 17696), (73, 17714), (83, 17762), (120, 17921), (121, 17924), (135, 17969), (145, 18047), (149, 18071), (Start: 161 @18137 has 1 MA's), (171, 18212), (172, 18218), (174, 18236), (181, 18260), (182, 18266), (183, 18269), (189, 18302), (191, 18308), (196, 18338), (202, 18359), (206, 18389), (208, 18398), (229, 18506), (232, 18518), (234, 18527), (235, 18530), (237, 18545), (240, 18560), (241, 18563), (243, 18584), (252, 18626), (254, 18659), (272, 18770), (273, 18773), (279, 18800), (282, 18806), (290, 18860), (291, 18863), (296, 18890), (310, 18965), (313, 18977), (314, 18980), (327, 19046), (329, 19067), (330, 19070), (332, 19091), (334, 19100), (344, 19160), (345, 19163), (351, 19199), (352, 19217), (355, 19229), (356, 19238), (360, 19265), (372, 19322), (374, 19334), (376, 19352), (378, 19361), (379, 19373), (382, 19409), (386, 19439), (390, 19448), (391, 19460), (402, 19520), (408, 19574), (416, 19634), (422, 19676), (438, 19811), (442, 19835), (447, 19889), (450, 19937), (454, 19979), (456, 20003), (457, 20006),

Gene: Doomslug_20 Start: 17255, Stop: 19792, Start Num: 21

Candidate Starts for Doomslug_20:

(18, 17243), (Start: 21 @17255 has 242 MA's), (28, 17276), (Start: 35 @17297 has 1 MA's), (41, 17336), (64, 17405), (65, 17414), (66, 17417), (73, 17435), (80, 17468), (83, 17483), (94, 17531), (120, 17642), (121, 17645), (131, 17675), (134, 17687), (135, 17690), (145, 17768), (149, 17792), (Start: 161 @17858 has 1 MA's), (168, 17903), (171, 17933), (172, 17939), (174, 17957), (181, 17981), (183, 17990), (189, 18023), (191, 18029), (196, 18059), (205, 18098), (206, 18110), (208, 18119), (212, 18134), (213, 18137), (234, 18248), (235, 18251), (236, 18260), (237, 18266), (240, 18281), (241, 18284), (243, 18305), (250, 18335), (252, 18347), (254, 18380), (272, 18491), (273, 18494), (279, 18521), (282, 18527), (290, 18581), (291, 18584), (308, 18671), (310, 18686), (313, 18698), (314, 18701), (327, 18767), (330, 18791), (332, 18812), (334, 18821), (344, 18881), (345, 18884), (351, 18920), (352, 18938), (355, 18950), (356, 18959), (360, 18986), (374, 19055), (376, 19073), (378, 19082), (379, 19094), (382, 19130), (386, 19160), (391, 19181), (396, 19205), (402, 19241), (408, 19295), (416, 19355), (422, 19397), (430, 19475), (438, 19532), (442, 19556), (447, 19610), (450, 19658), (454, 19700), (456, 19724), (457, 19727),

Gene: Dorothy_18 Start: 17358, Stop: 19895, Start Num: 21

Candidate Starts for Dorothy_18:

(18, 17346), (Start: 21 @17358 has 242 MA's), (28, 17379), (Start: 35 @17400 has 1 MA's), (41, 17439), (64, 17508), (65, 17517), (66, 17520), (73, 17538), (83, 17586), (94, 17634), (120, 17745), (121, 17748), (135, 17793), (145, 17871), (149, 17895), (Start: 161 @17961 has 1 MA's), (168, 18006), (171, 18036), (172, 18042), (174, 18060), (181, 18084), (183, 18093), (189, 18126), (191, 18132), (196, 18162), (205, 18201), (206, 18213), (208, 18222), (212, 18237), (213, 18240), (234, 18351), (235, 18354), (236, 18363), (237, 18369), (240, 18384), (241, 18387), (243, 18408), (250, 18438), (252, 18450), (254, 18483), (272, 18594), (273, 18597), (279, 18624), (282, 18630), (290, 18684), (291, 18687), (310, 18789), (313, 18801), (314, 18804), (327, 18870), (330, 18894), (332, 18915), (334, 18924), (344, 18984), (345, 18987), (351, 19023), (352, 19041), (356, 19062), (360, 19089), (374, 19158), (376, 19176), (378, 19185), (379, 19197), (382, 19233), (391, 19284), (394, 19302), (402, 19344), (408, 19398), (422, 19500), (438, 19635), (442, 19659), (447, 19713), (452, 19782), (456, 19827), (457, 19830),

Gene: DosHalletts_19 Start: 17327, Stop: 19879, Start Num: 21

Candidate Starts for DosHalletts_19:

(Start: 21 @17327 has 242 MA's), (47, 17417), (64, 17477), (65, 17486), (66, 17489), (73, 17507), (83, 17555), (93, 17600), (120, 17714), (121, 17717), (125, 17729), (132, 17750), (134, 17759), (135, 17762), (145, 17840), (155, 17906), (163, 17939), (168, 17975), (170, 17999), (182, 18059), (183, 18062), (187, 18080), (200, 18143), (202, 18146), (205, 18164), (208, 18185), (213, 18203), (217, 18230), (221, 18251), (227, 18284), (236, 18326), (237, 18332), (238, 18335), (241, 18350), (244, 18377), (245, 18380), (250, 18401), (252, 18413), (254, 18446), (269, 18539), (290, 18647), (293, 18671), (296, 18677), (301, 18695), (302, 18698), (305, 18722), (310, 18752), (316, 18776), (321, 18812), (322, 18818), (325, 18827), (329, 18854), (338, 18917), (341, 18941), (342, 18956), (349, 18998), (357, 19049), (375, 19145), (376, 19160), (378, 19169), (380, 19193), (390, 19256), (396, 19292), (436, 19598), (442, 19643), (450, 19745),

Gene: DotProduct_18 Start: 17408, Stop: 19939, Start Num: 21

Candidate Starts for DotProduct_18:

(18, 17396), (Start: 21 @17408 has 242 MA's), (28, 17429), (Start: 35 @17450 has 1 MA's), (41, 17489), (64, 17558), (65, 17567), (66, 17570), (73, 17588), (80, 17621), (83, 17636), (94, 17678), (120, 17789), (121, 17792), (133, 17825), (134, 17834), (135, 17837), (145, 17915), (Start: 161 @18005 has 1 MA's), (168, 18050), (171, 18080), (172, 18086), (174, 18104), (181, 18128), (183, 18137), (189, 18170), (191, 18176), (196, 18206), (206, 18257), (208, 18266), (212, 18281), (213, 18284), (234, 18395), (235, 18398), (236, 18407), (237, 18413), (240, 18428), (241, 18431), (243, 18452), (250, 18482), (252, 18494), (254, 18527), (272, 18638), (273, 18641), (282, 18674), (290, 18728), (291, 18731), (310, 18833), (313, 18845), (314, 18848), (327, 18914), (330, 18938), (332, 18959), (334,

18968), (344, 19028), (345, 19031), (351, 19067), (352, 19085), (355, 19097), (356, 19106), (360, 19133), (374, 19202), (376, 19220), (378, 19229), (379, 19241), (382, 19277), (386, 19307), (391, 19328), (396, 19352), (402, 19388), (408, 19442), (416, 19502), (422, 19544), (430, 19622), (438, 19679), (442, 19703), (447, 19757), (450, 19805), (454, 19847), (456, 19871), (457, 19874),

Gene: Doug_19 Start: 17950, Stop: 20487, Start Num: 21

Candidate Starts for Doug_19:

(18, 17938), (Start: 21 @17950 has 242 MA's), (28, 17971), (Start: 35 @17992 has 1 MA's), (41, 18031), (64, 18100), (65, 18109), (66, 18112), (73, 18130), (80, 18163), (83, 18178), (94, 18226), (117, 18331), (120, 18337), (121, 18340), (134, 18382), (135, 18385), (145, 18463), (Start: 161 @18553 has 1 MA's), (168, 18598), (171, 18628), (172, 18634), (174, 18652), (181, 18676), (183, 18685), (189, 18718), (191, 18724), (196, 18754), (205, 18793), (206, 18805), (208, 18814), (212, 18829), (213, 18832), (234, 18943), (235, 18946), (236, 18955), (237, 18961), (240, 18976), (241, 18979), (243, 19000), (250, 19030), (252, 19042), (254, 19075), (265, 19141), (272, 19186), (273, 19189), (279, 19216), (282, 19222), (290, 19276), (291, 19279), (308, 19366), (310, 19381), (313, 19393), (314, 19396), (327, 19462), (330, 19486), (332, 19507), (334, 19516), (344, 19576), (345, 19579), (351, 19615), (352, 19633), (355, 19645), (356, 19654), (360, 19681), (374, 19750), (376, 19768), (378, 19777), (379, 19789), (382, 19825), (386, 19855), (391, 19876), (396, 19900), (402, 19936), (408, 19990), (416, 20050), (422, 20092), (430, 20170), (438, 20227), (442, 20251), (447, 20305), (450, 20353), (456, 20419), (457, 20422),

Gene: DrDrey_27 Start: 22776, Stop: 25172, Start Num: 45

Candidate Starts for DrDrey_27:

(Start: 45 @22776 has 134 MA's), (92, 22953), (96, 22974), (139, 23121), (167, 23295), (171, 23328), (176, 23364), (196, 23457), (208, 23517), (213, 23535), (238, 23667), (245, 23712), (265, 23844), (272, 23889), (287, 23949), (307, 24063), (310, 24084), (318, 24123), (321, 24144), (325, 24159), (349, 24309), (351, 24315), (352, 24333), (362, 24387), (376, 24471), (390, 24564), (427, 24810), (450, 25026), (457, 25110), (464, 25143),

Gene: Drago_19 Start: 17219, Stop: 19756, Start Num: 21

Candidate Starts for Drago_19:

(18, 17207), (Start: 21 @17219 has 242 MA's), (28, 17240), (Start: 35 @17261 has 1 MA's), (41, 17300), (64, 17369), (65, 17378), (66, 17381), (73, 17399), (80, 17432), (83, 17447), (94, 17495), (117, 17600), (121, 17609), (134, 17651), (135, 17654), (145, 17732), (149, 17756), (Start: 161 @17822 has 1 MA's), (168, 17867), (171, 17897), (172, 17903), (174, 17921), (181, 17945), (183, 17954), (189, 17987), (191, 17993), (196, 18023), (205, 18062), (206, 18074), (208, 18083), (212, 18098), (213, 18101), (234, 18212), (236, 18224), (237, 18230), (240, 18245), (241, 18248), (243, 18269), (250, 18299), (252, 18311), (254, 18344), (265, 18410), (272, 18455), (273, 18458), (279, 18485), (282, 18491), (290, 18545), (291, 18548), (296, 18575), (310, 18650), (313, 18662), (314, 18665), (327, 18731), (330, 18755), (334, 18785), (341, 18827), (344, 18845), (345, 18848), (351, 18884), (352, 18902), (356, 18923), (360, 18950), (374, 19019), (376, 19037), (378, 19046), (379, 19058), (382, 19094), (386, 19124), (390, 19133), (391, 19145), (402, 19205), (408, 19259), (416, 19319), (422, 19361), (430, 19439), (438, 19496), (442, 19520), (447, 19574), (450, 19622), (454, 19664), (456, 19688), (457, 19691),

Gene: Duke13_36 Start: 29781, Stop: 32336, Start Num: 21

Candidate Starts for Duke13_36:

(14, 29724), (Start: 21 @29781 has 242 MA's), (73, 29976), (80, 30012), (83, 30027), (94, 30075), (120, 30186), (121, 30189), (135, 30234), (145, 30312), (149, 30336), (Start: 161 @30402 has 1 MA's), (168, 30447), (171, 30477), (172, 30483), (174, 30501), (181, 30525), (183, 30534), (189, 30567), (191, 30573), (196, 30603), (205, 30642), (206, 30654), (208, 30663), (212, 30678), (213, 30681), (234, 30792), (235, 30795), (236, 30804), (237, 30810), (240, 30825), (241, 30828), (243, 30849), (250, 30879), (252, 30891), (254, 30924), (272, 31035), (273, 31038), (279, 31065), (282, 31071),

(290, 31125), (291, 31128), (310, 31230), (313, 31242), (314, 31245), (327, 31311), (330, 31335), (332, 31356), (334, 31365), (344, 31425), (345, 31428), (351, 31464), (352, 31482), (356, 31503), (360, 31530), (374, 31599), (376, 31617), (378, 31626), (379, 31638), (382, 31674), (391, 31725), (394, 31743), (402, 31785), (408, 31839), (422, 31941), (438, 32076), (442, 32100), (447, 32154), (452, 32223), (456, 32268), (457, 32271),

Gene: Dumbo_26 Start: 21751, Stop: 24147, Start Num: 45

Candidate Starts for Dumbo_26:

(Start: 45 @21751 has 134 MA's), (92, 21928), (96, 21949), (139, 22096), (167, 22270), (171, 22303), (176, 22339), (196, 22432), (208, 22492), (213, 22510), (238, 22642), (245, 22687), (265, 22819), (272, 22864), (287, 22924), (307, 23038), (310, 23059), (318, 23098), (321, 23119), (325, 23134), (349, 23284), (351, 23290), (352, 23308), (362, 23362), (376, 23446), (390, 23539), (427, 23785), (450, 24001), (457, 24085), (464, 24118),

Gene: Dusk_25 Start: 21943, Stop: 24339, Start Num: 45

Candidate Starts for Dusk_25:

(Start: 45 @21943 has 134 MA's), (92, 22120), (96, 22141), (139, 22288), (163, 22429), (167, 22462), (171, 22495), (176, 22531), (196, 22624), (208, 22684), (213, 22702), (227, 22783), (265, 23011), (272, 23056), (310, 23251), (311, 23257), (314, 23266), (321, 23311), (325, 23326), (351, 23482), (352, 23500), (354, 23509), (363, 23563), (376, 23638), (377, 23641), (407, 23851), (409, 23863), (427, 23977), (450, 24193), (457, 24277), (462, 24301), (464, 24310),

Gene: Easy2Say_28 Start: 23534, Stop: 25930, Start Num: 45

Candidate Starts for Easy2Say_28:

(Start: 45 @23534 has 134 MA's), (92, 23711), (96, 23732), (139, 23879), (163, 24020), (167, 24053), (171, 24086), (176, 24122), (196, 24215), (208, 24275), (213, 24293), (238, 24425), (245, 24470), (265, 24602), (272, 24647), (287, 24707), (307, 24821), (310, 24842), (318, 24881), (321, 24902), (325, 24917), (349, 25067), (351, 25073), (352, 25091), (362, 25145), (376, 25229), (390, 25322), (427, 25568), (450, 25784), (457, 25868), (464, 25901),

Gene: Eish_18 Start: 17540, Stop: 20077, Start Num: 21

Candidate Starts for Eish_18:

(Start: 21 @17540 has 242 MA's), (28, 17561), (Start: 35 @17582 has 1 MA's), (41, 17621), (64, 17690), (65, 17699), (66, 17702), (73, 17720), (80, 17753), (83, 17768), (94, 17816), (117, 17921), (121, 17930), (135, 17975), (145, 18053), (149, 18077), (Start: 161 @18143 has 1 MA's), (171, 18218), (172, 18224), (174, 18242), (181, 18266), (182, 18272), (183, 18275), (189, 18308), (191, 18314), (196, 18344), (202, 18365), (206, 18395), (208, 18404), (229, 18512), (232, 18524), (234, 18533), (235, 18536), (236, 18545), (237, 18551), (240, 18566), (241, 18569), (243, 18590), (250, 18620), (252, 18632), (254, 18665), (255, 18668), (265, 18731), (279, 18806), (282, 18812), (290, 18866), (291, 18869), (296, 18896), (310, 18971), (313, 18983), (314, 18986), (327, 19052), (332, 19097), (334, 19106), (344, 19166), (345, 19169), (351, 19205), (352, 19223), (356, 19244), (374, 19340), (376, 19358), (378, 19367), (379, 19379), (382, 19415), (386, 19445), (402, 19526), (408, 19580), (422, 19682), (438, 19817), (442, 19841), (447, 19895), (450, 19943), (454, 19985), (456, 20009), (457, 20012),

Gene: EleanorGeorge_18 Start: 17568, Stop: 20105, Start Num: 21

Candidate Starts for EleanorGeorge_18:

(18, 17556), (Start: 21 @17568 has 242 MA's), (28, 17589), (Start: 35 @17610 has 1 MA's), (41, 17649), (64, 17718), (65, 17727), (66, 17730), (73, 17748), (80, 17781), (83, 17796), (94, 17844), (120, 17955), (121, 17958), (131, 17988), (134, 18000), (135, 18003), (145, 18081), (149, 18105), (Start: 161 @18171 has 1 MA's), (168, 18216), (171, 18246), (172, 18252), (174, 18270), (181, 18294), (183, 18303), (189, 18336), (191, 18342), (196, 18372), (205, 18411), (206, 18423), (208, 18432), (212, 18447), (213, 18450), (234, 18561), (235, 18564), (236, 18573), (237, 18579), (240, 18594), (241,

18597), (243, 18618), (250, 18648), (252, 18660), (254, 18693), (272, 18804), (273, 18807), (279, 18834), (282, 18840), (290, 18894), (291, 18897), (308, 18984), (310, 18999), (313, 19011), (314, 19014), (327, 19080), (330, 19104), (332, 19125), (334, 19134), (344, 19194), (345, 19197), (351, 19233), (352, 19251), (355, 19263), (356, 19272), (360, 19299), (374, 19368), (376, 19386), (378, 19395), (379, 19407), (382, 19443), (386, 19473), (391, 19494), (396, 19518), (402, 19554), (408, 19608), (416, 19668), (422, 19710), (430, 19788), (438, 19845), (442, 19869), (447, 19923), (450, 19971), (454, 20013), (456, 20037), (457, 20040),

Gene: Elite2014_25 Start: 21491, Stop: 23887, Start Num: 45

Candidate Starts for Elite2014_25:

(Start: 45 @21491 has 134 MA's), (92, 21668), (96, 21689), (139, 21836), (167, 22010), (171, 22043), (176, 22079), (196, 22172), (208, 22232), (213, 22250), (238, 22382), (245, 22427), (265, 22559), (272, 22604), (287, 22664), (307, 22778), (310, 22799), (318, 22838), (321, 22859), (325, 22874), (349, 23024), (351, 23030), (352, 23048), (362, 23102), (376, 23186), (390, 23279), (427, 23525), (450, 23741), (457, 23825), (464, 23858),

Gene: Elph10_27 Start: 21754, Stop: 24150, Start Num: 45

Candidate Starts for Elph10_27:

(Start: 45 @21754 has 134 MA's), (92, 21931), (96, 21952), (139, 22099), (167, 22273), (171, 22306), (176, 22342), (196, 22435), (208, 22495), (213, 22513), (238, 22645), (245, 22690), (265, 22822), (272, 22867), (287, 22927), (307, 23041), (310, 23062), (318, 23101), (321, 23122), (325, 23137), (349, 23287), (351, 23293), (352, 23311), (362, 23365), (376, 23449), (390, 23542), (427, 23788), (450, 24004), (457, 24088), (464, 24121),

Gene: EmiMonkey_18 Start: 17352, Stop: 19889, Start Num: 21

Candidate Starts for EmiMonkey_18:

(Start: 21 @17352 has 242 MA's), (28, 17373), (Start: 35 @17394 has 1 MA's), (41, 17433), (64, 17502), (65, 17511), (66, 17514), (73, 17532), (83, 17580), (117, 17733), (121, 17742), (135, 17787), (148, 17886), (149, 17889), (Start: 161 @17955 has 1 MA's), (171, 18030), (172, 18036), (174, 18054), (181, 18078), (182, 18084), (183, 18087), (189, 18120), (191, 18126), (196, 18156), (202, 18177), (206, 18207), (208, 18216), (212, 18231), (213, 18234), (234, 18345), (235, 18348), (236, 18357), (237, 18363), (240, 18378), (241, 18381), (243, 18402), (250, 18432), (252, 18444), (254, 18477), (272, 18588), (273, 18591), (279, 18618), (282, 18624), (290, 18678), (291, 18681), (310, 18783), (313, 18795), (314, 18798), (327, 18864), (330, 18888), (332, 18909), (334, 18918), (344, 18978), (345, 18981), (351, 19017), (352, 19035), (355, 19047), (356, 19056), (360, 19083), (372, 19140), (374, 19152), (376, 19170), (378, 19179), (379, 19191), (382, 19227), (386, 19257), (390, 19266), (391, 19278), (402, 19338), (408, 19392), (416, 19452), (422, 19494), (438, 19629), (442, 19653), (447, 19707), (450, 19755), (454, 19797), (456, 19821), (457, 19824),

Gene: Emma_18 Start: 17448, Stop: 19985, Start Num: 21

Candidate Starts for Emma_18:

(18, 17436), (Start: 21 @17448 has 242 MA's), (28, 17469), (Start: 35 @17490 has 1 MA's), (41, 17529), (64, 17598), (65, 17607), (66, 17610), (73, 17628), (80, 17661), (83, 17676), (94, 17724), (120, 17835), (121, 17838), (131, 17868), (135, 17883), (145, 17961), (149, 17985), (Start: 161 @18051 has 1 MA's), (168, 18096), (171, 18126), (172, 18132), (174, 18150), (181, 18174), (183, 18183), (189, 18216), (191, 18222), (196, 18252), (205, 18291), (206, 18303), (208, 18312), (212, 18327), (213, 18330), (234, 18441), (235, 18444), (236, 18453), (237, 18459), (240, 18474), (241, 18477), (243, 18498), (250, 18528), (252, 18540), (254, 18573), (265, 18639), (272, 18684), (273, 18687), (279, 18714), (282, 18720), (290, 18774), (291, 18777), (308, 18864), (310, 18879), (313, 18891), (314, 18894), (327, 18960), (330, 18984), (332, 19005), (334, 19014), (341, 19056), (344, 19074), (345, 19077), (351, 19113), (352, 19131), (355, 19143), (356, 19152), (360, 19179), (374, 19248), (376, 19266), (378, 19275), (379, 19287), (382, 19323), (386, 19353), (391, 19374), (396, 19398), (402, 19434), (408, 19488), (416, 19548), (422, 19590), (438, 19725), (442, 19749), (447, 19803), (450,

19851), (454, 19893), (456, 19917), (457, 19920),

Gene: Emmaloid_19 Start: 17189, Stop: 19726, Start Num: 21

Candidate Starts for Emmaloid_19:

(Start: 21 @17189 has 242 MA's), (28, 17210), (Start: 35 @17231 has 1 MA's), (41, 17270), (64, 17339), (65, 17348), (66, 17351), (73, 17369), (83, 17417), (117, 17570), (121, 17579), (135, 17624), (148, 17723), (149, 17726), (Start: 161 @17792 has 1 MA's), (171, 17867), (172, 17873), (174, 17891), (181, 17915), (182, 17921), (183, 17924), (189, 17957), (191, 17963), (196, 17993), (202, 18014), (206, 18044), (208, 18053), (212, 18068), (213, 18071), (234, 18182), (235, 18185), (236, 18194), (237, 18200), (240, 18215), (241, 18218), (243, 18239), (250, 18269), (252, 18281), (254, 18314), (272, 18425), (273, 18428), (279, 18455), (282, 18461), (290, 18515), (291, 18518), (310, 18620), (313, 18632), (314, 18635), (327, 18701), (330, 18725), (332, 18746), (334, 18755), (344, 18815), (345, 18818), (351, 18854), (352, 18872), (355, 18884), (356, 18893), (360, 18920), (372, 18977), (374, 18989), (376, 19007), (378, 19016), (379, 19028), (382, 19064), (386, 19094), (390, 19103), (391, 19115), (402, 19175), (408, 19229), (416, 19289), (422, 19331), (438, 19466), (442, 19490), (447, 19544), (450, 19592), (454, 19634), (456, 19658), (457, 19661),

Gene: Emmina_27 Start: 22115, Stop: 24511, Start Num: 45

Candidate Starts for Emmina_27:

(Start: 45 @22115 has 134 MA's), (92, 22292), (96, 22313), (139, 22460), (167, 22634), (171, 22667), (176, 22703), (196, 22796), (208, 22856), (213, 22874), (238, 23006), (245, 23051), (265, 23183), (272, 23228), (287, 23288), (307, 23402), (310, 23423), (318, 23462), (321, 23483), (325, 23498), (349, 23648), (351, 23654), (352, 23672), (362, 23726), (376, 23810), (390, 23903), (427, 24149), (450, 24365), (457, 24449), (464, 24482),

Gene: Empress_19 Start: 18749, Stop: 21286, Start Num: 21

Candidate Starts for Empress_19:

(18, 18737), (Start: 21 @18749 has 242 MA's), (28, 18770), (Start: 35 @18791 has 1 MA's), (41, 18830), (64, 18899), (65, 18908), (66, 18911), (73, 18929), (83, 18977), (94, 19025), (120, 19136), (121, 19139), (135, 19184), (145, 19262), (149, 19286), (Start: 161 @19352 has 1 MA's), (168, 19397), (171, 19427), (172, 19433), (174, 19451), (181, 19475), (183, 19484), (189, 19517), (191, 19523), (196, 19553), (205, 19592), (206, 19604), (208, 19613), (212, 19628), (213, 19631), (234, 19742), (235, 19745), (236, 19754), (237, 19760), (240, 19775), (241, 19778), (243, 19799), (250, 19829), (252, 19841), (254, 19874), (272, 19985), (273, 19988), (279, 20015), (282, 20021), (290, 20075), (291, 20078), (310, 20180), (313, 20192), (314, 20195), (327, 20261), (330, 20285), (332, 20306), (334, 20315), (344, 20375), (345, 20378), (351, 20414), (352, 20432), (356, 20453), (360, 20480), (372, 20537), (374, 20549), (376, 20567), (378, 20576), (379, 20588), (382, 20624), (386, 20654), (390, 20663), (391, 20675), (402, 20735), (408, 20789), (416, 20849), (422, 20891), (438, 21026), (442, 21050), (447, 21104), (450, 21152), (452, 21173), (456, 21218), (457, 21221),

Gene: Enby_19 Start: 17219, Stop: 19756, Start Num: 21

Candidate Starts for Enby_19:

(18, 17207), (Start: 21 @17219 has 242 MA's), (28, 17240), (Start: 35 @17261 has 1 MA's), (41, 17300), (64, 17369), (65, 17378), (66, 17381), (73, 17399), (80, 17432), (83, 17447), (94, 17495), (117, 17600), (121, 17609), (134, 17651), (135, 17654), (145, 17732), (149, 17756), (Start: 161 @17822 has 1 MA's), (168, 17867), (171, 17897), (172, 17903), (174, 17921), (181, 17945), (183, 17954), (189, 17987), (191, 17993), (196, 18023), (205, 18062), (206, 18074), (208, 18083), (212, 18098), (213, 18101), (234, 18212), (236, 18224), (237, 18230), (240, 18245), (241, 18248), (243, 18269), (250, 18299), (252, 18311), (254, 18344), (265, 18410), (272, 18455), (273, 18458), (279, 18485), (282, 18491), (290, 18545), (291, 18548), (296, 18575), (310, 18650), (313, 18662), (314, 18665), (327, 18731), (330, 18755), (334, 18785), (341, 18827), (344, 18845), (345, 18848), (351, 18884), (352, 18902), (356, 18923), (360, 18950), (374, 19019), (376, 19037), (378, 19046), (379, 19058), (382, 19094), (386, 19124), (390, 19133), (391, 19145), (402, 19205), (408, 19259), (416, 19319), (422,

19361), (430, 19439), (438, 19496), (442, 19520), (447, 19574), (450, 19622), (454, 19664), (456, 19688), (457, 19691),

Gene: EniyanLRS_40 Start: 28045, Stop: 30612, Start Num: 20

Candidate Starts for EniyanLRS_40:

(Start: 20 @28045 has 6 MA's), (36, 28114), (69, 28237), (72, 28243), (73, 28246), (78, 28270), (82, 28291), (116, 28447), (119, 28453), (121, 28459), (130, 28489), (131, 28495), (135, 28516), (136, 28525), (144, 28585), (156, 28663), (172, 28762), (177, 28795), (182, 28810), (183, 28813), (191, 28852), (202, 28903), (205, 28921), (208, 28942), (209, 28948), (219, 29002), (234, 29071), (239, 29095), (242, 29116), (245, 29137), (247, 29146), (252, 29167), (254, 29200), (255, 29203), (262, 29254), (265, 29266), (277, 29332), (283, 29350), (289, 29389), (310, 29506), (319, 29551), (329, 29608), (332, 29632), (334, 29641), (337, 29659), (344, 29704), (349, 29737), (353, 29773), (381, 29947), (382, 29965), (383, 29971), (393, 30028), (437, 30352), (440, 30370), (445, 30421), (451, 30484), (456, 30559),

Gene: Enzomatic_20 Start: 17446, Stop: 19983, Start Num: 21

Candidate Starts for Enzomatic_20:

(Start: 21 @17446 has 242 MA's), (28, 17467), (Start: 35 @17488 has 1 MA's), (40, 17524), (41, 17527), (64, 17596), (65, 17605), (66, 17608), (73, 17626), (80, 17659), (83, 17674), (94, 17722), (117, 17827), (120, 17833), (121, 17836), (134, 17878), (135, 17881), (149, 17983), (Start: 161 @18049 has 1 MA's), (168, 18094), (171, 18124), (172, 18130), (174, 18148), (181, 18172), (183, 18181), (189, 18214), (191, 18220), (202, 18271), (205, 18289), (206, 18301), (208, 18310), (212, 18325), (214, 18331), (234, 18439), (236, 18451), (237, 18457), (240, 18472), (241, 18475), (243, 18496), (250, 18526), (252, 18538), (254, 18571), (265, 18637), (272, 18682), (273, 18685), (279, 18712), (282, 18718), (290, 18772), (291, 18775), (308, 18862), (310, 18877), (313, 18889), (314, 18892), (327, 18958), (332, 19003), (334, 19012), (344, 19072), (345, 19075), (351, 19111), (352, 19129), (355, 19141), (356, 19150), (360, 19177), (374, 19246), (376, 19264), (378, 19273), (379, 19285), (382, 19321), (386, 19351), (391, 19372), (396, 19396), (402, 19432), (408, 19486), (416, 19546), (422, 19588), (430, 19666), (438, 19723), (442, 19747), (447, 19801), (450, 19849), (454, 19891), (456, 19915), (457, 19918),

Gene: Eradicator_18 Start: 17363, Stop: 19915, Start Num: 21

Candidate Starts for Eradicator_18:

(Start: 21 @17363 has 242 MA's), (28, 17384), (47, 17453), (64, 17513), (65, 17522), (66, 17525), (80, 17576), (83, 17591), (94, 17639), (120, 17750), (121, 17753), (132, 17786), (134, 17795), (135, 17798), (145, 17876), (155, 17942), (163, 17975), (169, 18029), (171, 18041), (181, 18089), (183, 18098), (186, 18107), (192, 18140), (202, 18182), (204, 18197), (209, 18227), (210, 18233), (212, 18236), (213, 18239), (217, 18266), (221, 18287), (227, 18320), (236, 18362), (237, 18368), (238, 18371), (240, 18383), (241, 18386), (244, 18413), (250, 18437), (252, 18449), (254, 18482), (257, 18503), (269, 18575), (273, 18596), (293, 18707), (301, 18731), (302, 18734), (305, 18758), (310, 18788), (316, 18812), (321, 18848), (322, 18854), (325, 18863), (338, 18953), (341, 18977), (342, 18992), (349, 19034), (351, 19040), (357, 19085), (375, 19181), (376, 19196), (378, 19205), (380, 19229), (390, 19292), (408, 19418), (436, 19634), (442, 19679), (450, 19781), (460, 19859),

Gene: Erk16_30 Start: 24319, Stop: 26589, Start Num: 91

Candidate Starts for Erk16_30:

(Start: 91 @24319 has 22 MA's), (118, 24454), (122, 24463), (152, 24637), (153, 24643), (154, 24655), (181, 24808), (185, 24823), (188, 24838), (260, 25219), (261, 25225), (268, 25270), (288, 25357), (324, 25558), (326, 25564), (332, 25612), (336, 25642), (340, 25666), (366, 25855), (373, 25882), (379, 25930), (389, 26002), (396, 26041), (397, 26062), (400, 26077), (403, 26095), (405, 26125), (417, 26209), (446, 26410), (450, 26452), (468, 26578),

Gene: Estave1_18 Start: 17517, Stop: 20006, Start Num: 21

Candidate Starts for Estave1_18:

(Start: 21 @17517 has 242 MA's), (28, 17538), (Start: 35 @17559 has 1 MA's), (43, 17598), (64, 17667), (65, 17676), (66, 17679), (73, 17697), (80, 17730), (83, 17745), (94, 17793), (112, 17847), (121, 17883), (124, 17892), (131, 17910), (134, 17922), (137, 17934), (141, 17958), (142, 17961), (165, 18105), (168, 18114), (171, 18138), (174, 18162), (181, 18186), (182, 18192), (187, 18213), (191, 18234), (196, 18264), (203, 18294), (206, 18315), (225, 18408), (227, 18423), (229, 18432), (234, 18453), (235, 18456), (250, 18540), (251, 18543), (252, 18552), (253, 18579), (255, 18588), (259, 18627), (263, 18648), (265, 18651), (271, 18687), (275, 18708), (290, 18786), (291, 18789), (304, 18843), (313, 18903), (330, 18996), (332, 19017), (339, 19053), (348, 19107), (349, 19116), (359, 19194), (363, 19212), (369, 19248), (370, 19251), (374, 19269), (375, 19272), (376, 19287), (382, 19344), (384, 19356), (402, 19452), (411, 19539), (419, 19587), (421, 19611), (425, 19638), (427, 19647), (429, 19686), (434, 19725), (438, 19749), (441, 19770), (450, 19866), (452, 19887), (460, 19950), (464, 19977), (467, 19986),

Gene: Eureka_26 Start: 22269, Stop: 24665, Start Num: 45

Candidate Starts for Eureka_26:

(Start: 45 @22269 has 134 MA's), (92, 22446), (96, 22467), (139, 22614), (163, 22755), (167, 22788), (171, 22821), (176, 22857), (196, 22950), (208, 23010), (213, 23028), (227, 23109), (265, 23337), (272, 23382), (310, 23577), (311, 23583), (314, 23592), (321, 23637), (325, 23652), (351, 23808), (352, 23826), (354, 23835), (363, 23889), (376, 23964), (377, 23967), (407, 24177), (409, 24189), (427, 24303), (450, 24519), (457, 24603), (462, 24627), (464, 24636),

Gene: FairyPath_26 Start: 22481, Stop: 24877, Start Num: 45

Candidate Starts for FairyPath_26:

(Start: 45 @22481 has 134 MA's), (92, 22658), (96, 22679), (139, 22826), (163, 22967), (167, 23000), (171, 23033), (176, 23069), (196, 23162), (208, 23222), (213, 23240), (242, 23396), (245, 23417), (262, 23537), (265, 23549), (272, 23594), (310, 23789), (311, 23795), (314, 23804), (321, 23849), (325, 23864), (351, 24020), (352, 24038), (354, 24047), (363, 24101), (376, 24176), (377, 24179), (407, 24389), (409, 24401), (427, 24515), (450, 24731), (457, 24815), (462, 24839), (464, 24848),

Gene: Fancypants_18 Start: 17408, Stop: 19945, Start Num: 21

Candidate Starts for Fancypants_18:

(18, 17396), (Start: 21 @17408 has 242 MA's), (28, 17429), (Start: 35 @17450 has 1 MA's), (41, 17489), (64, 17558), (65, 17567), (66, 17570), (73, 17588), (80, 17621), (83, 17636), (94, 17684), (120, 17795), (121, 17798), (131, 17828), (134, 17840), (135, 17843), (145, 17921), (149, 17945), (Start: 161 @18011 has 1 MA's), (168, 18056), (171, 18086), (172, 18092), (174, 18110), (181, 18134), (183, 18143), (189, 18176), (191, 18182), (196, 18212), (205, 18251), (206, 18263), (208, 18272), (212, 18287), (213, 18290), (234, 18401), (235, 18404), (236, 18413), (237, 18419), (240, 18434), (241, 18437), (243, 18458), (250, 18488), (252, 18500), (254, 18533), (272, 18644), (273, 18647), (279, 18674), (282, 18680), (290, 18734), (291, 18737), (310, 18839), (313, 18851), (314, 18854), (327, 18920), (330, 18944), (332, 18965), (334, 18974), (344, 19034), (345, 19037), (346, 19049), (351, 19073), (352, 19091), (355, 19103), (356, 19112), (360, 19139), (374, 19208), (376, 19226), (378, 19235), (379, 19247), (382, 19283), (386, 19313), (391, 19334), (396, 19358), (402, 19394), (408, 19448), (416, 19508), (422, 19550), (430, 19628), (438, 19685), (442, 19709), (447, 19763), (450, 19811), (454, 19853), (456, 19877), (457, 19880),

Gene: Fastidio_18 Start: 17365, Stop: 19902, Start Num: 21

Candidate Starts for Fastidio_18:

(18, 17353), (Start: 21 @17365 has 242 MA's), (28, 17386), (Start: 35 @17407 has 1 MA's), (41, 17446), (64, 17515), (65, 17524), (66, 17527), (73, 17545), (80, 17578), (83, 17593), (94, 17641), (120, 17752), (121, 17755), (131, 17785), (134, 17797), (135, 17800), (145, 17878), (149, 17902), (Start: 161 @17968 has 1 MA's), (168, 18013), (171, 18043), (172, 18049), (174, 18067), (181, 18091), (183, 18100), (189, 18133), (191, 18139), (196, 18169), (205, 18208), (206, 18220), (208, 18229), (212,

18244), (213, 18247), (234, 18358), (235, 18361), (236, 18370), (237, 18376), (240, 18391), (241, 18394), (243, 18415), (250, 18445), (252, 18457), (254, 18490), (272, 18601), (273, 18604), (279, 18631), (282, 18637), (290, 18691), (291, 18694), (308, 18781), (310, 18796), (313, 18808), (314, 18811), (327, 18877), (329, 18898), (330, 18901), (332, 18922), (341, 18973), (344, 18991), (345, 18994), (351, 19030), (352, 19048), (355, 19060), (356, 19069), (372, 19153), (374, 19165), (376, 19183), (378, 19192), (379, 19204), (382, 19240), (386, 19270), (396, 19315), (402, 19351), (408, 19405), (422, 19507), (430, 19585), (438, 19642), (442, 19666), (447, 19720), (450, 19768), (454, 19810), (456, 19834), (457, 19837),

Gene: Filch_27 Start: 22042, Stop: 24438, Start Num: 45

Candidate Starts for Filch_27:

(Start: 45 @22042 has 134 MA's), (92, 22219), (96, 22240), (139, 22387), (163, 22528), (167, 22561), (171, 22594), (176, 22630), (196, 22723), (208, 22783), (213, 22801), (238, 22933), (245, 22978), (265, 23110), (272, 23155), (287, 23215), (307, 23329), (310, 23350), (318, 23389), (321, 23410), (325, 23425), (349, 23575), (351, 23581), (352, 23599), (362, 23653), (376, 23737), (390, 23830), (427, 24076), (450, 24292), (457, 24376), (464, 24409),

Gene: Filuzino_18 Start: 17390, Stop: 19927, Start Num: 21

Candidate Starts for Filuzino_18:

(18, 17378), (Start: 21 @17390 has 242 MA's), (28, 17411), (Start: 35 @17432 has 1 MA's), (41, 17471), (64, 17540), (65, 17549), (66, 17552), (73, 17570), (80, 17603), (83, 17618), (94, 17666), (120, 17777), (121, 17780), (131, 17810), (135, 17825), (145, 17903), (149, 17927), (Start: 161 @17993 has 1 MA's), (168, 18038), (171, 18068), (172, 18074), (174, 18092), (181, 18116), (183, 18125), (189, 18158), (191, 18164), (196, 18194), (205, 18233), (206, 18245), (208, 18254), (212, 18269), (213, 18272), (234, 18383), (235, 18386), (236, 18395), (237, 18401), (240, 18416), (241, 18419), (243, 18440), (250, 18470), (252, 18482), (254, 18515), (272, 18626), (273, 18629), (279, 18656), (282, 18662), (290, 18716), (291, 18719), (310, 18821), (313, 18833), (314, 18836), (327, 18902), (330, 18926), (332, 18947), (334, 18956), (344, 19016), (345, 19019), (351, 19055), (352, 19073), (355, 19085), (356, 19094), (360, 19121), (374, 19190), (376, 19208), (378, 19217), (379, 19229), (382, 19265), (386, 19295), (391, 19316), (396, 19340), (402, 19376), (408, 19430), (416, 19490), (422, 19532), (430, 19610), (438, 19667), (442, 19691), (447, 19745), (450, 19793), (454, 19835), (456, 19859), (457, 19862),

Gene: FireRed_26 Start: 22312, Stop: 24708, Start Num: 45

Candidate Starts for FireRed_26:

(Start: 45 @22312 has 134 MA's), (92, 22489), (96, 22510), (139, 22657), (163, 22798), (167, 22831), (171, 22864), (176, 22900), (196, 22993), (208, 23053), (213, 23071), (238, 23203), (245, 23248), (265, 23380), (272, 23425), (287, 23485), (307, 23599), (310, 23620), (318, 23659), (321, 23680), (325, 23695), (349, 23845), (351, 23851), (352, 23869), (362, 23923), (376, 24007), (390, 24100), (427, 24346), (450, 24562), (457, 24646), (464, 24679),

Gene: Firehouse51_19 Start: 17957, Stop: 20494, Start Num: 21

Candidate Starts for Firehouse51_19:

(18, 17945), (Start: 21 @17957 has 242 MA's), (28, 17978), (Start: 35 @17999 has 1 MA's), (41, 18038), (64, 18107), (65, 18116), (66, 18119), (73, 18137), (80, 18170), (83, 18185), (94, 18233), (120, 18344), (121, 18347), (131, 18377), (134, 18389), (135, 18392), (145, 18470), (149, 18494), (Start: 161 @18560 has 1 MA's), (168, 18605), (171, 18635), (172, 18641), (174, 18659), (181, 18683), (183, 18692), (189, 18725), (191, 18731), (196, 18761), (205, 18800), (206, 18812), (208, 18821), (212, 18836), (213, 18839), (234, 18950), (235, 18953), (236, 18962), (237, 18968), (240, 18983), (241, 18986), (243, 19007), (250, 19037), (252, 19049), (254, 19082), (272, 19193), (273, 19196), (279, 19223), (282, 19229), (290, 19283), (291, 19286), (310, 19388), (313, 19400), (314, 19403), (327, 19469), (330, 19493), (332, 19514), (334, 19523), (344, 19583), (345, 19586), (351, 19622), (352, 19640), (355, 19652), (356, 19661), (360, 19688), (374, 19757), (376, 19775), (378, 19784), (379,

19796), (382, 19832), (386, 19862), (391, 19883), (396, 19907), (402, 19943), (408, 19997), (416, 20057), (422, 20099), (430, 20177), (438, 20234), (442, 20258), (447, 20312), (450, 20360), (454, 20402), (456, 20426), (457, 20429),

Gene: Flathead_19 Start: 17265, Stop: 19802, Start Num: 21

Candidate Starts for Flathead_19:

(18, 17253), (Start: 21 @17265 has 242 MA's), (28, 17286), (Start: 35 @17307 has 1 MA's), (41, 17346), (64, 17415), (65, 17424), (66, 17427), (73, 17445), (80, 17478), (83, 17493), (94, 17541), (120, 17652), (121, 17655), (131, 17685), (134, 17697), (135, 17700), (145, 17778), (149, 17802), (Start: 161 @17868 has 1 MA's), (168, 17913), (171, 17943), (172, 17949), (174, 17967), (181, 17991), (183, 18000), (189, 18033), (191, 18039), (196, 18069), (205, 18108), (206, 18120), (208, 18129), (212, 18144), (213, 18147), (234, 18258), (235, 18261), (236, 18270), (237, 18276), (240, 18291), (241, 18294), (243, 18315), (250, 18345), (252, 18357), (254, 18390), (265, 18456), (272, 18501), (273, 18504), (279, 18531), (282, 18537), (290, 18591), (291, 18594), (308, 18681), (310, 18696), (313, 18708), (314, 18711), (327, 18777), (330, 18801), (332, 18822), (334, 18831), (344, 18891), (345, 18894), (351, 18930), (352, 18948), (355, 18960), (356, 18969), (360, 18996), (374, 19065), (376, 19083), (378, 19092), (379, 19104), (382, 19140), (386, 19170), (391, 19191), (396, 19215), (402, 19251), (408, 19305), (416, 19365), (422, 19407), (438, 19542), (442, 19566), (447, 19620), (450, 19668), (454, 19710), (456, 19734), (457, 19737),

Gene: Florinda_18 Start: 17419, Stop: 19956, Start Num: 21

Candidate Starts for Florinda_18:

(Start: 21 @17419 has 242 MA's), (28, 17440), (Start: 35 @17461 has 1 MA's), (41, 17500), (64, 17569), (65, 17578), (66, 17581), (73, 17599), (80, 17632), (83, 17647), (94, 17695), (120, 17806), (121, 17809), (131, 17839), (135, 17854), (145, 17932), (149, 17956), (Start: 161 @18022 has 1 MA's), (168, 18067), (171, 18097), (172, 18103), (174, 18121), (181, 18145), (183, 18154), (189, 18187), (191, 18193), (196, 18223), (205, 18262), (208, 18283), (212, 18298), (213, 18301), (235, 18415), (236, 18424), (237, 18430), (241, 18448), (243, 18469), (250, 18499), (252, 18511), (254, 18544), (272, 18655), (273, 18658), (279, 18685), (282, 18691), (290, 18745), (291, 18748), (308, 18835), (310, 18850), (314, 18865), (330, 18955), (332, 18976), (334, 18985), (344, 19045), (345, 19048), (349, 19078), (352, 19102), (356, 19123), (374, 19219), (376, 19237), (378, 19246), (379, 19258), (382, 19294), (386, 19324), (391, 19345), (396, 19369), (402, 19405), (408, 19459), (416, 19519), (422, 19561), (430, 19639), (438, 19696), (442, 19720), (447, 19774), (450, 19822), (454, 19864), (456, 19888), (457, 19891),

Gene: Flypotenuse_24 Start: 21900, Stop: 24296, Start Num: 45

Candidate Starts for Flypotenuse_24:

(Start: 45 @21900 has 134 MA's), (92, 22077), (96, 22098), (139, 22245), (163, 22386), (167, 22419), (171, 22452), (176, 22488), (196, 22581), (208, 22641), (213, 22659), (238, 22791), (265, 22968), (272, 23013), (307, 23187), (310, 23208), (318, 23247), (321, 23268), (325, 23283), (351, 23439), (352, 23457), (362, 23511), (376, 23595), (424, 23919), (450, 24150), (457, 24234), (464, 24267),

Gene: FoghornLeghorn_25 Start: 21788, Stop: 24184, Start Num: 45

Candidate Starts for FoghornLeghorn_25:

(Start: 45 @21788 has 134 MA's), (92, 21965), (96, 21986), (139, 22133), (163, 22274), (167, 22307), (171, 22340), (176, 22376), (196, 22469), (208, 22529), (213, 22547), (238, 22679), (245, 22724), (265, 22856), (272, 22901), (307, 23075), (310, 23096), (318, 23135), (321, 23156), (325, 23171), (351, 23327), (352, 23345), (362, 23399), (376, 23483), (390, 23576), (427, 23822), (450, 24038), (457, 24122), (464, 24155),

Gene: Frankie_19 Start: 17503, Stop: 20040, Start Num: 21

Candidate Starts for Frankie_19:

(Start: 21 @17503 has 242 MA's), (28, 17524), (Start: 35 @17545 has 1 MA's), (41, 17584), (64, 17653), (65, 17662), (66, 17665), (73, 17683), (80, 17716), (83, 17731), (94, 17779), (120, 17890), (121, 17893), (131, 17923), (135, 17938), (145, 18016), (149, 18040), (Start: 161 @18106 has 1 MA's), (168, 18151), (171, 18181), (172, 18187), (174, 18205), (181, 18229), (183, 18238), (189, 18271), (191, 18277), (196, 18307), (205, 18346), (208, 18367), (212, 18382), (214, 18388), (241, 18532), (243, 18553), (250, 18583), (252, 18595), (254, 18628), (263, 18691), (265, 18694), (279, 18769), (282, 18775), (290, 18829), (291, 18832), (296, 18859), (299, 18868), (310, 18934), (313, 18946), (314, 18949), (327, 19015), (329, 19036), (330, 19039), (332, 19060), (341, 19111), (344, 19129), (345, 19132), (349, 19162), (352, 19186), (356, 19207), (362, 19240), (374, 19303), (376, 19321), (378, 19330), (379, 19342), (386, 19408), (390, 19417), (391, 19429), (416, 19603), (422, 19645), (430, 19723), (438, 19780), (442, 19804), (447, 19858), (450, 19906), (456, 19972), (457, 19975),

Gene: FreddyB_18 Start: 17407, Stop: 19959, Start Num: 21

Candidate Starts for FreddyB_18:

(Start: 21 @17407 has 242 MA's), (42, 17488), (64, 17557), (65, 17566), (66, 17569), (73, 17587), (83, 17635), (93, 17680), (120, 17794), (121, 17797), (125, 17809), (132, 17830), (134, 17839), (135, 17842), (142, 17890), (145, 17920), (155, 17986), (163, 18019), (168, 18055), (170, 18079), (182, 18139), (183, 18142), (187, 18160), (200, 18223), (202, 18226), (205, 18244), (208, 18265), (213, 18283), (217, 18310), (221, 18331), (227, 18364), (236, 18406), (237, 18412), (238, 18415), (241, 18430), (244, 18457), (250, 18481), (252, 18493), (254, 18526), (269, 18619), (290, 18727), (293, 18751), (301, 18775), (302, 18778), (305, 18802), (310, 18832), (316, 18856), (321, 18892), (322, 18898), (325, 18907), (329, 18934), (338, 18997), (341, 19021), (342, 19036), (349, 19078), (357, 19129), (375, 19225), (376, 19240), (378, 19249), (380, 19273), (390, 19336), (396, 19372), (436, 19678), (442, 19723), (450, 19825),

Gene: Fruitloop_18 Start: 17429, Stop: 19966, Start Num: 21

Candidate Starts for Fruitloop_18:

(18, 17417), (Start: 21 @17429 has 242 MA's), (28, 17450), (Start: 35 @17471 has 1 MA's), (41, 17510), (64, 17579), (65, 17588), (66, 17591), (73, 17609), (80, 17642), (83, 17657), (94, 17705), (120, 17816), (121, 17819), (131, 17849), (134, 17861), (135, 17864), (145, 17942), (149, 17966), (Start: 161 @18032 has 1 MA's), (168, 18077), (171, 18107), (172, 18113), (174, 18131), (181, 18155), (183, 18164), (189, 18197), (191, 18203), (196, 18233), (205, 18272), (206, 18284), (208, 18293), (212, 18308), (213, 18311), (234, 18422), (235, 18425), (236, 18434), (237, 18440), (240, 18455), (241, 18458), (243, 18479), (250, 18509), (252, 18521), (254, 18554), (272, 18665), (273, 18668), (279, 18695), (282, 18701), (290, 18755), (291, 18758), (308, 18845), (310, 18860), (313, 18872), (314, 18875), (327, 18941), (330, 18965), (332, 18986), (334, 18995), (344, 19055), (345, 19058), (351, 19094), (352, 19112), (355, 19124), (356, 19133), (360, 19160), (374, 19229), (376, 19247), (378, 19256), (379, 19268), (382, 19304), (386, 19334), (391, 19355), (396, 19379), (402, 19415), (408, 19469), (416, 19529), (422, 19571), (430, 19649), (438, 19706), (442, 19730), (447, 19784), (450, 19832), (454, 19874), (456, 19898), (457, 19901),

Gene: GUmbie_18 Start: 17402, Stop: 19939, Start Num: 21

Candidate Starts for GUmbie_18:

(Start: 21 @17402 has 242 MA's), (28, 17423), (Start: 35 @17444 has 1 MA's), (41, 17483), (64, 17552), (65, 17561), (66, 17564), (73, 17582), (80, 17615), (83, 17630), (117, 17783), (121, 17792), (135, 17837), (148, 17936), (149, 17939), (Start: 161 @18005 has 1 MA's), (171, 18080), (172, 18086), (181, 18128), (182, 18134), (183, 18137), (189, 18170), (191, 18176), (196, 18206), (202, 18227), (206, 18257), (208, 18266), (212, 18281), (213, 18284), (234, 18395), (235, 18398), (236, 18407), (237, 18413), (240, 18428), (241, 18431), (243, 18452), (250, 18482), (252, 18494), (254, 18527), (272, 18638), (273, 18641), (279, 18668), (282, 18674), (290, 18728), (291, 18731), (308, 18818), (310, 18833), (313, 18845), (314, 18848), (327, 18914), (330, 18938), (332, 18959), (334, 18968), (341, 19010), (344, 19028), (345, 19031), (349, 19061), (352, 19085), (355, 19097), (356, 19106), (374, 19202), (376, 19220), (378, 19229), (379, 19241), (382, 19277), (386, 19307), (390, 19316),

(391, 19328), (402, 19388), (408, 19442), (416, 19502), (422, 19544), (438, 19679), (442, 19703), (447, 19757), (450, 19805), (454, 19847), (456, 19871), (457, 19874),

Gene: Gage_28 Start: 22274, Stop: 24670, Start Num: 45

Candidate Starts for Gage_28:

(Start: 45 @22274 has 134 MA's), (92, 22451), (96, 22472), (139, 22619), (163, 22760), (167, 22793), (171, 22826), (176, 22862), (196, 22955), (208, 23015), (213, 23033), (238, 23165), (245, 23210), (265, 23342), (272, 23387), (287, 23447), (307, 23561), (310, 23582), (318, 23621), (321, 23642), (325, 23657), (349, 23807), (351, 23813), (352, 23831), (362, 23885), (376, 23969), (390, 24062), (427, 24308), (450, 24524), (457, 24608), (464, 24641),

Gene: Gaia_21 Start: 19931, Stop: 22501, Start Num: 17

Candidate Starts for Gaia_21:

(Start: 17 @19931 has 2 MA's), (34, 20021), (52, 20090), (54, 20099), (56, 20102), (74, 20156), (76, 20168), (90, 20216), (98, 20261), (115, 20333), (121, 20354), (127, 20375), (134, 20396), (135, 20399), (155, 20543), (163, 20576), (172, 20633), (183, 20684), (187, 20702), (206, 20798), (208, 20807), (209, 20813), (212, 20822), (213, 20825), (217, 20852), (221, 20873), (227, 20906), (229, 20915), (234, 20936), (236, 20948), (240, 20969), (250, 21023), (252, 21035), (254, 21068), (266, 21143), (271, 21170), (293, 21293), (302, 21320), (305, 21344), (310, 21374), (316, 21398), (322, 21440), (325, 21449), (342, 21578), (347, 21605), (355, 21656), (375, 21767), (376, 21782), (418, 22073), (438, 22241), (442, 22265), (454, 22409), (457, 22436), (459, 22442), (460, 22445),

Gene: Galactic_18 Start: 17394, Stop: 19931, Start Num: 21

Candidate Starts for Galactic_18:

(18, 17382), (Start: 21 @17394 has 242 MA's), (28, 17415), (Start: 35 @17436 has 1 MA's), (41, 17475), (64, 17544), (65, 17553), (66, 17556), (73, 17574), (80, 17607), (83, 17622), (94, 17670), (120, 17781), (121, 17784), (131, 17814), (135, 17829), (145, 17907), (149, 17931), (Start: 161 @17997 has 1 MA's), (168, 18042), (171, 18072), (172, 18078), (174, 18096), (181, 18120), (183, 18129), (189, 18162), (191, 18168), (196, 18198), (205, 18237), (206, 18249), (208, 18258), (212, 18273), (213, 18276), (234, 18387), (235, 18390), (236, 18399), (237, 18405), (240, 18420), (241, 18423), (243, 18444), (250, 18474), (252, 18486), (254, 18519), (272, 18630), (273, 18633), (279, 18660), (282, 18666), (290, 18720), (291, 18723), (310, 18825), (313, 18837), (314, 18840), (327, 18906), (330, 18930), (332, 18951), (334, 18960), (344, 19020), (345, 19023), (351, 19059), (352, 19077), (355, 19089), (356, 19098), (360, 19125), (374, 19194), (376, 19212), (378, 19221), (379, 19233), (382, 19269), (386, 19299), (391, 19320), (396, 19344), (402, 19380), (408, 19434), (416, 19494), (422, 19536), (430, 19614), (438, 19671), (442, 19695), (447, 19749), (450, 19797), (454, 19839), (456, 19863), (457, 19866),

Gene: Gandolph_18 Start: 17413, Stop: 19965, Start Num: 21

Candidate Starts for Gandolph_18:

(Start: 21 @17413 has 242 MA's), (42, 17494), (64, 17563), (65, 17572), (66, 17575), (73, 17593), (83, 17641), (93, 17686), (120, 17800), (121, 17803), (125, 17815), (132, 17836), (134, 17845), (135, 17848), (142, 17896), (145, 17926), (155, 17992), (163, 18025), (168, 18061), (170, 18085), (182, 18145), (183, 18148), (187, 18166), (200, 18229), (202, 18232), (205, 18250), (208, 18271), (213, 18289), (217, 18316), (221, 18337), (227, 18370), (236, 18412), (237, 18418), (238, 18421), (241, 18436), (244, 18463), (245, 18466), (250, 18487), (252, 18499), (254, 18532), (269, 18625), (290, 18733), (293, 18757), (296, 18763), (301, 18781), (302, 18784), (305, 18808), (310, 18838), (316, 18862), (321, 18898), (322, 18904), (325, 18913), (329, 18940), (338, 19003), (341, 19027), (342, 19042), (349, 19084), (357, 19135), (375, 19231), (376, 19246), (378, 19255), (380, 19279), (390, 19342), (396, 19378), (436, 19684), (442, 19729), (450, 19831),

Gene: Gator_24 Start: 21899, Stop: 24295, Start Num: 45

Candidate Starts for Gator_24:

(Start: 45 @21899 has 134 MA's), (92, 22076), (96, 22097), (139, 22244), (163, 22385), (167, 22418), (171, 22451), (176, 22487), (196, 22580), (208, 22640), (213, 22658), (227, 22739), (265, 22967), (272, 23012), (310, 23207), (311, 23213), (314, 23222), (321, 23267), (325, 23282), (351, 23438), (352, 23456), (354, 23465), (363, 23519), (376, 23594), (377, 23597), (407, 23807), (409, 23819), (427, 23933), (450, 24149), (457, 24233), (462, 24257), (464, 24266),

Gene: Gemini_29 Start: 22791, Stop: 25187, Start Num: 45

Candidate Starts for Gemini_29:

(Start: 45 @22791 has 134 MA's), (92, 22968), (96, 22989), (139, 23136), (163, 23277), (167, 23310), (171, 23343), (176, 23379), (196, 23472), (208, 23532), (213, 23550), (238, 23682), (245, 23727), (265, 23859), (272, 23904), (287, 23964), (307, 24078), (310, 24099), (318, 24138), (321, 24159), (325, 24174), (349, 24324), (351, 24330), (352, 24348), (362, 24402), (376, 24486), (390, 24579), (427, 24825), (450, 25041), (457, 25125), (464, 25158),

Gene: Geralt_18 Start: 17396, Stop: 19933, Start Num: 21

Candidate Starts for Geralt_18:

(Start: 21 @17396 has 242 MA's), (28, 17417), (Start: 35 @17438 has 1 MA's), (41, 17477), (64, 17546), (65, 17555), (66, 17558), (73, 17576), (83, 17624), (94, 17672), (120, 17783), (121, 17786), (135, 17831), (145, 17909), (149, 17933), (Start: 161 @17999 has 1 MA's), (171, 18074), (172, 18080), (174, 18098), (181, 18122), (183, 18131), (189, 18164), (191, 18170), (196, 18200), (202, 18221), (206, 18251), (208, 18260), (229, 18368), (232, 18380), (234, 18389), (235, 18392), (237, 18407), (240, 18422), (241, 18425), (243, 18446), (252, 18488), (254, 18521), (272, 18632), (273, 18635), (279, 18662), (282, 18668), (290, 18722), (291, 18725), (296, 18752), (310, 18827), (313, 18839), (314, 18842), (327, 18908), (329, 18929), (330, 18932), (332, 18953), (334, 18962), (341, 19004), (344, 19022), (345, 19025), (349, 19055), (352, 19079), (355, 19091), (356, 19100), (374, 19196), (376, 19214), (378, 19223), (379, 19235), (382, 19271), (386, 19301), (390, 19310), (391, 19322), (402, 19382), (408, 19436), (416, 19496), (422, 19538), (438, 19673), (442, 19697), (447, 19751), (450, 19799), (454, 19841), (456, 19865), (457, 19868),

Gene: GigiOuiOui_18 Start: 17527, Stop: 20064, Start Num: 21

Candidate Starts for GigiOuiOui_18:

(Start: 21 @17527 has 242 MA's), (28, 17548), (Start: 35 @17569 has 1 MA's), (41, 17608), (64, 17677), (65, 17686), (66, 17689), (73, 17707), (83, 17755), (117, 17908), (121, 17917), (135, 17962), (148, 18061), (149, 18064), (Start: 161 @18130 has 1 MA's), (171, 18205), (172, 18211), (174, 18229), (181, 18253), (182, 18259), (183, 18262), (189, 18295), (191, 18301), (196, 18331), (202, 18352), (206, 18382), (208, 18391), (212, 18406), (213, 18409), (234, 18520), (235, 18523), (236, 18532), (237, 18538), (240, 18553), (241, 18556), (243, 18577), (250, 18607), (252, 18619), (254, 18652), (272, 18763), (273, 18766), (279, 18793), (282, 18799), (290, 18853), (291, 18856), (310, 18958), (313, 18970), (314, 18973), (327, 19039), (330, 19063), (332, 19084), (334, 19093), (344, 19153), (345, 19156), (351, 19192), (352, 19210), (355, 19222), (356, 19231), (360, 19258), (372, 19315), (374, 19327), (376, 19345), (378, 19354), (379, 19366), (382, 19402), (386, 19432), (390, 19441), (391, 19453), (402, 19513), (408, 19567), (416, 19627), (422, 19669), (438, 19804), (442, 19828), (447, 19882), (450, 19930), (454, 19972), (456, 19996), (457, 19999),

Gene: Girafales_19 Start: 17227, Stop: 19764, Start Num: 21

Candidate Starts for Girafales_19:

(Start: 21 @17227 has 242 MA's), (28, 17248), (Start: 35 @17269 has 1 MA's), (41, 17308), (64, 17377), (65, 17386), (66, 17389), (73, 17407), (80, 17440), (83, 17455), (94, 17503), (120, 17614), (121, 17617), (131, 17647), (135, 17662), (145, 17740), (149, 17764), (Start: 161 @17830 has 1 MA's), (168, 17875), (171, 17905), (172, 17911), (174, 17929), (181, 17953), (183, 17962), (189, 17995), (191, 18001), (196, 18031), (205, 18070), (208, 18091), (212, 18106), (213, 18109), (235, 18223), (236, 18232), (237, 18238), (241, 18256), (243, 18277), (250, 18307), (252, 18319), (254, 18352), (272, 18463), (273, 18466), (279, 18493), (282, 18499), (290, 18553), (291, 18556), (308, 18643),

(310, 18658), (314, 18673), (330, 18763), (332, 18784), (334, 18793), (344, 18853), (345, 18856), (349, 18886), (352, 18910), (356, 18931), (374, 19027), (376, 19045), (378, 19054), (379, 19066), (382, 19102), (386, 19132), (391, 19153), (396, 19177), (402, 19213), (408, 19267), (416, 19327), (422, 19369), (430, 19447), (438, 19504), (442, 19528), (447, 19582), (450, 19630), (454, 19672), (456, 19696), (457, 19699),

Gene: Girr_18 Start: 17371, Stop: 19908, Start Num: 21

Candidate Starts for Girr_18:

(Start: 21 @17371 has 242 MA's), (28, 17392), (Start: 35 @17413 has 1 MA's), (41, 17452), (64, 17521), (65, 17530), (66, 17533), (73, 17551), (80, 17584), (83, 17599), (117, 17752), (121, 17761), (135, 17806), (148, 17905), (149, 17908), (Start: 161 @17974 has 1 MA's), (171, 18049), (172, 18055), (181, 18097), (182, 18103), (183, 18106), (189, 18139), (191, 18145), (196, 18175), (202, 18196), (206, 18226), (208, 18235), (212, 18250), (213, 18253), (234, 18364), (235, 18367), (236, 18376), (237, 18382), (240, 18397), (241, 18400), (243, 18421), (250, 18451), (252, 18463), (254, 18496), (272, 18607), (273, 18610), (279, 18637), (282, 18643), (290, 18697), (291, 18700), (308, 18787), (310, 18802), (313, 18814), (314, 18817), (327, 18883), (330, 18907), (332, 18928), (334, 18937), (341, 18979), (344, 18997), (345, 19000), (349, 19030), (352, 19054), (355, 19066), (356, 19075), (374, 19171), (376, 19189), (378, 19198), (379, 19210), (382, 19246), (386, 19276), (390, 19285), (391, 19297), (402, 19357), (408, 19411), (416, 19471), (422, 19513), (438, 19648), (442, 19672), (447, 19726), (450, 19774), (454, 19816), (456, 19840), (457, 19843),

Gene: Giuseppe_30 Start: 24308, Stop: 26578, Start Num: 91

Candidate Starts for Giuseppe_30:

(Start: 91 @24308 has 22 MA's), (118, 24443), (122, 24452), (152, 24626), (153, 24632), (154, 24644), (181, 24797), (185, 24812), (188, 24827), (260, 25208), (261, 25214), (268, 25259), (288, 25346), (324, 25547), (326, 25553), (332, 25601), (336, 25631), (340, 25655), (366, 25844), (373, 25871), (379, 25919), (389, 25991), (396, 26030), (397, 26051), (400, 26066), (403, 26084), (405, 26114), (417, 26198), (446, 26399), (450, 26441), (468, 26567),

Gene: Glexan_24 Start: 21900, Stop: 24296, Start Num: 45

Candidate Starts for Glexan_24:

(Start: 45 @21900 has 134 MA's), (92, 22077), (96, 22098), (139, 22245), (163, 22386), (167, 22419), (171, 22452), (176, 22488), (196, 22581), (208, 22641), (213, 22659), (238, 22791), (265, 22968), (272, 23013), (307, 23187), (310, 23208), (318, 23247), (321, 23268), (325, 23283), (351, 23439), (352, 23457), (362, 23511), (376, 23595), (424, 23919), (450, 24150), (457, 24234), (464, 24267),

Gene: Goku_26 Start: 21998, Stop: 24394, Start Num: 45

Candidate Starts for Goku_26:

(Start: 45 @21998 has 134 MA's), (92, 22175), (96, 22196), (139, 22343), (163, 22484), (167, 22517), (171, 22550), (176, 22586), (196, 22679), (208, 22739), (213, 22757), (227, 22838), (265, 23066), (272, 23111), (310, 23306), (311, 23312), (314, 23321), (321, 23366), (325, 23381), (351, 23537), (352, 23555), (354, 23564), (363, 23618), (376, 23693), (377, 23696), (407, 23906), (409, 23918), (427, 24032), (450, 24248), (457, 24332), (462, 24356), (464, 24365),

Gene: GoldenSpark_28 Start: 22274, Stop: 24670, Start Num: 45

Candidate Starts for GoldenSpark_28:

(Start: 45 @22274 has 134 MA's), (92, 22451), (96, 22472), (139, 22619), (167, 22793), (171, 22826), (176, 22862), (196, 22955), (208, 23015), (213, 23033), (238, 23165), (245, 23210), (265, 23342), (272, 23387), (287, 23447), (307, 23561), (310, 23582), (318, 23621), (321, 23642), (325, 23657), (349, 23807), (351, 23813), (352, 23831), (362, 23885), (376, 23969), (427, 24308), (450, 24524), (457, 24608), (464, 24641),

Gene: Goldilocks_27 Start: 21694, Stop: 24090, Start Num: 45

Candidate Starts for Goldilocks_27:

(Start: 45 @21694 has 134 MA's), (92, 21871), (96, 21892), (139, 22039), (163, 22180), (167, 22213), (171, 22246), (176, 22282), (196, 22375), (208, 22435), (213, 22453), (238, 22585), (245, 22630), (265, 22762), (272, 22807), (287, 22867), (307, 22981), (310, 23002), (318, 23041), (321, 23062), (325, 23077), (349, 23227), (351, 23233), (352, 23251), (362, 23305), (376, 23389), (390, 23482), (427, 23728), (450, 23944), (457, 24028), (464, 24061),

Gene: Gonephishing_34 Start: 28088, Stop: 30448, Start Num: 73

Candidate Starts for Gonephishing_34:

(Start: 21 @27893 has 242 MA's), (73, 28088), (80, 28124), (83, 28139), (94, 28187), (120, 28298), (121, 28301), (131, 28331), (135, 28346), (145, 28424), (149, 28448), (Start: 161 @28514 has 1 MA's), (168, 28559), (171, 28589), (172, 28595), (174, 28613), (181, 28637), (183, 28646), (189, 28679), (191, 28685), (196, 28715), (205, 28754), (206, 28766), (208, 28775), (212, 28790), (213, 28793), (234, 28904), (235, 28907), (236, 28916), (237, 28922), (240, 28937), (241, 28940), (250, 28991), (252, 29003), (254, 29036), (265, 29102), (272, 29147), (273, 29150), (279, 29177), (282, 29183), (290, 29237), (291, 29240), (308, 29327), (310, 29342), (313, 29354), (314, 29357), (327, 29423), (332, 29468), (334, 29477), (344, 29537), (345, 29540), (351, 29576), (352, 29594), (355, 29606), (356, 29615), (360, 29642), (374, 29711), (376, 29729), (378, 29738), (379, 29750), (382, 29786), (386, 29816), (391, 29837), (396, 29861), (402, 29897), (408, 29951), (416, 30011), (422, 30053), (438, 30188), (442, 30212), (447, 30266), (450, 30314), (454, 30356), (456, 30380), (457, 30383),

Gene: GooberAzure_28 Start: 22274, Stop: 24670, Start Num: 45

Candidate Starts for GooberAzure_28:

(Start: 45 @22274 has 134 MA's), (92, 22451), (96, 22472), (139, 22619), (163, 22760), (167, 22793), (171, 22826), (176, 22862), (196, 22955), (208, 23015), (213, 23033), (238, 23165), (245, 23210), (265, 23342), (272, 23387), (287, 23447), (307, 23561), (310, 23582), (318, 23621), (321, 23642), (325, 23657), (349, 23807), (351, 23813), (352, 23831), (362, 23885), (376, 23969), (390, 24062), (427, 24308), (450, 24524), (457, 24608), (464, 24641),

Gene: Gorge_18 Start: 17383, Stop: 19926, Start Num: 21

Candidate Starts for Gorge_18:

(Start: 21 @17383 has 242 MA's), (28, 17404), (32, 17425), (42, 17464), (64, 17533), (65, 17542), (66, 17545), (73, 17563), (83, 17611), (94, 17659), (120, 17770), (121, 17773), (132, 17806), (135, 17818), (145, 17896), (155, 17962), (163, 17995), (169, 18049), (171, 18061), (182, 18115), (183, 18118), (186, 18127), (192, 18160), (200, 18199), (202, 18202), (204, 18217), (205, 18220), (209, 18247), (210, 18253), (212, 18256), (213, 18259), (217, 18286), (220, 18304), (221, 18307), (236, 18382), (240, 18403), (241, 18406), (244, 18433), (250, 18457), (254, 18502), (255, 18505), (262, 18556), (273, 18619), (275, 18628), (280, 18652), (302, 18757), (303, 18760), (310, 18811), (311, 18817), (313, 18823), (314, 18826), (321, 18871), (325, 18886), (329, 18913), (332, 18937), (341, 18988), (344, 19006), (345, 19009), (346, 19021), (355, 19075), (376, 19198), (383, 19261), (394, 19324), (404, 19399), (432, 19600), (453, 19828), (459, 19867), (460, 19870),

Gene: Greep_27 Start: 22604, Stop: 25000, Start Num: 45

Candidate Starts for Greep_27:

(Start: 45 @22604 has 134 MA's), (92, 22781), (96, 22802), (139, 22949), (163, 23090), (167, 23123), (171, 23156), (176, 23192), (196, 23285), (208, 23345), (213, 23363), (238, 23495), (245, 23540), (265, 23672), (272, 23717), (307, 23891), (310, 23912), (318, 23951), (321, 23972), (325, 23987), (351, 24143), (352, 24161), (362, 24215), (376, 24299), (390, 24392), (427, 24638), (450, 24854), (457, 24938), (464, 24971),

Gene: Grimmer_19 Start: 18060, Stop: 20597, Start Num: 21

Candidate Starts for Grimmer_19:

(Start: 21 @18060 has 242 MA's), (28, 18081), (Start: 35 @18102 has 1 MA's), (41, 18141), (64, 18210), (65, 18219), (66, 18222), (73, 18240), (83, 18288), (120, 18447), (121, 18450), (135, 18495), (145, 18573), (148, 18594), (149, 18597), (Start: 161 @18663 has 1 MA's), (171, 18738), (172, 18744), (181, 18786), (182, 18792), (183, 18795), (189, 18828), (191, 18834), (196, 18864), (202, 18885), (206, 18915), (208, 18924), (229, 19032), (232, 19044), (234, 19053), (235, 19056), (236, 19065), (237, 19071), (240, 19086), (241, 19089), (243, 19110), (250, 19140), (252, 19152), (254, 19185), (255, 19188), (265, 19251), (272, 19296), (273, 19299), (279, 19326), (282, 19332), (290, 19386), (291, 19389), (296, 19416), (310, 19491), (313, 19503), (314, 19506), (327, 19572), (329, 19593), (330, 19596), (332, 19617), (344, 19686), (345, 19689), (351, 19725), (352, 19743), (356, 19764), (374, 19860), (376, 19878), (378, 19887), (379, 19899), (382, 19935), (386, 19965), (402, 20046), (408, 20100), (422, 20202), (438, 20337), (442, 20361), (447, 20415), (452, 20484), (456, 20529), (457, 20532),

Gene: Gumball_29 Start: 24266, Stop: 26536, Start Num: 91

Candidate Starts for Gumball_29:

(Start: 91 @24266 has 22 MA's), (118, 24401), (122, 24410), (152, 24584), (153, 24590), (154, 24602), (181, 24755), (185, 24770), (188, 24785), (260, 25166), (261, 25172), (268, 25217), (288, 25304), (312, 25430), (324, 25505), (326, 25511), (332, 25559), (336, 25589), (340, 25613), (366, 25802), (373, 25829), (379, 25877), (389, 25949), (396, 25988), (397, 26009), (400, 26024), (403, 26042), (405, 26072), (417, 26156), (446, 26357), (450, 26399), (468, 26525),

Gene: Guppsters_19 Start: 17584, Stop: 20109, Start Num: 21

Candidate Starts for Guppsters_19:

(Start: 21 @17584 has 242 MA's), (47, 17674), (64, 17734), (65, 17743), (66, 17746), (73, 17764), (83, 17812), (93, 17857), (120, 17971), (121, 17974), (127, 17995), (132, 18007), (135, 18019), (145, 18097), (155, 18163), (163, 18196), (169, 18250), (171, 18262), (182, 18316), (183, 18319), (186, 18328), (192, 18361), (202, 18403), (204, 18418), (209, 18448), (210, 18454), (212, 18457), (213, 18460), (217, 18487), (220, 18505), (221, 18508), (236, 18583), (240, 18604), (241, 18607), (244, 18634), (250, 18658), (252, 18670), (262, 18757), (273, 18820), (275, 18829), (280, 18853), (302, 18958), (303, 18961), (310, 19012), (311, 19018), (313, 19024), (314, 19027), (321, 19072), (325, 19087), (329, 19114), (332, 19138), (334, 19147), (344, 19207), (345, 19210), (346, 19222), (352, 19264), (355, 19276), (376, 19399), (383, 19462), (394, 19525), (404, 19600), (432, 19801), (450, 19972), (453, 20011), (459, 20050), (460, 20053),

Gene: Hades_18 Start: 17406, Stop: 19958, Start Num: 21

Candidate Starts for Hades_18:

(Start: 21 @17406 has 242 MA's), (47, 17496), (64, 17556), (65, 17565), (66, 17568), (73, 17586), (83, 17634), (93, 17679), (120, 17793), (121, 17796), (125, 17808), (132, 17829), (134, 17838), (135, 17841), (145, 17919), (155, 17985), (163, 18018), (168, 18054), (170, 18078), (182, 18138), (183, 18141), (187, 18159), (200, 18222), (202, 18225), (205, 18243), (208, 18264), (213, 18282), (217, 18309), (221, 18330), (227, 18363), (236, 18405), (237, 18411), (238, 18414), (241, 18429), (244, 18456), (245, 18459), (250, 18480), (252, 18492), (254, 18525), (269, 18618), (290, 18726), (293, 18750), (296, 18756), (301, 18774), (302, 18777), (305, 18801), (310, 18831), (316, 18855), (321, 18891), (322, 18897), (325, 18906), (329, 18933), (338, 18996), (341, 19020), (342, 19035), (349, 19077), (357, 19128), (375, 19224), (376, 19239), (378, 19248), (380, 19272), (390, 19335), (396, 19371), (436, 19677), (442, 19722), (450, 19824),

Gene: Hamulus_18 Start: 17403, Stop: 19940, Start Num: 21

Candidate Starts for Hamulus_18:

(18, 17391), (Start: 21 @17403 has 242 MA's), (28, 17424), (Start: 35 @17445 has 1 MA's), (41, 17484), (64, 17553), (65, 17562), (66, 17565), (73, 17583), (80, 17616), (83, 17631), (94, 17679), (117, 17784), (120, 17790), (121, 17793), (131, 17823), (134, 17835), (135, 17838), (145, 17916), (149, 17940), (Start: 161 @18006 has 1 MA's), (171, 18081), (172, 18087), (174, 18105), (181, 18129), (183,

18138), (189, 18171), (191, 18177), (196, 18207), (205, 18246), (206, 18258), (208, 18267), (212, 18282), (213, 18285), (234, 18396), (235, 18399), (236, 18408), (237, 18414), (240, 18429), (241, 18432), (243, 18453), (250, 18483), (252, 18495), (254, 18528), (265, 18594), (272, 18639), (273, 18642), (279, 18669), (282, 18675), (290, 18729), (291, 18732), (308, 18819), (310, 18834), (313, 18846), (314, 18849), (327, 18915), (332, 18960), (334, 18969), (344, 19029), (345, 19032), (351, 19068), (352, 19086), (355, 19098), (356, 19107), (360, 19134), (374, 19203), (376, 19221), (378, 19230), (379, 19242), (382, 19278), (386, 19308), (391, 19329), (396, 19353), (402, 19389), (408, 19443), (416, 19503), (422, 19545), (438, 19680), (442, 19704), (447, 19758), (450, 19806), (454, 19848), (456, 19872), (457, 19875),

Gene: HanKaySha_27 Start: 22026, Stop: 24422, Start Num: 45

Candidate Starts for HanKaySha_27:

(Start: 45 @22026 has 134 MA's), (92, 22203), (96, 22224), (139, 22371), (167, 22545), (171, 22578), (176, 22614), (196, 22707), (208, 22767), (213, 22785), (238, 22917), (245, 22962), (265, 23094), (272, 23139), (287, 23199), (307, 23313), (310, 23334), (318, 23373), (321, 23394), (325, 23409), (349, 23559), (351, 23565), (352, 23583), (362, 23637), (376, 23721), (390, 23814), (427, 24060), (450, 24276), (457, 24360), (464, 24393),

Gene: Hannaconda_33 Start: 26378, Stop: 28873, Start Num: 21

Candidate Starts for Hannaconda_33:

(Start: 21 @26378 has 242 MA's), (73, 26573), (80, 26609), (83, 26624), (106, 26711), (112, 26726), (121, 26762), (123, 26768), (134, 26801), (137, 26813), (165, 26984), (168, 26993), (171, 27017), (182, 27071), (189, 27107), (191, 27113), (196, 27143), (203, 27173), (206, 27194), (208, 27203), (212, 27218), (225, 27287), (241, 27368), (242, 27377), (245, 27398), (246, 27401), (252, 27431), (255, 27467), (262, 27518), (263, 27527), (265, 27530), (269, 27557), (271, 27566), (275, 27587), (290, 27665), (291, 27668), (305, 27740), (311, 27776), (313, 27782), (320, 27824), (321, 27830), (329, 27872), (330, 27875), (332, 27896), (333, 27902), (334, 27905), (339, 27935), (359, 28076), (362, 28085), (363, 28094), (368, 28127), (374, 28151), (375, 28154), (376, 28169), (379, 28190), (382, 28226), (383, 28232), (384, 28238), (388, 28259), (392, 28286), (411, 28421), (421, 28493), (423, 28499), (427, 28517), (438, 28616), (450, 28733), (458, 28814), (460, 28817), (464, 28844),

Gene: Harella_25 Start: 22416, Stop: 24812, Start Num: 45

Candidate Starts for Harella_25:

(Start: 45 @22416 has 134 MA's), (92, 22593), (96, 22614), (139, 22761), (163, 22902), (167, 22935), (171, 22968), (176, 23004), (196, 23097), (208, 23157), (213, 23175), (238, 23307), (265, 23484), (272, 23529), (307, 23703), (310, 23724), (318, 23763), (321, 23784), (325, 23799), (351, 23955), (352, 23973), (362, 24027), (376, 24111), (424, 24435), (450, 24666), (457, 24750), (464, 24783),

Gene: Harley_18 Start: 17393, Stop: 19930, Start Num: 21

Candidate Starts for Harley_18:

(Start: 21 @17393 has 242 MA's), (28, 17414), (Start: 35 @17435 has 1 MA's), (41, 17474), (64, 17543), (65, 17552), (66, 17555), (73, 17573), (83, 17621), (120, 17780), (121, 17783), (135, 17828), (148, 17927), (149, 17930), (Start: 161 @17996 has 1 MA's), (171, 18071), (172, 18077), (174, 18095), (181, 18119), (182, 18125), (183, 18128), (189, 18161), (191, 18167), (196, 18197), (202, 18218), (205, 18236), (208, 18257), (229, 18365), (232, 18377), (234, 18386), (235, 18389), (236, 18398), (237, 18404), (240, 18419), (241, 18422), (243, 18443), (252, 18485), (254, 18518), (255, 18521), (265, 18584), (272, 18629), (273, 18632), (282, 18665), (290, 18719), (291, 18722), (296, 18749), (310, 18824), (313, 18836), (314, 18839), (327, 18905), (329, 18926), (330, 18929), (332, 18950), (341, 19001), (344, 19019), (345, 19022), (349, 19052), (352, 19076), (355, 19088), (356, 19097), (374, 19193), (376, 19211), (378, 19220), (379, 19232), (382, 19268), (386, 19298), (390, 19307), (391, 19319), (396, 19343), (402, 19379), (416, 19493), (422, 19535), (438, 19670), (442, 19694), (447, 19748), (450, 19796), (452, 19817), (456, 19862), (457, 19865),

Gene: Hawkeye_32 Start: 24298, Stop: 27204, Start Num: 1

Candidate Starts for Hawkeye_32:

(Start: 1 @24298 has 1 MA's), (3, 24391), (5, 24412), (6, 24433), (7, 24442), (29, 24658), (112, 25009), (136, 25105), (146, 25180), (189, 25429), (195, 25456), (225, 25609), (229, 25633), (237, 25672), (274, 25903), (276, 25906), (296, 26014), (310, 26089), (322, 26155), (352, 26347), (355, 26359), (363, 26410), (382, 26542), (415, 26761), (443, 26992), (451, 27076),

Gene: Hegedechwinu_19 Start: 17254, Stop: 19785, Start Num: 21

Candidate Starts for Hegedechwinu_19:

(18, 17242), (Start: 21 @17254 has 242 MA's), (28, 17275), (Start: 35 @17296 has 1 MA's), (41, 17335), (64, 17404), (65, 17413), (66, 17416), (73, 17434), (80, 17467), (83, 17482), (94, 17524), (120, 17635), (121, 17638), (131, 17668), (135, 17683), (145, 17761), (Start: 161 @17851 has 1 MA's), (168, 17896), (171, 17926), (172, 17932), (174, 17950), (181, 17974), (183, 17983), (189, 18016), (191, 18022), (196, 18052), (205, 18091), (206, 18103), (208, 18112), (212, 18127), (213, 18130), (234, 18241), (235, 18244), (236, 18253), (237, 18259), (240, 18274), (241, 18277), (243, 18298), (250, 18328), (252, 18340), (254, 18373), (272, 18484), (273, 18487), (279, 18514), (282, 18520), (290, 18574), (291, 18577), (310, 18679), (313, 18691), (314, 18694), (327, 18760), (330, 18784), (332, 18805), (334, 18814), (344, 18874), (345, 18877), (351, 18913), (352, 18931), (355, 18943), (356, 18952), (360, 18979), (374, 19048), (376, 19066), (378, 19075), (379, 19087), (382, 19123), (386, 19153), (391, 19174), (396, 19198), (402, 19234), (408, 19288), (416, 19348), (422, 19390), (430, 19468), (438, 19525), (442, 19549), (447, 19603), (450, 19651), (454, 19693), (456, 19717), (457, 19720),

Gene: Helpful_31 Start: 24316, Stop: 26586, Start Num: 91

Candidate Starts for Helpful_31:

(Start: 91 @24316 has 22 MA's), (118, 24451), (122, 24460), (152, 24634), (153, 24640), (154, 24652), (181, 24805), (185, 24820), (188, 24835), (260, 25216), (261, 25222), (268, 25267), (288, 25354), (326, 25561), (332, 25609), (336, 25639), (340, 25663), (366, 25852), (373, 25879), (379, 25927), (389, 25999), (396, 26038), (397, 26059), (400, 26074), (403, 26092), (405, 26122), (417, 26206), (446, 26407), (450, 26449), (468, 26575),

Gene: Henry_26 Start: 22283, Stop: 24679, Start Num: 45

Candidate Starts for Henry_26:

(Start: 45 @22283 has 134 MA's), (92, 22460), (96, 22481), (139, 22628), (163, 22769), (167, 22802), (171, 22835), (176, 22871), (196, 22964), (208, 23024), (213, 23042), (242, 23198), (245, 23219), (262, 23339), (265, 23351), (272, 23396), (310, 23591), (314, 23606), (321, 23651), (325, 23666), (351, 23822), (352, 23840), (354, 23849), (376, 23978), (377, 23981), (407, 24191), (409, 24203), (427, 24317), (450, 24533), (457, 24617), (462, 24641), (464, 24650),

Gene: Highbury_27 Start: 21945, Stop: 24341, Start Num: 45

Candidate Starts for Highbury_27:

(Start: 45 @21945 has 134 MA's), (92, 22122), (96, 22143), (139, 22290), (163, 22431), (167, 22464), (171, 22497), (176, 22533), (196, 22626), (208, 22686), (213, 22704), (238, 22836), (245, 22881), (265, 23013), (272, 23058), (287, 23118), (307, 23232), (310, 23253), (318, 23292), (321, 23313), (325, 23328), (349, 23478), (351, 23484), (352, 23502), (362, 23556), (376, 23640), (390, 23733), (427, 23979), (450, 24195), (457, 24279), (464, 24312),

Gene: Hlubikazi_18 Start: 17495, Stop: 20032, Start Num: 21

Candidate Starts for Hlubikazi_18:

(Start: 21 @17495 has 242 MA's), (28, 17516), (Start: 35 @17537 has 1 MA's), (41, 17576), (64, 17645), (65, 17654), (66, 17657), (73, 17675), (83, 17723), (120, 17882), (121, 17885), (134, 17927), (135, 17930), (145, 18008), (148, 18029), (149, 18032), (Start: 161 @18098 has 1 MA's), (171, 18173), (172, 18179), (181, 18221), (182, 18227), (183, 18230), (189, 18263), (191, 18269), (196, 18299),

(202, 18320), (206, 18350), (208, 18359), (229, 18467), (232, 18479), (234, 18488), (235, 18491), (236, 18500), (237, 18506), (240, 18521), (241, 18524), (243, 18545), (252, 18587), (254, 18620), (279, 18761), (282, 18767), (290, 18821), (291, 18824), (296, 18851), (310, 18926), (313, 18938), (314, 18941), (327, 19007), (330, 19031), (332, 19052), (334, 19061), (344, 19121), (345, 19124), (351, 19160), (352, 19178), (356, 19199), (360, 19226), (374, 19295), (376, 19313), (378, 19322), (379, 19334), (382, 19370), (386, 19400), (402, 19481), (416, 19595), (422, 19637), (438, 19772), (442, 19796), (447, 19850), (456, 19964), (457, 19967),

Gene: Holt_27 Start: 21564, Stop: 23960, Start Num: 45

Candidate Starts for Holt_27:

(Start: 45 @21564 has 134 MA's), (92, 21741), (96, 21762), (139, 21909), (163, 22050), (167, 22083), (171, 22116), (176, 22152), (196, 22245), (208, 22305), (213, 22323), (238, 22455), (245, 22500), (265, 22632), (272, 22677), (287, 22737), (307, 22851), (310, 22872), (318, 22911), (321, 22932), (325, 22947), (349, 23097), (351, 23103), (352, 23121), (362, 23175), (376, 23259), (390, 23352), (427, 23598), (450, 23814), (457, 23898), (464, 23931),

Gene: Hoonter_28 Start: 22274, Stop: 24670, Start Num: 45

Candidate Starts for Hoonter_28:

(Start: 45 @22274 has 134 MA's), (92, 22451), (96, 22472), (139, 22619), (167, 22793), (171, 22826), (176, 22862), (196, 22955), (208, 23015), (213, 23033), (238, 23165), (245, 23210), (265, 23342), (272, 23387), (287, 23447), (307, 23561), (310, 23582), (318, 23621), (321, 23642), (325, 23657), (349, 23807), (351, 23813), (352, 23831), (362, 23885), (376, 23969), (390, 24062), (427, 24308), (450, 24524), (457, 24608), (464, 24641),

Gene: Hokey_28 Start: 22561, Stop: 24957, Start Num: 45

Candidate Starts for Hokey_28:

(Start: 45 @22561 has 134 MA's), (92, 22738), (96, 22759), (139, 22906), (167, 23080), (171, 23113), (176, 23149), (196, 23242), (208, 23302), (213, 23320), (238, 23452), (245, 23497), (265, 23629), (272, 23674), (287, 23734), (307, 23848), (310, 23869), (318, 23908), (321, 23929), (325, 23944), (349, 24094), (351, 24100), (352, 24118), (362, 24172), (376, 24256), (390, 24349), (427, 24595), (450, 24811), (457, 24895), (464, 24928),

Gene: HufflyPuff_25 Start: 22268, Stop: 24664, Start Num: 45

Candidate Starts for HufflyPuff_25:

(Start: 45 @22268 has 134 MA's), (92, 22445), (96, 22466), (139, 22613), (163, 22754), (167, 22787), (171, 22820), (176, 22856), (196, 22949), (208, 23009), (213, 23027), (238, 23159), (245, 23204), (265, 23336), (272, 23381), (287, 23441), (307, 23555), (310, 23576), (318, 23615), (321, 23636), (325, 23651), (349, 23801), (351, 23807), (352, 23825), (362, 23879), (376, 23963), (390, 24056), (427, 24302), (450, 24518), (457, 24602), (464, 24635),

Gene: IHOP_26 Start: 22460, Stop: 24856, Start Num: 45

Candidate Starts for IHOP_26:

(Start: 45 @22460 has 134 MA's), (92, 22637), (96, 22658), (139, 22805), (163, 22946), (167, 22979), (171, 23012), (176, 23048), (196, 23141), (208, 23201), (213, 23219), (242, 23375), (245, 23396), (262, 23516), (265, 23528), (272, 23573), (310, 23768), (311, 23774), (314, 23783), (321, 23828), (325, 23843), (351, 23999), (352, 24017), (354, 24026), (363, 24080), (376, 24155), (377, 24158), (407, 24368), (409, 24380), (427, 24494), (450, 24710), (457, 24794), (462, 24818), (464, 24827),

Gene: IMpilo_18 Start: 17430, Stop: 19967, Start Num: 21

Candidate Starts for IMpilo_18:

(18, 17418), (Start: 21 @17430 has 242 MA's), (28, 17451), (Start: 35 @17472 has 1 MA's), (41, 17511), (64, 17580), (65, 17589), (66, 17592), (73, 17610), (80, 17643), (83, 17658), (94, 17706), (120, 17817), (121, 17820), (131, 17850), (134, 17862), (135, 17865), (145, 17943), (149, 17967), (Start: 161

@18033 has 1 MA's), (168, 18078), (171, 18108), (172, 18114), (174, 18132), (181, 18156), (183, 18165), (189, 18198), (191, 18204), (196, 18234), (205, 18273), (206, 18285), (208, 18294), (212, 18309), (213, 18312), (234, 18423), (235, 18426), (236, 18435), (237, 18441), (240, 18456), (241, 18459), (243, 18480), (250, 18510), (252, 18522), (254, 18555), (272, 18666), (273, 18669), (279, 18696), (282, 18702), (290, 18756), (291, 18759), (310, 18861), (313, 18873), (314, 18876), (327, 18942), (330, 18966), (332, 18987), (334, 18996), (344, 19056), (345, 19059), (351, 19095), (352, 19113), (355, 19125), (356, 19134), (360, 19161), (374, 19230), (376, 19248), (378, 19257), (379, 19269), (382, 19305), (386, 19335), (391, 19356), (396, 19380), (402, 19416), (408, 19470), (416, 19530), (422, 19572), (430, 19650), (438, 19707), (442, 19731), (447, 19785), (450, 19833), (454, 19875), (456, 19899), (457, 19902),

Gene: IbOuu_18 Start: 17397, Stop: 19934, Start Num: 21

Candidate Starts for IbOuu_18:

(18, 17385), (Start: 21 @17397 has 242 MA's), (28, 17418), (Start: 35 @17439 has 1 MA's), (41, 17478), (64, 17547), (65, 17556), (66, 17559), (73, 17577), (83, 17625), (94, 17673), (120, 17784), (121, 17787), (135, 17832), (145, 17910), (149, 17934), (Start: 161 @18000 has 1 MA's), (168, 18045), (171, 18075), (172, 18081), (174, 18099), (181, 18123), (183, 18132), (189, 18165), (191, 18171), (196, 18201), (205, 18240), (206, 18252), (208, 18261), (212, 18276), (213, 18279), (234, 18390), (235, 18393), (236, 18402), (237, 18408), (240, 18423), (241, 18426), (243, 18447), (250, 18477), (252, 18489), (254, 18522), (272, 18633), (273, 18636), (279, 18663), (282, 18669), (290, 18723), (291, 18726), (310, 18828), (313, 18840), (314, 18843), (327, 18909), (330, 18933), (332, 18954), (334, 18963), (344, 19023), (345, 19026), (351, 19062), (352, 19080), (356, 19101), (360, 19128), (374, 19197), (376, 19215), (378, 19224), (379, 19236), (382, 19272), (391, 19323), (394, 19341), (402, 19383), (408, 19437), (422, 19539), (438, 19674), (442, 19698), (447, 19752), (452, 19821), (456, 19866), (457, 19869),

Gene: Ibhubesi_18 Start: 17393, Stop: 19930, Start Num: 21

Candidate Starts for Ibhubesi_18:

(Start: 21 @17393 has 242 MA's), (28, 17414), (Start: 35 @17435 has 1 MA's), (41, 17474), (64, 17543), (65, 17552), (66, 17555), (73, 17573), (83, 17621), (120, 17780), (121, 17783), (135, 17828), (148, 17927), (149, 17930), (Start: 161 @17996 has 1 MA's), (171, 18071), (172, 18077), (174, 18095), (181, 18119), (182, 18125), (183, 18128), (189, 18161), (191, 18167), (196, 18197), (202, 18218), (205, 18236), (208, 18257), (229, 18365), (232, 18377), (234, 18386), (235, 18389), (236, 18398), (237, 18404), (240, 18419), (241, 18422), (243, 18443), (252, 18485), (254, 18518), (255, 18521), (265, 18584), (272, 18629), (273, 18632), (282, 18665), (290, 18719), (291, 18722), (296, 18749), (310, 18824), (313, 18836), (314, 18839), (327, 18905), (329, 18926), (330, 18929), (332, 18950), (341, 19001), (344, 19019), (345, 19022), (349, 19052), (352, 19076), (355, 19088), (356, 19097), (374, 19193), (376, 19211), (378, 19220), (379, 19232), (382, 19268), (386, 19298), (390, 19307), (391, 19319), (396, 19343), (402, 19379), (416, 19493), (422, 19535), (438, 19670), (442, 19694), (447, 19748), (450, 19796), (452, 19817), (456, 19862), (457, 19865),

Gene: Icee_25 Start: 21943, Stop: 24339, Start Num: 45

Candidate Starts for Icee_25:

(Start: 45 @21943 has 134 MA's), (92, 22120), (96, 22141), (139, 22288), (163, 22429), (167, 22462), (171, 22495), (176, 22531), (196, 22624), (208, 22684), (213, 22702), (227, 22783), (265, 23011), (272, 23056), (310, 23251), (311, 23257), (314, 23266), (321, 23311), (325, 23326), (351, 23482), (352, 23500), (354, 23509), (376, 23638), (377, 23641), (407, 23851), (409, 23863), (427, 23977), (450, 24193), (457, 24277), (462, 24301), (464, 24310),

Gene: Inca_25 Start: 20963, Stop: 23359, Start Num: 45

Candidate Starts for Inca_25:

(Start: 45 @20963 has 134 MA's), (92, 21140), (96, 21161), (139, 21308), (163, 21449), (167, 21482), (171, 21515), (176, 21551), (196, 21644), (208, 21704), (213, 21722), (238, 21854), (245, 21899),

(265, 22031), (272, 22076), (287, 22136), (307, 22250), (310, 22271), (318, 22310), (321, 22331), (325, 22346), (349, 22496), (351, 22502), (352, 22520), (362, 22574), (376, 22658), (390, 22751), (427, 22997), (450, 23213), (457, 23297), (464, 23330),

Gene: Inventum_18 Start: 17532, Stop: 20069, Start Num: 21

Candidate Starts for Inventum_18:

(Start: 21 @17532 has 242 MA's), (28, 17553), (Start: 35 @17574 has 1 MA's), (41, 17613), (64, 17682), (65, 17691), (66, 17694), (73, 17712), (83, 17760), (94, 17808), (120, 17919), (121, 17922), (135, 17967), (145, 18045), (149, 18069), (Start: 161 @18135 has 1 MA's), (171, 18210), (172, 18216), (174, 18234), (181, 18258), (183, 18267), (189, 18300), (191, 18306), (196, 18336), (202, 18357), (206, 18387), (208, 18396), (229, 18504), (232, 18516), (234, 18525), (235, 18528), (237, 18543), (240, 18558), (241, 18561), (243, 18582), (252, 18624), (254, 18657), (272, 18768), (273, 18771), (279, 18798), (282, 18804), (290, 18858), (291, 18861), (296, 18888), (310, 18963), (313, 18975), (314, 18978), (327, 19044), (329, 19065), (330, 19068), (332, 19089), (334, 19098), (341, 19140), (344, 19158), (345, 19161), (349, 19191), (352, 19215), (355, 19227), (356, 19236), (374, 19332), (376, 19350), (378, 19359), (379, 19371), (382, 19407), (386, 19437), (390, 19446), (391, 19458), (402, 19518), (408, 19572), (416, 19632), (422, 19674), (438, 19809), (442, 19833), (447, 19887), (450, 19935), (454, 19977), (456, 20001), (457, 20004),

Gene: IrishSherpFalk_19 Start: 18757, Stop: 21294, Start Num: 21

Candidate Starts for IrishSherpFalk_19:

(Start: 21 @18757 has 242 MA's), (28, 18778), (Start: 35 @18799 has 1 MA's), (41, 18838), (64, 18907), (65, 18916), (66, 18919), (73, 18937), (83, 18985), (117, 19138), (121, 19147), (135, 19192), (148, 19291), (149, 19294), (Start: 161 @19360 has 1 MA's), (171, 19435), (172, 19441), (174, 19459), (181, 19483), (182, 19489), (183, 19492), (189, 19525), (191, 19531), (196, 19561), (202, 19582), (206, 19612), (208, 19621), (212, 19636), (213, 19639), (234, 19750), (235, 19753), (236, 19762), (237, 19768), (240, 19783), (241, 19786), (243, 19807), (250, 19837), (252, 19849), (254, 19882), (272, 19993), (273, 19996), (279, 20023), (282, 20029), (290, 20083), (291, 20086), (308, 20173), (310, 20188), (313, 20200), (314, 20203), (327, 20269), (330, 20293), (332, 20314), (334, 20323), (344, 20383), (345, 20386), (351, 20422), (352, 20440), (355, 20452), (356, 20461), (360, 20488), (372, 20545), (374, 20557), (376, 20575), (378, 20584), (379, 20596), (382, 20632), (386, 20662), (390, 20671), (391, 20683), (402, 20743), (408, 20797), (416, 20857), (422, 20899), (438, 21034), (442, 21058), (447, 21112), (450, 21160), (454, 21202), (456, 21226), (457, 21229),

Gene: Jabbawokkie_26 Start: 17616, Stop: 20168, Start Num: 13

Candidate Starts for Jabbawokkie_26:

(11, 17607), (Start: 13 @17616 has 7 MA's), (Start: 21 @17676 has 242 MA's), (31, 17712), (59, 17811), (94, 17952), (106, 17991), (112, 18006), (121, 18042), (123, 18048), (124, 18051), (131, 18069), (137, 18093), (141, 18117), (142, 18120), (165, 18264), (168, 18273), (171, 18297), (174, 18321), (181, 18345), (182, 18351), (187, 18372), (188, 18375), (191, 18393), (196, 18426), (203, 18456), (206, 18477), (225, 18570), (227, 18585), (229, 18594), (234, 18615), (235, 18618), (242, 18660), (250, 18702), (251, 18705), (252, 18714), (253, 18741), (255, 18750), (259, 18789), (263, 18810), (265, 18813), (271, 18849), (275, 18870), (290, 18948), (291, 18951), (304, 19005), (313, 19065), (328, 19152), (330, 19158), (332, 19179), (339, 19215), (348, 19269), (349, 19278), (359, 19356), (363, 19374), (369, 19410), (370, 19413), (374, 19431), (376, 19449), (382, 19506), (384, 19518), (396, 19581), (402, 19614), (411, 19701), (419, 19749), (421, 19773), (427, 19809), (429, 19848), (434, 19887), (438, 19911), (441, 19932), (450, 20028), (452, 20049), (458, 20109), (460, 20112), (464, 20139),

Gene: JacoRen57_20 Start: 18844, Stop: 20730, Start Num: 161

Candidate Starts for JacoRen57_20:

(Start: 161 @18844 has 1 MA's), (173, 18928), (203, 19060), (218, 19135), (227, 19171), (228, 19174), (248, 19261), (252, 19279), (253, 19306), (261, 19363), (281, 19462), (295, 19543), (306, 19588),

(315, 19633), (322, 19684), (323, 19693), (334, 19762), (341, 19816), (350, 19876), (360, 19960), (366, 19996), (371, 20017), (373, 20023), (374, 20032), (379, 20071), (396, 20182), (397, 20203), (405, 20266), (406, 20269), (410, 20311), (417, 20350), (456, 20665), (458, 20671), (461, 20680), (463, 20695), (465, 20704), (468, 20719),

Gene: JalFarm20_20 Start: 17767, Stop: 20304, Start Num: 21

Candidate Starts for JalFarm20_20:

(18, 17755), (Start: 21 @17767 has 242 MA's), (28, 17788), (Start: 35 @17809 has 1 MA's), (41, 17848), (64, 17917), (65, 17926), (66, 17929), (73, 17947), (80, 17980), (83, 17995), (94, 18043), (120, 18154), (121, 18157), (131, 18187), (134, 18199), (135, 18202), (145, 18280), (149, 18304), (Start: 161 @18370 has 1 MA's), (168, 18415), (171, 18445), (172, 18451), (174, 18469), (181, 18493), (183, 18502), (189, 18535), (191, 18541), (196, 18571), (205, 18610), (206, 18622), (208, 18631), (212, 18646), (213, 18649), (234, 18760), (235, 18763), (236, 18772), (237, 18778), (240, 18793), (241, 18796), (243, 18817), (250, 18847), (252, 18859), (254, 18892), (272, 19003), (273, 19006), (279, 19033), (282, 19039), (290, 19093), (291, 19096), (308, 19183), (310, 19198), (313, 19210), (314, 19213), (327, 19279), (330, 19303), (332, 19324), (334, 19333), (344, 19393), (345, 19396), (351, 19432), (352, 19450), (355, 19462), (356, 19471), (360, 19498), (374, 19567), (376, 19585), (378, 19594), (379, 19606), (382, 19642), (386, 19672), (391, 19693), (396, 19717), (402, 19753), (408, 19807), (416, 19867), (422, 19909), (430, 19987), (438, 20044), (442, 20068), (447, 20122), (450, 20170), (454, 20212), (456, 20236), (457, 20239),

Gene: James_18 Start: 17397, Stop: 19922, Start Num: 21

Candidate Starts for James_18:

(Start: 21 @17397 has 242 MA's), (28, 17418), (32, 17439), (42, 17478), (64, 17547), (65, 17556), (66, 17559), (73, 17577), (83, 17625), (94, 17673), (120, 17784), (121, 17787), (132, 17820), (135, 17832), (145, 17910), (155, 17976), (163, 18009), (169, 18063), (171, 18075), (182, 18129), (183, 18132), (186, 18141), (192, 18174), (200, 18213), (202, 18216), (204, 18231), (205, 18234), (209, 18261), (210, 18267), (212, 18270), (213, 18273), (217, 18300), (220, 18318), (221, 18321), (236, 18396), (240, 18417), (241, 18420), (244, 18447), (250, 18471), (254, 18516), (255, 18519), (262, 18570), (273, 18633), (275, 18642), (280, 18666), (302, 18771), (303, 18774), (310, 18825), (311, 18831), (313, 18837), (314, 18840), (321, 18885), (325, 18900), (329, 18927), (332, 18951), (341, 19002), (344, 19020), (345, 19023), (346, 19035), (355, 19089), (376, 19212), (383, 19275), (394, 19338), (404, 19413), (432, 19614), (453, 19824), (459, 19863), (460, 19866),

Gene: Jant_18 Start: 17553, Stop: 20090, Start Num: 21

Candidate Starts for Jant_18:

(18, 17541), (Start: 21 @17553 has 242 MA's), (28, 17574), (Start: 35 @17595 has 1 MA's), (41, 17634), (64, 17703), (65, 17712), (66, 17715), (73, 17733), (80, 17766), (83, 17781), (94, 17829), (117, 17934), (120, 17940), (121, 17943), (131, 17973), (134, 17985), (135, 17988), (145, 18066), (149, 18090), (Start: 161 @18156 has 1 MA's), (168, 18201), (171, 18231), (172, 18237), (174, 18255), (181, 18279), (183, 18288), (189, 18321), (191, 18327), (196, 18357), (205, 18396), (206, 18408), (208, 18417), (212, 18432), (213, 18435), (234, 18546), (235, 18549), (236, 18558), (237, 18564), (240, 18579), (241, 18582), (243, 18603), (250, 18633), (252, 18645), (254, 18678), (272, 18789), (273, 18792), (279, 18819), (282, 18825), (290, 18879), (291, 18882), (310, 18984), (313, 18996), (314, 18999), (327, 19065), (330, 19089), (332, 19110), (334, 19119), (344, 19179), (345, 19182), (351, 19218), (352, 19236), (355, 19248), (356, 19257), (360, 19284), (374, 19353), (376, 19371), (378, 19380), (379, 19392), (382, 19428), (386, 19458), (391, 19479), (396, 19503), (402, 19539), (408, 19593), (416, 19653), (422, 19695), (438, 19830), (442, 19854), (450, 19956), (454, 19998), (456, 20022), (457, 20025),

Gene: Jacob_18 Start: 17405, Stop: 19957, Start Num: 21

Candidate Starts for Jacob_18:

(Start: 21 @17405 has 242 MA's), (42, 17486), (64, 17555), (65, 17564), (66, 17567), (73, 17585), (83, 17633), (93, 17678), (120, 17792), (121, 17795), (125, 17807), (132, 17828), (134, 17837), (135, 17840), (142, 17888), (145, 17918), (155, 17984), (163, 18017), (168, 18053), (170, 18077), (182, 18137), (183, 18140), (187, 18158), (200, 18221), (202, 18224), (205, 18242), (208, 18263), (213, 18281), (217, 18308), (221, 18329), (227, 18362), (236, 18404), (237, 18410), (238, 18413), (241, 18428), (244, 18455), (245, 18458), (250, 18479), (252, 18491), (254, 18524), (269, 18617), (290, 18725), (293, 18749), (296, 18755), (301, 18773), (302, 18776), (305, 18800), (310, 18830), (316, 18854), (321, 18890), (322, 18896), (325, 18905), (329, 18932), (338, 18995), (341, 19019), (342, 19034), (349, 19076), (357, 19127), (375, 19223), (376, 19238), (378, 19247), (380, 19271), (390, 19334), (396, 19370), (436, 19676), (442, 19721), (450, 19823),

Gene: JeTaime_28 Start: 23085, Stop: 25481, Start Num: 45

Candidate Starts for JeTaime_28:

(Start: 45 @23085 has 134 MA's), (92, 23262), (96, 23283), (139, 23430), (167, 23604), (171, 23637), (176, 23673), (196, 23766), (208, 23826), (213, 23844), (238, 23976), (245, 24021), (265, 24153), (272, 24198), (287, 24258), (307, 24372), (310, 24393), (318, 24432), (321, 24453), (325, 24468), (349, 24618), (351, 24624), (352, 24642), (362, 24696), (376, 24780), (390, 24873), (427, 25119), (450, 25335), (457, 25419), (464, 25452),

Gene: Jinglebell_17 Start: 17634, Stop: 20171, Start Num: 21

Candidate Starts for Jinglebell_17:

(Start: 21 @17634 has 242 MA's), (28, 17655), (Start: 35 @17676 has 1 MA's), (41, 17715), (64, 17784), (65, 17793), (66, 17796), (73, 17814), (83, 17862), (120, 18021), (121, 18024), (134, 18066), (135, 18069), (145, 18147), (148, 18168), (149, 18171), (Start: 161 @18237 has 1 MA's), (163, 18246), (168, 18282), (171, 18312), (172, 18318), (181, 18360), (182, 18366), (183, 18369), (189, 18402), (191, 18408), (196, 18438), (202, 18459), (206, 18489), (208, 18498), (229, 18606), (232, 18618), (234, 18627), (235, 18630), (236, 18639), (237, 18645), (240, 18660), (241, 18663), (243, 18684), (252, 18726), (254, 18759), (279, 18900), (282, 18906), (290, 18960), (291, 18963), (296, 18990), (310, 19065), (313, 19077), (314, 19080), (327, 19146), (329, 19167), (330, 19170), (332, 19191), (341, 19242), (344, 19260), (345, 19263), (349, 19293), (352, 19317), (355, 19329), (374, 19434), (376, 19452), (378, 19461), (379, 19473), (382, 19509), (386, 19539), (391, 19560), (396, 19584), (402, 19620), (416, 19734), (422, 19776), (430, 19854), (438, 19911), (442, 19935), (447, 19989), (450, 20037), (454, 20079), (456, 20103), (457, 20106),

Gene: Job42_21 Start: 19082, Stop: 21619, Start Num: 21

Candidate Starts for Job42_21:

(Start: 21 @19082 has 242 MA's), (Start: 35 @19124 has 1 MA's), (47, 19172), (64, 19232), (65, 19241), (66, 19244), (73, 19262), (80, 19295), (83, 19310), (94, 19358), (120, 19469), (121, 19472), (131, 19502), (134, 19514), (135, 19517), (145, 19595), (149, 19619), (Start: 161 @19685 has 1 MA's), (168, 19730), (171, 19760), (172, 19766), (174, 19784), (181, 19808), (183, 19817), (189, 19850), (191, 19856), (196, 19886), (205, 19925), (206, 19937), (208, 19946), (212, 19961), (213, 19964), (234, 20075), (235, 20078), (236, 20087), (237, 20093), (240, 20108), (241, 20111), (243, 20132), (250, 20162), (252, 20174), (254, 20207), (272, 20318), (273, 20321), (279, 20348), (282, 20354), (290, 20408), (291, 20411), (310, 20513), (313, 20525), (314, 20528), (327, 20594), (330, 20618), (332, 20639), (334, 20648), (344, 20708), (345, 20711), (351, 20747), (352, 20765), (355, 20777), (356, 20786), (360, 20813), (374, 20882), (376, 20900), (378, 20909), (379, 20921), (382, 20957), (386, 20987), (391, 21008), (396, 21032), (402, 21068), (408, 21122), (416, 21182), (422, 21224), (430, 21302), (438, 21359), (442, 21383), (447, 21437), (450, 21485), (454, 21527), (456, 21551), (457, 21554),

Gene: JoeyJr_18 Start: 17568, Stop: 20105, Start Num: 21

Candidate Starts for JoeyJr_18:

(18, 17556), (Start: 21 @17568 has 242 MA's), (28, 17589), (Start: 35 @17610 has 1 MA's), (41, 17649), (64, 17718), (65, 17727), (66, 17730), (73, 17748), (83, 17796), (94, 17844), (120, 17955), (121, 17958), (135, 18003), (145, 18081), (149, 18105), (Start: 161 @18171 has 1 MA's), (168, 18216), (171, 18246), (172, 18252), (174, 18270), (181, 18294), (183, 18303), (189, 18336), (191, 18342), (196, 18372), (205, 18411), (206, 18423), (208, 18432), (212, 18447), (213, 18450), (234, 18561), (235, 18564), (236, 18573), (237, 18579), (240, 18594), (241, 18597), (243, 18618), (250, 18648), (252, 18660), (254, 18693), (272, 18804), (273, 18807), (279, 18834), (282, 18840), (290, 18894), (291, 18897), (310, 18999), (313, 19011), (314, 19014), (327, 19080), (330, 19104), (332, 19125), (334, 19134), (344, 19194), (345, 19197), (351, 19233), (352, 19251), (356, 19272), (360, 19299), (374, 19368), (376, 19386), (378, 19395), (379, 19407), (382, 19443), (391, 19494), (394, 19512), (402, 19554), (408, 19608), (422, 19710), (438, 19845), (442, 19869), (447, 19923), (452, 19992), (456, 20037), (457, 20040),

Gene: Juice456_20 Start: 18519, Stop: 21056, Start Num: 21

Candidate Starts for Juice456_20:

(18, 18507), (Start: 21 @18519 has 242 MA's), (28, 18540), (Start: 35 @18561 has 1 MA's), (41, 18600), (64, 18669), (65, 18678), (66, 18681), (73, 18699), (80, 18732), (83, 18747), (94, 18795), (120, 18906), (121, 18909), (131, 18939), (134, 18951), (135, 18954), (145, 19032), (149, 19056), (Start: 161 @19122 has 1 MA's), (168, 19167), (171, 19197), (172, 19203), (174, 19221), (181, 19245), (183, 19254), (189, 19287), (191, 19293), (196, 19323), (205, 19362), (206, 19374), (208, 19383), (212, 19398), (213, 19401), (234, 19512), (235, 19515), (236, 19524), (237, 19530), (240, 19545), (241, 19548), (243, 19569), (250, 19599), (252, 19611), (254, 19644), (272, 19755), (273, 19758), (279, 19785), (282, 19791), (290, 19845), (291, 19848), (308, 19935), (310, 19950), (313, 19962), (314, 19965), (327, 20031), (330, 20055), (332, 20076), (334, 20085), (341, 20127), (344, 20145), (345, 20148), (351, 20184), (352, 20202), (355, 20214), (356, 20223), (360, 20250), (374, 20319), (376, 20337), (378, 20346), (379, 20358), (382, 20394), (386, 20424), (391, 20445), (396, 20469), (402, 20505), (408, 20559), (416, 20619), (422, 20661), (430, 20739), (438, 20796), (442, 20820), (447, 20874), (450, 20922), (454, 20964), (456, 20988), (457, 20991),

Gene: Juniper1_18 Start: 17394, Stop: 19931, Start Num: 21

Candidate Starts for Juniper1_18:

(Start: 21 @17394 has 242 MA's), (28, 17415), (Start: 35 @17436 has 1 MA's), (41, 17475), (64, 17544), (65, 17553), (66, 17556), (73, 17574), (80, 17607), (83, 17622), (120, 17781), (121, 17784), (135, 17829), (145, 17907), (149, 17931), (Start: 161 @17997 has 1 MA's), (171, 18072), (172, 18078), (181, 18120), (182, 18126), (183, 18129), (189, 18162), (191, 18168), (196, 18198), (202, 18219), (206, 18249), (208, 18258), (229, 18366), (232, 18378), (234, 18387), (235, 18390), (236, 18399), (237, 18405), (240, 18420), (241, 18423), (243, 18444), (252, 18486), (254, 18519), (272, 18630), (273, 18633), (279, 18660), (282, 18666), (290, 18720), (291, 18723), (296, 18750), (299, 18759), (310, 18825), (313, 18837), (314, 18840), (327, 18906), (329, 18927), (330, 18930), (332, 18951), (341, 19002), (344, 19020), (345, 19023), (349, 19053), (352, 19077), (355, 19089), (356, 19098), (374, 19194), (376, 19212), (378, 19221), (379, 19233), (382, 19269), (386, 19299), (391, 19320), (396, 19344), (402, 19380), (416, 19494), (422, 19536), (438, 19671), (442, 19695), (447, 19749), (452, 19818), (456, 19863), (457, 19866), (459, 19872),

Gene: KandZ_30 Start: 24416, Stop: 26686, Start Num: 91

Candidate Starts for KandZ_30:

(Start: 91 @24416 has 22 MA's), (118, 24551), (122, 24560), (152, 24734), (153, 24740), (154, 24752), (181, 24905), (185, 24920), (188, 24935), (260, 25316), (261, 25322), (268, 25367), (288, 25454), (324, 25655), (326, 25661), (332, 25709), (336, 25739), (340, 25763), (366, 25952), (373, 25979), (379, 26027), (389, 26099), (396, 26138), (397, 26159), (400, 26174), (403, 26192), (405, 26222), (417, 26306), (446, 26507), (450, 26549), (468, 26675),

Gene: Kanye_28 Start: 23270, Stop: 25666, Start Num: 45

Candidate Starts for Kanye_28:

(Start: 45 @23270 has 134 MA's), (92, 23447), (96, 23468), (139, 23615), (163, 23756), (167, 23789), (171, 23822), (176, 23858), (196, 23951), (208, 24011), (213, 24029), (238, 24161), (245, 24206), (265, 24338), (272, 24383), (287, 24443), (307, 24557), (310, 24578), (318, 24617), (321, 24638), (325, 24653), (349, 24803), (351, 24809), (352, 24827), (362, 24881), (376, 24965), (390, 25058), (427, 25304), (450, 25520), (457, 25604), (464, 25637),

Gene: Karhdo_18 Start: 17528, Stop: 20065, Start Num: 21

Candidate Starts for Karhdo_18:

(18, 17516), (Start: 21 @17528 has 242 MA's), (28, 17549), (Start: 35 @17570 has 1 MA's), (41, 17609), (64, 17678), (65, 17687), (66, 17690), (73, 17708), (80, 17741), (83, 17756), (94, 17804), (120, 17915), (121, 17918), (131, 17948), (134, 17960), (135, 17963), (145, 18041), (149, 18065), (Start: 161 @18131 has 1 MA's), (168, 18176), (171, 18206), (172, 18212), (174, 18230), (181, 18254), (183, 18263), (189, 18296), (191, 18302), (196, 18332), (205, 18371), (206, 18383), (208, 18392), (212, 18407), (213, 18410), (234, 18521), (235, 18524), (236, 18533), (237, 18539), (240, 18554), (241, 18557), (243, 18578), (250, 18608), (252, 18620), (254, 18653), (272, 18764), (273, 18767), (279, 18794), (282, 18800), (290, 18854), (291, 18857), (308, 18944), (310, 18959), (313, 18971), (314, 18974), (327, 19040), (330, 19064), (332, 19085), (334, 19094), (341, 19136), (344, 19154), (345, 19157), (349, 19187), (352, 19211), (355, 19223), (356, 19232), (374, 19328), (376, 19346), (378, 19355), (379, 19367), (382, 19403), (386, 19433), (390, 19442), (391, 19454), (402, 19514), (408, 19568), (416, 19628), (422, 19670), (438, 19805), (442, 19829), (447, 19883), (450, 19931), (454, 19973), (456, 19997), (457, 20000),

Gene: KashFlow_30 Start: 26008, Stop: 28503, Start Num: 21

Candidate Starts for KashFlow_30:

(Start: 21 @26008 has 242 MA's), (73, 26203), (80, 26239), (83, 26254), (106, 26341), (112, 26356), (121, 26392), (123, 26398), (134, 26431), (137, 26443), (165, 26614), (168, 26623), (171, 26647), (182, 26701), (189, 26737), (191, 26743), (196, 26773), (203, 26803), (206, 26824), (208, 26833), (212, 26848), (225, 26917), (241, 26998), (242, 27007), (245, 27028), (246, 27031), (252, 27061), (255, 27097), (262, 27148), (263, 27157), (265, 27160), (269, 27187), (271, 27196), (275, 27217), (290, 27295), (291, 27298), (305, 27370), (311, 27406), (313, 27412), (320, 27454), (321, 27460), (329, 27502), (330, 27505), (332, 27526), (333, 27532), (334, 27535), (339, 27565), (359, 27706), (362, 27715), (363, 27724), (368, 27757), (374, 27781), (375, 27784), (376, 27799), (379, 27820), (382, 27856), (383, 27862), (384, 27868), (388, 27889), (392, 27916), (411, 28051), (421, 28123), (423, 28129), (427, 28147), (438, 28246), (450, 28363), (458, 28444), (460, 28447), (464, 28474),

Gene: Kenuha5_18 Start: 17523, Stop: 20015, Start Num: 21

Candidate Starts for Kenuha5_18:

(19, 17511), (Start: 21 @17523 has 242 MA's), (28, 17544), (Start: 35 @17565 has 1 MA's), (43, 17604), (64, 17673), (65, 17682), (66, 17685), (73, 17703), (80, 17736), (90, 17769), (94, 17802), (112, 17856), (121, 17892), (123, 17898), (124, 17901), (131, 17919), (134, 17931), (137, 17943), (141, 17967), (151, 18030), (165, 18114), (168, 18123), (171, 18147), (174, 18171), (181, 18195), (182, 18201), (187, 18222), (191, 18243), (196, 18273), (203, 18303), (206, 18324), (225, 18417), (227, 18432), (229, 18441), (234, 18462), (235, 18465), (250, 18549), (251, 18552), (252, 18561), (253, 18588), (255, 18597), (259, 18636), (263, 18657), (265, 18660), (271, 18696), (275, 18717), (290, 18795), (291, 18798), (304, 18852), (313, 18912), (330, 19005), (331, 19023), (332, 19026), (339, 19062), (348, 19116), (349, 19125), (359, 19203), (363, 19221), (369, 19257), (370, 19260), (374, 19278), (375, 19281), (376, 19296), (379, 19317), (382, 19353), (384, 19365), (396, 19428), (402, 19461), (411, 19548), (419, 19596), (421, 19620), (425, 19647), (427, 19656), (429, 19695), (434, 19734), (438, 19758), (441, 19779), (450, 19875), (452, 19896), (460, 19959), (464, 19986), (467, 19995),

Gene: Kersh_19 Start: 17568, Stop: 20060, Start Num: 21

Candidate Starts for Kersh_19:

(Start: 21 @17568 has 242 MA's), (28, 17589), (Start: 35 @17610 has 1 MA's), (43, 17649), (64, 17718), (65, 17727), (66, 17730), (73, 17748), (80, 17781), (90, 17814), (94, 17847), (112, 17901), (121, 17937), (124, 17946), (131, 17964), (137, 17988), (141, 18012), (157, 18120), (163, 18144), (165, 18159), (168, 18168), (171, 18192), (172, 18198), (174, 18216), (176, 18228), (178, 18234), (181, 18240), (182, 18246), (183, 18249), (186, 18258), (187, 18267), (189, 18282), (196, 18318), (205, 18357), (206, 18369), (208, 18378), (225, 18462), (241, 18543), (242, 18552), (246, 18576), (252, 18606), (255, 18642), (262, 18693), (263, 18702), (265, 18705), (271, 18741), (275, 18762), (290, 18840), (291, 18843), (304, 18897), (313, 18957), (328, 19044), (330, 19050), (332, 19071), (339, 19107), (348, 19161), (349, 19170), (359, 19248), (363, 19266), (369, 19302), (370, 19305), (374, 19323), (376, 19341), (382, 19398), (384, 19410), (396, 19473), (402, 19506), (411, 19593), (419, 19641), (421, 19665), (425, 19692), (427, 19701), (429, 19740), (434, 19779), (438, 19803), (441, 19824), (450, 19920), (452, 19941), (458, 20001), (460, 20004), (464, 20031),

Gene: Kimberlium_20 Start: 18519, Stop: 21056, Start Num: 21

Candidate Starts for Kimberlium_20:

(18, 18507), (Start: 21 @18519 has 242 MA's), (28, 18540), (Start: 35 @18561 has 1 MA's), (41, 18600), (64, 18669), (65, 18678), (66, 18681), (73, 18699), (80, 18732), (83, 18747), (94, 18795), (120, 18906), (121, 18909), (131, 18939), (134, 18951), (135, 18954), (145, 19032), (149, 19056), (Start: 161 @19122 has 1 MA's), (168, 19167), (171, 19197), (172, 19203), (174, 19221), (181, 19245), (183, 19254), (189, 19287), (191, 19293), (196, 19323), (205, 19362), (206, 19374), (208, 19383), (212, 19398), (213, 19401), (234, 19512), (235, 19515), (236, 19524), (237, 19530), (240, 19545), (241, 19548), (243, 19569), (250, 19599), (252, 19611), (254, 19644), (272, 19755), (273, 19758), (279, 19785), (282, 19791), (290, 19845), (291, 19848), (308, 19935), (310, 19950), (313, 19962), (314, 19965), (327, 20031), (330, 20055), (332, 20076), (334, 20085), (341, 20127), (344, 20145), (345, 20148), (351, 20184), (352, 20202), (355, 20214), (356, 20223), (360, 20250), (374, 20319), (376, 20337), (378, 20346), (379, 20358), (382, 20394), (386, 20424), (391, 20445), (396, 20469), (402, 20505), (408, 20559), (416, 20619), (422, 20661), (430, 20739), (438, 20796), (442, 20820), (447, 20874), (450, 20922), (454, 20964), (456, 20988), (457, 20991),

Gene: Kimchi_28 Start: 22277, Stop: 24673, Start Num: 45

Candidate Starts for Kimchi_28:

(Start: 45 @22277 has 134 MA's), (92, 22454), (96, 22475), (139, 22622), (163, 22763), (167, 22796), (171, 22829), (176, 22865), (196, 22958), (208, 23018), (213, 23036), (238, 23168), (245, 23213), (265, 23345), (272, 23390), (287, 23450), (307, 23564), (310, 23585), (318, 23624), (321, 23645), (325, 23660), (349, 23810), (351, 23816), (352, 23834), (362, 23888), (376, 23972), (390, 24065), (427, 24311), (450, 24527), (457, 24611), (464, 24644),

Gene: KingJulian_18 Start: 17437, Stop: 19974, Start Num: 21

Candidate Starts for KingJulian_18:

(18, 17425), (Start: 21 @17437 has 242 MA's), (28, 17458), (Start: 35 @17479 has 1 MA's), (41, 17518), (64, 17587), (65, 17596), (66, 17599), (73, 17617), (80, 17650), (83, 17665), (94, 17713), (120, 17824), (121, 17827), (131, 17857), (134, 17869), (135, 17872), (145, 17950), (149, 17974), (Start: 161 @18040 has 1 MA's), (168, 18085), (171, 18115), (172, 18121), (174, 18139), (181, 18163), (183, 18172), (189, 18205), (191, 18211), (196, 18241), (205, 18280), (206, 18292), (208, 18301), (212, 18316), (213, 18319), (234, 18430), (235, 18433), (236, 18442), (237, 18448), (240, 18463), (241, 18466), (243, 18487), (250, 18517), (252, 18529), (254, 18562), (272, 18673), (273, 18676), (279, 18703), (282, 18709), (290, 18763), (291, 18766), (308, 18853), (310, 18868), (313, 18880), (314, 18883), (327, 18949), (330, 18973), (332, 18994), (334, 19003), (344, 19063), (345, 19066), (351, 19102), (352, 19120), (355, 19132), (356, 19141), (360, 19168), (374, 19237), (376, 19255), (378, 19264), (379, 19276), (382, 19312), (386, 19342), (391, 19363), (396, 19387), (402, 19423), (408, 19477), (416, 19537), (422, 19579), (430, 19657), (438, 19714), (442, 19738), (447, 19792), (450, 19840), (454, 19882), (456, 19906), (457, 19909),

Gene: KingMidas_19 Start: 18701, Stop: 21238, Start Num: 21

Candidate Starts for KingMidas_19:

(18, 18689), (Start: 21 @18701 has 242 MA's), (28, 18722), (Start: 35 @18743 has 1 MA's), (41, 18782), (64, 18851), (65, 18860), (66, 18863), (73, 18881), (83, 18929), (94, 18977), (120, 19088), (121, 19091), (135, 19136), (145, 19214), (149, 19238), (Start: 161 @19304 has 1 MA's), (168, 19349), (171, 19379), (172, 19385), (174, 19403), (181, 19427), (183, 19436), (189, 19469), (191, 19475), (196, 19505), (205, 19544), (206, 19556), (208, 19565), (212, 19580), (213, 19583), (234, 19694), (235, 19697), (236, 19706), (237, 19712), (240, 19727), (241, 19730), (243, 19751), (250, 19781), (252, 19793), (254, 19826), (272, 19937), (273, 19940), (279, 19967), (282, 19973), (290, 20027), (291, 20030), (310, 20132), (313, 20144), (314, 20147), (327, 20213), (330, 20237), (332, 20258), (334, 20267), (344, 20327), (345, 20330), (351, 20366), (352, 20384), (356, 20405), (360, 20432), (374, 20501), (376, 20519), (378, 20528), (379, 20540), (382, 20576), (391, 20627), (394, 20645), (402, 20687), (408, 20741), (422, 20843), (438, 20978), (442, 21002), (447, 21056), (452, 21125), (456, 21170), (457, 21173),

Gene: Kingsley_19 Start: 17253, Stop: 19730, Start Num: 21

Candidate Starts for Kingsley_19:

(19, 17241), (Start: 21 @17253 has 242 MA's), (28, 17274), (Start: 35 @17295 has 1 MA's), (43, 17334), (64, 17403), (65, 17412), (66, 17415), (73, 17433), (80, 17466), (83, 17481), (106, 17568), (112, 17583), (121, 17619), (123, 17625), (134, 17658), (137, 17670), (165, 17841), (168, 17850), (171, 17874), (182, 17928), (189, 17964), (191, 17970), (196, 18000), (203, 18030), (206, 18051), (208, 18060), (225, 18144), (237, 18207), (241, 18225), (242, 18234), (245, 18255), (246, 18258), (250, 18276), (252, 18288), (253, 18315), (255, 18324), (262, 18375), (263, 18384), (265, 18387), (269, 18414), (271, 18423), (275, 18444), (290, 18522), (291, 18525), (311, 18633), (313, 18639), (321, 18687), (329, 18729), (330, 18732), (332, 18753), (333, 18759), (334, 18762), (339, 18792), (359, 18933), (363, 18951), (368, 18984), (374, 19008), (375, 19011), (376, 19026), (379, 19047), (382, 19083), (383, 19089), (388, 19116), (392, 19143), (411, 19278), (419, 19326), (421, 19350), (423, 19356), (427, 19374), (438, 19473), (441, 19494), (443, 19512), (450, 19590), (452, 19611), (460, 19674), (462, 19692), (467, 19710),

Gene: Konstantine_34 Start: 26883, Stop: 29726, Start Num: 4

Candidate Starts for Konstantine_34:

(Start: 4 @26883 has 10 MA's), (9, 27015), (10, 27027), (12, 27036), (Start: 22 @27105 has 1 MA's), (37, 27171), (40, 27192), (51, 27240), (63, 27282), (68, 27306), (77, 27339), (85, 27375), (89, 27387), (107, 27480), (121, 27537), (133, 27576), (163, 27771), (166, 27801), (172, 27843), (202, 27984), (205, 28002), (219, 28083), (227, 28122), (232, 28143), (254, 28281), (258, 28320), (271, 28383), (291, 28485), (331, 28710), (387, 29073), (392, 29100), (431, 29343), (436, 29376), (439, 29400), (450, 29520), (458, 29598), (470, 29685), (471, 29700), (472, 29706),

Gene: Kostya_26 Start: 22283, Stop: 24679, Start Num: 45

Candidate Starts for Kostya_26:

(Start: 45 @22283 has 134 MA's), (92, 22460), (96, 22481), (139, 22628), (163, 22769), (167, 22802), (171, 22835), (176, 22871), (196, 22964), (208, 23024), (213, 23042), (227, 23123), (265, 23351), (272, 23396), (310, 23591), (311, 23597), (314, 23606), (321, 23651), (325, 23666), (351, 23822), (352, 23840), (354, 23849), (376, 23978), (377, 23981), (407, 24191), (409, 24203), (427, 24317), (450, 24533), (457, 24617), (462, 24641), (464, 24650),

Gene: Krakatau_19 Start: 18095, Stop: 20632, Start Num: 21

Candidate Starts for Krakatau_19:

(Start: 21 @18095 has 242 MA's), (28, 18116), (Start: 35 @18137 has 1 MA's), (41, 18176), (64, 18245), (65, 18254), (66, 18257), (73, 18275), (80, 18308), (83, 18323), (94, 18371), (120, 18482), (121, 18485), (131, 18515), (134, 18527), (135, 18530), (149, 18632), (Start: 161 @18698 has 1 MA's),

(168, 18743), (171, 18773), (172, 18779), (174, 18797), (181, 18821), (183, 18830), (189, 18863), (191, 18869), (196, 18899), (205, 18938), (206, 18950), (208, 18959), (212, 18974), (214, 18980), (234, 19088), (235, 19091), (236, 19100), (237, 19106), (240, 19121), (241, 19124), (243, 19145), (250, 19175), (252, 19187), (254, 19220), (272, 19331), (273, 19334), (279, 19361), (282, 19367), (290, 19421), (291, 19424), (310, 19526), (313, 19538), (314, 19541), (327, 19607), (330, 19631), (332, 19652), (334, 19661), (344, 19721), (345, 19724), (351, 19760), (352, 19778), (355, 19790), (356, 19799), (360, 19826), (374, 19895), (376, 19913), (378, 19922), (379, 19934), (382, 19970), (386, 20000), (391, 20021), (396, 20045), (402, 20081), (408, 20135), (416, 20195), (422, 20237), (430, 20315), (438, 20372), (442, 20396), (447, 20450), (450, 20498), (456, 20564), (457, 20567),

Gene: KristaRAM_19 Start: 18070, Stop: 20607, Start Num: 21

Candidate Starts for KristaRAM_19:

(18, 18058), (Start: 21 @18070 has 242 MA's), (28, 18091), (Start: 35 @18112 has 1 MA's), (41, 18151), (64, 18220), (65, 18229), (66, 18232), (73, 18250), (80, 18283), (83, 18298), (94, 18346), (120, 18457), (121, 18460), (131, 18490), (134, 18502), (135, 18505), (145, 18583), (149, 18607), (Start: 161 @18673 has 1 MA's), (168, 18718), (171, 18748), (172, 18754), (174, 18772), (181, 18796), (183, 18805), (189, 18838), (191, 18844), (196, 18874), (205, 18913), (206, 18925), (208, 18934), (212, 18949), (213, 18952), (234, 19063), (235, 19066), (236, 19075), (237, 19081), (240, 19096), (241, 19099), (243, 19120), (250, 19150), (252, 19162), (254, 19195), (272, 19306), (273, 19309), (279, 19336), (282, 19342), (290, 19396), (291, 19399), (308, 19486), (310, 19501), (313, 19513), (314, 19516), (327, 19582), (330, 19606), (332, 19627), (334, 19636), (344, 19696), (345, 19699), (351, 19735), (352, 19753), (355, 19765), (356, 19774), (360, 19801), (374, 19870), (376, 19888), (378, 19897), (379, 19909), (382, 19945), (386, 19975), (391, 19996), (396, 20020), (402, 20056), (408, 20110), (416, 20170), (422, 20212), (430, 20290), (438, 20347), (442, 20371), (447, 20425), (450, 20473), (454, 20515), (456, 20539), (457, 20542),

Gene: Kumao_30 Start: 23701, Stop: 26268, Start Num: 20

Candidate Starts for Kumao_30:

(Start: 20 @23701 has 6 MA's), (36, 23767), (73, 23899), (78, 23923), (86, 23956), (101, 24031), (105, 24049), (116, 24100), (134, 24166), (165, 24370), (183, 24469), (189, 24502), (198, 24553), (223, 24676), (224, 24679), (254, 24856), (265, 24922), (277, 24988), (283, 25006), (286, 25021), (289, 25045), (309, 25150), (310, 25162), (335, 25300), (349, 25399), (351, 25405), (353, 25435), (359, 25477), (389, 25660), (390, 25663), (392, 25684), (393, 25690), (408, 25789), (414, 25828), (426, 25915), (437, 26014), (444, 26065), (445, 26083), (449, 26137), (456, 26212),

Gene: Latretium_19 Start: 18077, Stop: 20614, Start Num: 21

Candidate Starts for Latretium_19:

(18, 18065), (Start: 21 @18077 has 242 MA's), (28, 18098), (Start: 35 @18119 has 1 MA's), (41, 18158), (64, 18227), (65, 18236), (66, 18239), (73, 18257), (83, 18305), (120, 18464), (121, 18467), (131, 18497), (135, 18512), (145, 18590), (148, 18611), (149, 18614), (Start: 161 @18680 has 1 MA's), (171, 18755), (172, 18761), (174, 18779), (181, 18803), (182, 18809), (183, 18812), (189, 18845), (191, 18851), (196, 18881), (202, 18902), (206, 18932), (208, 18941), (229, 19049), (234, 19070), (235, 19073), (236, 19082), (237, 19088), (240, 19103), (241, 19106), (243, 19127), (252, 19169), (254, 19202), (279, 19343), (282, 19349), (290, 19403), (291, 19406), (296, 19433), (310, 19508), (313, 19520), (314, 19523), (327, 19589), (330, 19613), (332, 19634), (334, 19643), (344, 19703), (345, 19706), (351, 19742), (352, 19760), (356, 19781), (360, 19808), (372, 19865), (374, 19877), (376, 19895), (378, 19904), (379, 19916), (382, 19952), (386, 19982), (402, 20063), (408, 20117), (416, 20177), (422, 20219), (438, 20354), (442, 20378), (447, 20432), (454, 20522), (456, 20546), (457, 20549),

Gene: Leozinho_19 Start: 17243, Stop: 19780, Start Num: 21

Candidate Starts for Leozinho_19:

(18, 17231), (Start: 21 @17243 has 242 MA's), (28, 17264), (Start: 35 @17285 has 1 MA's), (41, 17324), (64, 17393), (65, 17402), (66, 17405), (73, 17423), (80, 17456), (83, 17471), (94, 17519), (120, 17630), (121, 17633), (131, 17663), (134, 17675), (135, 17678), (145, 17756), (149, 17780), (Start: 161 @17846 has 1 MA's), (168, 17891), (171, 17921), (172, 17927), (174, 17945), (181, 17969), (183, 17978), (189, 18011), (191, 18017), (196, 18047), (205, 18086), (206, 18098), (208, 18107), (212, 18122), (213, 18125), (234, 18236), (235, 18239), (236, 18248), (237, 18254), (240, 18269), (241, 18272), (243, 18293), (250, 18323), (252, 18335), (254, 18368), (272, 18479), (273, 18482), (279, 18509), (282, 18515), (290, 18569), (291, 18572), (310, 18674), (313, 18686), (314, 18689), (327, 18755), (330, 18779), (332, 18800), (334, 18809), (344, 18869), (345, 18872), (351, 18908), (352, 18926), (355, 18938), (356, 18947), (360, 18974), (374, 19043), (376, 19061), (378, 19070), (379, 19082), (382, 19118), (386, 19148), (391, 19169), (396, 19193), (402, 19229), (408, 19283), (416, 19343), (422, 19385), (430, 19463), (438, 19520), (442, 19544), (447, 19598), (450, 19646), (454, 19688), (456, 19712), (457, 19715),

Gene: Leperchaun_18 Start: 17387, Stop: 19939, Start Num: 21

Candidate Starts for Leperchaun_18:

(Start: 21 @17387 has 242 MA's), (28, 17408), (32, 17429), (42, 17468), (64, 17537), (65, 17546), (66, 17549), (73, 17567), (80, 17600), (83, 17615), (94, 17663), (120, 17774), (121, 17777), (132, 17810), (134, 17819), (135, 17822), (145, 17900), (155, 17966), (163, 17999), (169, 18053), (171, 18065), (181, 18113), (183, 18122), (186, 18131), (192, 18164), (202, 18206), (204, 18221), (209, 18251), (210, 18257), (212, 18260), (213, 18263), (217, 18290), (221, 18311), (227, 18344), (236, 18386), (237, 18392), (238, 18395), (240, 18407), (241, 18410), (244, 18437), (250, 18461), (252, 18473), (254, 18506), (257, 18527), (269, 18599), (273, 18620), (293, 18731), (301, 18755), (302, 18758), (305, 18782), (310, 18812), (316, 18836), (321, 18872), (322, 18878), (325, 18887), (338, 18977), (341, 19001), (342, 19016), (349, 19058), (351, 19064), (357, 19109), (375, 19205), (376, 19220), (378, 19229), (380, 19253), (390, 19316), (436, 19658), (442, 19703), (450, 19805),

Gene: LilMoolah_18 Start: 17531, Stop: 20056, Start Num: 21

Candidate Starts for LilMoolah_18:

(Start: 21 @17531 has 242 MA's), (28, 17552), (32, 17573), (42, 17612), (64, 17681), (65, 17690), (66, 17693), (73, 17711), (83, 17759), (94, 17807), (120, 17918), (121, 17921), (132, 17954), (135, 17966), (145, 18044), (155, 18110), (163, 18143), (169, 18197), (171, 18209), (182, 18263), (183, 18266), (186, 18275), (192, 18308), (200, 18347), (202, 18350), (204, 18365), (205, 18368), (209, 18395), (210, 18401), (212, 18404), (213, 18407), (217, 18434), (220, 18452), (221, 18455), (236, 18530), (240, 18551), (241, 18554), (244, 18581), (250, 18605), (254, 18650), (255, 18653), (262, 18704), (273, 18767), (275, 18776), (280, 18800), (302, 18905), (303, 18908), (310, 18959), (311, 18965), (313, 18971), (314, 18974), (321, 19019), (325, 19034), (329, 19061), (332, 19085), (341, 19136), (344, 19154), (345, 19157), (346, 19169), (355, 19223), (376, 19346), (383, 19409), (394, 19472), (404, 19547), (432, 19748), (453, 19958), (459, 19997), (460, 20000),

Gene: Lilac_28 Start: 21781, Stop: 24177, Start Num: 45

Candidate Starts for Lilac_28:

(Start: 45 @21781 has 134 MA's), (92, 21958), (96, 21979), (139, 22126), (167, 22300), (171, 22333), (176, 22369), (196, 22462), (208, 22522), (213, 22540), (238, 22672), (245, 22717), (265, 22849), (272, 22894), (287, 22954), (307, 23068), (310, 23089), (318, 23128), (321, 23149), (325, 23164), (349, 23314), (351, 23320), (352, 23338), (362, 23392), (376, 23476), (390, 23569), (427, 23815), (450, 24031), (457, 24115), (464, 24148),

Gene: Lilizi_28 Start: 21989, Stop: 24385, Start Num: 45

Candidate Starts for Lilizi_28:

(Start: 45 @21989 has 134 MA's), (92, 22166), (96, 22187), (139, 22334), (167, 22508), (171, 22541), (176, 22577), (196, 22670), (208, 22730), (213, 22748), (238, 22880), (245, 22925), (265, 23057), (272, 23102), (287, 23162), (307, 23276), (310, 23297), (318, 23336), (321, 23357), (325, 23372),

(349, 23522), (351, 23528), (352, 23546), (362, 23600), (376, 23684), (390, 23777), (427, 24023),
(450, 24239), (457, 24323), (464, 24356),

Gene: Lilpickle_25 Start: 21491, Stop: 23887, Start Num: 45

Candidate Starts for Lilpickle_25:

(Start: 45 @21491 has 134 MA's), (92, 21668), (96, 21689), (139, 21836), (167, 22010), (171, 22043),
(176, 22079), (196, 22172), (208, 22232), (213, 22250), (238, 22382), (245, 22427), (265, 22559),
(272, 22604), (287, 22664), (307, 22778), (310, 22799), (318, 22838), (321, 22859), (325, 22874),
(349, 23024), (351, 23030), (352, 23048), (362, 23102), (376, 23186), (390, 23279), (427, 23525),
(450, 23741), (457, 23825), (464, 23858),

Gene: LittleE_39 Start: 30972, Stop: 33527, Start Num: 21

Candidate Starts for LittleE_39:

(Start: 21 @30972 has 242 MA's), (73, 31167), (80, 31203), (83, 31218), (94, 31266), (120, 31377),
(121, 31380), (131, 31410), (135, 31425), (145, 31503), (149, 31527), (Start: 161 @31593 has 1 MA's),
(168, 31638), (171, 31668), (172, 31674), (174, 31692), (181, 31716), (183, 31725), (189, 31758),
(191, 31764), (196, 31794), (205, 31833), (206, 31845), (208, 31854), (212, 31869), (213, 31872),
(234, 31983), (235, 31986), (236, 31995), (237, 32001), (240, 32016), (241, 32019), (250, 32070),
(252, 32082), (254, 32115), (265, 32181), (272, 32226), (273, 32229), (279, 32256), (282, 32262),
(290, 32316), (291, 32319), (308, 32406), (310, 32421), (313, 32433), (314, 32436), (327, 32502),
(332, 32547), (334, 32556), (344, 32616), (345, 32619), (351, 32655), (352, 32673), (355, 32685),
(356, 32694), (360, 32721), (374, 32790), (376, 32808), (378, 32817), (379, 32829), (382, 32865),
(386, 32895), (391, 32916), (396, 32940), (402, 32976), (408, 33030), (416, 33090), (422, 33132),
(438, 33267), (442, 33291), (447, 33345), (450, 33393), (454, 33435), (456, 33459), (457, 33462),

Gene: LittleShirley_19 Start: 17218, Stop: 19755, Start Num: 21

Candidate Starts for LittleShirley_19:

(Start: 21 @17218 has 242 MA's), (28, 17239), (Start: 35 @17260 has 1 MA's), (41, 17299), (64,
17368), (65, 17377), (66, 17380), (73, 17398), (83, 17446), (117, 17599), (121, 17608), (135, 17653),
(148, 17752), (149, 17755), (Start: 161 @17821 has 1 MA's), (171, 17896), (172, 17902), (174, 17920),
(181, 17944), (182, 17950), (183, 17953), (189, 17986), (191, 17992), (196, 18022), (202, 18043),
(206, 18073), (208, 18082), (212, 18097), (213, 18100), (234, 18211), (235, 18214), (236, 18223),
(237, 18229), (240, 18244), (241, 18247), (243, 18268), (250, 18298), (252, 18310), (254, 18343),
(272, 18454), (273, 18457), (279, 18484), (282, 18490), (290, 18544), (291, 18547), (310, 18649),
(313, 18661), (314, 18664), (327, 18730), (330, 18754), (332, 18775), (334, 18784), (344, 18844),
(345, 18847), (351, 18883), (352, 18901), (355, 18913), (356, 18922), (360, 18949), (372, 19006),
(374, 19018), (376, 19036), (378, 19045), (379, 19057), (382, 19093), (386, 19123), (390, 19132),
(391, 19144), (402, 19204), (408, 19258), (416, 19318), (422, 19360), (438, 19495), (442, 19519),
(447, 19573), (450, 19621), (454, 19663), (456, 19687), (457, 19690),

Gene: Livelaughbron_26 Start: 22400, Stop: 24796, Start Num: 45

Candidate Starts for Livelaughbron_26:

(Start: 45 @22400 has 134 MA's), (92, 22577), (96, 22598), (139, 22745), (163, 22886), (167, 22919),
(171, 22952), (176, 22988), (196, 23081), (208, 23141), (213, 23159), (238, 23291), (245, 23336),
(265, 23468), (272, 23513), (287, 23573), (307, 23687), (310, 23708), (318, 23747), (321, 23768),
(325, 23783), (349, 23933), (351, 23939), (352, 23957), (362, 24011), (376, 24095), (390, 24188),
(427, 24434), (450, 24650), (457, 24734), (464, 24767),

Gene: Lizziana_18 Start: 17406, Stop: 19931, Start Num: 21

Candidate Starts for Lizziana_18:

(Start: 21 @17406 has 242 MA's), (42, 17487), (64, 17556), (65, 17565), (66, 17568), (73, 17586), (83,
17634), (93, 17679), (120, 17793), (121, 17796), (125, 17808), (132, 17829), (134, 17838), (135,
17841), (142, 17889), (145, 17919), (155, 17985), (163, 18018), (168, 18054), (170, 18078), (182,

18138), (183, 18141), (187, 18159), (200, 18222), (202, 18225), (205, 18243), (208, 18264), (213, 18282), (217, 18309), (221, 18330), (227, 18363), (237, 18411), (238, 18414), (240, 18426), (241, 18429), (244, 18456), (250, 18480), (254, 18525), (275, 18651), (280, 18675), (303, 18783), (310, 18834), (313, 18846), (314, 18849), (321, 18894), (325, 18909), (329, 18936), (332, 18960), (341, 19011), (344, 19029), (345, 19032), (346, 19044), (355, 19098), (362, 19140), (383, 19284), (392, 19338), (393, 19344), (394, 19347), (399, 19383), (401, 19386), (403, 19395), (404, 19422), (432, 19623), (450, 19794), (453, 19833), (459, 19872), (460, 19875),

Gene: Llama_18 Start: 17634, Stop: 20171, Start Num: 21

Candidate Starts for Llama_18:

(Start: 21 @17634 has 242 MA's), (28, 17655), (Start: 35 @17676 has 1 MA's), (41, 17715), (64, 17784), (65, 17793), (66, 17796), (73, 17814), (83, 17862), (120, 18021), (121, 18024), (134, 18066), (135, 18069), (145, 18147), (148, 18168), (149, 18171), (Start: 161 @18237 has 1 MA's), (163, 18246), (168, 18282), (171, 18312), (172, 18318), (181, 18360), (182, 18366), (183, 18369), (189, 18402), (191, 18408), (196, 18438), (202, 18459), (206, 18489), (208, 18498), (229, 18606), (232, 18618), (234, 18627), (235, 18630), (236, 18639), (237, 18645), (240, 18660), (241, 18663), (243, 18684), (252, 18726), (254, 18759), (279, 18900), (282, 18906), (290, 18960), (291, 18963), (296, 18990), (310, 19065), (313, 19077), (314, 19080), (327, 19146), (329, 19167), (330, 19170), (332, 19191), (341, 19242), (344, 19260), (345, 19263), (349, 19293), (352, 19317), (355, 19329), (374, 19434), (376, 19452), (378, 19461), (379, 19473), (382, 19509), (386, 19539), (391, 19560), (396, 19584), (402, 19620), (416, 19734), (422, 19776), (430, 19854), (438, 19911), (442, 19935), (447, 19989), (450, 20037), (454, 20079), (456, 20103), (457, 20106),

Gene: Llij_18 Start: 17383, Stop: 19920, Start Num: 21

Candidate Starts for Llij_18:

(Start: 21 @17383 has 242 MA's), (47, 17473), (64, 17533), (65, 17542), (66, 17545), (73, 17563), (83, 17611), (94, 17659), (117, 17764), (120, 17770), (121, 17773), (134, 17815), (135, 17818), (149, 17920), (Start: 161 @17986 has 1 MA's), (168, 18031), (171, 18061), (172, 18067), (174, 18085), (181, 18109), (183, 18118), (189, 18151), (191, 18157), (202, 18208), (205, 18226), (206, 18238), (208, 18247), (212, 18262), (214, 18268), (234, 18376), (236, 18388), (237, 18394), (240, 18409), (241, 18412), (243, 18433), (250, 18463), (252, 18475), (254, 18508), (265, 18574), (272, 18619), (273, 18622), (279, 18649), (282, 18655), (290, 18709), (291, 18712), (296, 18739), (310, 18814), (313, 18826), (314, 18829), (327, 18895), (329, 18916), (330, 18919), (334, 18949), (341, 18991), (344, 19009), (345, 19012), (349, 19042), (352, 19066), (355, 19078), (356, 19087), (374, 19183), (376, 19201), (378, 19210), (379, 19222), (386, 19288), (390, 19297), (391, 19309), (402, 19369), (422, 19525), (438, 19660), (442, 19684), (447, 19738), (452, 19807), (456, 19852), (457, 19855),

Gene: Lorde_19 Start: 17219, Stop: 19756, Start Num: 21

Candidate Starts for Lorde_19:

(18, 17207), (Start: 21 @17219 has 242 MA's), (28, 17240), (Start: 35 @17261 has 1 MA's), (41, 17300), (64, 17369), (65, 17378), (66, 17381), (73, 17399), (80, 17432), (83, 17447), (94, 17495), (117, 17600), (121, 17609), (134, 17651), (135, 17654), (145, 17732), (149, 17756), (Start: 161 @17822 has 1 MA's), (168, 17867), (171, 17897), (172, 17903), (174, 17921), (181, 17945), (183, 17954), (189, 17987), (191, 17993), (196, 18023), (205, 18062), (206, 18074), (208, 18083), (212, 18098), (213, 18101), (234, 18212), (236, 18224), (237, 18230), (240, 18245), (241, 18248), (243, 18269), (250, 18299), (252, 18311), (254, 18344), (265, 18410), (272, 18455), (273, 18458), (279, 18485), (282, 18491), (290, 18545), (291, 18548), (296, 18575), (310, 18650), (313, 18662), (314, 18665), (327, 18731), (330, 18755), (334, 18785), (341, 18827), (344, 18845), (345, 18848), (351, 18884), (352, 18902), (356, 18923), (360, 18950), (374, 19019), (376, 19037), (378, 19046), (379, 19058), (382, 19094), (386, 19124), (390, 19133), (391, 19145), (402, 19205), (408, 19259), (416, 19319), (422, 19361), (430, 19439), (438, 19496), (442, 19520), (447, 19574), (450, 19622), (454, 19664), (456, 19688), (457, 19691),

Gene: Lucia_19 Start: 17421, Stop: 19973, Start Num: 21

Candidate Starts for Lucia_19:

(Start: 21 @17421 has 242 MA's), (28, 17442), (32, 17463), (42, 17502), (64, 17571), (65, 17580), (66, 17583), (73, 17601), (80, 17634), (83, 17649), (94, 17697), (120, 17808), (121, 17811), (132, 17844), (134, 17853), (135, 17856), (145, 17934), (155, 18000), (163, 18033), (169, 18087), (171, 18099), (181, 18147), (183, 18156), (186, 18165), (192, 18198), (202, 18240), (204, 18255), (209, 18285), (210, 18291), (212, 18294), (213, 18297), (217, 18324), (221, 18345), (227, 18378), (236, 18420), (237, 18426), (238, 18429), (240, 18441), (241, 18444), (244, 18471), (250, 18495), (252, 18507), (254, 18540), (257, 18561), (269, 18633), (273, 18654), (293, 18765), (301, 18789), (302, 18792), (305, 18816), (310, 18846), (316, 18870), (321, 18906), (322, 18912), (325, 18921), (338, 19011), (341, 19035), (342, 19050), (349, 19092), (351, 19098), (357, 19143), (375, 19239), (376, 19254), (378, 19263), (380, 19287), (390, 19350), (408, 19476), (436, 19692), (442, 19737), (450, 19839), (460, 19917),

Gene: Lucky2013_36 Start: 27869, Stop: 30376, Start Num: 21

Candidate Starts for Lucky2013_36:

(Start: 21 @27869 has 242 MA's), (73, 28064), (80, 28100), (83, 28115), (106, 28202), (112, 28217), (134, 28292), (137, 28304), (142, 28331), (157, 28436), (165, 28475), (168, 28484), (171, 28508), (172, 28514), (174, 28532), (178, 28550), (183, 28565), (186, 28574), (187, 28583), (189, 28598), (195, 28625), (196, 28634), (205, 28673), (206, 28685), (208, 28694), (225, 28778), (241, 28859), (245, 28889), (246, 28892), (252, 28922), (253, 28949), (255, 28958), (262, 29009), (263, 29018), (265, 29021), (271, 29057), (275, 29078), (285, 29114), (311, 29267), (321, 29321), (330, 29366), (331, 29384), (332, 29387), (339, 29426), (359, 29573), (362, 29582), (375, 29651), (376, 29666), (402, 29831), (411, 29918), (419, 29966), (427, 30017), (434, 30095), (458, 30317), (460, 30320), (464, 30347),

Gene: LunaBlu_19 Start: 17477, Stop: 20014, Start Num: 21

Candidate Starts for LunaBlu_19:

(Start: 21 @17477 has 242 MA's), (47, 17567), (64, 17627), (65, 17636), (66, 17639), (73, 17657), (80, 17690), (83, 17705), (94, 17753), (120, 17864), (121, 17867), (131, 17897), (135, 17912), (145, 17990), (Start: 161 @18080 has 1 MA's), (168, 18125), (171, 18155), (172, 18161), (174, 18179), (181, 18203), (183, 18212), (189, 18245), (191, 18251), (196, 18281), (205, 18320), (206, 18332), (208, 18341), (212, 18356), (213, 18359), (234, 18470), (236, 18482), (237, 18488), (240, 18503), (241, 18506), (243, 18527), (250, 18557), (252, 18569), (254, 18602), (265, 18668), (272, 18713), (273, 18716), (279, 18743), (282, 18749), (290, 18803), (291, 18806), (310, 18908), (313, 18920), (314, 18923), (327, 18989), (330, 19013), (334, 19043), (344, 19103), (345, 19106), (351, 19142), (352, 19160), (355, 19172), (356, 19181), (360, 19208), (374, 19277), (376, 19295), (378, 19304), (379, 19316), (382, 19352), (386, 19382), (391, 19403), (396, 19427), (402, 19463), (408, 19517), (416, 19577), (422, 19619), (430, 19697), (438, 19754), (442, 19778), (447, 19832), (450, 19880), (454, 19922), (456, 19946), (457, 19949),

Gene: LunaStella_20 Start: 17940, Stop: 20417, Start Num: 23

Candidate Starts for LunaStella_20:

(Start: 23 @17940 has 3 MA's), (28, 17952), (46, 18015), (53, 18042), (69, 18096), (73, 18105), (75, 18111), (80, 18138), (90, 18171), (106, 18243), (112, 18258), (121, 18294), (124, 18303), (131, 18321), (137, 18345), (141, 18369), (165, 18516), (168, 18525), (171, 18549), (174, 18573), (181, 18597), (182, 18603), (187, 18624), (191, 18645), (196, 18675), (203, 18705), (206, 18726), (225, 18819), (227, 18834), (229, 18843), (231, 18852), (234, 18864), (235, 18867), (250, 18951), (251, 18954), (252, 18963), (253, 18990), (255, 18999), (259, 19038), (263, 19059), (265, 19062), (271, 19098), (275, 19119), (290, 19197), (291, 19200), (304, 19254), (313, 19314), (328, 19401), (330, 19407), (331, 19425), (332, 19428), (339, 19464), (348, 19518), (349, 19527), (359, 19605), (363, 19623), (369, 19659), (370, 19662), (374, 19680), (375, 19683), (376, 19698), (382, 19755), (384, 19767), (396, 19830), (402, 19863), (411, 19950), (419, 19998), (421, 20022), (425, 20049), (427,

20058), (429, 20097), (434, 20136), (438, 20160), (441, 20181), (450, 20277), (452, 20298), (460, 20361), (464, 20388), (467, 20397),

Gene: MISSy_25 Start: 21796, Stop: 24192, Start Num: 45

Candidate Starts for MISSy_25:

(Start: 45 @21796 has 134 MA's), (92, 21973), (96, 21994), (139, 22141), (163, 22282), (167, 22315), (171, 22348), (176, 22384), (196, 22477), (208, 22537), (213, 22555), (238, 22687), (245, 22732), (265, 22864), (272, 22909), (287, 22969), (307, 23083), (310, 23104), (318, 23143), (321, 23164), (325, 23179), (349, 23329), (351, 23335), (352, 23353), (362, 23407), (376, 23491), (390, 23584), (427, 23830), (450, 24046), (457, 24130), (464, 24163),

Gene: MPhalcon_25 Start: 21790, Stop: 24186, Start Num: 45

Candidate Starts for MPhalcon_25:

(Start: 45 @21790 has 134 MA's), (92, 21967), (96, 21988), (139, 22135), (163, 22276), (167, 22309), (171, 22342), (176, 22378), (196, 22471), (208, 22531), (213, 22549), (238, 22681), (245, 22726), (265, 22858), (272, 22903), (287, 22963), (307, 23077), (310, 23098), (318, 23137), (321, 23158), (325, 23173), (349, 23323), (351, 23329), (352, 23347), (362, 23401), (376, 23485), (390, 23578), (427, 23824), (450, 24040), (457, 24124), (464, 24157),

Gene: MadMen_19 Start: 17637, Stop: 20129, Start Num: 21

Candidate Starts for MadMen_19:

(Start: 21 @17637 has 242 MA's), (28, 17658), (Start: 35 @17679 has 1 MA's), (43, 17718), (64, 17787), (65, 17796), (66, 17799), (73, 17817), (80, 17850), (90, 17883), (94, 17916), (106, 17955), (112, 17970), (121, 18006), (124, 18015), (131, 18033), (137, 18057), (141, 18081), (165, 18228), (168, 18237), (171, 18261), (174, 18285), (181, 18309), (182, 18315), (187, 18336), (191, 18357), (196, 18387), (203, 18417), (206, 18438), (225, 18531), (227, 18546), (229, 18555), (234, 18576), (235, 18579), (250, 18663), (251, 18666), (252, 18675), (253, 18702), (255, 18711), (259, 18750), (263, 18771), (265, 18774), (271, 18810), (275, 18831), (290, 18909), (291, 18912), (304, 18966), (313, 19026), (330, 19119), (331, 19137), (332, 19140), (339, 19176), (348, 19230), (349, 19239), (359, 19317), (363, 19335), (369, 19371), (370, 19374), (374, 19392), (375, 19395), (376, 19410), (382, 19467), (384, 19479), (402, 19575), (411, 19662), (419, 19710), (421, 19734), (427, 19770), (429, 19809), (434, 19848), (438, 19872), (441, 19893), (450, 19989), (452, 20010), (460, 20073), (464, 20100), (467, 20109),

Gene: MadamMonkfish_26 Start: 21702, Stop: 24098, Start Num: 45

Candidate Starts for MadamMonkfish_26:

(Start: 45 @21702 has 134 MA's), (92, 21879), (96, 21900), (139, 22047), (167, 22221), (171, 22254), (176, 22290), (196, 22383), (208, 22443), (213, 22461), (238, 22593), (245, 22638), (265, 22770), (272, 22815), (287, 22875), (307, 22989), (310, 23010), (318, 23049), (321, 23070), (325, 23085), (349, 23235), (351, 23241), (352, 23259), (362, 23313), (376, 23397), (390, 23490), (427, 23736), (450, 23952), (457, 24036), (464, 24069),

Gene: Madiba_19 Start: 17273, Stop: 19762, Start Num: 21

Candidate Starts for Madiba_19:

(Start: 21 @17273 has 242 MA's), (28, 17294), (Start: 35 @17315 has 1 MA's), (43, 17354), (64, 17423), (65, 17432), (66, 17435), (73, 17453), (83, 17501), (112, 17603), (121, 17639), (123, 17645), (124, 17648), (131, 17666), (137, 17690), (141, 17714), (151, 17777), (165, 17861), (168, 17870), (171, 17894), (174, 17918), (181, 17942), (182, 17948), (187, 17969), (191, 17990), (196, 18020), (203, 18050), (206, 18071), (225, 18164), (227, 18179), (229, 18188), (234, 18209), (235, 18212), (250, 18296), (251, 18299), (252, 18308), (253, 18335), (255, 18344), (259, 18383), (263, 18404), (265, 18407), (271, 18443), (275, 18464), (290, 18542), (291, 18545), (304, 18599), (313, 18659), (330, 18752), (331, 18770), (332, 18773), (339, 18809), (348, 18863), (349, 18872), (359, 18950), (363, 18968), (369, 19004), (370, 19007), (374, 19025), (375, 19028), (376, 19043), (382, 19100),

(384, 19112), (402, 19208), (411, 19295), (419, 19343), (421, 19367), (425, 19394), (427, 19403),
(429, 19442), (434, 19481), (438, 19505), (441, 19526), (450, 19622), (452, 19643), (460, 19706),
(464, 19733), (467, 19742),

Gene: Mahavrat_18 Start: 17394, Stop: 19931, Start Num: 21

Candidate Starts for Mahavrat_18:

(Start: 21 @17394 has 242 MA's), (28, 17415), (Start: 35 @17436 has 1 MA's), (41, 17475), (64, 17544), (65, 17553), (66, 17556), (73, 17574), (80, 17607), (83, 17622), (120, 17781), (121, 17784),
(135, 17829), (145, 17907), (149, 17931), (Start: 161 @17997 has 1 MA's), (171, 18072), (172, 18078),
(181, 18120), (182, 18126), (183, 18129), (189, 18162), (191, 18168), (196, 18198), (202, 18219),
(206, 18249), (208, 18258), (229, 18366), (232, 18378), (234, 18387), (235, 18390), (236, 18399),
(237, 18405), (240, 18420), (241, 18423), (243, 18444), (252, 18486), (254, 18519), (272, 18630),
(273, 18633), (279, 18660), (282, 18666), (290, 18720), (291, 18723), (296, 18750), (299, 18759),
(310, 18825), (313, 18837), (314, 18840), (327, 18906), (329, 18927), (330, 18930), (332, 18951),
(341, 19002), (344, 19020), (345, 19023), (349, 19053), (352, 19077), (355, 19089), (356, 19098),
(374, 19194), (376, 19212), (378, 19221), (379, 19233), (382, 19269), (386, 19299), (391, 19320),
(396, 19344), (402, 19380), (416, 19494), (422, 19536), (438, 19671), (442, 19695), (447, 19749),
(452, 19818), (456, 19863), (457, 19866), (459, 19872),

Gene: Manda_27 Start: 22769, Stop: 25165, Start Num: 45

Candidate Starts for Manda_27:

(Start: 45 @22769 has 134 MA's), (92, 22946), (96, 22967), (139, 23114), (163, 23255), (167, 23288),
(171, 23321), (176, 23357), (196, 23450), (208, 23510), (213, 23528), (238, 23660), (245, 23705),
(265, 23837), (272, 23882), (287, 23942), (307, 24056), (310, 24077), (318, 24116), (321, 24137),
(325, 24152), (349, 24302), (351, 24308), (352, 24326), (362, 24380), (376, 24464), (390, 24557),
(427, 24803), (450, 25019), (457, 25103), (464, 25136),

Gene: Mandlovu_18 Start: 17495, Stop: 20032, Start Num: 21

Candidate Starts for Mandlovu_18:

(Start: 21 @17495 has 242 MA's), (28, 17516), (Start: 35 @17537 has 1 MA's), (41, 17576), (64, 17645), (65, 17654), (66, 17657), (73, 17675), (83, 17723), (120, 17882), (121, 17885), (134, 17927),
(135, 17930), (145, 18008), (148, 18029), (149, 18032), (Start: 161 @18098 has 1 MA's), (171, 18173),
(172, 18179), (181, 18221), (182, 18227), (183, 18230), (189, 18263), (191, 18269), (196, 18299),
(202, 18320), (206, 18350), (208, 18359), (229, 18467), (232, 18479), (234, 18488), (235, 18491),
(236, 18500), (237, 18506), (240, 18521), (241, 18524), (243, 18545), (252, 18587), (254, 18620),
(279, 18761), (282, 18767), (290, 18821), (291, 18824), (296, 18851), (310, 18926), (313, 18938),
(314, 18941), (327, 19007), (330, 19031), (332, 19052), (334, 19061), (344, 19121), (345, 19124),
(351, 19160), (352, 19178), (356, 19199), (360, 19226), (374, 19295), (376, 19313), (378, 19322),
(379, 19334), (382, 19370), (386, 19400), (402, 19481), (416, 19595), (422, 19637), (438, 19772),
(442, 19796), (447, 19850), (456, 19964), (457, 19967),

Gene: Mantra_18 Start: 17496, Stop: 20033, Start Num: 21

Candidate Starts for Mantra_18:

(Start: 21 @17496 has 242 MA's), (28, 17517), (Start: 35 @17538 has 1 MA's), (41, 17577), (64, 17646), (65, 17655), (66, 17658), (73, 17676), (83, 17724), (117, 17877), (121, 17886), (135, 17931),
(148, 18030), (149, 18033), (Start: 161 @18099 has 1 MA's), (171, 18174), (172, 18180), (174, 18198),
(181, 18222), (182, 18228), (183, 18231), (189, 18264), (191, 18270), (196, 18300), (202, 18321),
(206, 18351), (208, 18360), (212, 18375), (213, 18378), (234, 18489), (235, 18492), (236, 18501),
(237, 18507), (240, 18522), (241, 18525), (243, 18546), (250, 18576), (252, 18588), (254, 18621),
(272, 18732), (273, 18735), (279, 18762), (282, 18768), (290, 18822), (291, 18825), (308, 18912),
(310, 18927), (313, 18939), (314, 18942), (327, 19008), (330, 19032), (332, 19053), (334, 19062),
(344, 19122), (345, 19125), (351, 19161), (352, 19179), (355, 19191), (356, 19200), (360, 19227),
(372, 19284), (374, 19296), (376, 19314), (378, 19323), (379, 19335), (382, 19371), (386, 19401),

(390, 19410), (391, 19422), (402, 19482), (408, 19536), (416, 19596), (422, 19638), (438, 19773),
(442, 19797), (447, 19851), (450, 19899), (454, 19941), (456, 19965), (457, 19968),

Gene: Maravista_18 Start: 17343, Stop: 19880, Start Num: 21

Candidate Starts for Maravista_18:

(18, 17331), (Start: 21 @17343 has 242 MA's), (28, 17364), (Start: 35 @17385 has 1 MA's), (41, 17424), (64, 17493), (65, 17502), (66, 17505), (73, 17523), (80, 17556), (83, 17571), (94, 17619), (120, 17730), (121, 17733), (131, 17763), (134, 17775), (135, 17778), (145, 17856), (149, 17880), (Start: 161 @17946 has 1 MA's), (168, 17991), (171, 18021), (172, 18027), (174, 18045), (181, 18069), (183, 18078), (189, 18111), (191, 18117), (196, 18147), (205, 18186), (206, 18198), (208, 18207), (212, 18222), (213, 18225), (234, 18336), (235, 18339), (236, 18348), (237, 18354), (240, 18369), (241, 18372), (243, 18393), (250, 18423), (252, 18435), (254, 18468), (272, 18579), (273, 18582), (279, 18609), (282, 18615), (290, 18669), (291, 18672), (310, 18774), (313, 18786), (314, 18789), (327, 18855), (330, 18879), (332, 18900), (334, 18909), (344, 18969), (345, 18972), (351, 19008), (352, 19026), (355, 19038), (356, 19047), (360, 19074), (374, 19143), (376, 19161), (378, 19170), (379, 19182), (382, 19218), (386, 19248), (391, 19269), (396, 19293), (402, 19329), (408, 19383), (416, 19443), (422, 19485), (438, 19620), (442, 19644), (447, 19698), (450, 19746), (452, 19767), (454, 19788), (456, 19812), (457, 19815),

Gene: Marker_19 Start: 17246, Stop: 19783, Start Num: 21

Candidate Starts for Marker_19:

(Start: 21 @17246 has 242 MA's), (28, 17267), (Start: 35 @17288 has 1 MA's), (41, 17327), (64, 17396), (65, 17405), (66, 17408), (73, 17426), (83, 17474), (117, 17627), (121, 17636), (135, 17681), (148, 17780), (149, 17783), (Start: 161 @17849 has 1 MA's), (171, 17924), (172, 17930), (174, 17948), (181, 17972), (183, 17981), (189, 18014), (191, 18020), (196, 18050), (202, 18071), (205, 18089), (206, 18101), (208, 18110), (212, 18125), (213, 18128), (234, 18239), (235, 18242), (236, 18251), (237, 18257), (240, 18272), (241, 18275), (243, 18296), (250, 18326), (252, 18338), (254, 18371), (272, 18482), (273, 18485), (279, 18512), (282, 18518), (290, 18572), (291, 18575), (302, 18623), (308, 18662), (310, 18677), (313, 18689), (314, 18692), (317, 18713), (327, 18758), (330, 18782), (334, 18812), (341, 18854), (344, 18872), (345, 18875), (351, 18911), (352, 18929), (355, 18941), (356, 18950), (362, 18983), (374, 19046), (376, 19064), (378, 19073), (379, 19085), (386, 19151), (391, 19172), (396, 19196), (402, 19232), (408, 19286), (416, 19346), (422, 19388), (430, 19466), (438, 19523), (442, 19547), (447, 19601), (450, 19649), (454, 19691), (456, 19715), (457, 19718),

Gene: Marshmallow_26 Start: 22283, Stop: 24679, Start Num: 45

Candidate Starts for Marshmallow_26:

(Start: 45 @22283 has 134 MA's), (92, 22460), (96, 22481), (139, 22628), (163, 22769), (167, 22802), (171, 22835), (176, 22871), (196, 22964), (208, 23024), (213, 23042), (227, 23123), (265, 23351), (272, 23396), (310, 23591), (311, 23597), (314, 23606), (321, 23651), (325, 23666), (351, 23822), (352, 23840), (354, 23849), (376, 23978), (377, 23981), (407, 24191), (409, 24203), (427, 24317), (450, 24533), (457, 24617), (462, 24641), (464, 24650),

Gene: Martik_18 Start: 17406, Stop: 19958, Start Num: 21

Candidate Starts for Martik_18:

(Start: 21 @17406 has 242 MA's), (42, 17487), (64, 17556), (65, 17565), (66, 17568), (73, 17586), (83, 17634), (93, 17679), (120, 17793), (121, 17796), (125, 17808), (132, 17829), (134, 17838), (135, 17841), (142, 17889), (145, 17919), (155, 17985), (163, 18018), (168, 18054), (170, 18078), (182, 18138), (183, 18141), (187, 18159), (200, 18222), (202, 18225), (205, 18243), (208, 18264), (213, 18282), (217, 18309), (221, 18330), (227, 18363), (236, 18405), (237, 18411), (238, 18414), (241, 18429), (244, 18456), (245, 18459), (250, 18480), (252, 18492), (254, 18525), (269, 18618), (290, 18726), (293, 18750), (296, 18756), (301, 18774), (302, 18777), (305, 18801), (310, 18831), (316, 18855), (321, 18891), (322, 18897), (325, 18906), (329, 18933), (338, 18996), (341, 19020), (342, 19035), (349, 19077), (357, 19128), (375, 19224), (376, 19239), (378, 19248), (380, 19272), (390,

19335), (396, 19371), (436, 19677), (442, 19722), (450, 19824),

Gene: MaryV_43 Start: 28332, Stop: 30899, Start Num: 20

Candidate Starts for MaryV_43:

(Start: 20 @28332 has 6 MA's), (36, 28401), (69, 28524), (72, 28530), (73, 28533), (78, 28557), (82, 28578), (116, 28734), (119, 28740), (121, 28746), (130, 28776), (131, 28782), (135, 28803), (136, 28812), (144, 28872), (156, 28950), (172, 29049), (177, 29082), (182, 29097), (183, 29100), (191, 29139), (202, 29190), (205, 29208), (208, 29229), (209, 29235), (216, 29262), (219, 29289), (234, 29358), (239, 29382), (242, 29403), (245, 29424), (247, 29433), (252, 29454), (254, 29487), (255, 29490), (262, 29541), (265, 29553), (277, 29619), (283, 29637), (289, 29676), (310, 29793), (319, 29838), (329, 29895), (332, 29919), (334, 29928), (337, 29946), (344, 29991), (349, 30024), (353, 30060), (381, 30234), (382, 30252), (383, 30258), (393, 30315), (437, 30639), (440, 30657), (445, 30708), (451, 30771), (456, 30846),

Gene: Mattes_18 Start: 17397, Stop: 19922, Start Num: 21

Candidate Starts for Mattes_18:

(Start: 21 @17397 has 242 MA's), (28, 17418), (32, 17439), (42, 17478), (64, 17547), (65, 17556), (66, 17559), (73, 17577), (83, 17625), (94, 17673), (120, 17784), (121, 17787), (132, 17820), (135, 17832), (145, 17910), (155, 17976), (163, 18009), (169, 18063), (171, 18075), (182, 18129), (183, 18132), (186, 18141), (192, 18174), (200, 18213), (202, 18216), (204, 18231), (205, 18234), (209, 18261), (210, 18267), (212, 18270), (213, 18273), (217, 18300), (220, 18318), (221, 18321), (236, 18396), (240, 18417), (241, 18420), (244, 18447), (250, 18471), (254, 18516), (255, 18519), (262, 18570), (273, 18633), (275, 18642), (280, 18666), (302, 18771), (303, 18774), (310, 18825), (311, 18831), (313, 18837), (314, 18840), (321, 18885), (325, 18900), (329, 18927), (332, 18951), (341, 19002), (344, 19020), (345, 19023), (346, 19035), (355, 19089), (376, 19212), (383, 19275), (394, 19338), (404, 19413), (432, 19614), (453, 19824), (459, 19863), (460, 19866),

Gene: Maxxinista_27 Start: 21751, Stop: 24147, Start Num: 45

Candidate Starts for Maxxinista_27:

(Start: 45 @21751 has 134 MA's), (92, 21928), (96, 21949), (139, 22096), (167, 22270), (171, 22303), (176, 22339), (196, 22432), (208, 22492), (213, 22510), (238, 22642), (245, 22687), (265, 22819), (272, 22864), (287, 22924), (307, 23038), (310, 23059), (318, 23098), (321, 23119), (325, 23134), (349, 23284), (351, 23290), (352, 23308), (362, 23362), (376, 23446), (390, 23539), (427, 23785), (450, 24001), (457, 24085), (464, 24118),

Gene: Medindi_18 Start: 17393, Stop: 19930, Start Num: 21

Candidate Starts for Medindi_18:

(18, 17381), (Start: 21 @17393 has 242 MA's), (28, 17414), (Start: 35 @17435 has 1 MA's), (41, 17474), (64, 17543), (65, 17552), (66, 17555), (73, 17573), (80, 17606), (83, 17621), (94, 17669), (120, 17780), (121, 17783), (131, 17813), (133, 17816), (135, 17828), (145, 17906), (149, 17930), (Start: 161 @17996 has 1 MA's), (168, 18041), (171, 18071), (172, 18077), (174, 18095), (181, 18119), (183, 18128), (189, 18161), (191, 18167), (196, 18197), (206, 18248), (208, 18257), (212, 18272), (213, 18275), (234, 18386), (235, 18389), (236, 18398), (237, 18404), (240, 18419), (241, 18422), (243, 18443), (250, 18473), (252, 18485), (254, 18518), (272, 18629), (273, 18632), (279, 18659), (282, 18665), (290, 18719), (291, 18722), (310, 18824), (313, 18836), (314, 18839), (327, 18905), (329, 18926), (330, 18929), (332, 18950), (334, 18959), (344, 19019), (345, 19022), (351, 19058), (352, 19076), (355, 19088), (356, 19097), (360, 19124), (374, 19193), (376, 19211), (378, 19220), (379, 19232), (382, 19268), (386, 19298), (391, 19319), (396, 19343), (402, 19379), (408, 19433), (416, 19493), (422, 19535), (430, 19613), (438, 19670), (442, 19694), (447, 19748), (450, 19796), (454, 19838), (456, 19862), (457, 19865),

Gene: Megatron06_31 Start: 26215, Stop: 29058, Start Num: 4

Candidate Starts for Megatron06_31:

(Start: 4 @26215 has 10 MA's), (9, 26347), (10, 26359), (12, 26368), (Start: 22 @26437 has 1 MA's), (24, 26443), (37, 26503), (40, 26524), (51, 26572), (63, 26614), (68, 26638), (77, 26671), (85, 26707), (89, 26719), (107, 26812), (121, 26869), (133, 26908), (151, 27034), (163, 27103), (166, 27133), (172, 27175), (183, 27226), (202, 27316), (205, 27334), (219, 27415), (227, 27454), (232, 27475), (254, 27613), (258, 27652), (271, 27715), (291, 27817), (331, 28042), (387, 28405), (392, 28432), (431, 28675), (436, 28708), (439, 28732), (450, 28852), (458, 28930), (470, 29017), (471, 29032), (472, 29038),

Gene: Melissauren88_18 Start: 17470, Stop: 19965, Start Num: 35

Candidate Starts for Melissauren88_18:

(18, 17416), (Start: 21 @17428 has 242 MA's), (28, 17449), (Start: 35 @17470 has 1 MA's), (41, 17509), (64, 17578), (65, 17587), (66, 17590), (73, 17608), (80, 17641), (83, 17656), (94, 17704), (120, 17815), (121, 17818), (131, 17848), (134, 17860), (135, 17863), (145, 17941), (149, 17965), (Start: 161 @18031 has 1 MA's), (168, 18076), (171, 18106), (172, 18112), (174, 18130), (181, 18154), (183, 18163), (189, 18196), (191, 18202), (196, 18232), (205, 18271), (206, 18283), (208, 18292), (212, 18307), (213, 18310), (234, 18421), (235, 18424), (236, 18433), (237, 18439), (240, 18454), (241, 18457), (243, 18478), (250, 18508), (252, 18520), (254, 18553), (272, 18664), (273, 18667), (279, 18694), (282, 18700), (290, 18754), (291, 18757), (308, 18844), (310, 18859), (313, 18871), (314, 18874), (327, 18940), (330, 18964), (332, 18985), (334, 18994), (344, 19054), (345, 19057), (351, 19093), (352, 19111), (355, 19123), (356, 19132), (360, 19159), (374, 19228), (376, 19246), (378, 19255), (379, 19267), (382, 19303), (386, 19333), (391, 19354), (396, 19378), (402, 19414), (408, 19468), (416, 19528), (422, 19570), (430, 19648), (438, 19705), (442, 19729), (447, 19783), (450, 19831), (454, 19873), (456, 19897), (457, 19900),

Gene: MiaZeal_36 Start: 27554, Stop: 30061, Start Num: 21

Candidate Starts for MiaZeal_36:

(Start: 21 @27554 has 242 MA's), (73, 27749), (80, 27785), (83, 27800), (106, 27887), (112, 27902), (134, 27977), (137, 27989), (142, 28016), (157, 28121), (165, 28160), (168, 28169), (171, 28193), (172, 28199), (174, 28217), (183, 28250), (186, 28259), (187, 28268), (189, 28283), (195, 28310), (196, 28319), (205, 28358), (206, 28370), (208, 28379), (225, 28463), (241, 28544), (245, 28574), (246, 28577), (252, 28607), (253, 28634), (255, 28643), (262, 28694), (263, 28703), (265, 28706), (271, 28742), (275, 28763), (285, 28799), (311, 28952), (321, 29006), (330, 29051), (331, 29069), (332, 29072), (339, 29111), (359, 29258), (362, 29267), (375, 29336), (376, 29351), (402, 29516), (411, 29603), (419, 29651), (427, 29702), (434, 29780), (458, 30002), (460, 30005), (464, 30032),

Gene: MilleniumForce_19 Start: 18211, Stop: 20748, Start Num: 21

Candidate Starts for MilleniumForce_19:

(18, 18199), (Start: 21 @18211 has 242 MA's), (28, 18232), (Start: 35 @18253 has 1 MA's), (41, 18292), (64, 18361), (65, 18370), (66, 18373), (73, 18391), (80, 18424), (83, 18439), (94, 18487), (120, 18598), (121, 18601), (131, 18631), (134, 18643), (135, 18646), (145, 18724), (149, 18748), (Start: 161 @18814 has 1 MA's), (168, 18859), (171, 18889), (172, 18895), (174, 18913), (181, 18937), (183, 18946), (189, 18979), (191, 18985), (196, 19015), (205, 19054), (206, 19066), (208, 19075), (212, 19090), (213, 19093), (234, 19204), (235, 19207), (236, 19216), (237, 19222), (240, 19237), (241, 19240), (243, 19261), (250, 19291), (252, 19303), (254, 19336), (272, 19447), (273, 19450), (279, 19477), (282, 19483), (290, 19537), (291, 19540), (310, 19642), (313, 19654), (314, 19657), (327, 19723), (330, 19747), (332, 19768), (334, 19777), (344, 19837), (345, 19840), (351, 19876), (352, 19894), (355, 19906), (356, 19915), (360, 19942), (374, 20011), (376, 20029), (378, 20038), (379, 20050), (382, 20086), (386, 20116), (391, 20137), (396, 20161), (402, 20197), (408, 20251), (416, 20311), (422, 20353), (430, 20431), (438, 20488), (442, 20512), (447, 20566), (450, 20614), (454, 20656), (456, 20680), (457, 20683),

Gene: Mindy_26 Start: 22062, Stop: 24458, Start Num: 45

Candidate Starts for Mindy_26:

(Start: 45 @22062 has 134 MA's), (92, 22239), (96, 22260), (139, 22407), (163, 22548), (167, 22581), (171, 22614), (176, 22650), (196, 22743), (208, 22803), (213, 22821), (242, 22977), (245, 22998), (262, 23118), (265, 23130), (272, 23175), (310, 23370), (314, 23385), (321, 23430), (325, 23445), (351, 23601), (352, 23619), (354, 23628), (376, 23757), (377, 23760), (407, 23970), (409, 23982), (427, 24096), (450, 24312), (457, 24396), (462, 24420), (464, 24429),

Gene: Minerva_39 Start: 31221, Stop: 33764, Start Num: 21

Candidate Starts for Minerva_39:

(14, 31164), (Start: 21 @31221 has 242 MA's), (71, 31410), (83, 31467), (93, 31512), (120, 31626), (121, 31629), (127, 31650), (132, 31662), (135, 31674), (145, 31752), (155, 31818), (163, 31851), (168, 31887), (170, 31911), (182, 31971), (183, 31974), (187, 31992), (200, 32055), (202, 32058), (205, 32076), (208, 32097), (213, 32115), (217, 32142), (221, 32163), (227, 32196), (237, 32244), (238, 32247), (241, 32262), (244, 32289), (250, 32313), (254, 32358), (275, 32484), (290, 32562), (303, 32616), (310, 32667), (311, 32673), (313, 32679), (314, 32682), (321, 32727), (325, 32742), (329, 32769), (332, 32793), (341, 32844), (344, 32862), (345, 32865), (346, 32877), (355, 32931), (362, 32973), (383, 33117), (392, 33171), (393, 33177), (394, 33180), (399, 33216), (401, 33219), (403, 33228), (404, 33255), (432, 33456), (450, 33627), (453, 33666), (460, 33708),

Gene: MinionDave_19 Start: 18080, Stop: 20617, Start Num: 21

Candidate Starts for MinionDave_19:

(Start: 21 @18080 has 242 MA's), (47, 18170), (64, 18230), (65, 18239), (66, 18242), (73, 18260), (80, 18293), (83, 18308), (94, 18356), (120, 18467), (121, 18470), (131, 18500), (134, 18512), (135, 18515), (145, 18593), (149, 18617), (Start: 161 @18683 has 1 MA's), (168, 18728), (171, 18758), (172, 18764), (174, 18782), (181, 18806), (183, 18815), (189, 18848), (191, 18854), (196, 18884), (205, 18923), (206, 18935), (208, 18944), (212, 18959), (213, 18962), (234, 19073), (235, 19076), (236, 19085), (237, 19091), (240, 19106), (241, 19109), (243, 19130), (250, 19160), (252, 19172), (254, 19205), (272, 19316), (273, 19319), (279, 19346), (282, 19352), (290, 19406), (291, 19409), (308, 19496), (310, 19511), (313, 19523), (314, 19526), (327, 19592), (330, 19616), (332, 19637), (334, 19646), (344, 19706), (345, 19709), (351, 19745), (352, 19763), (355, 19775), (356, 19784), (360, 19811), (374, 19880), (376, 19898), (378, 19907), (379, 19919), (382, 19955), (386, 19985), (391, 20006), (396, 20030), (402, 20066), (408, 20120), (416, 20180), (422, 20222), (430, 20300), (438, 20357), (442, 20381), (447, 20435), (450, 20483), (454, 20525), (456, 20549), (457, 20552),

Gene: Miniwave_26 Start: 22481, Stop: 24877, Start Num: 45

Candidate Starts for Miniwave_26:

(Start: 45 @22481 has 134 MA's), (92, 22658), (96, 22679), (139, 22826), (163, 22967), (167, 23000), (171, 23033), (176, 23069), (196, 23162), (208, 23222), (213, 23240), (238, 23372), (245, 23417), (265, 23549), (272, 23594), (287, 23654), (307, 23768), (310, 23789), (318, 23828), (321, 23849), (325, 23864), (349, 24014), (351, 24020), (352, 24038), (362, 24092), (376, 24176), (390, 24269), (427, 24515), (450, 24731), (457, 24815), (464, 24848),

Gene: Minnie_19 Start: 17940, Stop: 20477, Start Num: 21

Candidate Starts for Minnie_19:

(18, 17928), (Start: 21 @17940 has 242 MA's), (28, 17961), (Start: 35 @17982 has 1 MA's), (41, 18021), (64, 18090), (65, 18099), (66, 18102), (73, 18120), (80, 18153), (83, 18168), (94, 18216), (120, 18327), (121, 18330), (131, 18360), (134, 18372), (135, 18375), (145, 18453), (149, 18477), (Start: 161 @18543 has 1 MA's), (168, 18588), (171, 18618), (172, 18624), (174, 18642), (181, 18666), (183, 18675), (189, 18708), (191, 18714), (196, 18744), (205, 18783), (206, 18795), (208, 18804), (212, 18819), (213, 18822), (234, 18933), (235, 18936), (236, 18945), (237, 18951), (240, 18966), (241, 18969), (243, 18990), (250, 19020), (252, 19032), (254, 19065), (272, 19176), (273, 19179), (279, 19206), (282, 19212), (290, 19266), (291, 19269), (310, 19371), (313, 19383), (314, 19386), (327, 19452), (330, 19476), (332, 19497), (334, 19506), (344, 19566), (345, 19569), (351, 19605), (352, 19623), (355, 19635), (356, 19644), (360, 19671), (374, 19740), (376, 19758), (378, 19767), (379,

19779), (382, 19815), (386, 19845), (391, 19866), (396, 19890), (402, 19926), (408, 19980), (416, 20040), (422, 20082), (430, 20160), (438, 20217), (442, 20241), (447, 20295), (450, 20343), (454, 20385), (456, 20409), (457, 20412),

Gene: Misfit_26 Start: 22371, Stop: 24767, Start Num: 45

Candidate Starts for Misfit_26:

(Start: 45 @22371 has 134 MA's), (92, 22548), (96, 22569), (139, 22716), (163, 22857), (167, 22890), (171, 22923), (176, 22959), (196, 23052), (208, 23112), (213, 23130), (238, 23262), (245, 23307), (265, 23439), (272, 23484), (287, 23544), (307, 23658), (310, 23679), (318, 23718), (321, 23739), (325, 23754), (349, 23904), (351, 23910), (352, 23928), (362, 23982), (376, 24066), (390, 24159), (427, 24405), (450, 24621), (457, 24705), (464, 24738),

Gene: Misha28_19 Start: 17273, Stop: 19798, Start Num: 21

Candidate Starts for Misha28_19:

(Start: 21 @17273 has 242 MA's), (28, 17294), (Start: 35 @17315 has 1 MA's), (41, 17354), (64, 17423), (65, 17432), (66, 17435), (73, 17453), (80, 17486), (83, 17501), (94, 17549), (120, 17660), (121, 17663), (135, 17708), (145, 17786), (149, 17810), (Start: 161 @17876 has 1 MA's), (168, 17921), (171, 17951), (172, 17957), (174, 17975), (181, 17999), (183, 18008), (189, 18041), (191, 18047), (196, 18077), (205, 18116), (206, 18128), (208, 18137), (212, 18152), (213, 18155), (241, 18302), (250, 18353), (264, 18464), (273, 18515), (278, 18539), (296, 18632), (305, 18677), (307, 18686), (310, 18707), (313, 18719), (314, 18722), (321, 18767), (330, 18812), (331, 18830), (332, 18833), (341, 18884), (349, 18935), (351, 18941), (352, 18959), (355, 18971), (356, 18980), (362, 19013), (376, 19094), (384, 19163), (390, 19190), (393, 19217), (403, 19268), (408, 19316), (441, 19559), (450, 19664), (452, 19685), (459, 19739), (463, 19763),

Gene: MisterCuddles_18 Start: 17371, Stop: 19908, Start Num: 21

Candidate Starts for MisterCuddles_18:

(Start: 21 @17371 has 242 MA's), (28, 17392), (Start: 35 @17413 has 1 MA's), (41, 17452), (64, 17521), (65, 17530), (66, 17533), (73, 17551), (80, 17584), (83, 17599), (117, 17752), (121, 17761), (135, 17806), (148, 17905), (149, 17908), (Start: 161 @17974 has 1 MA's), (171, 18049), (172, 18055), (181, 18097), (182, 18103), (183, 18106), (189, 18139), (191, 18145), (196, 18175), (202, 18196), (206, 18226), (208, 18235), (212, 18250), (213, 18253), (234, 18364), (235, 18367), (236, 18376), (237, 18382), (240, 18397), (241, 18400), (243, 18421), (250, 18451), (252, 18463), (254, 18496), (272, 18607), (273, 18610), (279, 18637), (282, 18643), (290, 18697), (291, 18700), (308, 18787), (310, 18802), (313, 18814), (314, 18817), (327, 18883), (330, 18907), (332, 18928), (334, 18937), (341, 18979), (344, 18997), (345, 19000), (349, 19030), (352, 19054), (355, 19066), (356, 19075), (374, 19171), (376, 19189), (378, 19198), (379, 19210), (382, 19246), (386, 19276), (390, 19285), (391, 19297), (402, 19357), (408, 19411), (416, 19471), (422, 19513), (438, 19648), (442, 19672), (447, 19726), (450, 19774), (454, 19816), (456, 19840), (457, 19843),

Gene: Modragons_18 Start: 17634, Stop: 20171, Start Num: 21

Candidate Starts for Modragons_18:

(Start: 21 @17634 has 242 MA's), (28, 17655), (Start: 35 @17676 has 1 MA's), (41, 17715), (64, 17784), (65, 17793), (66, 17796), (73, 17814), (83, 17862), (120, 18021), (121, 18024), (134, 18066), (135, 18069), (145, 18147), (148, 18168), (149, 18171), (Start: 161 @18237 has 1 MA's), (163, 18246), (168, 18282), (171, 18312), (172, 18318), (181, 18360), (182, 18366), (183, 18369), (189, 18402), (191, 18408), (196, 18438), (202, 18459), (206, 18489), (208, 18498), (229, 18606), (232, 18618), (234, 18627), (235, 18630), (236, 18639), (237, 18645), (240, 18660), (241, 18663), (243, 18684), (252, 18726), (254, 18759), (279, 18900), (282, 18906), (290, 18960), (291, 18963), (296, 18990), (310, 19065), (313, 19077), (314, 19080), (327, 19146), (329, 19167), (330, 19170), (332, 19191), (341, 19242), (344, 19260), (345, 19263), (349, 19293), (352, 19317), (355, 19329), (374, 19434), (376, 19452), (378, 19461), (379, 19473), (382, 19509), (386, 19539), (391, 19560), (396, 19584), (402, 19620), (416, 19734), (422, 19776), (430, 19854), (438, 19911), (442, 19935), (447, 19989),

(450, 20037), (454, 20079), (456, 20103), (457, 20106),

Gene: Moldemort_27 Start: 22026, Stop: 24422, Start Num: 45

Candidate Starts for Moldemort_27:

(Start: 45 @22026 has 134 MA's), (92, 22203), (96, 22224), (139, 22371), (167, 22545), (171, 22578), (176, 22614), (196, 22707), (208, 22767), (213, 22785), (238, 22917), (245, 22962), (265, 23094), (272, 23139), (287, 23199), (307, 23313), (310, 23334), (318, 23373), (321, 23394), (325, 23409), (349, 23559), (351, 23565), (352, 23583), (362, 23637), (376, 23721), (390, 23814), (427, 24060), (450, 24276), (457, 24360), (464, 24393),

Gene: MollyToe_26 Start: 22455, Stop: 24851, Start Num: 45

Candidate Starts for MollyToe_26:

(Start: 45 @22455 has 134 MA's), (92, 22632), (96, 22653), (139, 22800), (163, 22941), (167, 22974), (171, 23007), (176, 23043), (196, 23136), (208, 23196), (213, 23214), (238, 23346), (245, 23391), (265, 23523), (272, 23568), (307, 23742), (310, 23763), (318, 23802), (321, 23823), (325, 23838), (351, 23994), (352, 24012), (362, 24066), (376, 24150), (390, 24243), (427, 24489), (450, 24705), (457, 24789), (464, 24822),

Gene: MooMoo_18 Start: 17135, Stop: 19570, Start Num: 21

Candidate Starts for MooMoo_18:

(Start: 21 @17135 has 242 MA's), (26, 17147), (30, 17168), (39, 17213), (44, 17231), (48, 17243), (67, 17318), (92, 17414), (97, 17441), (102, 17450), (108, 17468), (110, 17471), (113, 17480), (137, 17555), (138, 17564), (140, 17573), (158, 17651), (171, 17717), (172, 17723), (178, 17759), (180, 17762), (181, 17765), (182, 17771), (186, 17783), (187, 17792), (189, 17807), (198, 17858), (204, 17879), (205, 17882), (208, 17903), (215, 17927), (222, 17972), (234, 18032), (235, 18035), (239, 18056), (242, 18077), (247, 18110), (250, 18119), (254, 18164), (255, 18167), (256, 18173), (259, 18206), (262, 18218), (263, 18227), (265, 18230), (287, 18335), (291, 18368), (313, 18482), (322, 18536), (328, 18569), (329, 18572), (330, 18575), (331, 18593), (339, 18632), (349, 18695), (359, 18773), (363, 18791), (374, 18848), (375, 18851), (377, 18869), (383, 18929), (385, 18944), (396, 18998), (408, 19085), (421, 19190), (428, 19217), (434, 19289), (438, 19313), (450, 19430), (452, 19451), (458, 19511), (460, 19514), (464, 19541), (467, 19550),

Gene: Moonbeam_19 Start: 17889, Stop: 20426, Start Num: 21

Candidate Starts for Moonbeam_19:

(18, 17877), (Start: 21 @17889 has 242 MA's), (28, 17910), (Start: 35 @17931 has 1 MA's), (41, 17970), (64, 18039), (65, 18048), (66, 18051), (73, 18069), (80, 18102), (83, 18117), (94, 18165), (120, 18276), (121, 18279), (131, 18309), (134, 18321), (135, 18324), (145, 18402), (149, 18426), (Start: 161 @18492 has 1 MA's), (168, 18537), (171, 18567), (172, 18573), (174, 18591), (181, 18615), (183, 18624), (189, 18657), (191, 18663), (196, 18693), (205, 18732), (206, 18744), (208, 18753), (212, 18768), (213, 18771), (234, 18882), (235, 18885), (236, 18894), (237, 18900), (240, 18915), (241, 18918), (243, 18939), (250, 18969), (252, 18981), (254, 19014), (272, 19125), (273, 19128), (279, 19155), (282, 19161), (290, 19215), (291, 19218), (308, 19305), (310, 19320), (313, 19332), (314, 19335), (327, 19401), (330, 19425), (332, 19446), (334, 19455), (341, 19497), (344, 19515), (345, 19518), (351, 19554), (352, 19572), (355, 19584), (356, 19593), (360, 19620), (374, 19689), (376, 19707), (378, 19716), (379, 19728), (382, 19764), (386, 19794), (391, 19815), (396, 19839), (402, 19875), (408, 19929), (416, 19989), (422, 20031), (430, 20109), (438, 20166), (442, 20190), (447, 20244), (450, 20292), (454, 20334), (456, 20358), (457, 20361),

Gene: Mopey_30 Start: 24316, Stop: 26586, Start Num: 91

Candidate Starts for Mopey_30:

(Start: 91 @24316 has 22 MA's), (118, 24451), (122, 24460), (152, 24634), (153, 24640), (154, 24652), (181, 24805), (185, 24820), (188, 24835), (260, 25216), (261, 25222), (268, 25267), (288, 25354), (324, 25555), (326, 25561), (332, 25609), (336, 25639), (340, 25663), (366, 25852), (373, 25879),

(379, 25927), (389, 25999), (396, 26038), (397, 26059), (400, 26074), (403, 26092), (405, 26122), (417, 26206), (446, 26407), (450, 26449), (468, 26575),

Gene: Mosby_25 Start: 21791, Stop: 24187, Start Num: 45

Candidate Starts for Mosby_25:

(Start: 45 @21791 has 134 MA's), (92, 21968), (96, 21989), (139, 22136), (163, 22277), (167, 22310), (171, 22343), (176, 22379), (196, 22472), (208, 22532), (213, 22550), (238, 22682), (245, 22727), (265, 22859), (272, 22904), (307, 23078), (310, 23099), (318, 23138), (321, 23159), (325, 23174), (351, 23330), (352, 23348), (362, 23402), (376, 23486), (390, 23579), (427, 23825), (450, 24041), (457, 24125), (464, 24158),

Gene: Mova_19 Start: 17248, Stop: 19785, Start Num: 21

Candidate Starts for Mova_19:

(Start: 21 @17248 has 242 MA's), (28, 17269), (Start: 35 @17290 has 1 MA's), (41, 17329), (64, 17398), (65, 17407), (66, 17410), (73, 17428), (80, 17461), (83, 17476), (120, 17635), (121, 17638), (135, 17683), (145, 17761), (149, 17785), (Start: 161 @17851 has 1 MA's), (171, 17926), (172, 17932), (174, 17950), (181, 17974), (183, 17983), (189, 18016), (191, 18022), (196, 18052), (202, 18073), (205, 18091), (208, 18112), (212, 18127), (213, 18130), (229, 18220), (234, 18241), (235, 18244), (236, 18253), (237, 18259), (240, 18274), (241, 18277), (243, 18298), (252, 18340), (254, 18373), (265, 18439), (272, 18484), (273, 18487), (279, 18514), (282, 18520), (290, 18574), (291, 18577), (296, 18604), (308, 18664), (310, 18679), (313, 18691), (314, 18694), (327, 18760), (330, 18784), (334, 18814), (341, 18856), (344, 18874), (345, 18877), (351, 18913), (352, 18931), (355, 18943), (356, 18952), (360, 18979), (374, 19048), (376, 19066), (378, 19075), (379, 19087), (382, 19123), (386, 19153), (391, 19174), (396, 19198), (402, 19234), (408, 19288), (422, 19390), (438, 19525), (442, 19549), (447, 19603), (450, 19651), (454, 19693), (456, 19717), (457, 19720),

Gene: Mozy_19 Start: 17298, Stop: 19835, Start Num: 21

Candidate Starts for Mozy_19:

(Start: 21 @17298 has 242 MA's), (28, 17319), (Start: 35 @17340 has 1 MA's), (41, 17379), (64, 17448), (65, 17457), (66, 17460), (73, 17478), (80, 17511), (83, 17526), (120, 17685), (121, 17688), (131, 17718), (135, 17733), (145, 17811), (148, 17832), (149, 17835), (Start: 161 @17901 has 1 MA's), (171, 17976), (172, 17982), (181, 18024), (182, 18030), (183, 18033), (189, 18066), (191, 18072), (196, 18102), (202, 18123), (206, 18153), (208, 18162), (234, 18291), (235, 18294), (236, 18303), (237, 18309), (240, 18324), (241, 18327), (243, 18348), (250, 18378), (252, 18390), (254, 18423), (255, 18426), (265, 18489), (279, 18564), (282, 18570), (290, 18624), (291, 18627), (296, 18654), (310, 18729), (313, 18741), (314, 18744), (327, 18810), (330, 18834), (334, 18864), (344, 18924), (345, 18927), (351, 18963), (352, 18981), (356, 19002), (374, 19098), (376, 19116), (378, 19125), (379, 19137), (382, 19173), (391, 19224), (402, 19284), (408, 19338), (422, 19440), (430, 19518), (438, 19575), (442, 19599), (447, 19653), (450, 19701), (454, 19743), (456, 19767), (457, 19770),

Gene: MulchExplorer_20 Start: 18519, Stop: 21056, Start Num: 21

Candidate Starts for MulchExplorer_20:

(18, 18507), (Start: 21 @18519 has 242 MA's), (28, 18540), (Start: 35 @18561 has 1 MA's), (41, 18600), (64, 18669), (65, 18678), (66, 18681), (73, 18699), (80, 18732), (83, 18747), (94, 18795), (120, 18906), (121, 18909), (131, 18939), (134, 18951), (135, 18954), (145, 19032), (149, 19056), (Start: 161 @19122 has 1 MA's), (168, 19167), (171, 19197), (172, 19203), (174, 19221), (181, 19245), (183, 19254), (189, 19287), (191, 19293), (196, 19323), (205, 19362), (206, 19374), (208, 19383), (212, 19398), (213, 19401), (234, 19512), (235, 19515), (236, 19524), (237, 19530), (240, 19545), (241, 19548), (243, 19569), (250, 19599), (252, 19611), (254, 19644), (272, 19755), (273, 19758), (279, 19785), (282, 19791), (290, 19845), (291, 19848), (308, 19935), (310, 19950), (313, 19962), (314, 19965), (327, 20031), (330, 20055), (332, 20076), (334, 20085), (341, 20127), (344, 20145), (345, 20148), (351, 20184), (352, 20202), (355, 20214), (356, 20223), (360, 20250), (374, 20319), (376, 20337), (378, 20346), (379, 20358), (382, 20394), (386, 20424), (391, 20445), (396, 20469), (402,

20505), (408, 20559), (416, 20619), (422, 20661), (430, 20739), (438, 20796), (442, 20820), (447, 20874), (450, 20922), (454, 20964), (456, 20988), (457, 20991),

Gene: Murica_25 Start: 22268, Stop: 24664, Start Num: 45

Candidate Starts for Murica_25:

(Start: 45 @22268 has 134 MA's), (92, 22445), (96, 22466), (139, 22613), (163, 22754), (167, 22787), (171, 22820), (176, 22856), (196, 22949), (208, 23009), (213, 23027), (238, 23159), (245, 23204), (265, 23336), (272, 23381), (287, 23441), (307, 23555), (310, 23576), (318, 23615), (321, 23636), (325, 23651), (349, 23801), (351, 23807), (352, 23825), (362, 23879), (376, 23963), (390, 24056), (427, 24302), (450, 24518), (457, 24602), (464, 24635),

Gene: Murphy_27 Start: 22263, Stop: 24659, Start Num: 45

Candidate Starts for Murphy_27:

(Start: 45 @22263 has 134 MA's), (92, 22440), (96, 22461), (139, 22608), (163, 22749), (167, 22782), (171, 22815), (176, 22851), (196, 22944), (208, 23004), (213, 23022), (238, 23154), (245, 23199), (265, 23331), (272, 23376), (287, 23436), (307, 23550), (310, 23571), (318, 23610), (321, 23631), (325, 23646), (349, 23796), (351, 23802), (352, 23820), (362, 23874), (376, 23958), (390, 24051), (427, 24297), (450, 24513), (457, 24597), (464, 24630),

Gene: Mutaforma13_18 Start: 17444, Stop: 19981, Start Num: 21

Candidate Starts for Mutaforma13_18:

(18, 17432), (Start: 21 @17444 has 242 MA's), (28, 17465), (Start: 35 @17486 has 1 MA's), (40, 17522), (41, 17525), (64, 17594), (65, 17603), (66, 17606), (73, 17624), (80, 17657), (83, 17672), (94, 17720), (117, 17825), (120, 17831), (121, 17834), (131, 17864), (134, 17876), (135, 17879), (149, 17981), (Start: 161 @18047 has 1 MA's), (168, 18092), (171, 18122), (172, 18128), (174, 18146), (181, 18170), (183, 18179), (189, 18212), (191, 18218), (202, 18269), (205, 18287), (206, 18299), (208, 18308), (212, 18323), (214, 18329), (234, 18437), (236, 18449), (237, 18455), (240, 18470), (241, 18473), (243, 18494), (250, 18524), (252, 18536), (254, 18569), (265, 18635), (272, 18680), (273, 18683), (279, 18710), (282, 18716), (290, 18770), (291, 18773), (296, 18800), (310, 18875), (313, 18887), (314, 18890), (327, 18956), (330, 18980), (334, 19010), (341, 19052), (344, 19070), (345, 19073), (351, 19109), (352, 19127), (356, 19148), (360, 19175), (374, 19244), (376, 19262), (378, 19271), (379, 19283), (382, 19319), (391, 19370), (394, 19388), (402, 19430), (408, 19484), (422, 19586), (438, 19721), (442, 19745), (447, 19799), (450, 19847), (454, 19889), (456, 19913), (457, 19916),

Gene: Mwanjiwa_18 Start: 17382, Stop: 19919, Start Num: 21

Candidate Starts for Mwanjiwa_18:

(Start: 21 @17382 has 242 MA's), (28, 17403), (Start: 35 @17424 has 1 MA's), (41, 17463), (64, 17532), (65, 17541), (66, 17544), (73, 17562), (80, 17595), (83, 17610), (120, 17769), (121, 17772), (135, 17817), (145, 17895), (149, 17919), (Start: 161 @17985 has 1 MA's), (168, 18030), (171, 18060), (172, 18066), (174, 18084), (181, 18108), (183, 18117), (189, 18150), (191, 18156), (202, 18207), (205, 18225), (206, 18237), (208, 18246), (212, 18261), (234, 18375), (236, 18387), (237, 18393), (240, 18408), (241, 18411), (243, 18432), (250, 18462), (252, 18474), (254, 18507), (265, 18573), (272, 18618), (273, 18621), (279, 18648), (290, 18708), (291, 18711), (310, 18813), (313, 18825), (314, 18828), (327, 18894), (329, 18915), (330, 18918), (332, 18939), (334, 18948), (344, 19008), (345, 19011), (351, 19047), (352, 19065), (355, 19077), (356, 19086), (360, 19113), (374, 19182), (376, 19200), (378, 19209), (379, 19221), (382, 19257), (386, 19287), (391, 19308), (396, 19332), (402, 19368), (408, 19422), (422, 19524), (430, 19602), (438, 19659), (442, 19683), (447, 19737), (450, 19785), (454, 19827), (456, 19851), (457, 19854),

Gene: Myrale_26 Start: 22154, Stop: 24550, Start Num: 45

Candidate Starts for Myrale_26:

(Start: 45 @22154 has 134 MA's), (92, 22331), (96, 22352), (139, 22499), (163, 22640), (167, 22673), (171, 22706), (176, 22742), (196, 22835), (208, 22895), (213, 22913), (227, 22994), (265, 23222), (272, 23267), (310, 23462), (311, 23468), (314, 23477), (321, 23522), (325, 23537), (351, 23693), (352, 23711), (354, 23720), (363, 23774), (376, 23849), (377, 23852), (407, 24062), (409, 24074), (427, 24188), (450, 24404), (457, 24488), (462, 24512), (464, 24521),

Gene: Nala_26 Start: 22310, Stop: 24706, Start Num: 45

Candidate Starts for Nala_26:

(Start: 45 @22310 has 134 MA's), (92, 22487), (96, 22508), (139, 22655), (163, 22796), (167, 22829), (171, 22862), (176, 22898), (196, 22991), (208, 23051), (213, 23069), (238, 23201), (245, 23246), (265, 23378), (272, 23423), (287, 23483), (307, 23597), (310, 23618), (318, 23657), (321, 23678), (325, 23693), (349, 23843), (351, 23849), (352, 23867), (362, 23921), (376, 24005), (390, 24098), (427, 24344), (450, 24560), (457, 24644), (464, 24677),

Gene: Nebkiss_22 Start: 19932, Stop: 22502, Start Num: 17

Candidate Starts for Nebkiss_22:

(Start: 17 @19932 has 2 MA's), (26, 19989), (34, 20022), (54, 20100), (56, 20103), (74, 20157), (76, 20169), (90, 20217), (98, 20262), (115, 20334), (121, 20355), (127, 20376), (134, 20397), (135, 20400), (141, 20445), (155, 20544), (165, 20589), (172, 20634), (183, 20685), (187, 20703), (208, 20808), (209, 20814), (212, 20823), (213, 20826), (217, 20853), (221, 20874), (227, 20907), (229, 20916), (234, 20937), (236, 20949), (240, 20970), (250, 21024), (252, 21036), (254, 21069), (266, 21144), (271, 21171), (293, 21294), (302, 21321), (305, 21345), (310, 21375), (316, 21399), (322, 21441), (325, 21450), (342, 21579), (347, 21606), (355, 21657), (375, 21768), (376, 21783), (418, 22074), (438, 22242), (442, 22266), (454, 22410), (457, 22437), (459, 22443), (460, 22446),

Gene: NelitzaMV_26 Start: 22353, Stop: 24749, Start Num: 45

Candidate Starts for NelitzaMV_26:

(Start: 45 @22353 has 134 MA's), (92, 22530), (96, 22551), (139, 22698), (163, 22839), (167, 22872), (171, 22905), (176, 22941), (196, 23034), (208, 23094), (213, 23112), (242, 23268), (245, 23289), (262, 23409), (265, 23421), (272, 23466), (310, 23661), (314, 23676), (321, 23721), (325, 23736), (351, 23892), (352, 23910), (354, 23919), (376, 24048), (377, 24051), (407, 24261), (409, 24273), (427, 24387), (450, 24603), (457, 24687), (462, 24711), (464, 24720),

Gene: NewHope4_19 Start: 17446, Stop: 19983, Start Num: 21

Candidate Starts for NewHope4_19:

(Start: 21 @17446 has 242 MA's), (28, 17467), (Start: 35 @17488 has 1 MA's), (40, 17524), (41, 17527), (64, 17596), (65, 17605), (66, 17608), (73, 17626), (80, 17659), (83, 17674), (94, 17722), (117, 17827), (120, 17833), (121, 17836), (134, 17878), (135, 17881), (149, 17983), (Start: 161 @18049 has 1 MA's), (168, 18094), (171, 18124), (172, 18130), (174, 18148), (181, 18172), (183, 18181), (189, 18214), (191, 18220), (202, 18271), (205, 18289), (206, 18301), (208, 18310), (212, 18325), (214, 18331), (234, 18439), (236, 18451), (237, 18457), (240, 18472), (241, 18475), (243, 18496), (250, 18526), (252, 18538), (254, 18571), (265, 18637), (272, 18682), (273, 18685), (279, 18712), (282, 18718), (290, 18772), (291, 18775), (308, 18862), (310, 18877), (313, 18889), (314, 18892), (327, 18958), (332, 19003), (334, 19012), (344, 19072), (345, 19075), (351, 19111), (352, 19129), (355, 19141), (356, 19150), (360, 19177), (374, 19246), (376, 19264), (378, 19273), (379, 19285), (382, 19321), (386, 19351), (391, 19372), (396, 19396), (402, 19432), (408, 19486), (416, 19546), (422, 19588), (430, 19666), (438, 19723), (442, 19747), (447, 19801), (450, 19849), (454, 19891), (456, 19915), (457, 19918),

Gene: Nibley_31 Start: 26436, Stop: 28931, Start Num: 21

Candidate Starts for Nibley_31:

(Start: 21 @26436 has 242 MA's), (73, 26631), (80, 26667), (83, 26682), (106, 26769), (112, 26784), (121, 26820), (123, 26826), (134, 26859), (137, 26871), (165, 27042), (168, 27051), (171, 27075),

(182, 27129), (189, 27165), (191, 27171), (196, 27201), (203, 27231), (206, 27252), (208, 27261), (212, 27276), (225, 27345), (241, 27426), (242, 27435), (245, 27456), (246, 27459), (252, 27489), (255, 27525), (262, 27576), (263, 27585), (265, 27588), (269, 27615), (271, 27624), (275, 27645), (290, 27723), (291, 27726), (305, 27798), (311, 27834), (313, 27840), (320, 27882), (321, 27888), (329, 27930), (330, 27933), (332, 27954), (333, 27960), (334, 27963), (339, 27993), (359, 28134), (362, 28143), (363, 28152), (368, 28185), (374, 28209), (375, 28212), (376, 28227), (379, 28248), (382, 28284), (383, 28290), (384, 28296), (388, 28317), (392, 28344), (411, 28479), (421, 28551), (423, 28557), (427, 28575), (438, 28674), (450, 28791), (458, 28872), (460, 28875), (464, 28902),

Gene: Nichirin_18 Start: 17599, Stop: 20136, Start Num: 21

Candidate Starts for Nichirin_18:

(Start: 21 @17599 has 242 MA's), (28, 17620), (Start: 35 @17641 has 1 MA's), (41, 17680), (64, 17749), (65, 17758), (66, 17761), (73, 17779), (83, 17827), (120, 17986), (121, 17989), (135, 18034), (145, 18112), (148, 18133), (149, 18136), (Start: 161 @18202 has 1 MA's), (171, 18277), (172, 18283), (181, 18325), (182, 18331), (183, 18334), (189, 18367), (191, 18373), (196, 18403), (202, 18424), (206, 18454), (208, 18463), (229, 18571), (232, 18583), (234, 18592), (235, 18595), (236, 18604), (237, 18610), (240, 18625), (241, 18628), (243, 18649), (252, 18691), (254, 18724), (279, 18865), (282, 18871), (290, 18925), (291, 18928), (296, 18955), (310, 19030), (313, 19042), (314, 19045), (327, 19111), (329, 19132), (330, 19135), (332, 19156), (341, 19207), (344, 19225), (345, 19228), (349, 19258), (352, 19282), (356, 19303), (360, 19330), (362, 19336), (374, 19399), (376, 19417), (378, 19426), (379, 19438), (382, 19474), (386, 19504), (391, 19525), (416, 19699), (422, 19741), (430, 19819), (438, 19876), (442, 19900), (443, 19915), (447, 19954), (450, 20002), (454, 20044), (456, 20068), (457, 20071),

Gene: Nimbo_18 Start: 17400, Stop: 19937, Start Num: 21

Candidate Starts for Nimbo_18:

(Start: 21 @17400 has 242 MA's), (28, 17421), (Start: 35 @17442 has 1 MA's), (41, 17481), (64, 17550), (65, 17559), (66, 17562), (73, 17580), (83, 17628), (94, 17676), (120, 17787), (121, 17790), (135, 17835), (145, 17913), (149, 17937), (Start: 161 @18003 has 1 MA's), (171, 18078), (172, 18084), (174, 18102), (181, 18126), (183, 18135), (189, 18168), (191, 18174), (196, 18204), (202, 18225), (206, 18255), (208, 18264), (229, 18372), (232, 18384), (234, 18393), (235, 18396), (237, 18411), (240, 18426), (241, 18429), (243, 18450), (252, 18492), (254, 18525), (272, 18636), (273, 18639), (279, 18666), (282, 18672), (290, 18726), (291, 18729), (296, 18756), (310, 18831), (313, 18843), (314, 18846), (327, 18912), (329, 18933), (330, 18936), (332, 18957), (334, 18966), (341, 19008), (344, 19026), (345, 19029), (349, 19059), (352, 19083), (355, 19095), (356, 19104), (374, 19200), (376, 19218), (378, 19227), (379, 19239), (382, 19275), (386, 19305), (390, 19314), (391, 19326), (402, 19386), (408, 19440), (416, 19500), (422, 19542), (438, 19677), (442, 19701), (447, 19755), (450, 19803), (454, 19845), (456, 19869), (457, 19872),

Gene: Nimrod_26 Start: 22529, Stop: 24925, Start Num: 45

Candidate Starts for Nimrod_26:

(Start: 45 @22529 has 134 MA's), (92, 22706), (96, 22727), (139, 22874), (163, 23015), (167, 23048), (171, 23081), (176, 23117), (196, 23210), (208, 23270), (213, 23288), (238, 23420), (245, 23465), (265, 23597), (272, 23642), (287, 23702), (307, 23816), (310, 23837), (318, 23876), (321, 23897), (325, 23912), (349, 24062), (351, 24068), (352, 24086), (362, 24140), (376, 24224), (390, 24317), (427, 24563), (450, 24779), (457, 24863), (464, 24896),

Gene: Nish23_30 Start: 25681, Stop: 28524, Start Num: 4

Candidate Starts for Nish23_30:

(Start: 4 @25681 has 10 MA's), (9, 25813), (10, 25825), (12, 25834), (Start: 22 @25903 has 1 MA's), (24, 25909), (37, 25969), (40, 25990), (51, 26038), (63, 26080), (68, 26104), (77, 26137), (85, 26173), (89, 26185), (107, 26278), (121, 26335), (133, 26374), (151, 26500), (163, 26569), (166, 26599), (172, 26641), (183, 26692), (202, 26782), (205, 26800), (219, 26881), (227, 26920), (232, 26941), (254,

27079), (258, 27118), (271, 27181), (291, 27283), (331, 27508), (387, 27871), (392, 27898), (431, 28141), (436, 28174), (439, 28198), (450, 28318), (458, 28396), (470, 28483), (471, 28498), (472, 28504),

Gene: Nitzel_19 Start: 18136, Stop: 20673, Start Num: 21

Candidate Starts for Nitzel_19:

(Start: 21 @18136 has 242 MA's), (28, 18157), (Start: 35 @18178 has 1 MA's), (41, 18217), (64, 18286), (65, 18295), (66, 18298), (73, 18316), (80, 18349), (83, 18364), (94, 18412), (117, 18517), (120, 18523), (121, 18526), (134, 18568), (135, 18571), (149, 18673), (Start: 161 @18739 has 1 MA's), (168, 18784), (171, 18814), (172, 18820), (174, 18838), (181, 18862), (183, 18871), (189, 18904), (191, 18910), (202, 18961), (205, 18979), (206, 18991), (208, 19000), (212, 19015), (214, 19021), (234, 19129), (236, 19141), (237, 19147), (240, 19162), (241, 19165), (243, 19186), (250, 19216), (252, 19228), (254, 19261), (265, 19327), (272, 19372), (273, 19375), (279, 19402), (282, 19408), (290, 19462), (291, 19465), (296, 19492), (310, 19567), (313, 19579), (314, 19582), (327, 19648), (330, 19672), (334, 19702), (341, 19744), (344, 19762), (345, 19765), (351, 19801), (352, 19819), (355, 19831), (356, 19840), (360, 19867), (374, 19936), (376, 19954), (378, 19963), (379, 19975), (382, 20011), (391, 20062), (394, 20080), (402, 20122), (408, 20176), (416, 20236), (422, 20278), (438, 20413), (442, 20437), (447, 20491), (450, 20539), (454, 20581), (456, 20605), (457, 20608),

Gene: Nivrat_18 Start: 17405, Stop: 19930, Start Num: 21

Candidate Starts for Nivrat_18:

(Start: 21 @17405 has 242 MA's), (42, 17486), (64, 17555), (65, 17564), (66, 17567), (73, 17585), (83, 17633), (93, 17678), (120, 17792), (121, 17795), (125, 17807), (132, 17828), (134, 17837), (135, 17840), (142, 17888), (145, 17918), (155, 17984), (163, 18017), (168, 18053), (170, 18077), (182, 18137), (183, 18140), (187, 18158), (200, 18221), (202, 18224), (205, 18242), (208, 18263), (213, 18281), (217, 18308), (221, 18329), (227, 18362), (237, 18410), (238, 18413), (240, 18425), (241, 18428), (244, 18455), (250, 18479), (254, 18524), (275, 18650), (280, 18674), (303, 18782), (310, 18833), (313, 18845), (314, 18848), (321, 18893), (325, 18908), (329, 18935), (332, 18959), (341, 19010), (344, 19028), (345, 19031), (346, 19043), (355, 19097), (362, 19139), (383, 19283), (392, 19337), (393, 19343), (394, 19346), (399, 19382), (401, 19385), (403, 19394), (404, 19421), (432, 19622), (450, 19793), (453, 19832), (459, 19871), (460, 19874),

Gene: NoSleep_27 Start: 22023, Stop: 24419, Start Num: 45

Candidate Starts for NoSleep_27:

(Start: 45 @22023 has 134 MA's), (92, 22200), (96, 22221), (139, 22368), (167, 22542), (171, 22575), (176, 22611), (196, 22704), (208, 22764), (213, 22782), (238, 22914), (245, 22959), (265, 23091), (272, 23136), (287, 23196), (307, 23310), (310, 23331), (318, 23370), (321, 23391), (325, 23406), (349, 23556), (351, 23562), (352, 23580), (362, 23634), (376, 23718), (390, 23811), (427, 24057), (450, 24273), (457, 24357), (464, 24390),

Gene: NonchalantPear_26 Start: 21979, Stop: 24375, Start Num: 45

Candidate Starts for NonchalantPear_26:

(Start: 45 @21979 has 134 MA's), (92, 22156), (96, 22177), (139, 22324), (163, 22465), (167, 22498), (171, 22531), (176, 22567), (196, 22660), (208, 22720), (213, 22738), (238, 22870), (245, 22915), (265, 23047), (272, 23092), (287, 23152), (307, 23266), (310, 23287), (318, 23326), (321, 23347), (325, 23362), (349, 23512), (351, 23518), (352, 23536), (362, 23590), (376, 23674), (390, 23767), (427, 24013), (450, 24229), (457, 24313), (464, 24346),

Gene: NormanBulbieJr_18 Start: 17393, Stop: 19945, Start Num: 21

Candidate Starts for NormanBulbieJr_18:

(Start: 21 @17393 has 242 MA's), (42, 17474), (64, 17543), (65, 17552), (66, 17555), (73, 17573), (83, 17621), (93, 17666), (120, 17780), (121, 17783), (125, 17795), (132, 17816), (134, 17825), (135, 17828), (142, 17876), (145, 17906), (155, 17972), (163, 18005), (168, 18041), (170, 18065), (182,

18125), (183, 18128), (187, 18146), (200, 18209), (202, 18212), (205, 18230), (208, 18251), (213, 18269), (217, 18296), (221, 18317), (227, 18350), (236, 18392), (237, 18398), (238, 18401), (241, 18416), (244, 18443), (245, 18446), (250, 18467), (252, 18479), (254, 18512), (269, 18605), (290, 18713), (293, 18737), (296, 18743), (301, 18761), (302, 18764), (305, 18788), (310, 18818), (316, 18842), (321, 18878), (322, 18884), (325, 18893), (329, 18920), (338, 18983), (341, 19007), (342, 19022), (349, 19064), (357, 19115), (375, 19211), (376, 19226), (378, 19235), (380, 19259), (390, 19322), (396, 19358), (436, 19664), (442, 19709), (450, 19811),

Gene: Nova_30 Start: 24743, Stop: 27013, Start Num: 91

Candidate Starts for Nova_30:

(Start: 91 @24743 has 22 MA's), (118, 24878), (122, 24887), (152, 25061), (153, 25067), (154, 25079), (181, 25232), (185, 25247), (188, 25262), (209, 25376), (260, 25643), (261, 25649), (268, 25694), (288, 25781), (324, 25982), (326, 25988), (332, 26036), (336, 26066), (340, 26090), (366, 26279), (373, 26306), (379, 26354), (389, 26426), (396, 26465), (397, 26486), (400, 26501), (403, 26519), (405, 26549), (446, 26834), (450, 26876), (468, 27002),

Gene: Oaker_29 Start: 25939, Stop: 28782, Start Num: 4

Candidate Starts for Oaker_29:

(Start: 4 @25939 has 10 MA's), (9, 26071), (10, 26083), (12, 26092), (Start: 22 @26161 has 1 MA's), (24, 26167), (37, 26227), (40, 26248), (51, 26296), (63, 26338), (68, 26362), (77, 26395), (85, 26431), (89, 26443), (107, 26536), (121, 26593), (133, 26632), (163, 26827), (166, 26857), (172, 26899), (183, 26950), (202, 27040), (205, 27058), (219, 27139), (227, 27178), (232, 27199), (254, 27337), (258, 27376), (271, 27439), (291, 27541), (331, 27766), (387, 28129), (392, 28156), (431, 28399), (436, 28432), (439, 28456), (450, 28576), (458, 28654), (470, 28741), (471, 28756), (472, 28762),

Gene: Ochi17_18 Start: 17634, Stop: 20171, Start Num: 21

Candidate Starts for Ochi17_18:

(Start: 21 @17634 has 242 MA's), (28, 17655), (Start: 35 @17676 has 1 MA's), (41, 17715), (64, 17784), (65, 17793), (66, 17796), (73, 17814), (83, 17862), (120, 18021), (121, 18024), (134, 18066), (135, 18069), (145, 18147), (148, 18168), (149, 18171), (Start: 161 @18237 has 1 MA's), (163, 18246), (168, 18282), (171, 18312), (172, 18318), (181, 18360), (182, 18366), (183, 18369), (189, 18402), (191, 18408), (196, 18438), (202, 18459), (206, 18489), (208, 18498), (229, 18606), (232, 18618), (234, 18627), (235, 18630), (236, 18639), (237, 18645), (240, 18660), (241, 18663), (243, 18684), (252, 18726), (254, 18759), (279, 18900), (282, 18906), (290, 18960), (291, 18963), (296, 18990), (310, 19065), (313, 19077), (314, 19080), (327, 19146), (329, 19167), (330, 19170), (332, 19191), (341, 19242), (344, 19260), (345, 19263), (349, 19293), (352, 19317), (355, 19329), (374, 19434), (376, 19452), (378, 19461), (379, 19473), (382, 19509), (386, 19539), (391, 19560), (396, 19584), (402, 19620), (416, 19734), (422, 19776), (430, 19854), (438, 19911), (442, 19935), (447, 19989), (450, 20037), (454, 20079), (456, 20103), (457, 20106),

Gene: OfUltron_18 Start: 17634, Stop: 20171, Start Num: 21

Candidate Starts for OfUltron_18:

(Start: 21 @17634 has 242 MA's), (28, 17655), (Start: 35 @17676 has 1 MA's), (41, 17715), (64, 17784), (65, 17793), (66, 17796), (73, 17814), (83, 17862), (120, 18021), (121, 18024), (134, 18066), (135, 18069), (145, 18147), (148, 18168), (149, 18171), (Start: 161 @18237 has 1 MA's), (163, 18246), (168, 18282), (171, 18312), (172, 18318), (181, 18360), (182, 18366), (183, 18369), (189, 18402), (191, 18408), (196, 18438), (202, 18459), (206, 18489), (208, 18498), (229, 18606), (232, 18618), (234, 18627), (235, 18630), (236, 18639), (237, 18645), (240, 18660), (241, 18663), (243, 18684), (252, 18726), (254, 18759), (279, 18900), (282, 18906), (290, 18960), (291, 18963), (296, 18990), (310, 19065), (313, 19077), (314, 19080), (327, 19146), (329, 19167), (330, 19170), (332, 19191), (341, 19242), (344, 19260), (345, 19263), (349, 19293), (352, 19317), (355, 19329), (374, 19434), (376, 19452), (378, 19461), (379, 19473), (382, 19509), (386, 19539), (391, 19560), (396, 19584), (402, 19620), (416, 19734), (422, 19776), (430, 19854), (438, 19911), (442, 19935), (447, 19989),

(450, 20037), (454, 20079), (456, 20103), (457, 20106),

Gene: Ogoopogo_21 Start: 17660, Stop: 20149, Start Num: 21

Candidate Starts for Ogoopogo_21:

(Start: 21 @17660 has 242 MA's), (28, 17681), (Start: 35 @17702 has 1 MA's), (43, 17741), (64, 17810), (65, 17819), (66, 17822), (73, 17840), (83, 17888), (94, 17936), (112, 17990), (121, 18026), (123, 18032), (124, 18035), (131, 18053), (137, 18077), (141, 18101), (151, 18164), (165, 18248), (168, 18257), (171, 18281), (174, 18305), (181, 18329), (182, 18335), (187, 18356), (191, 18377), (196, 18407), (203, 18437), (206, 18458), (225, 18551), (227, 18566), (229, 18575), (234, 18596), (235, 18599), (250, 18683), (251, 18686), (252, 18695), (253, 18722), (255, 18731), (259, 18770), (263, 18791), (265, 18794), (271, 18830), (275, 18851), (290, 18929), (291, 18932), (304, 18986), (313, 19046), (330, 19139), (331, 19157), (332, 19160), (339, 19196), (348, 19250), (349, 19259), (359, 19337), (363, 19355), (369, 19391), (370, 19394), (374, 19412), (375, 19415), (376, 19430), (379, 19451), (382, 19487), (384, 19499), (396, 19562), (402, 19595), (411, 19682), (419, 19730), (421, 19754), (425, 19781), (427, 19790), (429, 19829), (434, 19868), (438, 19892), (441, 19913), (450, 20009), (452, 20030), (460, 20093), (464, 20120), (467, 20129),

Gene: Oksu_19 Start: 17479, Stop: 20016, Start Num: 21

Candidate Starts for Oksu_19:

(Start: 21 @17479 has 242 MA's), (28, 17500), (Start: 35 @17521 has 1 MA's), (41, 17560), (64, 17629), (65, 17638), (66, 17641), (73, 17659), (83, 17707), (117, 17860), (121, 17869), (135, 17914), (148, 18013), (149, 18016), (Start: 161 @18082 has 1 MA's), (171, 18157), (172, 18163), (174, 18181), (181, 18205), (182, 18211), (183, 18214), (189, 18247), (191, 18253), (196, 18283), (202, 18304), (206, 18334), (208, 18343), (212, 18358), (213, 18361), (234, 18472), (235, 18475), (236, 18484), (237, 18490), (240, 18505), (241, 18508), (243, 18529), (252, 18571), (254, 18604), (279, 18745), (282, 18751), (290, 18805), (291, 18808), (296, 18835), (310, 18910), (313, 18922), (314, 18925), (327, 18991), (329, 19012), (330, 19015), (332, 19036), (341, 19087), (344, 19105), (345, 19108), (349, 19138), (352, 19162), (355, 19174), (374, 19279), (376, 19297), (378, 19306), (379, 19318), (382, 19354), (386, 19384), (391, 19405), (396, 19429), (402, 19465), (416, 19579), (422, 19621), (430, 19699), (438, 19756), (442, 19780), (447, 19834), (450, 19882), (454, 19924), (456, 19948), (457, 19951),

Gene: OldBen_18 Start: 17370, Stop: 19907, Start Num: 21

Candidate Starts for OldBen_18:

(18, 17358), (Start: 21 @17370 has 242 MA's), (28, 17391), (Start: 35 @17412 has 1 MA's), (41, 17451), (64, 17520), (65, 17529), (66, 17532), (73, 17550), (83, 17598), (94, 17646), (120, 17757), (121, 17760), (135, 17805), (145, 17883), (149, 17907), (Start: 161 @17973 has 1 MA's), (168, 18018), (171, 18048), (172, 18054), (174, 18072), (181, 18096), (183, 18105), (189, 18138), (191, 18144), (196, 18174), (205, 18213), (206, 18225), (208, 18234), (212, 18249), (213, 18252), (234, 18363), (235, 18366), (236, 18375), (237, 18381), (240, 18396), (241, 18399), (243, 18420), (250, 18450), (252, 18462), (254, 18495), (272, 18606), (273, 18609), (279, 18636), (282, 18642), (290, 18696), (291, 18699), (310, 18801), (313, 18813), (314, 18816), (327, 18882), (330, 18906), (332, 18927), (334, 18936), (344, 18996), (345, 18999), (351, 19035), (352, 19053), (356, 19074), (360, 19101), (374, 19170), (376, 19188), (378, 19197), (379, 19209), (382, 19245), (391, 19296), (394, 19314), (402, 19356), (408, 19410), (422, 19512), (438, 19647), (442, 19671), (447, 19725), (452, 19794), (456, 19839), (457, 19842),

Gene: OlympiaSaint_18 Start: 17593, Stop: 20145, Start Num: 21

Candidate Starts for OlympiaSaint_18:

(Start: 21 @17593 has 242 MA's), (42, 17674), (64, 17743), (65, 17752), (66, 17755), (73, 17773), (83, 17821), (93, 17866), (120, 17980), (121, 17983), (125, 17995), (132, 18016), (134, 18025), (135, 18028), (142, 18076), (145, 18106), (155, 18172), (163, 18205), (168, 18241), (170, 18265), (182, 18325), (183, 18328), (187, 18346), (200, 18409), (202, 18412), (205, 18430), (208, 18451), (213,

18469), (217, 18496), (221, 18517), (227, 18550), (236, 18592), (237, 18598), (238, 18601), (241, 18616), (244, 18643), (245, 18646), (250, 18667), (252, 18679), (254, 18712), (269, 18805), (290, 18913), (293, 18937), (296, 18943), (301, 18961), (302, 18964), (305, 18988), (310, 19018), (316, 19042), (321, 19078), (322, 19084), (325, 19093), (329, 19120), (338, 19183), (341, 19207), (342, 19222), (349, 19264), (357, 19315), (375, 19411), (376, 19426), (378, 19435), (380, 19459), (390, 19522), (396, 19558), (436, 19864), (442, 19909), (450, 20011),

Gene: Omega_38 Start: 31431, Stop: 33986, Start Num: 21

Candidate Starts for Omega_38:

(Start: 21 @31431 has 242 MA's), (73, 31626), (80, 31662), (83, 31677), (94, 31725), (120, 31836), (121, 31839), (131, 31869), (135, 31884), (145, 31962), (149, 31986), (Start: 161 @32052 has 1 MA's), (168, 32097), (171, 32127), (172, 32133), (174, 32151), (181, 32175), (183, 32184), (189, 32217), (191, 32223), (196, 32253), (205, 32292), (206, 32304), (208, 32313), (212, 32328), (213, 32331), (234, 32442), (235, 32445), (236, 32454), (237, 32460), (240, 32475), (241, 32478), (243, 32499), (250, 32529), (252, 32541), (254, 32574), (265, 32640), (272, 32685), (273, 32688), (279, 32715), (282, 32721), (290, 32775), (291, 32778), (308, 32865), (310, 32880), (313, 32892), (314, 32895), (327, 32961), (332, 33006), (334, 33015), (344, 33075), (345, 33078), (351, 33114), (352, 33132), (355, 33144), (356, 33153), (360, 33180), (374, 33249), (376, 33267), (378, 33276), (379, 33288), (382, 33324), (386, 33354), (391, 33375), (396, 33399), (402, 33435), (408, 33489), (416, 33549), (422, 33591), (438, 33726), (442, 33750), (447, 33804), (450, 33852), (454, 33894), (456, 33918), (457, 33921),

Gene: Optimus_37 Start: 30775, Stop: 33330, Start Num: 21

Candidate Starts for Optimus_37:

(14, 30718), (Start: 21 @30775 has 242 MA's), (73, 30970), (80, 31006), (83, 31021), (94, 31069), (117, 31174), (121, 31183), (135, 31228), (148, 31327), (149, 31330), (Start: 161 @31396 has 1 MA's), (171, 31471), (172, 31477), (174, 31495), (181, 31519), (183, 31528), (189, 31561), (191, 31567), (196, 31597), (205, 31636), (206, 31648), (208, 31657), (234, 31786), (235, 31789), (236, 31798), (237, 31804), (240, 31819), (241, 31822), (243, 31843), (250, 31873), (252, 31885), (254, 31918), (272, 32029), (273, 32032), (279, 32059), (282, 32065), (290, 32119), (291, 32122), (310, 32224), (313, 32236), (314, 32239), (327, 32305), (330, 32329), (332, 32350), (341, 32401), (344, 32419), (345, 32422), (349, 32452), (352, 32476), (355, 32488), (356, 32497), (374, 32593), (376, 32611), (378, 32620), (379, 32632), (386, 32698), (390, 32707), (391, 32719), (402, 32779), (422, 32935), (438, 33070), (442, 33094), (447, 33148), (452, 33217), (456, 33262), (457, 33265),

Gene: OrionPax_27 Start: 22029, Stop: 24425, Start Num: 45

Candidate Starts for OrionPax_27:

(Start: 45 @22029 has 134 MA's), (92, 22206), (96, 22227), (139, 22374), (167, 22548), (171, 22581), (176, 22617), (196, 22710), (208, 22770), (213, 22788), (238, 22920), (245, 22965), (265, 23097), (272, 23142), (287, 23202), (307, 23316), (310, 23337), (318, 23376), (321, 23397), (325, 23412), (349, 23562), (351, 23568), (352, 23586), (362, 23640), (376, 23724), (390, 23817), (427, 24063), (450, 24279), (457, 24363), (464, 24396),

Gene: Ovechkin_18 Start: 17427, Stop: 19964, Start Num: 21

Candidate Starts for Ovechkin_18:

(Start: 21 @17427 has 242 MA's), (28, 17448), (Start: 35 @17469 has 1 MA's), (40, 17505), (41, 17508), (64, 17577), (65, 17586), (66, 17589), (73, 17607), (80, 17640), (83, 17655), (94, 17703), (120, 17814), (121, 17817), (131, 17847), (134, 17859), (135, 17862), (145, 17940), (149, 17964), (Start: 161 @18030 has 1 MA's), (168, 18075), (171, 18105), (172, 18111), (174, 18129), (181, 18153), (183, 18162), (189, 18195), (191, 18201), (196, 18231), (205, 18270), (206, 18282), (208, 18291), (212, 18306), (213, 18309), (234, 18420), (235, 18423), (236, 18432), (237, 18438), (240, 18453), (241, 18456), (243, 18477), (250, 18507), (252, 18519), (254, 18552), (272, 18663), (273, 18666), (279, 18693), (282, 18699), (290, 18753), (291, 18756), (310, 18858), (313, 18870), (314, 18873), (327,

18939), (330, 18963), (332, 18984), (334, 18993), (344, 19053), (345, 19056), (351, 19092), (352, 19110), (355, 19122), (356, 19131), (360, 19158), (374, 19227), (376, 19245), (378, 19254), (379, 19266), (382, 19302), (386, 19332), (391, 19353), (396, 19377), (402, 19413), (408, 19467), (416, 19527), (422, 19569), (430, 19647), (438, 19704), (442, 19728), (447, 19782), (450, 19830), (454, 19872), (456, 19896), (457, 19899),

Gene: OwlsT2W_20 Start: 17765, Stop: 20317, Start Num: 21

Candidate Starts for OwlsT2W_20:

(Start: 21 @17765 has 242 MA's), (47, 17855), (64, 17915), (65, 17924), (66, 17927), (73, 17945), (83, 17993), (93, 18038), (120, 18152), (121, 18155), (125, 18167), (132, 18188), (134, 18197), (135, 18200), (145, 18278), (155, 18344), (163, 18377), (168, 18413), (170, 18437), (182, 18497), (183, 18500), (187, 18518), (200, 18581), (202, 18584), (205, 18602), (208, 18623), (213, 18641), (217, 18668), (221, 18689), (227, 18722), (236, 18764), (237, 18770), (238, 18773), (241, 18788), (244, 18815), (245, 18818), (250, 18839), (252, 18851), (254, 18884), (269, 18977), (290, 19085), (293, 19109), (296, 19115), (301, 19133), (302, 19136), (305, 19160), (310, 19190), (316, 19214), (321, 19250), (322, 19256), (325, 19265), (329, 19292), (338, 19355), (341, 19379), (342, 19394), (349, 19436), (357, 19487), (375, 19583), (376, 19598), (378, 19607), (380, 19631), (390, 19694), (396, 19730), (436, 20036), (442, 20081), (450, 20183),

Gene: PBI1_30 Start: 24247, Stop: 26517, Start Num: 91

Candidate Starts for PBI1_30:

(Start: 91 @24247 has 22 MA's), (118, 24382), (122, 24391), (152, 24565), (153, 24571), (154, 24583), (181, 24736), (185, 24751), (188, 24766), (260, 25147), (261, 25153), (268, 25198), (288, 25285), (324, 25486), (326, 25492), (332, 25540), (336, 25570), (340, 25594), (366, 25783), (373, 25810), (379, 25858), (389, 25930), (396, 25969), (397, 25990), (400, 26005), (403, 26023), (405, 26053), (417, 26137), (446, 26338), (450, 26380), (468, 26506),

Gene: PHappiness_18 Start: 17378, Stop: 19915, Start Num: 21

Candidate Starts for PHappiness_18:

(18, 17366), (Start: 21 @17378 has 242 MA's), (28, 17399), (Start: 35 @17420 has 1 MA's), (41, 17459), (64, 17528), (65, 17537), (66, 17540), (73, 17558), (83, 17606), (94, 17654), (120, 17765), (121, 17768), (135, 17813), (145, 17891), (149, 17915), (Start: 161 @17981 has 1 MA's), (168, 18026), (171, 18056), (172, 18062), (174, 18080), (181, 18104), (183, 18113), (189, 18146), (191, 18152), (196, 18182), (205, 18221), (206, 18233), (208, 18242), (212, 18257), (213, 18260), (234, 18371), (235, 18374), (236, 18383), (237, 18389), (240, 18404), (241, 18407), (243, 18428), (250, 18458), (252, 18470), (254, 18503), (272, 18614), (273, 18617), (279, 18644), (282, 18650), (290, 18704), (291, 18707), (310, 18809), (313, 18821), (314, 18824), (327, 18890), (330, 18914), (332, 18935), (334, 18944), (344, 19004), (345, 19007), (351, 19043), (352, 19061), (356, 19082), (360, 19109), (374, 19178), (376, 19196), (378, 19205), (379, 19217), (382, 19253), (391, 19304), (394, 19322), (402, 19364), (408, 19418), (422, 19520), (438, 19655), (442, 19679), (447, 19733), (452, 19802), (456, 19847), (457, 19850),

Gene: PLOT_31 Start: 24319, Stop: 26589, Start Num: 91

Candidate Starts for PLOT_31:

(Start: 91 @24319 has 22 MA's), (118, 24454), (122, 24463), (152, 24637), (153, 24643), (154, 24655), (181, 24808), (185, 24823), (188, 24838), (260, 25219), (261, 25225), (268, 25270), (288, 25357), (324, 25558), (326, 25564), (332, 25612), (336, 25642), (340, 25666), (366, 25855), (373, 25882), (379, 25930), (389, 26002), (396, 26041), (397, 26062), (400, 26077), (403, 26095), (405, 26125), (417, 26209), (446, 26410), (450, 26452), (468, 26578),

Gene: PMC_18 Start: 17383, Stop: 19920, Start Num: 21

Candidate Starts for PMC_18:

(Start: 21 @17383 has 242 MA's), (47, 17473), (64, 17533), (65, 17542), (66, 17545), (73, 17563), (83, 17611), (94, 17659), (117, 17764), (120, 17770), (121, 17773), (134, 17815), (135, 17818), (149, 17920), (Start: 161 @17986 has 1 MA's), (168, 18031), (171, 18061), (172, 18067), (174, 18085), (181, 18109), (183, 18118), (189, 18151), (191, 18157), (202, 18208), (205, 18226), (206, 18238), (208, 18247), (212, 18262), (214, 18268), (234, 18376), (236, 18388), (237, 18394), (240, 18409), (241, 18412), (243, 18433), (250, 18463), (252, 18475), (254, 18508), (265, 18574), (272, 18619), (273, 18622), (279, 18649), (282, 18655), (290, 18709), (291, 18712), (296, 18739), (310, 18814), (313, 18826), (314, 18829), (327, 18895), (329, 18916), (330, 18919), (334, 18949), (341, 18991), (344, 19009), (345, 19012), (349, 19042), (352, 19066), (355, 19078), (356, 19087), (374, 19183), (376, 19201), (378, 19210), (379, 19222), (386, 19288), (390, 19297), (391, 19309), (402, 19369), (422, 19525), (438, 19660), (442, 19684), (447, 19738), (452, 19807), (456, 19852), (457, 19855),

Gene: Pacc40_18 Start: 17568, Stop: 20105, Start Num: 21

Candidate Starts for Pacc40_18:

(18, 17556), (Start: 21 @17568 has 242 MA's), (28, 17589), (Start: 35 @17610 has 1 MA's), (41, 17649), (64, 17718), (65, 17727), (66, 17730), (73, 17748), (83, 17796), (94, 17844), (120, 17955), (121, 17958), (135, 18003), (145, 18081), (149, 18105), (Start: 161 @18171 has 1 MA's), (168, 18216), (171, 18246), (172, 18252), (174, 18270), (181, 18294), (183, 18303), (189, 18336), (191, 18342), (196, 18372), (205, 18411), (206, 18423), (208, 18432), (212, 18447), (213, 18450), (234, 18561), (235, 18564), (236, 18573), (237, 18579), (240, 18594), (241, 18597), (243, 18618), (250, 18648), (252, 18660), (254, 18693), (272, 18804), (273, 18807), (279, 18834), (282, 18840), (290, 18894), (291, 18897), (310, 18999), (313, 19011), (314, 19014), (327, 19080), (330, 19104), (332, 19125), (334, 19134), (344, 19194), (345, 19197), (351, 19233), (352, 19251), (356, 19272), (360, 19299), (374, 19368), (376, 19386), (378, 19395), (379, 19407), (382, 19443), (391, 19494), (394, 19512), (402, 19554), (408, 19608), (422, 19710), (438, 19845), (442, 19869), (447, 19923), (452, 19992), (456, 20037), (457, 20040),

Gene: PaddyBaddy_27 Start: 22039, Stop: 24435, Start Num: 45

Candidate Starts for PaddyBaddy_27:

(Start: 45 @22039 has 134 MA's), (92, 22216), (96, 22237), (139, 22384), (167, 22558), (171, 22591), (176, 22627), (196, 22720), (208, 22780), (213, 22798), (238, 22930), (245, 22975), (265, 23107), (272, 23152), (287, 23212), (307, 23326), (310, 23347), (318, 23386), (321, 23407), (325, 23422), (349, 23572), (351, 23578), (352, 23596), (362, 23650), (376, 23734), (390, 23827), (427, 24073), (450, 24289), (457, 24373), (464, 24406),

Gene: PaintedDog_20 Start: 18529, Stop: 21066, Start Num: 25

Candidate Starts for PaintedDog_20:

(2, 18220), (25, 18529), (29, 18553), (49, 18634), (55, 18664), (59, 18673), (66, 18700), (69, 18709), (114, 18919), (125, 18964), (128, 18976), (129, 18979), (148, 19114), (155, 19159), (Start: 161 @19183 has 1 MA's), (164, 19201), (170, 19237), (171, 19243), (181, 19291), (190, 19342), (193, 19351), (205, 19414), (212, 19450), (213, 19453), (214, 19456), (241, 19594), (253, 19681), (254, 19687), (272, 19798), (310, 19993), (321, 20053), (331, 20125), (332, 20128), (334, 20137), (376, 20398), (390, 20491), (393, 20518), (395, 20524), (417, 20671), (420, 20692), (455, 20992),

Gene: Palpatine_26 Start: 22301, Stop: 24697, Start Num: 45

Candidate Starts for Palpatine_26:

(Start: 45 @22301 has 134 MA's), (92, 22478), (96, 22499), (139, 22646), (163, 22787), (167, 22820), (171, 22853), (176, 22889), (196, 22982), (208, 23042), (213, 23060), (238, 23192), (245, 23237), (265, 23369), (272, 23414), (287, 23474), (307, 23588), (310, 23609), (318, 23648), (321, 23669), (325, 23684), (349, 23834), (351, 23840), (352, 23858), (362, 23912), (376, 23996), (390, 24089), (427, 24335), (450, 24551), (457, 24635), (464, 24668),

Gene: Paperbeatsrock_28 Start: 23264, Stop: 25660, Start Num: 45

Candidate Starts for Paperbeatsrock_28:

(Start: 45 @23264 has 134 MA's), (92, 23441), (96, 23462), (139, 23609), (163, 23750), (167, 23783), (171, 23816), (176, 23852), (196, 23945), (208, 24005), (213, 24023), (238, 24155), (245, 24200), (265, 24332), (272, 24377), (287, 24437), (307, 24551), (310, 24572), (318, 24611), (321, 24632), (325, 24647), (349, 24797), (351, 24803), (352, 24821), (362, 24875), (376, 24959), (390, 25052), (427, 25298), (450, 25514), (457, 25598), (464, 25631),

Gene: Pat3_25 Start: 21010, Stop: 23406, Start Num: 45

Candidate Starts for Pat3_25:

(Start: 45 @21010 has 134 MA's), (92, 21187), (96, 21208), (139, 21355), (163, 21496), (167, 21529), (171, 21562), (176, 21598), (196, 21691), (208, 21751), (213, 21769), (238, 21901), (245, 21946), (265, 22078), (272, 22123), (307, 22297), (310, 22318), (318, 22357), (321, 22378), (325, 22393), (351, 22549), (352, 22567), (362, 22621), (376, 22705), (424, 23029), (450, 23260), (457, 23344), (464, 23377),

Gene: PatoPoderoso_18 Start: 17437, Stop: 19974, Start Num: 21

Candidate Starts for PatoPoderoso_18:

(18, 17425), (Start: 21 @17437 has 242 MA's), (28, 17458), (Start: 35 @17479 has 1 MA's), (41, 17518), (64, 17587), (65, 17596), (66, 17599), (73, 17617), (80, 17650), (83, 17665), (94, 17713), (120, 17824), (121, 17827), (131, 17857), (134, 17869), (135, 17872), (145, 17950), (149, 17974), (Start: 161 @18040 has 1 MA's), (168, 18085), (171, 18115), (172, 18121), (174, 18139), (181, 18163), (183, 18172), (189, 18205), (191, 18211), (196, 18241), (205, 18280), (206, 18292), (208, 18301), (212, 18316), (213, 18319), (234, 18430), (235, 18433), (236, 18442), (237, 18448), (240, 18463), (241, 18466), (243, 18487), (250, 18517), (252, 18529), (254, 18562), (272, 18673), (273, 18676), (279, 18703), (282, 18709), (290, 18763), (291, 18766), (308, 18853), (310, 18868), (313, 18880), (314, 18883), (327, 18949), (330, 18973), (332, 18994), (334, 19003), (344, 19063), (345, 19066), (351, 19102), (352, 19120), (355, 19132), (356, 19141), (360, 19168), (374, 19237), (376, 19255), (378, 19264), (379, 19276), (382, 19312), (386, 19342), (391, 19363), (396, 19387), (402, 19423), (408, 19477), (416, 19537), (422, 19579), (430, 19657), (438, 19714), (442, 19738), (447, 19792), (450, 19840), (454, 19882), (456, 19906), (457, 19909),

Gene: Penelope2018_30 Start: 24316, Stop: 26586, Start Num: 91

Candidate Starts for Penelope2018_30:

(Start: 91 @24316 has 22 MA's), (118, 24451), (122, 24460), (152, 24634), (153, 24640), (154, 24652), (181, 24805), (185, 24820), (188, 24835), (260, 25216), (261, 25222), (268, 25267), (288, 25354), (326, 25561), (332, 25609), (336, 25639), (340, 25663), (366, 25852), (373, 25879), (379, 25927), (389, 25999), (396, 26038), (397, 26059), (400, 26074), (403, 26092), (405, 26122), (417, 26206), (446, 26407), (450, 26449), (468, 26575),

Gene: Peridot_20 Start: 17209, Stop: 19746, Start Num: 21

Candidate Starts for Peridot_20:

(18, 17197), (Start: 21 @17209 has 242 MA's), (28, 17230), (Start: 35 @17251 has 1 MA's), (41, 17290), (65, 17368), (66, 17371), (73, 17389), (80, 17422), (83, 17437), (94, 17485), (120, 17596), (121, 17599), (135, 17644), (145, 17722), (Start: 161 @17812 has 1 MA's), (171, 17887), (172, 17893), (174, 17911), (181, 17935), (182, 17941), (183, 17944), (189, 17977), (191, 17983), (196, 18013), (202, 18034), (206, 18064), (208, 18073), (212, 18088), (213, 18091), (234, 18202), (235, 18205), (236, 18214), (237, 18220), (240, 18235), (241, 18238), (243, 18259), (250, 18289), (252, 18301), (254, 18334), (272, 18445), (273, 18448), (279, 18475), (282, 18481), (290, 18535), (291, 18538), (310, 18640), (313, 18652), (314, 18655), (327, 18721), (330, 18745), (332, 18766), (334, 18775), (344, 18835), (345, 18838), (351, 18874), (352, 18892), (355, 18904), (356, 18913), (360, 18940), (372, 18997), (374, 19009), (376, 19027), (378, 19036), (379, 19048), (382, 19084), (386, 19114), (390, 19123), (391, 19135), (402, 19195), (408, 19249), (416, 19309), (422, 19351), (438, 19486), (442, 19510), (447, 19564), (450, 19612), (454, 19654), (456, 19678), (457, 19681),

Gene: Petra64142_28 Start: 22744, Stop: 25140, Start Num: 45

Candidate Starts for Petra64142_28:

(Start: 45 @22744 has 134 MA's), (92, 22921), (96, 22942), (139, 23089), (163, 23230), (167, 23263), (171, 23296), (176, 23332), (196, 23425), (208, 23485), (213, 23503), (238, 23635), (245, 23680), (265, 23812), (272, 23857), (287, 23917), (307, 24031), (310, 24052), (318, 24091), (321, 24112), (325, 24127), (349, 24277), (351, 24283), (352, 24301), (362, 24355), (376, 24439), (390, 24532), (427, 24778), (450, 24994), (457, 25078), (464, 25111),

Gene: Phaja_26 Start: 22460, Stop: 24856, Start Num: 45

Candidate Starts for Phaja_26:

(Start: 45 @22460 has 134 MA's), (92, 22637), (96, 22658), (139, 22805), (163, 22946), (167, 22979), (171, 23012), (176, 23048), (196, 23141), (208, 23201), (213, 23219), (242, 23375), (245, 23396), (262, 23516), (265, 23528), (272, 23573), (310, 23768), (311, 23774), (314, 23783), (321, 23828), (325, 23843), (351, 23999), (352, 24017), (354, 24026), (363, 24080), (376, 24155), (377, 24158), (407, 24368), (409, 24380), (427, 24494), (450, 24710), (457, 24794), (462, 24818), (464, 24827),

Gene: Phalaborwa_30 Start: 24343, Stop: 26613, Start Num: 91

Candidate Starts for Phalaborwa_30:

(Start: 91 @24343 has 22 MA's), (118, 24478), (122, 24487), (152, 24661), (154, 24679), (158, 24694), (181, 24832), (188, 24862), (200, 24928), (202, 24931), (248, 25147), (260, 25243), (261, 25249), (268, 25294), (288, 25381), (307, 25477), (312, 25507), (322, 25567), (324, 25582), (326, 25588), (332, 25636), (340, 25690), (343, 25720), (366, 25879), (373, 25906), (374, 25915), (379, 25954), (389, 26026), (397, 26086), (400, 26101), (403, 26119), (405, 26149), (413, 26203), (417, 26233), (446, 26434), (468, 26602),

Gene: Phalconet_18 Start: 17448, Stop: 19979, Start Num: 21

Candidate Starts for Phalconet_18:

(18, 17436), (Start: 21 @17448 has 242 MA's), (28, 17469), (Start: 35 @17490 has 1 MA's), (41, 17529), (64, 17598), (65, 17607), (66, 17610), (80, 17661), (83, 17676), (94, 17718), (120, 17829), (121, 17832), (131, 17862), (135, 17877), (145, 17955), (Start: 161 @18045 has 1 MA's), (168, 18090), (171, 18120), (172, 18126), (174, 18144), (181, 18168), (183, 18177), (189, 18210), (191, 18216), (196, 18246), (205, 18285), (206, 18297), (208, 18306), (212, 18321), (213, 18324), (234, 18435), (235, 18438), (236, 18447), (237, 18453), (240, 18468), (241, 18471), (243, 18492), (250, 18522), (252, 18534), (254, 18567), (265, 18633), (272, 18678), (273, 18681), (279, 18708), (282, 18714), (290, 18768), (291, 18771), (308, 18858), (310, 18873), (313, 18885), (314, 18888), (327, 18954), (332, 18999), (334, 19008), (344, 19068), (345, 19071), (351, 19107), (352, 19125), (355, 19137), (356, 19146), (360, 19173), (374, 19242), (376, 19260), (378, 19269), (379, 19281), (382, 19317), (386, 19347), (391, 19368), (396, 19392), (402, 19428), (408, 19482), (416, 19542), (422, 19584), (430, 19662), (438, 19719), (442, 19743), (447, 19797), (450, 19845), (454, 19887), (456, 19911), (457, 19914),

Gene: Phanphagia_18 Start: 17450, Stop: 19927, Start Num: 21

Candidate Starts for Phanphagia_18:

(19, 17438), (Start: 21 @17450 has 242 MA's), (28, 17471), (Start: 35 @17492 has 1 MA's), (43, 17531), (64, 17600), (65, 17609), (66, 17612), (73, 17630), (80, 17663), (83, 17678), (106, 17765), (112, 17780), (121, 17816), (123, 17822), (134, 17855), (137, 17867), (165, 18038), (168, 18047), (171, 18071), (182, 18125), (189, 18161), (191, 18167), (196, 18197), (203, 18227), (206, 18248), (208, 18257), (225, 18341), (237, 18404), (241, 18422), (242, 18431), (245, 18452), (246, 18455), (250, 18473), (252, 18485), (253, 18512), (255, 18521), (262, 18572), (263, 18581), (265, 18584), (269, 18611), (271, 18620), (275, 18641), (290, 18719), (291, 18722), (311, 18830), (313, 18836), (321, 18884), (329, 18926), (330, 18929), (332, 18950), (333, 18956), (334, 18959), (339, 18989), (359, 19130), (363, 19148), (368, 19181), (374, 19205), (375, 19208), (376, 19223), (379, 19244),

(382, 19280), (383, 19286), (388, 19313), (392, 19340), (411, 19475), (419, 19523), (421, 19547), (423, 19553), (427, 19571), (438, 19670), (441, 19691), (443, 19709), (450, 19787), (452, 19808), (460, 19871), (462, 19889), (467, 19907),

Gene: Pharsalus_27 Start: 23064, Stop: 25460, Start Num: 45

Candidate Starts for Pharsalus_27:

(Start: 45 @23064 has 134 MA's), (92, 23241), (96, 23262), (139, 23409), (163, 23550), (167, 23583), (171, 23616), (176, 23652), (196, 23745), (208, 23805), (213, 23823), (238, 23955), (245, 24000), (265, 24132), (272, 24177), (287, 24237), (307, 24351), (310, 24372), (318, 24411), (321, 24432), (325, 24447), (349, 24597), (351, 24603), (352, 24621), (362, 24675), (376, 24759), (390, 24852), (427, 25098), (450, 25314), (457, 25398), (464, 25431),

Gene: Phasih_19 Start: 17939, Stop: 20476, Start Num: 21

Candidate Starts for Phasih_19:

(Start: 21 @17939 has 242 MA's), (28, 17960), (Start: 35 @17981 has 1 MA's), (41, 18020), (64, 18089), (65, 18098), (66, 18101), (73, 18119), (80, 18152), (83, 18167), (117, 18320), (121, 18329), (135, 18374), (148, 18473), (149, 18476), (Start: 161 @18542 has 1 MA's), (171, 18617), (172, 18623), (181, 18665), (182, 18671), (183, 18674), (189, 18707), (191, 18713), (196, 18743), (202, 18764), (206, 18794), (208, 18803), (212, 18818), (213, 18821), (234, 18932), (235, 18935), (236, 18944), (237, 18950), (240, 18965), (241, 18968), (243, 18989), (250, 19019), (252, 19031), (254, 19064), (272, 19175), (273, 19178), (279, 19205), (282, 19211), (290, 19265), (291, 19268), (308, 19355), (310, 19370), (313, 19382), (314, 19385), (327, 19451), (330, 19475), (332, 19496), (334, 19505), (341, 19547), (344, 19565), (345, 19568), (349, 19598), (352, 19622), (355, 19634), (356, 19643), (374, 19739), (376, 19757), (378, 19766), (379, 19778), (382, 19814), (386, 19844), (390, 19853), (391, 19865), (402, 19925), (408, 19979), (416, 20039), (422, 20081), (438, 20216), (442, 20240), (447, 20294), (450, 20342), (454, 20384), (456, 20408), (457, 20411),

Gene: PhatBacter_26 Start: 22312, Stop: 24708, Start Num: 45

Candidate Starts for PhatBacter_26:

(Start: 45 @22312 has 134 MA's), (92, 22489), (96, 22510), (139, 22657), (163, 22798), (167, 22831), (171, 22864), (176, 22900), (196, 22993), (208, 23053), (213, 23071), (238, 23203), (245, 23248), (265, 23380), (272, 23425), (287, 23485), (307, 23599), (310, 23620), (318, 23659), (321, 23680), (325, 23695), (349, 23845), (351, 23851), (352, 23869), (362, 23923), (376, 24007), (390, 24100), (427, 24346), (450, 24562), (457, 24646), (464, 24679),

Gene: Phatniss_19 Start: 17901, Stop: 20438, Start Num: 21

Candidate Starts for Phatniss_19:

(18, 17889), (Start: 21 @17901 has 242 MA's), (28, 17922), (Start: 35 @17943 has 1 MA's), (41, 17982), (64, 18051), (65, 18060), (66, 18063), (73, 18081), (80, 18114), (83, 18129), (94, 18177), (117, 18282), (121, 18291), (134, 18333), (135, 18336), (145, 18414), (149, 18438), (Start: 161 @18504 has 1 MA's), (168, 18549), (171, 18579), (172, 18585), (174, 18603), (181, 18627), (183, 18636), (189, 18669), (191, 18675), (196, 18705), (205, 18744), (206, 18756), (208, 18765), (212, 18780), (213, 18783), (234, 18894), (236, 18906), (237, 18912), (240, 18927), (241, 18930), (243, 18951), (250, 18981), (252, 18993), (254, 19026), (265, 19092), (272, 19137), (273, 19140), (279, 19167), (282, 19173), (290, 19227), (291, 19230), (296, 19257), (310, 19332), (313, 19344), (314, 19347), (327, 19413), (330, 19437), (334, 19467), (341, 19509), (344, 19527), (345, 19530), (351, 19566), (352, 19584), (356, 19605), (360, 19632), (374, 19701), (376, 19719), (378, 19728), (379, 19740), (382, 19776), (386, 19806), (390, 19815), (391, 19827), (402, 19887), (408, 19941), (416, 20001), (422, 20043), (430, 20121), (438, 20178), (442, 20202), (447, 20256), (450, 20304), (454, 20346), (456, 20370), (457, 20373),

Gene: Phaux_25 Start: 22310, Stop: 24706, Start Num: 45

Candidate Starts for Phaux_25:

(Start: 45 @22310 has 134 MA's), (92, 22487), (96, 22508), (139, 22655), (163, 22796), (167, 22829), (171, 22862), (176, 22898), (196, 22991), (208, 23051), (213, 23069), (238, 23201), (245, 23246), (265, 23378), (272, 23423), (287, 23483), (307, 23597), (310, 23618), (318, 23657), (321, 23678), (325, 23693), (349, 23843), (351, 23849), (352, 23867), (362, 23921), (376, 24005), (390, 24098), (427, 24344), (450, 24560), (457, 24644), (464, 24677),

Gene: PhesterPhotato_18 Start: 17419, Stop: 19956, Start Num: 21

Candidate Starts for PhesterPhotato_18:

(18, 17407), (Start: 21 @17419 has 242 MA's), (28, 17440), (Start: 35 @17461 has 1 MA's), (41, 17500), (64, 17569), (65, 17578), (66, 17581), (73, 17599), (80, 17632), (83, 17647), (94, 17695), (120, 17806), (121, 17809), (131, 17839), (135, 17854), (145, 17932), (149, 17956), (Start: 161 @18022 has 1 MA's), (168, 18067), (171, 18097), (172, 18103), (174, 18121), (181, 18145), (183, 18154), (189, 18187), (191, 18193), (196, 18223), (205, 18262), (206, 18274), (208, 18283), (212, 18298), (213, 18301), (234, 18412), (235, 18415), (236, 18424), (237, 18430), (240, 18445), (241, 18448), (243, 18469), (250, 18499), (252, 18511), (254, 18544), (272, 18655), (273, 18658), (279, 18685), (282, 18691), (290, 18745), (291, 18748), (310, 18850), (313, 18862), (314, 18865), (327, 18931), (330, 18955), (332, 18976), (334, 18985), (344, 19045), (345, 19048), (351, 19084), (352, 19102), (355, 19114), (356, 19123), (360, 19150), (374, 19219), (376, 19237), (378, 19246), (379, 19258), (382, 19294), (386, 19324), (391, 19345), (396, 19369), (402, 19405), (408, 19459), (416, 19519), (422, 19561), (430, 19639), (438, 19696), (442, 19720), (443, 19735), (447, 19774), (450, 19822), (454, 19864), (456, 19888), (457, 19891),

Gene: Philus_18 Start: 17405, Stop: 19942, Start Num: 21

Candidate Starts for Philus_18:

(Start: 21 @17405 has 242 MA's), (28, 17426), (Start: 35 @17447 has 1 MA's), (41, 17486), (64, 17555), (65, 17564), (66, 17567), (73, 17585), (83, 17633), (117, 17786), (121, 17795), (135, 17840), (145, 17918), (149, 17942), (Start: 161 @18008 has 1 MA's), (168, 18053), (171, 18083), (172, 18089), (174, 18107), (181, 18131), (183, 18140), (189, 18173), (191, 18179), (196, 18209), (205, 18248), (208, 18269), (212, 18284), (213, 18287), (235, 18401), (236, 18410), (237, 18416), (241, 18434), (243, 18455), (250, 18485), (252, 18497), (254, 18530), (272, 18641), (273, 18644), (279, 18671), (282, 18677), (290, 18731), (291, 18734), (308, 18821), (310, 18836), (314, 18851), (330, 18941), (332, 18962), (334, 18971), (344, 19031), (345, 19034), (351, 19070), (352, 19088), (355, 19100), (356, 19109), (360, 19136), (374, 19205), (376, 19223), (378, 19232), (379, 19244), (382, 19280), (386, 19310), (391, 19331), (396, 19355), (402, 19391), (408, 19445), (422, 19547), (430, 19625), (438, 19682), (442, 19706), (447, 19760), (450, 19808), (454, 19850), (459, 19883), (460, 19886),

Gene: PhlipPhlop_18 Start: 17352, Stop: 19889, Start Num: 21

Candidate Starts for PhlipPhlop_18:

(Start: 21 @17352 has 242 MA's), (28, 17373), (Start: 35 @17394 has 1 MA's), (41, 17433), (64, 17502), (65, 17511), (66, 17514), (73, 17532), (83, 17580), (117, 17733), (121, 17742), (135, 17787), (148, 17886), (149, 17889), (Start: 161 @17955 has 1 MA's), (171, 18030), (172, 18036), (174, 18054), (181, 18078), (182, 18084), (183, 18087), (189, 18120), (191, 18126), (196, 18156), (202, 18177), (206, 18207), (208, 18216), (212, 18231), (213, 18234), (234, 18345), (235, 18348), (236, 18357), (237, 18363), (240, 18378), (241, 18381), (243, 18402), (250, 18432), (252, 18444), (254, 18477), (272, 18588), (273, 18591), (279, 18618), (282, 18624), (290, 18678), (291, 18681), (310, 18783), (313, 18795), (314, 18798), (327, 18864), (330, 18888), (332, 18909), (334, 18918), (344, 18978), (345, 18981), (351, 19017), (352, 19035), (355, 19047), (356, 19056), (360, 19083), (372, 19140), (374, 19152), (376, 19170), (378, 19179), (379, 19191), (382, 19227), (386, 19257), (390, 19266), (391, 19278), (402, 19338), (408, 19392), (416, 19452), (422, 19494), (438, 19629), (442, 19653), (447, 19707), (450, 19755), (454, 19797), (456, 19821), (457, 19824),

Gene: Phreeze_29 Start: 25682, Stop: 28525, Start Num: 4

Candidate Starts for Phreeze_29:

(Start: 4 @25682 has 10 MA's), (9, 25814), (10, 25826), (12, 25835), (Start: 22 @25904 has 1 MA's), (37, 25970), (40, 25991), (51, 26039), (63, 26081), (68, 26105), (77, 26138), (85, 26174), (89, 26186), (107, 26279), (121, 26336), (133, 26375), (163, 26570), (166, 26600), (172, 26642), (202, 26783), (205, 26801), (219, 26882), (227, 26921), (232, 26942), (254, 27080), (258, 27119), (271, 27182), (291, 27284), (331, 27509), (387, 27872), (392, 27899), (431, 28142), (436, 28175), (439, 28199), (450, 28319), (458, 28397), (470, 28484), (471, 28499), (472, 28505),

Gene: Phrux_26 Start: 22025, Stop: 24421, Start Num: 45

Candidate Starts for Phrux_26:

(Start: 45 @22025 has 134 MA's), (92, 22202), (96, 22223), (139, 22370), (167, 22544), (171, 22577), (176, 22613), (196, 22706), (208, 22766), (213, 22784), (238, 22916), (245, 22961), (265, 23093), (272, 23138), (287, 23198), (307, 23312), (310, 23333), (318, 23372), (321, 23393), (325, 23408), (349, 23558), (351, 23564), (352, 23582), (362, 23636), (376, 23720), (390, 23813), (427, 24059), (450, 24275), (457, 24359), (464, 24392),

Gene: Piper2020_19 Start: 17270, Stop: 19795, Start Num: 21

Candidate Starts for Piper2020_19:

(Start: 21 @17270 has 242 MA's), (28, 17291), (Start: 35 @17312 has 1 MA's), (41, 17351), (64, 17420), (65, 17429), (66, 17432), (73, 17450), (80, 17483), (83, 17498), (94, 17546), (120, 17657), (121, 17660), (135, 17705), (145, 17783), (149, 17807), (Start: 161 @17873 has 1 MA's), (163, 17882), (171, 17948), (172, 17954), (174, 17972), (181, 17996), (182, 18002), (183, 18005), (189, 18038), (191, 18044), (196, 18074), (202, 18095), (208, 18134), (212, 18149), (214, 18155), (241, 18299), (250, 18350), (264, 18461), (273, 18512), (278, 18536), (296, 18629), (305, 18674), (307, 18683), (310, 18704), (313, 18716), (314, 18719), (321, 18764), (330, 18809), (331, 18827), (332, 18830), (341, 18881), (349, 18932), (351, 18938), (352, 18956), (355, 18968), (356, 18977), (362, 19010), (376, 19091), (384, 19160), (390, 19187), (393, 19214), (403, 19265), (408, 19313), (441, 19556), (450, 19661), (452, 19682), (459, 19736), (463, 19760),

Gene: Plumbus_19 Start: 17226, Stop: 19763, Start Num: 21

Candidate Starts for Plumbus_19:

(18, 17214), (Start: 21 @17226 has 242 MA's), (28, 17247), (Start: 35 @17268 has 1 MA's), (41, 17307), (64, 17376), (65, 17385), (66, 17388), (73, 17406), (80, 17439), (83, 17454), (94, 17502), (120, 17613), (121, 17616), (131, 17646), (134, 17658), (135, 17661), (145, 17739), (149, 17763), (Start: 161 @17829 has 1 MA's), (168, 17874), (171, 17904), (172, 17910), (174, 17928), (181, 17952), (183, 17961), (189, 17994), (191, 18000), (196, 18030), (205, 18069), (206, 18081), (208, 18090), (212, 18105), (213, 18108), (234, 18219), (235, 18222), (236, 18231), (237, 18237), (240, 18252), (241, 18255), (243, 18276), (250, 18306), (252, 18318), (254, 18351), (265, 18417), (272, 18462), (273, 18465), (279, 18492), (282, 18498), (290, 18552), (291, 18555), (308, 18642), (310, 18657), (313, 18669), (314, 18672), (327, 18738), (330, 18762), (332, 18783), (334, 18792), (344, 18852), (345, 18855), (351, 18891), (352, 18909), (355, 18921), (356, 18930), (360, 18957), (374, 19026), (376, 19044), (378, 19053), (379, 19065), (382, 19101), (386, 19131), (391, 19152), (396, 19176), (402, 19212), (408, 19266), (416, 19326), (422, 19368), (430, 19446), (438, 19503), (442, 19527), (447, 19581), (450, 19629), (454, 19671), (456, 19695), (457, 19698),

Gene: Poenanya_18 Start: 17534, Stop: 20071, Start Num: 21

Candidate Starts for Poenanya_18:

(Start: 21 @17534 has 242 MA's), (28, 17555), (Start: 35 @17576 has 1 MA's), (41, 17615), (64, 17684), (65, 17693), (66, 17696), (73, 17714), (83, 17762), (120, 17921), (121, 17924), (135, 17969), (145, 18047), (149, 18071), (Start: 161 @18137 has 1 MA's), (171, 18212), (172, 18218), (174, 18236), (181, 18260), (182, 18266), (183, 18269), (189, 18302), (191, 18308), (196, 18338), (202, 18359), (206, 18389), (208, 18398), (229, 18506), (232, 18518), (234, 18527), (235, 18530), (237, 18545), (240, 18560), (241, 18563), (243, 18584), (252, 18626), (254, 18659), (272, 18770), (273, 18773), (279, 18800), (282, 18806), (290, 18860), (291, 18863), (296, 18890), (310, 18965), (313, 18977),

(314, 18980), (327, 19046), (329, 19067), (330, 19070), (332, 19091), (334, 19100), (344, 19160), (345, 19163), (351, 19199), (352, 19217), (355, 19229), (356, 19238), (360, 19265), (372, 19322), (374, 19334), (376, 19352), (378, 19361), (379, 19373), (382, 19409), (386, 19439), (390, 19448), (391, 19460), (402, 19520), (408, 19574), (416, 19634), (422, 19676), (438, 19811), (442, 19835), (447, 19889), (450, 19937), (454, 19979), (456, 20003), (457, 20006),

Gene: Policronamos_26 Start: 22312, Stop: 24708, Start Num: 45

Candidate Starts for Policronamos_26:

(Start: 45 @22312 has 134 MA's), (92, 22489), (96, 22510), (139, 22657), (163, 22798), (167, 22831), (171, 22864), (176, 22900), (196, 22993), (208, 23053), (213, 23071), (227, 23152), (265, 23380), (272, 23425), (310, 23620), (311, 23626), (314, 23635), (321, 23680), (325, 23695), (351, 23851), (352, 23869), (354, 23878), (363, 23932), (376, 24007), (407, 24220), (409, 24232), (427, 24346), (450, 24562), (457, 24646), (462, 24670), (464, 24679),

Gene: Polka14_19 Start: 17940, Stop: 20477, Start Num: 21

Candidate Starts for Polka14_19:

(18, 17928), (Start: 21 @17940 has 242 MA's), (28, 17961), (Start: 35 @17982 has 1 MA's), (41, 18021), (64, 18090), (65, 18099), (66, 18102), (73, 18120), (83, 18168), (94, 18216), (120, 18327), (121, 18330), (135, 18375), (145, 18453), (149, 18477), (Start: 161 @18543 has 1 MA's), (168, 18588), (171, 18618), (172, 18624), (174, 18642), (181, 18666), (183, 18675), (189, 18708), (191, 18714), (196, 18744), (205, 18783), (206, 18795), (208, 18804), (212, 18819), (213, 18822), (234, 18933), (235, 18936), (236, 18945), (237, 18951), (240, 18966), (241, 18969), (243, 18990), (250, 19020), (252, 19032), (254, 19065), (272, 19176), (273, 19179), (279, 19206), (282, 19212), (290, 19266), (291, 19269), (310, 19371), (313, 19383), (314, 19386), (327, 19452), (330, 19476), (332, 19497), (334, 19506), (344, 19566), (345, 19569), (351, 19605), (352, 19623), (356, 19644), (360, 19671), (374, 19740), (376, 19758), (378, 19767), (379, 19779), (382, 19815), (391, 19866), (394, 19884), (402, 19926), (408, 19980), (422, 20082), (438, 20217), (442, 20241), (447, 20295), (452, 20364), (456, 20409), (457, 20412),

Gene: Pollywog_21 Start: 18605, Stop: 21094, Start Num: 21

Candidate Starts for Pollywog_21:

(Start: 21 @18605 has 242 MA's), (28, 18626), (Start: 35 @18647 has 1 MA's), (43, 18686), (64, 18755), (65, 18764), (66, 18767), (73, 18785), (83, 18833), (94, 18881), (112, 18935), (121, 18971), (123, 18977), (124, 18980), (131, 18998), (137, 19022), (141, 19046), (151, 19109), (165, 19193), (168, 19202), (171, 19226), (174, 19250), (181, 19274), (182, 19280), (187, 19301), (191, 19322), (196, 19352), (203, 19382), (206, 19403), (225, 19496), (227, 19511), (229, 19520), (234, 19541), (235, 19544), (250, 19628), (251, 19631), (252, 19640), (253, 19667), (255, 19676), (259, 19715), (263, 19736), (265, 19739), (271, 19775), (275, 19796), (290, 19874), (291, 19877), (304, 19931), (313, 19991), (330, 20084), (331, 20102), (332, 20105), (339, 20141), (348, 20195), (349, 20204), (359, 20282), (363, 20300), (369, 20336), (370, 20339), (374, 20357), (375, 20360), (376, 20375), (379, 20396), (382, 20432), (384, 20444), (396, 20507), (402, 20540), (411, 20627), (419, 20675), (421, 20699), (425, 20726), (427, 20735), (429, 20774), (434, 20813), (438, 20837), (441, 20858), (450, 20954), (452, 20975), (460, 21038), (464, 21065), (467, 21074),

Gene: Polo2Bam_20 Start: 17446, Stop: 19983, Start Num: 21

Candidate Starts for Polo2Bam_20:

(Start: 21 @17446 has 242 MA's), (28, 17467), (Start: 35 @17488 has 1 MA's), (40, 17524), (41, 17527), (64, 17596), (65, 17605), (66, 17608), (73, 17626), (80, 17659), (83, 17674), (94, 17722), (117, 17827), (120, 17833), (121, 17836), (134, 17878), (135, 17881), (149, 17983), (Start: 161 @18049 has 1 MA's), (168, 18094), (171, 18124), (172, 18130), (174, 18148), (181, 18172), (183, 18181), (189, 18214), (191, 18220), (202, 18271), (205, 18289), (206, 18301), (208, 18310), (212, 18325), (214, 18331), (234, 18439), (236, 18451), (237, 18457), (240, 18472), (241, 18475), (243, 18496), (250, 18526), (252, 18538), (254, 18571), (265, 18637), (272, 18682), (273, 18685), (279, 18712), (282,

18718), (290, 18772), (291, 18775), (308, 18862), (310, 18877), (313, 18889), (314, 18892), (327, 18958), (332, 19003), (334, 19012), (344, 19072), (345, 19075), (351, 19111), (352, 19129), (355, 19141), (356, 19150), (360, 19177), (374, 19246), (376, 19264), (378, 19273), (379, 19285), (382, 19321), (386, 19351), (391, 19372), (396, 19396), (402, 19432), (408, 19486), (416, 19546), (422, 19588), (430, 19666), (438, 19723), (442, 19747), (447, 19801), (450, 19849), (454, 19891), (456, 19915), (457, 19918),

Gene: PopTart_18 Start: 17445, Stop: 19982, Start Num: 21

Candidate Starts for PopTart_18:

(18, 17433), (Start: 21 @17445 has 242 MA's), (28, 17466), (Start: 35 @17487 has 1 MA's), (41, 17526), (64, 17595), (65, 17604), (66, 17607), (73, 17625), (80, 17658), (83, 17673), (120, 17832), (121, 17835), (135, 17880), (145, 17958), (149, 17982), (Start: 161 @18048 has 1 MA's), (171, 18123), (172, 18129), (174, 18147), (181, 18171), (182, 18177), (183, 18180), (189, 18213), (191, 18219), (196, 18249), (202, 18270), (206, 18300), (208, 18309), (224, 18390), (236, 18450), (237, 18456), (240, 18471), (241, 18474), (243, 18495), (252, 18537), (254, 18570), (255, 18573), (279, 18711), (282, 18717), (290, 18771), (291, 18774), (296, 18801), (310, 18876), (313, 18888), (314, 18891), (327, 18957), (330, 18981), (332, 19002), (334, 19011), (344, 19071), (345, 19074), (351, 19110), (352, 19128), (356, 19149), (374, 19245), (376, 19263), (378, 19272), (379, 19284), (382, 19320), (386, 19350), (402, 19431), (408, 19485), (422, 19587), (438, 19722), (442, 19746), (447, 19800), (450, 19848), (454, 19890), (456, 19914), (457, 19917),

Gene: Porcelain_35 Start: 27554, Stop: 30061, Start Num: 21

Candidate Starts for Porcelain_35:

(Start: 21 @27554 has 242 MA's), (73, 27749), (80, 27785), (83, 27800), (106, 27887), (112, 27902), (134, 27977), (137, 27989), (142, 28016), (157, 28121), (165, 28160), (168, 28169), (171, 28193), (172, 28199), (174, 28217), (178, 28235), (183, 28250), (186, 28259), (187, 28268), (189, 28283), (195, 28310), (196, 28319), (205, 28358), (206, 28370), (208, 28379), (225, 28463), (241, 28544), (245, 28574), (246, 28577), (252, 28607), (253, 28634), (255, 28643), (262, 28694), (263, 28703), (265, 28706), (271, 28742), (275, 28763), (285, 28799), (311, 28952), (321, 29006), (330, 29051), (331, 29069), (332, 29072), (339, 29111), (359, 29258), (362, 29267), (375, 29336), (376, 29351), (402, 29516), (411, 29603), (419, 29651), (427, 29702), (434, 29780), (458, 30002), (460, 30005), (464, 30032),

Gene: Porky_26 Start: 22121, Stop: 24517, Start Num: 45

Candidate Starts for Porky_26:

(Start: 45 @22121 has 134 MA's), (92, 22298), (96, 22319), (139, 22466), (163, 22607), (167, 22640), (171, 22673), (176, 22709), (196, 22802), (208, 22862), (213, 22880), (238, 23012), (245, 23057), (265, 23189), (272, 23234), (287, 23294), (307, 23408), (310, 23429), (318, 23468), (321, 23489), (325, 23504), (349, 23654), (351, 23660), (352, 23678), (362, 23732), (376, 23816), (390, 23909), (427, 24155), (450, 24371), (457, 24455), (464, 24488),

Gene: Prager_30 Start: 24328, Stop: 26598, Start Num: 91

Candidate Starts for Prager_30:

(Start: 91 @24328 has 22 MA's), (118, 24463), (122, 24472), (152, 24646), (153, 24652), (154, 24664), (181, 24817), (185, 24832), (188, 24847), (260, 25228), (261, 25234), (268, 25279), (288, 25366), (324, 25567), (326, 25573), (332, 25621), (336, 25651), (340, 25675), (366, 25864), (373, 25891), (379, 25939), (389, 26011), (396, 26050), (397, 26071), (400, 26086), (403, 26104), (405, 26134), (417, 26218), (446, 26419), (450, 26461), (468, 26587),

Gene: Priscilla_18 Start: 17407, Stop: 19959, Start Num: 21

Candidate Starts for Priscilla_18:

(Start: 21 @17407 has 242 MA's), (42, 17488), (64, 17557), (65, 17566), (66, 17569), (73, 17587), (83, 17635), (93, 17680), (120, 17794), (121, 17797), (125, 17809), (132, 17830), (134, 17839), (135,

17842), (142, 17890), (145, 17920), (155, 17986), (163, 18019), (168, 18055), (170, 18079), (182, 18139), (183, 18142), (187, 18160), (200, 18223), (202, 18226), (205, 18244), (208, 18265), (213, 18283), (217, 18310), (221, 18331), (227, 18364), (236, 18406), (237, 18412), (238, 18415), (241, 18430), (244, 18457), (245, 18460), (250, 18481), (252, 18493), (254, 18526), (269, 18619), (290, 18727), (293, 18751), (296, 18757), (301, 18775), (302, 18778), (305, 18802), (310, 18832), (316, 18856), (321, 18892), (322, 18898), (325, 18907), (329, 18934), (338, 18997), (341, 19021), (342, 19036), (349, 19078), (357, 19129), (375, 19225), (376, 19240), (378, 19249), (380, 19273), (390, 19336), (396, 19372), (436, 19678), (442, 19723), (450, 19825),

Gene: Ptowny_26 Start: 21666, Stop: 24062, Start Num: 45

Candidate Starts for Ptowny_26:

(Start: 45 @21666 has 134 MA's), (92, 21843), (96, 21864), (139, 22011), (167, 22185), (171, 22218), (176, 22254), (196, 22347), (208, 22407), (213, 22425), (230, 22518), (238, 22557), (245, 22602), (265, 22734), (272, 22779), (287, 22839), (307, 22953), (310, 22974), (318, 23013), (321, 23034), (325, 23049), (349, 23199), (351, 23205), (352, 23223), (362, 23277), (376, 23361), (390, 23454), (427, 23700), (450, 23916), (457, 24000), (464, 24033),

Gene: Puissant_30 Start: 26145, Stop: 28988, Start Num: 4

Candidate Starts for Puissant_30:

(Start: 4 @26145 has 10 MA's), (8, 26247), (9, 26277), (10, 26289), (12, 26298), (24, 26373), (36, 26427), (37, 26433), (40, 26454), (47, 26475), (51, 26502), (100, 26715), (103, 26727), (124, 26808), (126, 26817), (142, 26904), (143, 26910), (151, 26964), (170, 27093), (172, 27105), (196, 27225), (202, 27246), (227, 27384), (252, 27510), (291, 27747), (305, 27819), (313, 27861), (316, 27873), (331, 27972), (347, 28068), (382, 28308), (402, 28416), (431, 28608), (436, 28641), (439, 28665), (441, 28683), (450, 28785), (458, 28863), (469, 28920), (470, 28950), (471, 28965),

Gene: Pumpkin_28 Start: 22364, Stop: 24760, Start Num: 45

Candidate Starts for Pumpkin_28:

(Start: 45 @22364 has 134 MA's), (92, 22541), (96, 22562), (139, 22709), (167, 22883), (171, 22916), (176, 22952), (196, 23045), (208, 23105), (213, 23123), (238, 23255), (245, 23300), (265, 23432), (272, 23477), (287, 23537), (307, 23651), (310, 23672), (318, 23711), (321, 23732), (325, 23747), (349, 23897), (351, 23903), (352, 23921), (362, 23975), (376, 24059), (390, 24152), (427, 24398), (450, 24614), (457, 24698), (464, 24731),

Gene: Qualification_27 Start: 22490, Stop: 24886, Start Num: 45

Candidate Starts for Qualification_27:

(Start: 45 @22490 has 134 MA's), (92, 22667), (96, 22688), (139, 22835), (163, 22976), (167, 23009), (171, 23042), (176, 23078), (196, 23171), (208, 23231), (213, 23249), (238, 23381), (245, 23426), (265, 23558), (272, 23603), (287, 23663), (307, 23777), (310, 23798), (318, 23837), (321, 23858), (325, 23873), (349, 24023), (351, 24029), (352, 24047), (362, 24101), (376, 24185), (390, 24278), (427, 24524), (450, 24740), (457, 24824), (464, 24857),

Gene: QuickMath_19 Start: 18743, Stop: 21280, Start Num: 21

Candidate Starts for QuickMath_19:

(18, 18731), (Start: 21 @18743 has 242 MA's), (28, 18764), (Start: 35 @18785 has 1 MA's), (41, 18824), (64, 18893), (65, 18902), (66, 18905), (73, 18923), (80, 18956), (83, 18971), (94, 19019), (120, 19130), (121, 19133), (131, 19163), (134, 19175), (135, 19178), (145, 19256), (149, 19280), (Start: 161 @19346 has 1 MA's), (168, 19391), (171, 19421), (172, 19427), (174, 19445), (181, 19469), (183, 19478), (189, 19511), (191, 19517), (196, 19547), (205, 19586), (206, 19598), (208, 19607), (212, 19622), (213, 19625), (234, 19736), (235, 19739), (236, 19748), (237, 19754), (240, 19769), (241, 19772), (243, 19793), (250, 19823), (252, 19835), (254, 19868), (272, 19979), (273, 19982), (279, 20009), (282, 20015), (290, 20069), (291, 20072), (308, 20159), (310, 20174), (313, 20186), (314, 20189), (327, 20255), (330, 20279), (332, 20300), (334, 20309), (341, 20351), (344, 20369), (345,

20372), (351, 20408), (352, 20426), (355, 20438), (356, 20447), (360, 20474), (374, 20543), (376, 20561), (378, 20570), (379, 20582), (382, 20618), (386, 20648), (391, 20669), (396, 20693), (402, 20729), (408, 20783), (416, 20843), (422, 20885), (430, 20963), (438, 21020), (442, 21044), (447, 21098), (450, 21146), (454, 21188), (456, 21212), (457, 21215),

Gene: Quico_19 Start: 17227, Stop: 19764, Start Num: 21

Candidate Starts for Quico_19:

(Start: 21 @17227 has 242 MA's), (28, 17248), (Start: 35 @17269 has 1 MA's), (41, 17308), (64, 17377), (65, 17386), (66, 17389), (73, 17407), (80, 17440), (83, 17455), (94, 17503), (120, 17614), (121, 17617), (131, 17647), (135, 17662), (145, 17740), (149, 17764), (Start: 161 @17830 has 1 MA's), (168, 17875), (171, 17905), (172, 17911), (174, 17929), (181, 17953), (183, 17962), (189, 17995), (191, 18001), (196, 18031), (205, 18070), (208, 18091), (212, 18106), (213, 18109), (235, 18223), (236, 18232), (237, 18238), (241, 18256), (243, 18277), (250, 18307), (252, 18319), (254, 18352), (272, 18463), (273, 18466), (279, 18493), (282, 18499), (290, 18553), (291, 18556), (308, 18643), (310, 18658), (314, 18673), (330, 18763), (332, 18784), (334, 18793), (344, 18853), (345, 18856), (349, 18886), (352, 18910), (356, 18931), (374, 19027), (376, 19045), (378, 19054), (379, 19066), (382, 19102), (386, 19132), (391, 19153), (396, 19177), (402, 19213), (408, 19267), (416, 19327), (422, 19369), (430, 19447), (438, 19504), (442, 19528), (447, 19582), (450, 19630), (454, 19672), (456, 19696), (457, 19699),

Gene: Radiance_18 Start: 17380, Stop: 19917, Start Num: 21

Candidate Starts for Radiance_18:

(18, 17368), (Start: 21 @17380 has 242 MA's), (28, 17401), (Start: 35 @17422 has 1 MA's), (41, 17461), (64, 17530), (65, 17539), (66, 17542), (73, 17560), (80, 17593), (83, 17608), (94, 17656), (117, 17761), (120, 17767), (121, 17770), (134, 17812), (135, 17815), (149, 17917), (Start: 161 @17983 has 1 MA's), (168, 18028), (171, 18058), (172, 18064), (174, 18082), (181, 18106), (183, 18115), (189, 18148), (191, 18154), (196, 18184), (206, 18235), (208, 18244), (229, 18352), (232, 18364), (234, 18373), (235, 18376), (237, 18391), (240, 18406), (241, 18409), (243, 18430), (250, 18460), (252, 18472), (254, 18505), (272, 18616), (273, 18619), (279, 18646), (282, 18652), (290, 18706), (291, 18709), (296, 18736), (310, 18811), (313, 18823), (314, 18826), (327, 18892), (329, 18913), (330, 18916), (332, 18937), (334, 18946), (344, 19006), (345, 19009), (349, 19039), (352, 19063), (355, 19075), (356, 19084), (374, 19180), (376, 19198), (378, 19207), (379, 19219), (386, 19285), (390, 19294), (391, 19306), (396, 19330), (402, 19366), (422, 19522), (438, 19657), (442, 19681), (447, 19735), (452, 19804), (456, 19849), (457, 19852),

Gene: Rakim_27 Start: 22397, Stop: 24793, Start Num: 45

Candidate Starts for Rakim_27:

(Start: 45 @22397 has 134 MA's), (92, 22574), (96, 22595), (139, 22742), (163, 22883), (167, 22916), (171, 22949), (176, 22985), (196, 23078), (208, 23138), (213, 23156), (227, 23237), (265, 23465), (272, 23510), (310, 23705), (311, 23711), (314, 23720), (321, 23765), (325, 23780), (351, 23936), (352, 23954), (354, 23963), (363, 24017), (376, 24092), (377, 24095), (407, 24305), (409, 24317), (427, 24431), (450, 24647), (457, 24731), (462, 24755), (464, 24764),

Gene: Ramsey_19 Start: 17429, Stop: 19966, Start Num: 21

Candidate Starts for Ramsey_19:

(Start: 21 @17429 has 242 MA's), (28, 17450), (Start: 35 @17471 has 1 MA's), (41, 17510), (64, 17579), (65, 17588), (66, 17591), (73, 17609), (83, 17657), (120, 17816), (121, 17819), (135, 17864), (145, 17942), (149, 17966), (Start: 161 @18032 has 1 MA's), (171, 18107), (172, 18113), (174, 18131), (181, 18155), (182, 18161), (183, 18164), (189, 18197), (191, 18203), (196, 18233), (202, 18254), (206, 18284), (208, 18293), (229, 18401), (232, 18413), (234, 18422), (235, 18425), (237, 18440), (240, 18455), (241, 18458), (243, 18479), (252, 18521), (254, 18554), (272, 18665), (273, 18668), (279, 18695), (282, 18701), (290, 18755), (291, 18758), (296, 18785), (310, 18860), (313, 18872), (314, 18875), (327, 18941), (329, 18962), (330, 18965), (332, 18986), (334, 18995), (341, 19037),

(344, 19055), (345, 19058), (349, 19088), (352, 19112), (355, 19124), (356, 19133), (374, 19229), (376, 19247), (378, 19256), (379, 19268), (382, 19304), (386, 19334), (390, 19343), (391, 19355), (402, 19415), (408, 19469), (416, 19529), (422, 19571), (438, 19706), (442, 19730), (447, 19784), (450, 19832), (454, 19874), (456, 19898), (457, 19901),

Gene: RedBird_18 Start: 17357, Stop: 19894, Start Num: 21

Candidate Starts for RedBird_18:

(Start: 21 @17357 has 242 MA's), (28, 17378), (Start: 35 @17399 has 1 MA's), (41, 17438), (64, 17507), (65, 17516), (66, 17519), (73, 17537), (83, 17585), (117, 17738), (121, 17747), (135, 17792), (148, 17891), (149, 17894), (Start: 161 @17960 has 1 MA's), (171, 18035), (172, 18041), (174, 18059), (181, 18083), (182, 18089), (183, 18092), (189, 18125), (191, 18131), (196, 18161), (202, 18182), (206, 18212), (208, 18221), (212, 18236), (213, 18239), (234, 18350), (235, 18353), (236, 18362), (237, 18368), (240, 18383), (241, 18386), (243, 18407), (250, 18437), (252, 18449), (254, 18482), (272, 18593), (273, 18596), (279, 18623), (282, 18629), (290, 18683), (291, 18686), (308, 18773), (310, 18788), (313, 18800), (314, 18803), (327, 18869), (330, 18893), (332, 18914), (334, 18923), (344, 18983), (345, 18986), (351, 19022), (352, 19040), (355, 19052), (356, 19061), (360, 19088), (372, 19145), (374, 19157), (376, 19175), (378, 19184), (379, 19196), (382, 19232), (386, 19262), (390, 19271), (391, 19283), (402, 19343), (408, 19397), (416, 19457), (422, 19499), (438, 19634), (442, 19658), (447, 19712), (450, 19760), (454, 19802), (456, 19826), (457, 19829),

Gene: Renaud18_20 Start: 17833, Stop: 20313, Start Num: 23

Candidate Starts for Renaud18_20:

(Start: 23 @17833 has 3 MA's), (27, 17839), (28, 17845), (Start: 45 @17908 has 134 MA's), (46, 17911), (53, 17938), (69, 17992), (73, 18001), (80, 18034), (90, 18067), (94, 18100), (106, 18139), (112, 18154), (121, 18190), (123, 18196), (124, 18199), (131, 18217), (134, 18229), (137, 18241), (141, 18265), (142, 18268), (165, 18412), (168, 18421), (171, 18445), (174, 18469), (181, 18493), (182, 18499), (187, 18520), (191, 18541), (196, 18571), (203, 18601), (206, 18622), (225, 18715), (227, 18730), (229, 18739), (234, 18760), (235, 18763), (242, 18805), (250, 18847), (251, 18850), (252, 18859), (253, 18886), (259, 18934), (263, 18955), (265, 18958), (271, 18994), (275, 19015), (290, 19093), (291, 19096), (304, 19150), (313, 19210), (330, 19303), (332, 19324), (339, 19360), (348, 19414), (349, 19423), (359, 19501), (363, 19519), (369, 19555), (370, 19558), (374, 19576), (375, 19579), (376, 19594), (379, 19615), (382, 19651), (384, 19663), (396, 19726), (402, 19759), (411, 19846), (419, 19894), (421, 19918), (425, 19945), (427, 19954), (429, 19993), (434, 20032), (438, 20056), (441, 20077), (450, 20173), (452, 20194), (460, 20257), (464, 20284), (467, 20293),

Gene: Rialto_20 Start: 17909, Stop: 20446, Start Num: 21

Candidate Starts for Rialto_20:

(Start: 21 @17909 has 242 MA's), (28, 17930), (Start: 35 @17951 has 1 MA's), (41, 17990), (64, 18059), (65, 18068), (66, 18071), (73, 18089), (83, 18137), (117, 18290), (121, 18299), (135, 18344), (148, 18443), (149, 18446), (Start: 161 @18512 has 1 MA's), (171, 18587), (172, 18593), (174, 18611), (181, 18635), (182, 18641), (183, 18644), (189, 18677), (191, 18683), (196, 18713), (202, 18734), (206, 18764), (208, 18773), (212, 18788), (213, 18791), (234, 18902), (235, 18905), (236, 18914), (237, 18920), (240, 18935), (241, 18938), (243, 18959), (250, 18989), (252, 19001), (254, 19034), (272, 19145), (273, 19148), (279, 19175), (282, 19181), (290, 19235), (291, 19238), (310, 19340), (313, 19352), (314, 19355), (327, 19421), (330, 19445), (332, 19466), (334, 19475), (344, 19535), (345, 19538), (351, 19574), (352, 19592), (355, 19604), (356, 19613), (360, 19640), (372, 19697), (374, 19709), (376, 19727), (378, 19736), (379, 19748), (382, 19784), (386, 19814), (390, 19823), (391, 19835), (402, 19895), (408, 19949), (416, 20009), (422, 20051), (438, 20186), (442, 20210), (447, 20264), (450, 20312), (454, 20354), (456, 20378), (457, 20381),

Gene: Rimmer_25 Start: 21850, Stop: 24246, Start Num: 45

Candidate Starts for Rimmer_25:

(Start: 45 @21850 has 134 MA's), (92, 22027), (96, 22048), (139, 22195), (163, 22336), (167, 22369), (171, 22402), (176, 22438), (196, 22531), (208, 22591), (213, 22609), (238, 22741), (245, 22786), (265, 22918), (272, 22963), (307, 23137), (310, 23158), (318, 23197), (321, 23218), (325, 23233), (351, 23389), (352, 23407), (362, 23461), (376, 23545), (390, 23638), (427, 23884), (450, 24100), (457, 24184), (464, 24217),

Gene: Rita_18 Start: 17410, Stop: 19947, Start Num: 21

Candidate Starts for Rita_18:

(Start: 21 @17410 has 242 MA's), (47, 17500), (64, 17560), (65, 17569), (66, 17572), (73, 17590), (83, 17638), (93, 17683), (120, 17797), (121, 17800), (131, 17830), (134, 17842), (135, 17845), (145, 17923), (149, 17947), (Start: 161 @18013 has 1 MA's), (168, 18058), (171, 18088), (172, 18094), (174, 18112), (181, 18136), (183, 18145), (189, 18178), (191, 18184), (196, 18214), (205, 18253), (206, 18265), (208, 18274), (212, 18289), (213, 18292), (234, 18403), (235, 18406), (236, 18415), (237, 18421), (240, 18436), (241, 18439), (243, 18460), (250, 18490), (252, 18502), (254, 18535), (272, 18646), (273, 18649), (279, 18676), (282, 18682), (290, 18736), (291, 18739), (310, 18841), (313, 18853), (314, 18856), (327, 18922), (330, 18946), (332, 18967), (334, 18976), (344, 19036), (345, 19039), (351, 19075), (352, 19093), (355, 19105), (356, 19114), (360, 19141), (374, 19210), (376, 19228), (378, 19237), (379, 19249), (382, 19285), (386, 19315), (391, 19336), (396, 19360), (402, 19396), (408, 19450), (416, 19510), (422, 19552), (430, 19630), (438, 19687), (442, 19711), (447, 19765), (450, 19813), (454, 19855), (456, 19879), (457, 19882),

Gene: RitaG_18 Start: 17539, Stop: 20091, Start Num: 21

Candidate Starts for RitaG_18:

(Start: 21 @17539 has 242 MA's), (28, 17560), (32, 17581), (42, 17620), (64, 17689), (65, 17698), (66, 17701), (73, 17719), (80, 17752), (83, 17767), (94, 17815), (120, 17926), (121, 17929), (132, 17962), (134, 17971), (135, 17974), (145, 18052), (155, 18118), (163, 18151), (169, 18205), (171, 18217), (181, 18265), (183, 18274), (186, 18283), (192, 18316), (202, 18358), (204, 18373), (209, 18403), (210, 18409), (212, 18412), (213, 18415), (217, 18442), (221, 18463), (227, 18496), (236, 18538), (237, 18544), (238, 18547), (240, 18559), (241, 18562), (244, 18589), (250, 18613), (252, 18625), (254, 18658), (257, 18679), (269, 18751), (273, 18772), (293, 18883), (301, 18907), (302, 18910), (305, 18934), (310, 18964), (316, 18988), (321, 19024), (322, 19030), (325, 19039), (338, 19129), (341, 19153), (342, 19168), (349, 19210), (351, 19216), (357, 19261), (375, 19357), (376, 19372), (378, 19381), (380, 19405), (390, 19468), (408, 19594), (436, 19810), (442, 19855), (450, 19957), (460, 20035),

Gene: RiverMonster_26 Start: 22039, Stop: 24435, Start Num: 45

Candidate Starts for RiverMonster_26:

(Start: 45 @22039 has 134 MA's), (92, 22216), (96, 22237), (139, 22384), (167, 22558), (171, 22591), (176, 22627), (196, 22720), (208, 22780), (213, 22798), (238, 22930), (245, 22975), (265, 23107), (272, 23152), (287, 23212), (307, 23326), (310, 23347), (318, 23386), (321, 23407), (325, 23422), (349, 23572), (351, 23578), (352, 23596), (362, 23650), (376, 23734), (390, 23827), (427, 24073), (450, 24289), (457, 24373), (464, 24406),

Gene: Rockne_18 Start: 17383, Stop: 19920, Start Num: 21

Candidate Starts for Rockne_18:

(Start: 21 @17383 has 242 MA's), (47, 17473), (64, 17533), (65, 17542), (66, 17545), (73, 17563), (83, 17611), (94, 17659), (117, 17764), (120, 17770), (121, 17773), (134, 17815), (135, 17818), (149, 17920), (Start: 161 @17986 has 1 MA's), (168, 18031), (171, 18061), (172, 18067), (174, 18085), (181, 18109), (183, 18118), (189, 18151), (191, 18157), (202, 18208), (205, 18226), (206, 18238), (208, 18247), (212, 18262), (214, 18268), (234, 18376), (236, 18388), (237, 18394), (240, 18409), (241, 18412), (243, 18433), (250, 18463), (252, 18475), (254, 18508), (265, 18574), (272, 18619), (273, 18622), (279, 18649), (282, 18655), (290, 18709), (291, 18712), (296, 18739), (310, 18814), (313, 18826), (314, 18829), (327, 18895), (329, 18916), (330, 18919), (334, 18949), (341, 18991), (344,

19009), (345, 19012), (349, 19042), (352, 19066), (355, 19078), (356, 19087), (374, 19183), (376, 19201), (378, 19210), (379, 19222), (386, 19288), (390, 19297), (391, 19309), (402, 19369), (422, 19525), (438, 19660), (442, 19684), (447, 19738), (452, 19807), (456, 19852), (457, 19855),

Gene: RockyHorror_19 Start: 17258, Stop: 19795, Start Num: 21

Candidate Starts for RockyHorror_19:

(Start: 21 @17258 has 242 MA's), (28, 17279), (Start: 35 @17300 has 1 MA's), (41, 17339), (64, 17408), (65, 17417), (66, 17420), (73, 17438), (83, 17486), (117, 17639), (121, 17648), (135, 17693), (148, 17792), (149, 17795), (Start: 161 @17861 has 1 MA's), (171, 17936), (172, 17942), (174, 17960), (181, 17984), (182, 17990), (183, 17993), (189, 18026), (191, 18032), (196, 18062), (202, 18083), (206, 18113), (208, 18122), (212, 18137), (213, 18140), (234, 18251), (235, 18254), (236, 18263), (237, 18269), (240, 18284), (241, 18287), (243, 18308), (250, 18338), (252, 18350), (254, 18383), (272, 18494), (273, 18497), (279, 18524), (282, 18530), (290, 18584), (291, 18587), (308, 18674), (310, 18689), (313, 18701), (314, 18704), (327, 18770), (330, 18794), (332, 18815), (334, 18824), (344, 18884), (345, 18887), (351, 18923), (352, 18941), (355, 18953), (356, 18962), (360, 18989), (372, 19046), (374, 19058), (376, 19076), (378, 19085), (379, 19097), (382, 19133), (386, 19163), (390, 19172), (391, 19184), (402, 19244), (408, 19298), (416, 19358), (422, 19400), (438, 19535), (442, 19559), (447, 19613), (450, 19661), (454, 19703), (456, 19727), (457, 19730),

Gene: Royals2015_18 Start: 17417, Stop: 19948, Start Num: 21

Candidate Starts for Royals2015_18:

(Start: 21 @17417 has 242 MA's), (28, 17438), (47, 17507), (64, 17567), (65, 17576), (66, 17579), (73, 17597), (80, 17630), (83, 17645), (93, 17690), (120, 17804), (121, 17807), (125, 17819), (133, 17840), (134, 17849), (135, 17852), (145, 17930), (155, 17996), (163, 18029), (168, 18065), (170, 18089), (182, 18149), (183, 18152), (187, 18170), (199, 18233), (201, 18236), (205, 18254), (208, 18275), (213, 18293), (217, 18320), (221, 18341), (227, 18374), (237, 18422), (238, 18425), (240, 18437), (241, 18440), (243, 18461), (250, 18491), (252, 18503), (254, 18536), (265, 18602), (272, 18647), (273, 18650), (279, 18677), (282, 18683), (290, 18737), (291, 18740), (296, 18767), (310, 18842), (313, 18854), (314, 18857), (327, 18923), (330, 18947), (334, 18977), (341, 19019), (344, 19037), (345, 19040), (351, 19076), (352, 19094), (356, 19115), (360, 19142), (374, 19211), (376, 19229), (378, 19238), (379, 19250), (382, 19286), (391, 19337), (394, 19355), (402, 19397), (408, 19451), (422, 19553), (430, 19631), (438, 19688), (442, 19712), (447, 19766), (450, 19814), (456, 19880), (457, 19883),

Gene: Ruby_18 Start: 17371, Stop: 19908, Start Num: 21

Candidate Starts for Ruby_18:

(Start: 21 @17371 has 242 MA's), (28, 17392), (Start: 35 @17413 has 1 MA's), (41, 17452), (64, 17521), (65, 17530), (66, 17533), (73, 17551), (80, 17584), (83, 17599), (117, 17752), (121, 17761), (135, 17806), (148, 17905), (149, 17908), (Start: 161 @17974 has 1 MA's), (171, 18049), (172, 18055), (181, 18097), (182, 18103), (183, 18106), (189, 18139), (191, 18145), (196, 18175), (202, 18196), (206, 18226), (208, 18235), (212, 18250), (213, 18253), (234, 18364), (235, 18367), (236, 18376), (237, 18382), (240, 18397), (241, 18400), (243, 18421), (250, 18451), (252, 18463), (254, 18496), (272, 18607), (273, 18610), (279, 18637), (282, 18643), (290, 18697), (291, 18700), (308, 18787), (310, 18802), (313, 18814), (314, 18817), (327, 18883), (330, 18907), (332, 18928), (334, 18937), (341, 18979), (344, 18997), (345, 19000), (349, 19030), (352, 19054), (355, 19066), (356, 19075), (374, 19171), (376, 19189), (378, 19198), (379, 19210), (382, 19246), (386, 19276), (390, 19285), (391, 19297), (402, 19357), (408, 19411), (416, 19471), (422, 19513), (438, 19648), (442, 19672), (447, 19726), (450, 19774), (454, 19816), (456, 19840), (457, 19843),

Gene: SG4_18 Start: 17548, Stop: 20085, Start Num: 21

Candidate Starts for SG4_18:

(Start: 21 @17548 has 242 MA's), (28, 17569), (Start: 35 @17590 has 1 MA's), (40, 17626), (41, 17629), (64, 17698), (65, 17707), (66, 17710), (73, 17728), (80, 17761), (83, 17776), (94, 17824), (120,

17935), (121, 17938), (131, 17968), (134, 17980), (135, 17983), (145, 18061), (149, 18085), (Start: 161 @18151 has 1 MA's), (168, 18196), (171, 18226), (172, 18232), (174, 18250), (181, 18274), (183, 18283), (189, 18316), (191, 18322), (202, 18373), (205, 18391), (206, 18403), (208, 18412), (212, 18427), (213, 18430), (234, 18541), (235, 18544), (236, 18553), (237, 18559), (240, 18574), (241, 18577), (243, 18598), (250, 18628), (252, 18640), (254, 18673), (265, 18739), (272, 18784), (273, 18787), (279, 18814), (282, 18820), (290, 18874), (291, 18877), (310, 18979), (313, 18991), (314, 18994), (327, 19060), (330, 19084), (332, 19105), (334, 19114), (344, 19174), (345, 19177), (351, 19213), (352, 19231), (355, 19243), (356, 19252), (360, 19279), (374, 19348), (376, 19366), (378, 19375), (379, 19387), (382, 19423), (386, 19453), (391, 19474), (396, 19498), (402, 19534), (408, 19588), (416, 19648), (422, 19690), (438, 19825), (442, 19849), (447, 19903), (450, 19951), (456, 20017), (457, 20020),

Gene: Saal_18 Start: 17383, Stop: 19920, Start Num: 21

Candidate Starts for Saal_18:

(Start: 21 @17383 has 242 MA's), (28, 17404), (Start: 35 @17425 has 1 MA's), (41, 17464), (64, 17533), (65, 17542), (66, 17545), (73, 17563), (83, 17611), (117, 17764), (121, 17773), (135, 17818), (145, 17896), (149, 17920), (Start: 161 @17986 has 1 MA's), (168, 18031), (171, 18061), (172, 18067), (174, 18085), (181, 18109), (183, 18118), (189, 18151), (191, 18157), (196, 18187), (205, 18226), (208, 18247), (212, 18262), (213, 18265), (235, 18379), (236, 18388), (237, 18394), (241, 18412), (243, 18433), (250, 18463), (252, 18475), (254, 18508), (272, 18619), (273, 18622), (279, 18649), (282, 18655), (290, 18709), (291, 18712), (308, 18799), (310, 18814), (314, 18829), (330, 18919), (332, 18940), (334, 18949), (344, 19009), (345, 19012), (351, 19048), (352, 19066), (355, 19078), (356, 19087), (360, 19114), (374, 19183), (376, 19201), (378, 19210), (379, 19222), (382, 19258), (386, 19288), (391, 19309), (396, 19333), (402, 19369), (408, 19423), (422, 19525), (430, 19603), (438, 19660), (442, 19684), (447, 19738), (450, 19786), (454, 19828), (459, 19861), (460, 19864),

Gene: Sabbb_19 Start: 17625, Stop: 20168, Start Num: 21

Candidate Starts for Sabbb_19:

(Start: 21 @17625 has 242 MA's), (28, 17646), (32, 17667), (42, 17706), (64, 17775), (65, 17784), (66, 17787), (73, 17805), (83, 17853), (94, 17901), (120, 18012), (121, 18015), (132, 18048), (135, 18060), (145, 18138), (155, 18204), (163, 18237), (169, 18291), (171, 18303), (182, 18357), (183, 18360), (186, 18369), (192, 18402), (200, 18441), (202, 18444), (204, 18459), (205, 18462), (209, 18489), (210, 18495), (212, 18498), (213, 18501), (217, 18528), (220, 18546), (221, 18549), (236, 18624), (240, 18645), (241, 18648), (244, 18675), (250, 18699), (254, 18744), (255, 18747), (262, 18798), (273, 18861), (275, 18870), (280, 18894), (302, 18999), (303, 19002), (310, 19053), (311, 19059), (313, 19065), (314, 19068), (321, 19113), (325, 19128), (329, 19155), (332, 19179), (341, 19230), (344, 19248), (345, 19251), (346, 19263), (355, 19317), (376, 19440), (383, 19503), (394, 19566), (404, 19641), (432, 19842), (453, 20070), (459, 20109), (460, 20112),

Gene: Saints25_27 Start: 21945, Stop: 24341, Start Num: 45

Candidate Starts for Saints25_27:

(Start: 45 @21945 has 134 MA's), (92, 22122), (96, 22143), (139, 22290), (163, 22431), (167, 22464), (171, 22497), (176, 22533), (196, 22626), (208, 22686), (213, 22704), (238, 22836), (245, 22881), (265, 23013), (272, 23058), (287, 23118), (307, 23232), (310, 23253), (318, 23292), (321, 23313), (325, 23328), (349, 23478), (351, 23484), (352, 23502), (362, 23556), (376, 23640), (390, 23733), (427, 23979), (450, 24195), (457, 24279), (464, 24312),

Gene: Sandalphon_19 Start: 17954, Stop: 20491, Start Num: 21

Candidate Starts for Sandalphon_19:

(18, 17942), (Start: 21 @17954 has 242 MA's), (28, 17975), (Start: 35 @17996 has 1 MA's), (41, 18035), (64, 18104), (65, 18113), (66, 18116), (80, 18167), (83, 18182), (94, 18230), (120, 18341), (121, 18344), (131, 18374), (134, 18386), (135, 18389), (145, 18467), (149, 18491), (Start: 161 @18557 has 1 MA's), (168, 18602), (171, 18632), (172, 18638), (174, 18656), (181, 18680), (183,

18689), (189, 18722), (191, 18728), (196, 18758), (205, 18797), (206, 18809), (208, 18818), (212, 18833), (213, 18836), (234, 18947), (235, 18950), (236, 18959), (237, 18965), (240, 18980), (241, 18983), (243, 19004), (250, 19034), (252, 19046), (254, 19079), (272, 19190), (273, 19193), (279, 19220), (282, 19226), (290, 19280), (291, 19283), (310, 19385), (313, 19397), (314, 19400), (327, 19466), (330, 19490), (332, 19511), (334, 19520), (344, 19580), (345, 19583), (351, 19619), (352, 19637), (355, 19649), (356, 19658), (360, 19685), (374, 19754), (376, 19772), (378, 19781), (379, 19793), (382, 19829), (386, 19859), (391, 19880), (396, 19904), (402, 19940), (408, 19994), (416, 20054), (422, 20096), (430, 20174), (438, 20231), (442, 20255), (447, 20309), (450, 20357), (454, 20399), (456, 20423), (457, 20426),

Gene: Sassafras_18 Start: 17532, Stop: 20069, Start Num: 21

Candidate Starts for Sassafras_18:

(Start: 21 @17532 has 242 MA's), (28, 17553), (Start: 35 @17574 has 1 MA's), (41, 17613), (64, 17682), (65, 17691), (66, 17694), (73, 17712), (83, 17760), (94, 17808), (120, 17919), (121, 17922), (135, 17967), (145, 18045), (149, 18069), (Start: 161 @18135 has 1 MA's), (171, 18210), (172, 18216), (174, 18234), (181, 18258), (183, 18267), (189, 18300), (191, 18306), (196, 18336), (202, 18357), (206, 18387), (208, 18396), (229, 18504), (232, 18516), (234, 18525), (235, 18528), (237, 18543), (240, 18558), (241, 18561), (243, 18582), (252, 18624), (254, 18657), (272, 18768), (273, 18771), (279, 18798), (282, 18804), (290, 18858), (291, 18861), (296, 18888), (310, 18963), (313, 18975), (314, 18978), (327, 19044), (329, 19065), (330, 19068), (332, 19089), (334, 19098), (341, 19140), (344, 19158), (345, 19161), (349, 19191), (352, 19215), (355, 19227), (356, 19236), (374, 19332), (376, 19350), (378, 19359), (379, 19371), (382, 19407), (386, 19437), (390, 19446), (391, 19458), (402, 19518), (408, 19572), (416, 19632), (422, 19674), (438, 19809), (442, 19833), (447, 19887), (450, 19935), (454, 19977), (456, 20001), (457, 20004),

Gene: Sassay_25 Start: 21788, Stop: 24184, Start Num: 45

Candidate Starts for Sassay_25:

(Start: 45 @21788 has 134 MA's), (92, 21965), (96, 21986), (139, 22133), (163, 22274), (167, 22307), (171, 22340), (176, 22376), (196, 22469), (208, 22529), (213, 22547), (238, 22679), (245, 22724), (265, 22856), (272, 22901), (287, 22961), (307, 23075), (310, 23096), (318, 23135), (321, 23156), (325, 23171), (349, 23321), (351, 23327), (352, 23345), (362, 23399), (376, 23483), (390, 23576), (427, 23822), (450, 24038), (457, 24122), (464, 24155),

Gene: SassyB_18 Start: 17445, Stop: 19982, Start Num: 21

Candidate Starts for SassyB_18:

(18, 17433), (Start: 21 @17445 has 242 MA's), (28, 17466), (Start: 35 @17487 has 1 MA's), (41, 17526), (64, 17595), (65, 17604), (66, 17607), (73, 17625), (80, 17658), (83, 17673), (120, 17832), (121, 17835), (135, 17880), (145, 17958), (149, 17982), (Start: 161 @18048 has 1 MA's), (171, 18123), (172, 18129), (174, 18147), (181, 18171), (182, 18177), (183, 18180), (189, 18213), (191, 18219), (196, 18249), (202, 18270), (206, 18300), (208, 18309), (224, 18390), (236, 18450), (237, 18456), (240, 18471), (241, 18474), (243, 18495), (252, 18537), (254, 18570), (255, 18573), (279, 18711), (282, 18717), (290, 18771), (291, 18774), (296, 18801), (310, 18876), (313, 18888), (314, 18891), (327, 18957), (330, 18981), (332, 19002), (334, 19011), (344, 19071), (345, 19074), (351, 19110), (352, 19128), (356, 19149), (374, 19245), (376, 19263), (378, 19272), (379, 19284), (382, 19320), (386, 19350), (402, 19431), (408, 19485), (422, 19587), (438, 19722), (442, 19746), (447, 19800), (450, 19848), (454, 19890), (456, 19914), (457, 19917),

Gene: Scottish_19 Start: 18701, Stop: 21238, Start Num: 21

Candidate Starts for Scottish_19:

(18, 18689), (Start: 21 @18701 has 242 MA's), (28, 18722), (Start: 35 @18743 has 1 MA's), (41, 18782), (64, 18851), (65, 18860), (66, 18863), (73, 18881), (83, 18929), (94, 18977), (120, 19088), (121, 19091), (135, 19136), (145, 19214), (149, 19238), (Start: 161 @19304 has 1 MA's), (168, 19349), (171, 19379), (172, 19385), (174, 19403), (181, 19427), (183, 19436), (189, 19469), (191, 19475),

(196, 19505), (205, 19544), (206, 19556), (208, 19565), (212, 19580), (213, 19583), (234, 19694), (235, 19697), (236, 19706), (237, 19712), (240, 19727), (241, 19730), (243, 19751), (250, 19781), (252, 19793), (254, 19826), (272, 19937), (273, 19940), (279, 19967), (282, 19973), (290, 20027), (291, 20030), (310, 20132), (313, 20144), (314, 20147), (327, 20213), (330, 20237), (332, 20258), (334, 20267), (344, 20327), (345, 20330), (351, 20366), (352, 20384), (356, 20405), (360, 20432), (374, 20501), (376, 20519), (378, 20528), (379, 20540), (382, 20576), (391, 20627), (394, 20645), (402, 20687), (408, 20741), (422, 20843), (438, 20978), (442, 21002), (447, 21056), (452, 21125), (456, 21170), (457, 21173),

Gene: SeaLumen_19 Start: 17446, Stop: 19983, Start Num: 21

Candidate Starts for SeaLumen_19:

(Start: 21 @17446 has 242 MA's), (28, 17467), (Start: 35 @17488 has 1 MA's), (40, 17524), (41, 17527), (64, 17596), (65, 17605), (66, 17608), (73, 17626), (80, 17659), (83, 17674), (94, 17722), (117, 17827), (120, 17833), (121, 17836), (134, 17878), (135, 17881), (149, 17983), (Start: 161 @18049 has 1 MA's), (168, 18094), (171, 18124), (172, 18130), (174, 18148), (181, 18172), (183, 18181), (189, 18214), (191, 18220), (202, 18271), (205, 18289), (206, 18301), (208, 18310), (212, 18325), (214, 18331), (234, 18439), (236, 18451), (237, 18457), (240, 18472), (241, 18475), (243, 18496), (250, 18526), (252, 18538), (254, 18571), (265, 18637), (272, 18682), (273, 18685), (279, 18712), (282, 18718), (290, 18772), (291, 18775), (308, 18862), (310, 18877), (313, 18889), (314, 18892), (327, 18958), (332, 19003), (334, 19012), (344, 19072), (345, 19075), (351, 19111), (352, 19129), (355, 19141), (356, 19150), (360, 19177), (374, 19246), (376, 19264), (378, 19273), (379, 19285), (382, 19321), (386, 19351), (391, 19372), (396, 19396), (402, 19432), (408, 19486), (416, 19546), (422, 19588), (430, 19666), (438, 19723), (442, 19747), (447, 19801), (450, 19849), (454, 19891), (456, 19915), (457, 19918),

Gene: Seabastian_18 Start: 17634, Stop: 20171, Start Num: 21

Candidate Starts for Seabastian_18:

(Start: 21 @17634 has 242 MA's), (28, 17655), (Start: 35 @17676 has 1 MA's), (41, 17715), (64, 17784), (65, 17793), (66, 17796), (73, 17814), (83, 17862), (120, 18021), (121, 18024), (134, 18066), (135, 18069), (145, 18147), (148, 18168), (149, 18171), (Start: 161 @18237 has 1 MA's), (163, 18246), (168, 18282), (171, 18312), (172, 18318), (181, 18360), (182, 18366), (183, 18369), (189, 18402), (191, 18408), (196, 18438), (202, 18459), (206, 18489), (208, 18498), (229, 18606), (232, 18618), (234, 18627), (235, 18630), (236, 18639), (237, 18645), (240, 18660), (241, 18663), (243, 18684), (252, 18726), (254, 18759), (279, 18900), (282, 18906), (290, 18960), (291, 18963), (296, 18990), (310, 19065), (313, 19077), (314, 19080), (327, 19146), (329, 19167), (330, 19170), (332, 19191), (341, 19242), (344, 19260), (345, 19263), (349, 19293), (352, 19317), (355, 19329), (374, 19434), (376, 19452), (378, 19461), (379, 19473), (382, 19509), (386, 19539), (391, 19560), (396, 19584), (402, 19620), (416, 19734), (422, 19776), (430, 19854), (438, 19911), (442, 19935), (447, 19989), (450, 20037), (454, 20079), (456, 20103), (457, 20106),

Gene: Seagreen_19 Start: 17241, Stop: 19778, Start Num: 21

Candidate Starts for Seagreen_19:

(18, 17229), (Start: 21 @17241 has 242 MA's), (28, 17262), (Start: 35 @17283 has 1 MA's), (41, 17322), (64, 17391), (65, 17400), (66, 17403), (73, 17421), (80, 17454), (83, 17469), (94, 17517), (117, 17622), (120, 17628), (121, 17631), (134, 17673), (135, 17676), (145, 17754), (149, 17778), (Start: 161 @17844 has 1 MA's), (168, 17889), (171, 17919), (172, 17925), (174, 17943), (181, 17967), (183, 17976), (189, 18009), (191, 18015), (196, 18045), (205, 18084), (206, 18096), (208, 18105), (212, 18120), (213, 18123), (234, 18234), (235, 18237), (236, 18246), (237, 18252), (240, 18267), (241, 18270), (243, 18291), (250, 18321), (252, 18333), (254, 18366), (272, 18477), (273, 18480), (279, 18507), (282, 18513), (290, 18567), (291, 18570), (310, 18672), (313, 18684), (314, 18687), (327, 18753), (330, 18777), (332, 18798), (334, 18807), (344, 18867), (345, 18870), (351, 18906), (352, 18924), (355, 18936), (356, 18945), (360, 18972), (374, 19041), (376, 19059), (378, 19068), (379, 19080), (382, 19116), (386, 19146), (391, 19167), (396, 19191), (402, 19227), (408, 19281), (416,

19341), (422, 19383), (430, 19461), (438, 19518), (442, 19542), (447, 19596), (450, 19644), (454, 19686), (456, 19710), (457, 19713),

Gene: Shaboozey_30 Start: 25923, Stop: 28418, Start Num: 21

Candidate Starts for Shaboozey_30:

(Start: 21 @25923 has 242 MA's), (73, 26118), (80, 26154), (83, 26169), (106, 26256), (112, 26271), (121, 26307), (123, 26313), (134, 26346), (137, 26358), (165, 26529), (168, 26538), (171, 26562), (182, 26616), (189, 26652), (191, 26658), (196, 26688), (203, 26718), (206, 26739), (208, 26748), (212, 26763), (225, 26832), (241, 26913), (242, 26922), (245, 26943), (246, 26946), (252, 26976), (255, 27012), (262, 27063), (263, 27072), (265, 27075), (269, 27102), (271, 27111), (275, 27132), (290, 27210), (291, 27213), (305, 27285), (311, 27321), (313, 27327), (320, 27369), (321, 27375), (329, 27417), (330, 27420), (332, 27441), (333, 27447), (334, 27450), (339, 27480), (359, 27621), (362, 27630), (363, 27639), (368, 27672), (374, 27696), (375, 27699), (376, 27714), (379, 27735), (382, 27771), (383, 27777), (384, 27783), (388, 27804), (392, 27831), (411, 27966), (421, 28038), (423, 28044), (427, 28062), (438, 28161), (450, 28278), (458, 28359), (460, 28362), (464, 28389),

Gene: ShamWow_26 Start: 22284, Stop: 24680, Start Num: 45

Candidate Starts for ShamWow_26:

(Start: 45 @22284 has 134 MA's), (92, 22461), (96, 22482), (139, 22629), (163, 22770), (167, 22803), (171, 22836), (176, 22872), (196, 22965), (208, 23025), (213, 23043), (242, 23199), (245, 23220), (262, 23340), (265, 23352), (272, 23397), (310, 23592), (314, 23607), (321, 23652), (325, 23667), (351, 23823), (352, 23841), (354, 23850), (376, 23979), (377, 23982), (407, 24192), (409, 24204), (427, 24318), (450, 24534), (457, 24618), (462, 24642), (464, 24651),

Gene: Shauna1_18 Start: 17450, Stop: 19927, Start Num: 21

Candidate Starts for Shauna1_18:

(19, 17438), (Start: 21 @17450 has 242 MA's), (28, 17471), (Start: 35 @17492 has 1 MA's), (43, 17531), (64, 17600), (65, 17609), (66, 17612), (73, 17630), (80, 17663), (83, 17678), (106, 17765), (112, 17780), (121, 17816), (123, 17822), (134, 17855), (137, 17867), (165, 18038), (168, 18047), (171, 18071), (182, 18125), (189, 18161), (191, 18167), (196, 18197), (203, 18227), (206, 18248), (208, 18257), (225, 18341), (237, 18404), (241, 18422), (242, 18431), (245, 18452), (246, 18455), (250, 18473), (252, 18485), (253, 18512), (255, 18521), (262, 18572), (263, 18581), (265, 18584), (269, 18611), (271, 18620), (275, 18641), (290, 18719), (291, 18722), (311, 18830), (313, 18836), (321, 18884), (329, 18926), (330, 18929), (332, 18950), (333, 18956), (334, 18959), (339, 18989), (359, 19130), (363, 19148), (368, 19181), (374, 19205), (375, 19208), (376, 19223), (379, 19244), (382, 19280), (383, 19286), (388, 19313), (392, 19340), (411, 19475), (419, 19523), (421, 19547), (427, 19571), (438, 19670), (441, 19691), (443, 19709), (450, 19787), (452, 19808), (460, 19871), (462, 19889), (467, 19907),

Gene: ShereKhan_28 Start: 23267, Stop: 25663, Start Num: 45

Candidate Starts for ShereKhan_28:

(Start: 45 @23267 has 134 MA's), (92, 23444), (96, 23465), (139, 23612), (163, 23753), (167, 23786), (171, 23819), (176, 23855), (196, 23948), (208, 24008), (213, 24026), (238, 24158), (245, 24203), (265, 24335), (272, 24380), (287, 24440), (307, 24554), (310, 24575), (318, 24614), (321, 24635), (325, 24650), (349, 24800), (351, 24806), (352, 24824), (362, 24878), (376, 24962), (390, 25055), (427, 25301), (450, 25517), (457, 25601), (464, 25634),

Gene: ShiLan_18 Start: 17405, Stop: 19957, Start Num: 21

Candidate Starts for ShiLan_18:

(Start: 21 @17405 has 242 MA's), (42, 17486), (64, 17555), (65, 17564), (66, 17567), (73, 17585), (83, 17633), (93, 17678), (120, 17792), (121, 17795), (125, 17807), (132, 17828), (134, 17837), (135, 17840), (142, 17888), (145, 17918), (155, 17984), (163, 18017), (168, 18053), (170, 18077), (182, 18137), (183, 18140), (187, 18158), (200, 18221), (202, 18224), (205, 18242), (208, 18263), (213,

18281), (217, 18308), (221, 18329), (227, 18362), (236, 18404), (237, 18410), (238, 18413), (241, 18428), (244, 18455), (245, 18458), (250, 18479), (252, 18491), (254, 18524), (269, 18617), (290, 18725), (293, 18749), (296, 18755), (301, 18773), (302, 18776), (305, 18800), (310, 18830), (316, 18854), (321, 18890), (322, 18896), (325, 18905), (329, 18932), (338, 18995), (341, 19019), (342, 19034), (349, 19076), (357, 19127), (375, 19223), (376, 19238), (378, 19247), (380, 19271), (390, 19334), (396, 19370), (436, 19676), (442, 19721), (450, 19823),

Gene: ShowerHandel_18 Start: 17406, Stop: 19958, Start Num: 21

Candidate Starts for ShowerHandel_18:

(Start: 21 @17406 has 242 MA's), (42, 17487), (64, 17556), (65, 17565), (66, 17568), (73, 17586), (83, 17634), (93, 17679), (120, 17793), (121, 17796), (125, 17808), (132, 17829), (134, 17838), (135, 17841), (142, 17889), (145, 17919), (155, 17985), (163, 18018), (168, 18054), (170, 18078), (182, 18138), (183, 18141), (187, 18159), (200, 18222), (202, 18225), (205, 18243), (208, 18264), (213, 18282), (217, 18309), (221, 18330), (227, 18363), (236, 18405), (237, 18411), (238, 18414), (241, 18429), (244, 18456), (245, 18459), (250, 18480), (252, 18492), (254, 18525), (269, 18618), (290, 18726), (293, 18750), (296, 18756), (301, 18774), (302, 18777), (305, 18801), (310, 18831), (316, 18855), (321, 18891), (322, 18897), (325, 18906), (329, 18933), (338, 18996), (341, 19020), (342, 19035), (349, 19077), (357, 19128), (375, 19224), (376, 19239), (378, 19248), (380, 19272), (390, 19335), (396, 19371), (436, 19677), (442, 19722), (450, 19824),

Gene: ShroomBoi_18 Start: 17435, Stop: 19912, Start Num: 21

Candidate Starts for ShroomBoi_18:

(Start: 21 @17435 has 242 MA's), (28, 17456), (Start: 35 @17477 has 1 MA's), (43, 17516), (64, 17585), (65, 17594), (66, 17597), (73, 17615), (83, 17663), (106, 17750), (112, 17765), (121, 17801), (123, 17807), (134, 17840), (137, 17852), (165, 18023), (168, 18032), (171, 18056), (182, 18110), (189, 18146), (191, 18152), (196, 18182), (203, 18212), (206, 18233), (208, 18242), (212, 18257), (225, 18326), (241, 18407), (242, 18416), (246, 18440), (252, 18470), (255, 18506), (262, 18557), (263, 18566), (265, 18569), (269, 18596), (271, 18605), (275, 18626), (290, 18704), (311, 18815), (313, 18821), (321, 18869), (329, 18911), (330, 18914), (332, 18935), (333, 18941), (334, 18944), (339, 18974), (359, 19115), (363, 19133), (368, 19166), (374, 19190), (375, 19193), (376, 19208), (379, 19229), (382, 19265), (383, 19271), (384, 19277), (388, 19298), (392, 19325), (411, 19460), (419, 19508), (421, 19532), (423, 19538), (427, 19556), (438, 19655), (450, 19772), (458, 19853), (460, 19856), (464, 19883),

Gene: SiSi_18 Start: 17389, Stop: 19926, Start Num: 21

Candidate Starts for SiSi_18:

(18, 17377), (Start: 21 @17389 has 242 MA's), (28, 17410), (Start: 35 @17431 has 1 MA's), (41, 17470), (64, 17539), (65, 17548), (66, 17551), (73, 17569), (80, 17602), (83, 17617), (94, 17665), (120, 17776), (121, 17779), (131, 17809), (134, 17821), (135, 17824), (145, 17902), (149, 17926), (Start: 161 @17992 has 1 MA's), (168, 18037), (171, 18067), (172, 18073), (174, 18091), (181, 18115), (183, 18124), (189, 18157), (191, 18163), (196, 18193), (205, 18232), (206, 18244), (208, 18253), (212, 18268), (213, 18271), (234, 18382), (236, 18394), (237, 18400), (240, 18415), (241, 18418), (243, 18439), (250, 18469), (252, 18481), (254, 18514), (265, 18580), (272, 18625), (273, 18628), (279, 18655), (282, 18661), (290, 18715), (291, 18718), (296, 18745), (310, 18820), (313, 18832), (314, 18835), (327, 18901), (330, 18925), (334, 18955), (341, 18997), (344, 19015), (345, 19018), (351, 19054), (352, 19072), (356, 19093), (360, 19120), (374, 19189), (376, 19207), (378, 19216), (379, 19228), (382, 19264), (391, 19315), (394, 19333), (402, 19375), (408, 19429), (416, 19489), (422, 19531), (430, 19609), (438, 19666), (442, 19690), (447, 19744), (450, 19792), (456, 19858), (457, 19861),

Gene: SilverChicken_24 Start: 17093, Stop: 19555, Start Num: 38

Candidate Starts for SilverChicken_24:

(36, 17084), (38, 17093), (60, 17153), (70, 17189), (81, 17234), (84, 17246), (95, 17288), (104, 17315), (109, 17333), (111, 17345), (117, 17378), (119, 17381), (135, 17438), (136, 17447), (141, 17483), (148, 17537), (155, 17582), (Start: 161 @17606 has 1 MA's), (163, 17615), (165, 17642), (183, 17738), (187, 17756), (189, 17771), (191, 17777), (194, 17795), (200, 17819), (209, 17867), (212, 17876), (213, 17879), (221, 17927), (224, 17942), (231, 17978), (232, 17981), (237, 18008), (238, 18011), (240, 18023), (243, 18047), (246, 18059), (250, 18077), (252, 18089), (254, 18122), (257, 18143), (269, 18215), (273, 18236), (293, 18347), (296, 18353), (301, 18371), (302, 18374), (305, 18398), (310, 18428), (316, 18452), (321, 18488), (322, 18494), (325, 18503), (329, 18530), (338, 18593), (341, 18617), (342, 18632), (349, 18674), (351, 18680), (357, 18725), (375, 18821), (376, 18836), (378, 18845), (380, 18869), (390, 18932), (396, 18968), (408, 19058), (436, 19274), (441, 19316), (442, 19319), (450, 19421),

Gene: Simpliphy_27 Start: 22029, Stop: 24425, Start Num: 45

Candidate Starts for Simpliphy_27:

(Start: 45 @22029 has 134 MA's), (92, 22206), (96, 22227), (139, 22374), (167, 22548), (171, 22581), (176, 22617), (196, 22710), (208, 22770), (213, 22788), (238, 22920), (245, 22965), (265, 23097), (272, 23142), (287, 23202), (307, 23316), (310, 23337), (318, 23376), (321, 23397), (325, 23412), (349, 23562), (351, 23568), (352, 23586), (362, 23640), (376, 23724), (390, 23817), (427, 24063), (450, 24279), (457, 24363), (464, 24396),

Gene: SimranZ1_19 Start: 17257, Stop: 19794, Start Num: 21

Candidate Starts for SimranZ1_19:

(Start: 21 @17257 has 242 MA's), (28, 17278), (Start: 35 @17299 has 1 MA's), (41, 17338), (64, 17407), (65, 17416), (66, 17419), (73, 17437), (83, 17485), (120, 17644), (121, 17647), (131, 17677), (134, 17689), (135, 17692), (145, 17770), (149, 17794), (Start: 161 @17860 has 1 MA's), (171, 17935), (172, 17941), (174, 17959), (181, 17983), (183, 17992), (189, 18025), (191, 18031), (196, 18061), (202, 18082), (205, 18100), (206, 18112), (208, 18121), (216, 18154), (234, 18250), (235, 18253), (236, 18262), (237, 18268), (240, 18283), (241, 18286), (243, 18307), (252, 18349), (254, 18382), (265, 18448), (272, 18493), (273, 18496), (279, 18523), (282, 18529), (290, 18583), (291, 18586), (296, 18613), (302, 18634), (310, 18688), (313, 18700), (314, 18703), (327, 18769), (330, 18793), (332, 18814), (334, 18823), (341, 18865), (344, 18883), (345, 18886), (351, 18922), (352, 18940), (355, 18952), (356, 18961), (360, 18988), (372, 19045), (374, 19057), (376, 19075), (378, 19084), (379, 19096), (382, 19132), (386, 19162), (391, 19183), (396, 19207), (402, 19243), (422, 19399), (438, 19534), (442, 19558), (447, 19612), (450, 19660), (456, 19726), (457, 19729),

Gene: SirDuracell_25 Start: 20950, Stop: 23346, Start Num: 45

Candidate Starts for SirDuracell_25:

(Start: 45 @20950 has 134 MA's), (92, 21127), (96, 21148), (139, 21295), (163, 21436), (167, 21469), (171, 21502), (176, 21538), (196, 21631), (208, 21691), (213, 21709), (227, 21790), (265, 22018), (272, 22063), (310, 22258), (311, 22264), (314, 22273), (321, 22318), (325, 22333), (351, 22489), (352, 22507), (354, 22516), (376, 22645), (377, 22648), (407, 22858), (409, 22870), (427, 22984), (450, 23200), (457, 23284), (462, 23308), (464, 23317),

Gene: SirHarley_29 Start: 24248, Stop: 26518, Start Num: 91

Candidate Starts for SirHarley_29:

(Start: 91 @24248 has 22 MA's), (118, 24383), (122, 24392), (152, 24566), (153, 24572), (154, 24584), (181, 24737), (185, 24752), (188, 24767), (260, 25148), (261, 25154), (268, 25199), (288, 25286), (312, 25412), (324, 25487), (326, 25493), (332, 25541), (336, 25571), (340, 25595), (366, 25784), (373, 25811), (379, 25859), (389, 25931), (396, 25970), (397, 25991), (400, 26006), (403, 26024), (405, 26054), (417, 26138), (446, 26339), (450, 26381), (468, 26507),

Gene: Slim_19 Start: 17189, Stop: 19726, Start Num: 21

Candidate Starts for Slim_19:

(Start: 21 @17189 has 242 MA's), (28, 17210), (Start: 35 @17231 has 1 MA's), (41, 17270), (64, 17339), (65, 17348), (66, 17351), (73, 17369), (83, 17417), (117, 17570), (121, 17579), (135, 17624), (148, 17723), (149, 17726), (Start: 161 @17792 has 1 MA's), (171, 17867), (172, 17873), (174, 17891), (181, 17915), (182, 17921), (183, 17924), (189, 17957), (191, 17963), (196, 17993), (202, 18014), (206, 18044), (208, 18053), (212, 18068), (213, 18071), (234, 18182), (235, 18185), (236, 18194), (237, 18200), (240, 18215), (241, 18218), (243, 18239), (250, 18269), (252, 18281), (254, 18314), (272, 18425), (273, 18428), (279, 18455), (282, 18461), (290, 18515), (291, 18518), (310, 18620), (313, 18632), (314, 18635), (327, 18701), (330, 18725), (332, 18746), (334, 18755), (344, 18815), (345, 18818), (351, 18854), (352, 18872), (355, 18884), (356, 18893), (360, 18920), (372, 18977), (374, 18989), (376, 19007), (378, 19016), (379, 19028), (382, 19064), (386, 19094), (390, 19103), (391, 19115), (402, 19175), (408, 19229), (416, 19289), (422, 19331), (438, 19466), (442, 19490), (447, 19544), (450, 19592), (454, 19634), (456, 19658), (457, 19661),

Gene: SophKB_26 Start: 22283, Stop: 24679, Start Num: 45

Candidate Starts for SophKB_26:

(Start: 45 @22283 has 134 MA's), (92, 22460), (96, 22481), (139, 22628), (163, 22769), (167, 22802), (171, 22835), (176, 22871), (196, 22964), (208, 23024), (213, 23042), (238, 23174), (245, 23219), (265, 23351), (272, 23396), (287, 23456), (307, 23570), (310, 23591), (318, 23630), (321, 23651), (325, 23666), (349, 23816), (351, 23822), (352, 23840), (362, 23894), (376, 23978), (390, 24071), (427, 24317), (450, 24533), (457, 24617), (464, 24650),

Gene: Sotrice96_26 Start: 22239, Stop: 24635, Start Num: 45

Candidate Starts for Sotrice96_26:

(Start: 45 @22239 has 134 MA's), (92, 22416), (96, 22437), (139, 22584), (163, 22725), (167, 22758), (171, 22791), (176, 22827), (196, 22920), (208, 22980), (213, 22998), (227, 23079), (265, 23307), (272, 23352), (310, 23547), (311, 23553), (314, 23562), (321, 23607), (325, 23622), (351, 23778), (352, 23796), (354, 23805), (376, 23934), (377, 23937), (407, 24147), (409, 24159), (427, 24273), (450, 24489), (457, 24573), (462, 24597), (464, 24606),

Gene: Soul22_24 Start: 17091, Stop: 19640, Start Num: 13

Candidate Starts for Soul22_24:

(11, 17082), (Start: 13 @17091 has 7 MA's), (Start: 21 @17151 has 242 MA's), (31, 17187), (59, 17286), (94, 17427), (106, 17466), (112, 17481), (121, 17517), (123, 17523), (124, 17526), (131, 17544), (137, 17568), (141, 17592), (142, 17595), (165, 17739), (168, 17748), (171, 17772), (174, 17796), (181, 17820), (182, 17826), (187, 17847), (191, 17868), (196, 17898), (203, 17928), (206, 17949), (225, 18042), (227, 18057), (229, 18066), (234, 18087), (235, 18090), (242, 18132), (250, 18174), (251, 18177), (252, 18186), (253, 18213), (255, 18222), (259, 18261), (263, 18282), (265, 18285), (271, 18321), (275, 18342), (290, 18420), (291, 18423), (304, 18477), (313, 18537), (328, 18624), (330, 18630), (331, 18648), (332, 18651), (339, 18687), (348, 18741), (349, 18750), (359, 18828), (363, 18846), (369, 18882), (370, 18885), (374, 18903), (375, 18906), (376, 18921), (382, 18978), (384, 18990), (396, 19053), (402, 19086), (411, 19173), (419, 19221), (421, 19245), (425, 19272), (427, 19281), (429, 19320), (434, 19359), (438, 19383), (441, 19404), (450, 19500), (452, 19521), (460, 19584), (464, 19611), (467, 19620),

Gene: Sparkdehlily_18 Start: 17429, Stop: 19966, Start Num: 21

Candidate Starts for Sparkdehlily_18:

(Start: 21 @17429 has 242 MA's), (28, 17450), (Start: 35 @17471 has 1 MA's), (41, 17510), (64, 17579), (65, 17588), (66, 17591), (73, 17609), (83, 17657), (117, 17810), (121, 17819), (135, 17864), (145, 17942), (149, 17966), (Start: 161 @18032 has 1 MA's), (168, 18077), (171, 18107), (172, 18113), (174, 18131), (181, 18155), (183, 18164), (189, 18197), (191, 18203), (196, 18233), (205, 18272), (208, 18293), (212, 18308), (213, 18311), (235, 18425), (236, 18434), (237, 18440), (241, 18458), (243, 18479), (250, 18509), (252, 18521), (254, 18554), (272, 18665), (273, 18668), (279, 18695), (282, 18701), (290, 18755), (291, 18758), (308, 18845), (310, 18860), (314, 18875), (330, 18965),

(332, 18986), (334, 18995), (344, 19055), (345, 19058), (351, 19094), (352, 19112), (355, 19124), (356, 19133), (360, 19160), (374, 19229), (376, 19247), (378, 19256), (379, 19268), (382, 19304), (386, 19334), (391, 19355), (396, 19379), (402, 19415), (408, 19469), (422, 19571), (430, 19649), (438, 19706), (442, 19730), (447, 19784), (450, 19832), (454, 19874), (459, 19907), (460, 19910),

Gene: Spartacus_19 Start: 17481, Stop: 20018, Start Num: 21

Candidate Starts for Spartacus_19:

(Start: 21 @17481 has 242 MA's), (47, 17571), (64, 17631), (65, 17640), (66, 17643), (73, 17661), (80, 17694), (83, 17709), (94, 17757), (120, 17868), (121, 17871), (131, 17901), (135, 17916), (145, 17994), (Start: 161 @18084 has 1 MA's), (168, 18129), (171, 18159), (172, 18165), (174, 18183), (181, 18207), (183, 18216), (189, 18249), (191, 18255), (196, 18285), (205, 18324), (206, 18336), (208, 18345), (212, 18360), (213, 18363), (234, 18474), (235, 18477), (236, 18486), (237, 18492), (240, 18507), (241, 18510), (243, 18531), (250, 18561), (252, 18573), (254, 18606), (272, 18717), (273, 18720), (279, 18747), (282, 18753), (290, 18807), (291, 18810), (308, 18897), (310, 18912), (313, 18924), (314, 18927), (327, 18993), (332, 19038), (334, 19047), (344, 19107), (345, 19110), (351, 19146), (352, 19164), (355, 19176), (356, 19185), (360, 19212), (374, 19281), (376, 19299), (378, 19308), (379, 19320), (382, 19356), (386, 19386), (391, 19407), (396, 19431), (402, 19467), (408, 19521), (416, 19581), (422, 19623), (430, 19701), (438, 19758), (442, 19782), (447, 19836), (450, 19884), (454, 19926), (456, 19950), (457, 19953),

Gene: Spikelee_19 Start: 17223, Stop: 19760, Start Num: 21

Candidate Starts for Spikelee_19:

(Start: 21 @17223 has 242 MA's), (28, 17244), (Start: 35 @17265 has 1 MA's), (41, 17304), (64, 17373), (65, 17382), (66, 17385), (73, 17403), (83, 17451), (117, 17604), (121, 17613), (135, 17658), (148, 17757), (149, 17760), (Start: 161 @17826 has 1 MA's), (171, 17901), (172, 17907), (174, 17925), (181, 17949), (182, 17955), (183, 17958), (189, 17991), (191, 17997), (196, 18027), (202, 18048), (206, 18078), (208, 18087), (212, 18102), (213, 18105), (234, 18216), (235, 18219), (236, 18228), (237, 18234), (240, 18249), (241, 18252), (243, 18273), (250, 18303), (252, 18315), (254, 18348), (272, 18459), (273, 18462), (279, 18489), (282, 18495), (290, 18549), (291, 18552), (308, 18639), (310, 18654), (313, 18666), (314, 18669), (327, 18735), (330, 18759), (332, 18780), (334, 18789), (344, 18849), (345, 18852), (351, 18888), (352, 18906), (355, 18918), (356, 18927), (360, 18954), (372, 19011), (374, 19023), (376, 19041), (378, 19050), (379, 19062), (382, 19098), (386, 19128), (390, 19137), (391, 19149), (402, 19209), (408, 19263), (416, 19323), (422, 19365), (438, 19500), (442, 19524), (447, 19578), (450, 19626), (454, 19668), (456, 19692), (457, 19695),

Gene: Spoonbill_18 Start: 17404, Stop: 19956, Start Num: 21

Candidate Starts for Spoonbill_18:

(Start: 21 @17404 has 242 MA's), (42, 17485), (64, 17554), (65, 17563), (66, 17566), (73, 17584), (83, 17632), (93, 17677), (120, 17791), (121, 17794), (125, 17806), (132, 17827), (134, 17836), (135, 17839), (142, 17887), (145, 17917), (155, 17983), (163, 18016), (168, 18052), (170, 18076), (182, 18136), (183, 18139), (187, 18157), (200, 18220), (202, 18223), (205, 18241), (208, 18262), (213, 18280), (217, 18307), (221, 18328), (227, 18361), (236, 18403), (237, 18409), (238, 18412), (241, 18427), (244, 18454), (245, 18457), (250, 18478), (252, 18490), (254, 18523), (269, 18616), (290, 18724), (293, 18748), (296, 18754), (301, 18772), (302, 18775), (305, 18799), (310, 18829), (316, 18853), (321, 18889), (322, 18895), (325, 18904), (329, 18931), (338, 18994), (341, 19018), (342, 19033), (349, 19075), (357, 19126), (375, 19222), (376, 19237), (378, 19246), (380, 19270), (390, 19333), (396, 19369), (436, 19675), (442, 19720), (450, 19822),

Gene: Squint_35 Start: 27671, Stop: 30178, Start Num: 21

Candidate Starts for Squint_35:

(Start: 21 @27671 has 242 MA's), (73, 27866), (80, 27902), (83, 27917), (106, 28004), (112, 28019), (134, 28094), (137, 28106), (142, 28133), (157, 28238), (165, 28277), (168, 28286), (171, 28310), (172, 28316), (174, 28334), (178, 28352), (183, 28367), (186, 28376), (187, 28385), (189, 28400),

(195, 28427), (196, 28436), (205, 28475), (206, 28487), (208, 28496), (225, 28580), (241, 28661), (245, 28691), (246, 28694), (252, 28724), (253, 28751), (255, 28760), (262, 28811), (263, 28820), (265, 28823), (271, 28859), (275, 28880), (285, 28916), (311, 29069), (321, 29123), (330, 29168), (331, 29186), (332, 29189), (339, 29228), (359, 29375), (362, 29384), (375, 29453), (376, 29468), (402, 29633), (411, 29720), (419, 29768), (427, 29819), (434, 29897), (458, 30119), (460, 30122), (464, 30149),

Gene: StAnnes_18 Start: 17447, Stop: 19984, Start Num: 21

Candidate Starts for StAnnes_18:

(18, 17435), (Start: 21 @17447 has 242 MA's), (28, 17468), (Start: 35 @17489 has 1 MA's), (41, 17528), (65, 17606), (66, 17609), (73, 17627), (80, 17660), (83, 17675), (94, 17723), (120, 17834), (121, 17837), (131, 17867), (134, 17879), (135, 17882), (145, 17960), (149, 17984), (Start: 161 @18050 has 1 MA's), (168, 18095), (171, 18125), (172, 18131), (174, 18149), (181, 18173), (183, 18182), (189, 18215), (191, 18221), (196, 18251), (206, 18302), (208, 18311), (212, 18326), (213, 18329), (234, 18440), (235, 18443), (236, 18452), (237, 18458), (240, 18473), (241, 18476), (243, 18497), (250, 18527), (252, 18539), (254, 18572), (272, 18683), (273, 18686), (279, 18713), (282, 18719), (290, 18773), (291, 18776), (308, 18863), (310, 18878), (313, 18890), (314, 18893), (327, 18959), (330, 18983), (332, 19004), (334, 19013), (344, 19073), (345, 19076), (351, 19112), (352, 19130), (355, 19142), (356, 19151), (360, 19178), (374, 19247), (376, 19265), (378, 19274), (379, 19286), (382, 19322), (386, 19352), (391, 19373), (396, 19397), (402, 19433), (408, 19487), (416, 19547), (422, 19589), (430, 19667), (438, 19724), (442, 19748), (447, 19802), (450, 19850), (454, 19892), (456, 19916), (457, 19919),

Gene: StAugustine_34 Start: 31877, Stop: 33781, Start Num: 162

Candidate Starts for StAugustine_34:

(Start: 162 @31877 has 2 MA's), (179, 31988), (184, 32006), (197, 32075), (233, 32246), (248, 32321), (261, 32423), (270, 32468), (284, 32528), (288, 32552), (292, 32582), (336, 32846), (343, 32900), (352, 32963), (358, 33011), (364, 33047), (365, 33050), (367, 33062), (373, 33086), (397, 33263), (398, 33269), (405, 33314), (406, 33317), (413, 33368), (435, 33500), (450, 33644), (459, 33725), (468, 33770),

Gene: Stank_29 Start: 22790, Stop: 25186, Start Num: 45

Candidate Starts for Stank_29:

(Start: 45 @22790 has 134 MA's), (92, 22967), (96, 22988), (139, 23135), (163, 23276), (167, 23309), (171, 23342), (176, 23378), (196, 23471), (208, 23531), (213, 23549), (238, 23681), (245, 23726), (265, 23858), (272, 23903), (287, 23963), (307, 24077), (310, 24098), (318, 24137), (321, 24158), (325, 24173), (349, 24323), (351, 24329), (352, 24347), (362, 24401), (376, 24485), (390, 24578), (427, 24824), (450, 25040), (457, 25124), (464, 25157),

Gene: Stap_19 Start: 17430, Stop: 19967, Start Num: 21

Candidate Starts for Stap_19:

(Start: 21 @17430 has 242 MA's), (28, 17451), (Start: 35 @17472 has 1 MA's), (41, 17511), (64, 17580), (65, 17589), (66, 17592), (73, 17610), (80, 17643), (83, 17658), (94, 17706), (117, 17811), (120, 17817), (121, 17820), (134, 17862), (135, 17865), (149, 17967), (Start: 161 @18033 has 1 MA's), (168, 18078), (171, 18108), (172, 18114), (174, 18132), (181, 18156), (183, 18165), (189, 18198), (191, 18204), (196, 18234), (205, 18273), (206, 18285), (208, 18294), (212, 18309), (213, 18312), (234, 18423), (235, 18426), (236, 18435), (237, 18441), (240, 18456), (241, 18459), (243, 18480), (250, 18510), (252, 18522), (254, 18555), (272, 18666), (273, 18669), (279, 18696), (282, 18702), (290, 18756), (291, 18759), (310, 18861), (313, 18873), (314, 18876), (327, 18942), (330, 18966), (332, 18987), (334, 18996), (344, 19056), (345, 19059), (351, 19095), (352, 19113), (355, 19125), (356, 19134), (360, 19161), (374, 19230), (376, 19248), (378, 19257), (379, 19269), (382, 19305), (391, 19356), (394, 19374), (402, 19416), (408, 19470), (416, 19530), (422, 19572), (430, 19650), (438, 19707), (442, 19731), (447, 19785), (450, 19833), (456, 19899), (457, 19902),

Gene: Starcevich_19 Start: 17191, Stop: 19728, Start Num: 21

Candidate Starts for Starcevich_19:

(Start: 21 @17191 has 242 MA's), (28, 17212), (Start: 35 @17233 has 1 MA's), (41, 17272), (64, 17341), (65, 17350), (66, 17353), (73, 17371), (83, 17419), (117, 17572), (121, 17581), (135, 17626), (148, 17725), (149, 17728), (Start: 161 @17794 has 1 MA's), (171, 17869), (172, 17875), (174, 17893), (181, 17917), (182, 17923), (183, 17926), (189, 17959), (191, 17965), (196, 17995), (202, 18016), (206, 18046), (208, 18055), (212, 18070), (213, 18073), (234, 18184), (235, 18187), (236, 18196), (237, 18202), (240, 18217), (241, 18220), (243, 18241), (250, 18271), (252, 18283), (254, 18316), (272, 18427), (273, 18430), (279, 18457), (282, 18463), (290, 18517), (291, 18520), (310, 18622), (313, 18634), (314, 18637), (327, 18703), (330, 18727), (332, 18748), (334, 18757), (344, 18817), (345, 18820), (351, 18856), (352, 18874), (355, 18886), (356, 18895), (360, 18922), (372, 18979), (374, 18991), (376, 19009), (378, 19018), (379, 19030), (382, 19066), (386, 19096), (390, 19105), (391, 19117), (402, 19177), (408, 19231), (416, 19291), (422, 19333), (438, 19468), (442, 19492), (447, 19546), (450, 19594), (454, 19636), (456, 19660), (457, 19663),

Gene: Stark_27 Start: 22042, Stop: 24438, Start Num: 45

Candidate Starts for Stark_27:

(Start: 45 @22042 has 134 MA's), (92, 22219), (96, 22240), (139, 22387), (167, 22561), (171, 22594), (176, 22630), (196, 22723), (208, 22783), (213, 22801), (238, 22933), (245, 22978), (265, 23110), (272, 23155), (287, 23215), (307, 23329), (310, 23350), (318, 23389), (321, 23410), (325, 23425), (349, 23575), (351, 23581), (352, 23599), (362, 23653), (376, 23737), (390, 23830), (427, 24076), (450, 24292), (457, 24376), (464, 24409),

Gene: StellaBean_26 Start: 22283, Stop: 24679, Start Num: 45

Candidate Starts for StellaBean_26:

(Start: 45 @22283 has 134 MA's), (92, 22460), (96, 22481), (139, 22628), (163, 22769), (167, 22802), (171, 22835), (176, 22871), (196, 22964), (208, 23024), (213, 23042), (238, 23174), (245, 23219), (265, 23351), (272, 23396), (287, 23456), (307, 23570), (310, 23591), (318, 23630), (321, 23651), (325, 23666), (349, 23816), (351, 23822), (352, 23840), (362, 23894), (376, 23978), (390, 24071), (427, 24317), (450, 24533), (457, 24617), (464, 24650),

Gene: StolenFromERC_28 Start: 22274, Stop: 24670, Start Num: 45

Candidate Starts for StolenFromERC_28:

(Start: 45 @22274 has 134 MA's), (92, 22451), (96, 22472), (139, 22619), (167, 22793), (171, 22826), (176, 22862), (196, 22955), (208, 23015), (213, 23033), (238, 23165), (245, 23210), (265, 23342), (272, 23387), (287, 23447), (307, 23561), (310, 23582), (318, 23621), (321, 23642), (325, 23657), (349, 23807), (351, 23813), (352, 23831), (362, 23885), (376, 23969), (390, 24062), (427, 24308), (450, 24524), (457, 24608), (464, 24641),

Gene: StormChicken_26 Start: 22458, Stop: 24854, Start Num: 45

Candidate Starts for StormChicken_26:

(Start: 45 @22458 has 134 MA's), (92, 22635), (96, 22656), (139, 22803), (163, 22944), (167, 22977), (171, 23010), (176, 23046), (196, 23139), (208, 23199), (213, 23217), (238, 23349), (245, 23394), (265, 23526), (272, 23571), (287, 23631), (307, 23745), (310, 23766), (318, 23805), (321, 23826), (325, 23841), (349, 23991), (351, 23997), (352, 24015), (362, 24069), (376, 24153), (390, 24246), (427, 24492), (450, 24708), (457, 24792), (464, 24825),

Gene: Strokeseat_18 Start: 17495, Stop: 20032, Start Num: 21

Candidate Starts for Strokeseat_18:

(Start: 21 @17495 has 242 MA's), (28, 17516), (Start: 35 @17537 has 1 MA's), (41, 17576), (64, 17645), (65, 17654), (66, 17657), (73, 17675), (83, 17723), (120, 17882), (121, 17885), (134, 17927), (135, 17930), (145, 18008), (148, 18029), (149, 18032), (Start: 161 @18098 has 1 MA's), (171, 18173),

(172, 18179), (181, 18221), (182, 18227), (183, 18230), (189, 18263), (191, 18269), (196, 18299), (202, 18320), (206, 18350), (208, 18359), (229, 18467), (232, 18479), (234, 18488), (235, 18491), (236, 18500), (237, 18506), (240, 18521), (241, 18524), (243, 18545), (252, 18587), (254, 18620), (279, 18761), (282, 18767), (290, 18821), (291, 18824), (296, 18851), (310, 18926), (313, 18938), (314, 18941), (327, 19007), (330, 19031), (332, 19052), (334, 19061), (344, 19121), (345, 19124), (351, 19160), (352, 19178), (356, 19199), (360, 19226), (374, 19295), (376, 19313), (378, 19322), (379, 19334), (382, 19370), (386, 19400), (402, 19481), (416, 19595), (422, 19637), (438, 19772), (442, 19796), (447, 19850), (456, 19964), (457, 19967),

Gene: SuperGrey_19 Start: 18074, Stop: 20611, Start Num: 21

Candidate Starts for SuperGrey_19:

(Start: 21 @18074 has 242 MA's), (28, 18095), (Start: 35 @18116 has 1 MA's), (41, 18155), (64, 18224), (65, 18233), (66, 18236), (73, 18254), (83, 18302), (120, 18461), (121, 18464), (135, 18509), (148, 18608), (149, 18611), (Start: 161 @18677 has 1 MA's), (171, 18752), (172, 18758), (174, 18776), (181, 18800), (182, 18806), (183, 18809), (189, 18842), (191, 18848), (196, 18878), (202, 18899), (206, 18929), (208, 18938), (212, 18953), (213, 18956), (234, 19067), (235, 19070), (236, 19079), (237, 19085), (240, 19100), (241, 19103), (243, 19124), (250, 19154), (252, 19166), (254, 19199), (272, 19310), (273, 19313), (279, 19340), (282, 19346), (290, 19400), (291, 19403), (308, 19490), (310, 19505), (313, 19517), (314, 19520), (327, 19586), (330, 19610), (332, 19631), (334, 19640), (344, 19700), (345, 19703), (351, 19739), (352, 19757), (355, 19769), (356, 19778), (360, 19805), (372, 19862), (374, 19874), (376, 19892), (378, 19901), (379, 19913), (382, 19949), (386, 19979), (390, 19988), (391, 20000), (402, 20060), (408, 20114), (416, 20174), (422, 20216), (430, 20294), (438, 20351), (442, 20375), (447, 20429), (450, 20477), (454, 20519), (456, 20543), (457, 20546),

Gene: SuperheroCarly_30 Start: 24178, Stop: 26448, Start Num: 91

Candidate Starts for SuperheroCarly_30:

(Start: 91 @24178 has 22 MA's), (118, 24313), (122, 24322), (152, 24496), (153, 24502), (154, 24514), (181, 24667), (185, 24682), (188, 24697), (260, 25078), (261, 25084), (268, 25129), (288, 25216), (326, 25423), (332, 25471), (336, 25501), (340, 25525), (366, 25714), (373, 25741), (379, 25789), (389, 25861), (396, 25900), (397, 25921), (400, 25936), (403, 25954), (405, 25984), (417, 26068), (446, 26269), (450, 26311), (468, 26437),

Gene: Superphikiman_36 Start: 27736, Stop: 30243, Start Num: 21

Candidate Starts for Superphikiman_36:

(Start: 21 @27736 has 242 MA's), (73, 27931), (80, 27967), (83, 27982), (106, 28069), (112, 28084), (134, 28159), (137, 28171), (142, 28198), (157, 28303), (165, 28342), (168, 28351), (171, 28375), (172, 28381), (174, 28399), (178, 28417), (183, 28432), (186, 28441), (187, 28450), (189, 28465), (195, 28492), (196, 28501), (205, 28540), (206, 28552), (208, 28561), (225, 28645), (241, 28726), (245, 28756), (246, 28759), (252, 28789), (253, 28816), (255, 28825), (262, 28876), (263, 28885), (265, 28888), (271, 28924), (275, 28945), (285, 28981), (311, 29134), (321, 29188), (330, 29233), (331, 29251), (332, 29254), (339, 29293), (359, 29440), (362, 29449), (375, 29518), (376, 29533), (402, 29698), (411, 29785), (419, 29833), (427, 29884), (434, 29962), (458, 30184), (460, 30187), (464, 30214),

Gene: SwagPigglett_18 Start: 17406, Stop: 19943, Start Num: 21

Candidate Starts for SwagPigglett_18:

(Start: 21 @17406 has 242 MA's), (28, 17427), (Start: 35 @17448 has 1 MA's), (41, 17487), (64, 17556), (65, 17565), (66, 17568), (73, 17586), (83, 17634), (117, 17787), (121, 17796), (135, 17841), (145, 17919), (149, 17943), (Start: 161 @18009 has 1 MA's), (168, 18054), (171, 18084), (172, 18090), (174, 18108), (181, 18132), (183, 18141), (189, 18174), (191, 18180), (196, 18210), (205, 18249), (208, 18270), (212, 18285), (213, 18288), (235, 18402), (236, 18411), (237, 18417), (241, 18435), (243, 18456), (250, 18486), (252, 18498), (254, 18531), (272, 18642), (273, 18645), (279, 18672), (282, 18678), (290, 18732), (291, 18735), (308, 18822), (310, 18837), (314, 18852), (330, 18942),

(332, 18963), (334, 18972), (344, 19032), (345, 19035), (351, 19071), (352, 19089), (355, 19101), (356, 19110), (360, 19137), (374, 19206), (376, 19224), (378, 19233), (379, 19245), (382, 19281), (386, 19311), (391, 19332), (396, 19356), (402, 19392), (408, 19446), (422, 19548), (430, 19626), (438, 19683), (442, 19707), (447, 19761), (450, 19809), (454, 19851), (459, 19884), (460, 19887),

Gene: TBrady12_28 Start: 22274, Stop: 24670, Start Num: 45

Candidate Starts for TBrady12_28:

(Start: 45 @22274 has 134 MA's), (92, 22451), (96, 22472), (139, 22619), (163, 22760), (167, 22793), (171, 22826), (176, 22862), (196, 22955), (208, 23015), (213, 23033), (238, 23165), (245, 23210), (265, 23342), (272, 23387), (287, 23447), (307, 23561), (310, 23582), (318, 23621), (321, 23642), (325, 23657), (349, 23807), (351, 23813), (352, 23831), (362, 23885), (376, 23969), (390, 24062), (427, 24308), (450, 24524), (457, 24608), (464, 24641),

Gene: TDanisky_18 Start: 17429, Stop: 19966, Start Num: 21

Candidate Starts for TDanisky_18:

(Start: 21 @17429 has 242 MA's), (28, 17450), (Start: 35 @17471 has 1 MA's), (41, 17510), (64, 17579), (65, 17588), (66, 17591), (73, 17609), (83, 17657), (117, 17810), (121, 17819), (135, 17864), (145, 17942), (149, 17966), (Start: 161 @18032 has 1 MA's), (168, 18077), (171, 18107), (172, 18113), (174, 18131), (181, 18155), (183, 18164), (189, 18197), (191, 18203), (196, 18233), (205, 18272), (208, 18293), (212, 18308), (213, 18311), (235, 18425), (236, 18434), (237, 18440), (241, 18458), (243, 18479), (250, 18509), (252, 18521), (254, 18554), (272, 18665), (273, 18668), (279, 18695), (282, 18701), (290, 18755), (291, 18758), (308, 18845), (310, 18860), (314, 18875), (330, 18965), (332, 18986), (334, 18995), (344, 19055), (345, 19058), (351, 19094), (352, 19112), (355, 19124), (356, 19133), (360, 19160), (374, 19229), (376, 19247), (378, 19256), (379, 19268), (382, 19304), (386, 19334), (391, 19355), (396, 19379), (402, 19415), (408, 19469), (422, 19571), (430, 19649), (438, 19706), (442, 19730), (447, 19784), (450, 19832), (454, 19874), (459, 19907), (460, 19910),

Gene: Taj_18 Start: 17430, Stop: 19967, Start Num: 21

Candidate Starts for Taj_18:

(18, 17418), (Start: 21 @17430 has 242 MA's), (28, 17451), (Start: 35 @17472 has 1 MA's), (41, 17511), (64, 17580), (65, 17589), (66, 17592), (73, 17610), (80, 17643), (83, 17658), (94, 17706), (117, 17811), (120, 17817), (121, 17820), (134, 17862), (135, 17865), (145, 17943), (Start: 161 @18033 has 1 MA's), (168, 18078), (171, 18108), (172, 18114), (174, 18132), (181, 18156), (183, 18165), (189, 18198), (191, 18204), (196, 18234), (205, 18273), (206, 18285), (208, 18294), (212, 18309), (213, 18312), (234, 18423), (235, 18426), (236, 18435), (237, 18441), (240, 18456), (241, 18459), (243, 18480), (250, 18510), (252, 18522), (254, 18555), (272, 18666), (273, 18669), (279, 18696), (282, 18702), (290, 18756), (291, 18759), (308, 18846), (310, 18861), (313, 18873), (314, 18876), (327, 18942), (330, 18966), (332, 18987), (334, 18996), (344, 19056), (345, 19059), (351, 19095), (352, 19113), (355, 19125), (356, 19134), (360, 19161), (374, 19230), (376, 19248), (378, 19257), (379, 19269), (382, 19305), (386, 19335), (391, 19356), (396, 19380), (402, 19416), (408, 19470), (416, 19530), (422, 19572), (438, 19707), (442, 19731), (447, 19785), (450, 19833), (454, 19875), (456, 19899), (457, 19902),

Gene: Tarkin_28 Start: 23273, Stop: 25669, Start Num: 45

Candidate Starts for Tarkin_28:

(Start: 45 @23273 has 134 MA's), (92, 23450), (96, 23471), (139, 23618), (163, 23759), (167, 23792), (171, 23825), (176, 23861), (196, 23954), (208, 24014), (213, 24032), (238, 24164), (245, 24209), (265, 24341), (272, 24386), (287, 24446), (307, 24560), (310, 24581), (318, 24620), (321, 24641), (325, 24656), (349, 24806), (351, 24812), (352, 24830), (362, 24884), (376, 24968), (390, 25061), (427, 25307), (450, 25523), (457, 25607), (464, 25640),

Gene: Tchotchke_19 Start: 17331, Stop: 19868, Start Num: 21

Candidate Starts for Tchotchke_19:

(Start: 21 @17331 has 242 MA's), (28, 17352), (Start: 35 @17373 has 1 MA's), (41, 17412), (64, 17481), (65, 17490), (66, 17493), (73, 17511), (83, 17559), (117, 17712), (121, 17721), (135, 17766), (148, 17865), (149, 17868), (Start: 161 @17934 has 1 MA's), (171, 18009), (172, 18015), (174, 18033), (181, 18057), (182, 18063), (183, 18066), (189, 18099), (191, 18105), (196, 18135), (202, 18156), (206, 18186), (208, 18195), (212, 18210), (213, 18213), (234, 18324), (235, 18327), (236, 18336), (237, 18342), (240, 18357), (241, 18360), (243, 18381), (250, 18411), (252, 18423), (254, 18456), (272, 18567), (273, 18570), (279, 18597), (282, 18603), (290, 18657), (291, 18660), (310, 18762), (313, 18774), (314, 18777), (327, 18843), (330, 18867), (332, 18888), (334, 18897), (344, 18957), (345, 18960), (351, 18996), (352, 19014), (355, 19026), (356, 19035), (360, 19062), (372, 19119), (374, 19131), (376, 19149), (378, 19158), (379, 19170), (382, 19206), (386, 19236), (390, 19245), (391, 19257), (402, 19317), (408, 19371), (416, 19431), (422, 19473), (438, 19608), (442, 19632), (447, 19686), (450, 19734), (454, 19776), (456, 19800), (457, 19803),

Gene: TeamEdward_26 Start: 22455, Stop: 24851, Start Num: 45

Candidate Starts for TeamEdward_26:

(Start: 45 @22455 has 134 MA's), (92, 22632), (96, 22653), (139, 22800), (163, 22941), (167, 22974), (171, 23007), (176, 23043), (196, 23136), (208, 23196), (213, 23214), (238, 23346), (245, 23391), (265, 23523), (272, 23568), (287, 23628), (307, 23742), (310, 23763), (318, 23802), (321, 23823), (325, 23838), (349, 23988), (351, 23994), (352, 24012), (362, 24066), (376, 24150), (390, 24243), (427, 24489), (450, 24705), (457, 24789), (464, 24822),

Gene: TeardropMSU_25 Start: 22191, Stop: 24587, Start Num: 45

Candidate Starts for TeardropMSU_25:

(Start: 45 @22191 has 134 MA's), (92, 22368), (96, 22389), (139, 22536), (163, 22677), (167, 22710), (171, 22743), (176, 22779), (196, 22872), (208, 22932), (213, 22950), (227, 23031), (265, 23259), (272, 23304), (310, 23499), (311, 23505), (314, 23514), (321, 23559), (325, 23574), (351, 23730), (352, 23748), (354, 23757), (363, 23811), (376, 23886), (377, 23889), (407, 24099), (409, 24111), (427, 24225), (450, 24441), (457, 24525), (462, 24549), (464, 24558),

Gene: Teaspoon_27 Start: 22237, Stop: 24633, Start Num: 45

Candidate Starts for Teaspoon_27:

(Start: 45 @22237 has 134 MA's), (92, 22414), (96, 22435), (139, 22582), (163, 22723), (167, 22756), (171, 22789), (176, 22825), (196, 22918), (208, 22978), (213, 22996), (238, 23128), (245, 23173), (265, 23305), (272, 23350), (287, 23410), (307, 23524), (310, 23545), (318, 23584), (321, 23605), (325, 23620), (349, 23770), (351, 23776), (352, 23794), (362, 23848), (376, 23932), (390, 24025), (427, 24271), (450, 24487), (457, 24571), (464, 24604),

Gene: Terminus_26 Start: 22371, Stop: 24767, Start Num: 45

Candidate Starts for Terminus_26:

(Start: 45 @22371 has 134 MA's), (92, 22548), (96, 22569), (139, 22716), (163, 22857), (167, 22890), (171, 22923), (176, 22959), (196, 23052), (208, 23112), (213, 23130), (238, 23262), (245, 23307), (265, 23439), (272, 23484), (287, 23544), (307, 23658), (310, 23679), (318, 23718), (321, 23739), (325, 23754), (349, 23904), (351, 23910), (352, 23928), (362, 23982), (376, 24066), (390, 24159), (427, 24405), (450, 24621), (457, 24705), (464, 24738),

Gene: ThetaBob_20 Start: 17751, Stop: 20231, Start Num: 23

Candidate Starts for ThetaBob_20:

(Start: 23 @17751 has 3 MA's), (27, 17757), (28, 17763), (Start: 45 @17826 has 134 MA's), (46, 17829), (53, 17856), (69, 17910), (73, 17919), (80, 17952), (90, 17985), (94, 18018), (106, 18057), (112, 18072), (121, 18108), (123, 18114), (124, 18117), (131, 18135), (134, 18147), (137, 18159), (141, 18183), (142, 18186), (165, 18330), (168, 18339), (171, 18363), (174, 18387), (181, 18411), (182, 18417), (187, 18438), (188, 18441), (191, 18459), (196, 18489), (203, 18519), (206, 18540), (225, 18633), (227, 18648), (229, 18657), (234, 18678), (235, 18681), (242, 18723), (250, 18765),

(251, 18768), (252, 18777), (253, 18804), (255, 18813), (259, 18852), (263, 18873), (265, 18876), (271, 18912), (275, 18933), (290, 19011), (291, 19014), (304, 19068), (313, 19128), (330, 19221), (332, 19242), (339, 19278), (348, 19332), (349, 19341), (359, 19419), (363, 19437), (369, 19473), (370, 19476), (374, 19494), (375, 19497), (376, 19512), (379, 19533), (382, 19569), (384, 19581), (396, 19644), (402, 19677), (411, 19764), (419, 19812), (421, 19836), (425, 19863), (427, 19872), (429, 19911), (434, 19950), (438, 19974), (441, 19995), (450, 20091), (452, 20112), (460, 20175), (464, 20202), (467, 20211),

Gene: Thimble_26 Start: 21237, Stop: 23633, Start Num: 45

Candidate Starts for Thimble_26:

(Start: 45 @21237 has 134 MA's), (92, 21414), (96, 21435), (139, 21582), (163, 21723), (167, 21756), (171, 21789), (176, 21825), (196, 21918), (208, 21978), (213, 21996), (238, 22128), (245, 22173), (265, 22305), (272, 22350), (287, 22410), (307, 22524), (310, 22545), (318, 22584), (321, 22605), (325, 22620), (349, 22770), (351, 22776), (352, 22794), (362, 22848), (376, 22932), (390, 23025), (427, 23271), (450, 23487), (457, 23571), (464, 23604),

Gene: Thoth_30 Start: 24313, Stop: 26583, Start Num: 91

Candidate Starts for Thoth_30:

(Start: 91 @24313 has 22 MA's), (118, 24448), (122, 24457), (152, 24631), (153, 24637), (154, 24649), (181, 24802), (185, 24817), (188, 24832), (260, 25213), (261, 25219), (268, 25264), (288, 25351), (324, 25552), (326, 25558), (332, 25606), (336, 25636), (340, 25660), (366, 25849), (373, 25876), (379, 25924), (389, 25996), (396, 26035), (397, 26056), (400, 26071), (403, 26089), (405, 26119), (417, 26203), (446, 26404), (450, 26446), (468, 26572),

Gene: Thresher_27 Start: 23038, Stop: 25434, Start Num: 45

Candidate Starts for Thresher_27:

(Start: 45 @23038 has 134 MA's), (92, 23215), (96, 23236), (139, 23383), (167, 23557), (171, 23590), (176, 23626), (196, 23719), (208, 23779), (213, 23797), (238, 23929), (245, 23974), (265, 24106), (272, 24151), (307, 24325), (310, 24346), (318, 24385), (321, 24406), (325, 24421), (349, 24571), (351, 24577), (352, 24595), (362, 24649), (376, 24733), (390, 24826), (427, 25072), (450, 25288), (457, 25372), (464, 25405),

Gene: Thumb_29 Start: 25682, Stop: 28525, Start Num: 4

Candidate Starts for Thumb_29:

(Start: 4 @25682 has 10 MA's), (9, 25814), (10, 25826), (12, 25835), (Start: 22 @25904 has 1 MA's), (37, 25970), (40, 25991), (51, 26039), (63, 26081), (68, 26105), (77, 26138), (85, 26174), (89, 26186), (107, 26279), (121, 26336), (133, 26375), (163, 26570), (166, 26600), (172, 26642), (202, 26783), (205, 26801), (219, 26882), (227, 26921), (232, 26942), (254, 27080), (258, 27119), (291, 27284), (305, 27356), (313, 27398), (316, 27410), (331, 27509), (387, 27872), (431, 28142), (436, 28175), (439, 28199), (450, 28319), (458, 28397), (470, 28484), (471, 28499), (472, 28505),

Gene: Tomaszewski_25 Start: 21884, Stop: 24280, Start Num: 45

Candidate Starts for Tomaszewski_25:

(Start: 45 @21884 has 134 MA's), (92, 22061), (96, 22082), (139, 22229), (163, 22370), (167, 22403), (171, 22436), (176, 22472), (196, 22565), (208, 22625), (213, 22643), (238, 22775), (245, 22820), (265, 22952), (272, 22997), (307, 23171), (310, 23192), (318, 23231), (321, 23252), (325, 23267), (351, 23423), (352, 23441), (362, 23495), (376, 23579), (390, 23672), (427, 23918), (450, 24134), (457, 24218), (464, 24251),

Gene: TootsiePop_19 Start: 17273, Stop: 19798, Start Num: 21

Candidate Starts for TootsiePop_19:

(Start: 21 @17273 has 242 MA's), (28, 17294), (Start: 35 @17315 has 1 MA's), (41, 17354), (64, 17423), (65, 17432), (66, 17435), (73, 17453), (80, 17486), (83, 17501), (94, 17549), (120, 17660),

(121, 17663), (135, 17708), (145, 17786), (149, 17810), (Start: 161 @17876 has 1 MA's), (168, 17921), (171, 17951), (172, 17957), (174, 17975), (181, 17999), (183, 18008), (189, 18041), (191, 18047), (196, 18077), (205, 18116), (206, 18128), (208, 18137), (212, 18152), (213, 18155), (241, 18302), (250, 18353), (264, 18464), (273, 18515), (278, 18539), (296, 18632), (305, 18677), (307, 18686), (310, 18707), (313, 18719), (314, 18722), (321, 18767), (330, 18812), (331, 18830), (332, 18833), (341, 18884), (349, 18935), (351, 18941), (352, 18959), (355, 18971), (356, 18980), (362, 19013), (376, 19094), (384, 19163), (390, 19190), (393, 19217), (403, 19268), (408, 19316), (441, 19559), (450, 19664), (452, 19685), (459, 19739), (463, 19763),

Gene: Tootsieroll_19 Start: 17239, Stop: 19776, Start Num: 21

Candidate Starts for Tootsieroll_19:

(18, 17227), (Start: 21 @17239 has 242 MA's), (28, 17260), (Start: 35 @17281 has 1 MA's), (41, 17320), (64, 17389), (65, 17398), (66, 17401), (73, 17419), (80, 17452), (83, 17467), (94, 17515), (117, 17620), (120, 17626), (121, 17629), (134, 17671), (135, 17674), (149, 17776), (Start: 161 @17842 has 1 MA's), (168, 17887), (171, 17917), (172, 17923), (174, 17941), (181, 17965), (183, 17974), (189, 18007), (191, 18013), (196, 18043), (206, 18094), (208, 18103), (229, 18211), (232, 18223), (234, 18232), (235, 18235), (237, 18250), (240, 18265), (241, 18268), (243, 18289), (250, 18319), (252, 18331), (254, 18364), (272, 18475), (273, 18478), (279, 18505), (282, 18511), (290, 18565), (291, 18568), (296, 18595), (310, 18670), (313, 18682), (314, 18685), (327, 18751), (329, 18772), (330, 18775), (332, 18796), (334, 18805), (344, 18865), (345, 18868), (349, 18898), (352, 18922), (355, 18934), (356, 18943), (374, 19039), (376, 19057), (378, 19066), (379, 19078), (386, 19144), (390, 19153), (391, 19165), (396, 19189), (402, 19225), (422, 19381), (438, 19516), (442, 19540), (447, 19594), (452, 19663), (456, 19708), (457, 19711),

Gene: Topiatin_20 Start: 18098, Stop: 20635, Start Num: 21

Candidate Starts for Topiatin_20:

(18, 18086), (Start: 21 @18098 has 242 MA's), (28, 18119), (Start: 35 @18140 has 1 MA's), (41, 18179), (64, 18248), (65, 18257), (66, 18260), (73, 18278), (80, 18311), (83, 18326), (94, 18374), (120, 18485), (121, 18488), (131, 18518), (135, 18533), (145, 18611), (149, 18635), (Start: 161 @18701 has 1 MA's), (168, 18746), (171, 18776), (172, 18782), (174, 18800), (181, 18824), (183, 18833), (189, 18866), (191, 18872), (196, 18902), (205, 18941), (206, 18953), (208, 18962), (212, 18977), (213, 18980), (234, 19091), (235, 19094), (236, 19103), (237, 19109), (240, 19124), (241, 19127), (243, 19148), (250, 19178), (252, 19190), (254, 19223), (272, 19334), (273, 19337), (279, 19364), (282, 19370), (290, 19424), (291, 19427), (308, 19514), (310, 19529), (313, 19541), (314, 19544), (327, 19610), (330, 19634), (332, 19655), (334, 19664), (341, 19706), (344, 19724), (345, 19727), (351, 19763), (352, 19781), (355, 19793), (356, 19802), (360, 19829), (374, 19898), (376, 19916), (378, 19925), (379, 19937), (382, 19973), (386, 20003), (391, 20024), (396, 20048), (402, 20084), (408, 20138), (416, 20198), (422, 20240), (430, 20318), (438, 20375), (442, 20399), (447, 20453), (450, 20501), (454, 20543), (456, 20567), (457, 20570),

Gene: Toron_20 Start: 17872, Stop: 20292, Start Num: 57

Candidate Starts for Toron_20:

(57, 17872), (61, 17878), (62, 17884), (79, 17947), (87, 17971), (88, 17974), (99, 18037), (127, 18145), (130, 18154), (135, 18175), (136, 18184), (148, 18274), (155, 18319), (165, 18379), (183, 18475), (194, 18532), (200, 18556), (209, 18604), (212, 18613), (213, 18616), (221, 18664), (229, 18706), (235, 18730), (236, 18739), (237, 18745), (241, 18763), (243, 18784), (246, 18796), (250, 18814), (252, 18826), (254, 18859), (263, 18922), (265, 18925), (267, 18940), (269, 18952), (290, 19060), (293, 19084), (302, 19111), (304, 19117), (310, 19165), (316, 19189), (321, 19225), (322, 19231), (325, 19240), (341, 19354), (342, 19369), (355, 19447), (375, 19558), (376, 19573), (378, 19582), (390, 19669), (396, 19705), (402, 19741), (408, 19795), (438, 20032), (442, 20056), (452, 20179), (456, 20224), (463, 20257),

Gene: Totinger_19 Start: 17189, Stop: 19726, Start Num: 21

Candidate Starts for Totinger_19:

(Start: 21 @17189 has 242 MA's), (28, 17210), (Start: 35 @17231 has 1 MA's), (41, 17270), (64, 17339), (65, 17348), (66, 17351), (73, 17369), (83, 17417), (117, 17570), (121, 17579), (135, 17624), (148, 17723), (149, 17726), (Start: 161 @17792 has 1 MA's), (171, 17867), (172, 17873), (174, 17891), (181, 17915), (182, 17921), (183, 17924), (189, 17957), (191, 17963), (196, 17993), (202, 18014), (206, 18044), (208, 18053), (212, 18068), (213, 18071), (234, 18182), (235, 18185), (236, 18194), (237, 18200), (240, 18215), (241, 18218), (243, 18239), (250, 18269), (252, 18281), (254, 18314), (272, 18425), (273, 18428), (279, 18455), (282, 18461), (290, 18515), (291, 18518), (310, 18620), (313, 18632), (314, 18635), (327, 18701), (330, 18725), (332, 18746), (334, 18755), (344, 18815), (345, 18818), (351, 18854), (352, 18872), (355, 18884), (356, 18893), (360, 18920), (372, 18977), (374, 18989), (376, 19007), (378, 19016), (379, 19028), (382, 19064), (386, 19094), (390, 19103), (391, 19115), (402, 19175), (408, 19229), (416, 19289), (422, 19331), (438, 19466), (442, 19490), (447, 19544), (450, 19592), (454, 19634), (456, 19658), (457, 19661),

Gene: Toto_26 Start: 22284, Stop: 24680, Start Num: 45

Candidate Starts for Toto_26:

(Start: 45 @22284 has 134 MA's), (92, 22461), (96, 22482), (139, 22629), (163, 22770), (167, 22803), (171, 22836), (176, 22872), (196, 22965), (208, 23025), (213, 23043), (242, 23199), (245, 23220), (262, 23340), (265, 23352), (272, 23397), (310, 23592), (314, 23607), (321, 23652), (325, 23667), (351, 23823), (352, 23841), (354, 23850), (376, 23979), (377, 23982), (407, 24192), (409, 24204), (427, 24318), (450, 24534), (457, 24618), (462, 24642), (464, 24651),

Gene: Traaww1_24 Start: 21929, Stop: 24325, Start Num: 45

Candidate Starts for Traaww1_24:

(Start: 45 @21929 has 134 MA's), (92, 22106), (96, 22127), (139, 22274), (163, 22415), (167, 22448), (171, 22481), (176, 22517), (196, 22610), (208, 22670), (213, 22688), (227, 22769), (265, 22997), (272, 23042), (310, 23237), (311, 23243), (314, 23252), (321, 23297), (325, 23312), (351, 23468), (352, 23486), (354, 23495), (363, 23549), (376, 23624), (377, 23627), (407, 23837), (409, 23849), (427, 23963), (450, 24179), (457, 24263), (462, 24287), (464, 24296),

Gene: Troll4_30 Start: 24317, Stop: 26587, Start Num: 91

Candidate Starts for Troll4_30:

(Start: 91 @24317 has 22 MA's), (118, 24452), (122, 24461), (152, 24635), (153, 24641), (154, 24653), (181, 24806), (185, 24821), (188, 24836), (260, 25217), (261, 25223), (268, 25268), (288, 25355), (324, 25556), (326, 25562), (332, 25610), (336, 25640), (340, 25664), (366, 25853), (373, 25880), (379, 25928), (389, 26000), (396, 26039), (397, 26060), (400, 26075), (403, 26093), (405, 26123), (417, 26207), (446, 26408), (450, 26450), (468, 26576),

Gene: Tuco_27 Start: 22799, Stop: 25195, Start Num: 45

Candidate Starts for Tuco_27:

(Start: 45 @22799 has 134 MA's), (92, 22976), (96, 22997), (139, 23144), (163, 23285), (167, 23318), (171, 23351), (176, 23387), (196, 23480), (208, 23540), (213, 23558), (227, 23639), (265, 23867), (272, 23912), (310, 24107), (311, 24113), (314, 24122), (321, 24167), (325, 24182), (351, 24338), (352, 24356), (354, 24365), (363, 24419), (376, 24494), (377, 24497), (407, 24707), (409, 24719), (427, 24833), (450, 25049), (457, 25133), (462, 25157), (464, 25166),

Gene: Tweety_18 Start: 17451, Stop: 19988, Start Num: 21

Candidate Starts for Tweety_18:

(18, 17439), (Start: 21 @17451 has 242 MA's), (28, 17472), (Start: 35 @17493 has 1 MA's), (41, 17532), (64, 17601), (65, 17610), (66, 17613), (73, 17631), (80, 17664), (83, 17679), (94, 17727), (120, 17838), (121, 17841), (131, 17871), (135, 17886), (145, 17964), (149, 17988), (Start: 161 @18054 has 1 MA's), (168, 18099), (171, 18129), (172, 18135), (174, 18153), (181, 18177), (183, 18186), (189, 18219), (191, 18225), (196, 18255), (205, 18294), (206, 18306), (208, 18315), (212, 18330), (213,

18333), (234, 18444), (235, 18447), (236, 18456), (237, 18462), (240, 18477), (241, 18480), (243, 18501), (250, 18531), (252, 18543), (254, 18576), (265, 18642), (272, 18687), (273, 18690), (279, 18717), (282, 18723), (290, 18777), (291, 18780), (308, 18867), (310, 18882), (313, 18894), (314, 18897), (327, 18963), (330, 18987), (332, 19008), (334, 19017), (341, 19059), (344, 19077), (345, 19080), (351, 19116), (352, 19134), (355, 19146), (356, 19155), (360, 19182), (374, 19251), (376, 19269), (378, 19278), (379, 19290), (382, 19326), (386, 19356), (391, 19377), (396, 19401), (402, 19437), (408, 19491), (416, 19551), (422, 19593), (438, 19728), (442, 19752), (447, 19806), (450, 19854), (454, 19896), (456, 19920), (457, 19923),

Gene: Ukulele_26 Start: 22042, Stop: 24438, Start Num: 45

Candidate Starts for Ukulele_26:

(Start: 45 @22042 has 134 MA's), (92, 22219), (96, 22240), (139, 22387), (167, 22561), (171, 22594), (176, 22630), (196, 22723), (208, 22783), (213, 22801), (238, 22933), (245, 22978), (265, 23110), (272, 23155), (287, 23215), (307, 23329), (310, 23350), (318, 23389), (321, 23410), (325, 23425), (349, 23575), (351, 23581), (352, 23599), (362, 23653), (376, 23737), (390, 23830), (427, 24076), (450, 24292), (457, 24376), (464, 24409),

Gene: UncleRicky_19 Start: 17219, Stop: 19756, Start Num: 21

Candidate Starts for UncleRicky_19:

(18, 17207), (Start: 21 @17219 has 242 MA's), (28, 17240), (Start: 35 @17261 has 1 MA's), (41, 17300), (64, 17369), (65, 17378), (66, 17381), (73, 17399), (80, 17432), (83, 17447), (94, 17495), (117, 17600), (121, 17609), (134, 17651), (135, 17654), (145, 17732), (149, 17756), (Start: 161 @17822 has 1 MA's), (168, 17867), (171, 17897), (172, 17903), (174, 17921), (181, 17945), (183, 17954), (189, 17987), (191, 17993), (196, 18023), (205, 18062), (206, 18074), (208, 18083), (212, 18098), (213, 18101), (234, 18212), (236, 18224), (237, 18230), (240, 18245), (241, 18248), (243, 18269), (250, 18299), (252, 18311), (254, 18344), (265, 18410), (272, 18455), (273, 18458), (279, 18485), (282, 18491), (290, 18545), (291, 18548), (296, 18575), (310, 18650), (313, 18662), (314, 18665), (327, 18731), (330, 18755), (334, 18785), (341, 18827), (344, 18845), (345, 18848), (351, 18884), (352, 18902), (356, 18923), (360, 18950), (374, 19019), (376, 19037), (378, 19046), (379, 19058), (382, 19094), (386, 19124), (390, 19133), (391, 19145), (402, 19205), (408, 19259), (416, 19319), (422, 19361), (430, 19439), (438, 19496), (442, 19520), (447, 19574), (450, 19622), (454, 19664), (456, 19688), (457, 19691),

Gene: VRedHorse_18 Start: 17564, Stop: 20101, Start Num: 21

Candidate Starts for VRedHorse_18:

(18, 17552), (Start: 21 @17564 has 242 MA's), (28, 17585), (Start: 35 @17606 has 1 MA's), (40, 17642), (41, 17645), (64, 17714), (65, 17723), (66, 17726), (73, 17744), (80, 17777), (83, 17792), (94, 17840), (117, 17945), (120, 17951), (121, 17954), (134, 17996), (135, 17999), (149, 18101), (Start: 161 @18167 has 1 MA's), (168, 18212), (171, 18242), (172, 18248), (174, 18266), (181, 18290), (183, 18299), (189, 18332), (191, 18338), (202, 18389), (205, 18407), (206, 18419), (208, 18428), (212, 18443), (214, 18449), (234, 18557), (236, 18569), (237, 18575), (240, 18590), (241, 18593), (243, 18614), (250, 18644), (252, 18656), (254, 18689), (265, 18755), (272, 18800), (273, 18803), (279, 18830), (282, 18836), (290, 18890), (291, 18893), (310, 18995), (313, 19007), (314, 19010), (327, 19076), (330, 19100), (332, 19121), (334, 19130), (344, 19190), (345, 19193), (351, 19229), (352, 19247), (356, 19268), (360, 19295), (374, 19364), (376, 19382), (378, 19391), (379, 19403), (382, 19439), (391, 19490), (394, 19508), (402, 19550), (408, 19604), (422, 19706), (430, 19784), (438, 19841), (442, 19865), (447, 19919), (450, 19967), (456, 20033), (457, 20036),

Gene: Veteran_18 Start: 17402, Stop: 19939, Start Num: 21

Candidate Starts for Veteran_18:

(Start: 21 @17402 has 242 MA's), (28, 17423), (Start: 35 @17444 has 1 MA's), (41, 17483), (64, 17552), (65, 17561), (66, 17564), (73, 17582), (80, 17615), (83, 17630), (117, 17783), (121, 17792), (135, 17837), (148, 17936), (149, 17939), (Start: 161 @18005 has 1 MA's), (171, 18080), (172, 18086),

(181, 18128), (182, 18134), (183, 18137), (189, 18170), (191, 18176), (196, 18206), (202, 18227), (206, 18257), (208, 18266), (212, 18281), (213, 18284), (234, 18395), (235, 18398), (236, 18407), (237, 18413), (240, 18428), (241, 18431), (243, 18452), (250, 18482), (252, 18494), (254, 18527), (272, 18638), (273, 18641), (279, 18668), (282, 18674), (290, 18728), (291, 18731), (308, 18818), (310, 18833), (313, 18845), (314, 18848), (327, 18914), (330, 18938), (332, 18959), (334, 18968), (341, 19010), (344, 19028), (345, 19031), (349, 19061), (352, 19085), (355, 19097), (356, 19106), (374, 19202), (376, 19220), (378, 19229), (379, 19241), (382, 19277), (386, 19307), (390, 19316), (391, 19328), (402, 19388), (408, 19442), (416, 19502), (422, 19544), (438, 19679), (442, 19703), (447, 19757), (450, 19805), (454, 19847), (456, 19871), (457, 19874),

Gene: Violac_19 Start: 17946, Stop: 20471, Start Num: 21

Candidate Starts for Violac_19:

(Start: 21 @17946 has 242 MA's), (28, 17967), (32, 17988), (42, 18027), (64, 18096), (65, 18105), (66, 18108), (73, 18126), (83, 18174), (94, 18222), (120, 18333), (121, 18336), (132, 18369), (135, 18381), (145, 18459), (155, 18525), (163, 18558), (169, 18612), (171, 18624), (181, 18672), (182, 18678), (183, 18681), (186, 18690), (192, 18723), (200, 18762), (202, 18765), (204, 18780), (205, 18783), (209, 18810), (210, 18816), (212, 18819), (213, 18822), (217, 18849), (220, 18867), (221, 18870), (236, 18945), (240, 18966), (241, 18969), (244, 18996), (250, 19020), (254, 19065), (255, 19068), (262, 19119), (273, 19182), (275, 19191), (280, 19215), (302, 19320), (303, 19323), (310, 19374), (311, 19380), (313, 19386), (314, 19389), (321, 19434), (325, 19449), (329, 19476), (332, 19500), (334, 19509), (344, 19569), (345, 19572), (346, 19584), (352, 19626), (355, 19638), (376, 19761), (383, 19824), (394, 19887), (404, 19962), (432, 20163), (450, 20334), (453, 20373), (459, 20412), (460, 20415),

Gene: Visconti_30 Start: 24326, Stop: 26596, Start Num: 91

Candidate Starts for Visconti_30:

(Start: 91 @24326 has 22 MA's), (118, 24461), (122, 24470), (152, 24644), (153, 24650), (154, 24662), (181, 24815), (185, 24830), (188, 24845), (260, 25226), (261, 25232), (268, 25277), (288, 25364), (324, 25565), (326, 25571), (332, 25619), (336, 25649), (340, 25673), (366, 25862), (373, 25889), (379, 25937), (389, 26009), (396, 26048), (397, 26069), (400, 26084), (403, 26102), (405, 26132), (417, 26216), (446, 26417), (450, 26459), (468, 26585),

Gene: Vivum_18 Start: 17344, Stop: 19881, Start Num: 21

Candidate Starts for Vivum_18:

(Start: 21 @17344 has 242 MA's), (28, 17365), (Start: 35 @17386 has 1 MA's), (41, 17425), (64, 17494), (65, 17503), (66, 17506), (73, 17524), (83, 17572), (117, 17725), (121, 17734), (135, 17779), (148, 17878), (149, 17881), (Start: 161 @17947 has 1 MA's), (171, 18022), (172, 18028), (174, 18046), (181, 18070), (182, 18076), (183, 18079), (189, 18112), (191, 18118), (196, 18148), (202, 18169), (206, 18199), (208, 18208), (212, 18223), (213, 18226), (234, 18337), (235, 18340), (236, 18349), (237, 18355), (240, 18370), (241, 18373), (243, 18394), (250, 18424), (252, 18436), (254, 18469), (272, 18580), (273, 18583), (279, 18610), (282, 18616), (290, 18670), (291, 18673), (310, 18775), (313, 18787), (314, 18790), (327, 18856), (330, 18880), (332, 18901), (334, 18910), (344, 18970), (345, 18973), (351, 19009), (352, 19027), (355, 19039), (356, 19048), (360, 19075), (372, 19132), (374, 19144), (376, 19162), (378, 19171), (379, 19183), (382, 19219), (386, 19249), (390, 19258), (391, 19270), (402, 19330), (408, 19384), (416, 19444), (422, 19486), (438, 19621), (442, 19645), (447, 19699), (450, 19747), (454, 19789), (456, 19813), (457, 19816),

Gene: Wachhund_18 Start: 17422, Stop: 19959, Start Num: 21

Candidate Starts for Wachhund_18:

(Start: 21 @17422 has 242 MA's), (28, 17443), (Start: 35 @17464 has 1 MA's), (41, 17503), (64, 17572), (65, 17581), (66, 17584), (73, 17602), (83, 17650), (120, 17809), (121, 17812), (135, 17857), (145, 17935), (148, 17956), (149, 17959), (Start: 161 @18025 has 1 MA's), (171, 18100), (172, 18106), (181, 18148), (182, 18154), (183, 18157), (189, 18190), (191, 18196), (196, 18226), (202, 18247),

(206, 18277), (208, 18286), (229, 18394), (234, 18415), (235, 18418), (236, 18427), (237, 18433), (240, 18448), (241, 18451), (243, 18472), (250, 18502), (252, 18514), (254, 18547), (272, 18658), (273, 18661), (279, 18688), (282, 18694), (290, 18748), (291, 18751), (308, 18838), (310, 18853), (313, 18865), (314, 18868), (327, 18934), (332, 18979), (334, 18988), (344, 19048), (345, 19051), (351, 19087), (352, 19105), (355, 19117), (356, 19126), (360, 19153), (374, 19222), (376, 19240), (378, 19249), (379, 19261), (382, 19297), (386, 19327), (391, 19348), (396, 19372), (402, 19408), (408, 19462), (416, 19522), (422, 19564), (438, 19699), (442, 19723), (447, 19777), (450, 19825), (454, 19867), (456, 19891), (457, 19894),

Gene: WaldoWhy_31 Start: 24322, Stop: 26592, Start Num: 91

Candidate Starts for WaldoWhy_31:

(Start: 91 @24322 has 22 MA's), (118, 24457), (122, 24466), (152, 24640), (153, 24646), (154, 24658), (181, 24811), (185, 24826), (188, 24841), (260, 25222), (261, 25228), (268, 25273), (288, 25360), (324, 25561), (326, 25567), (332, 25615), (336, 25645), (340, 25669), (366, 25858), (373, 25885), (379, 25933), (389, 26005), (396, 26044), (397, 26065), (400, 26080), (403, 26098), (405, 26128), (417, 26212), (446, 26413), (450, 26455), (468, 26581),

Gene: Wanda_39 Start: 29807, Stop: 32362, Start Num: 21

Candidate Starts for Wanda_39:

(Start: 21 @29807 has 242 MA's), (73, 30002), (80, 30038), (83, 30053), (94, 30101), (120, 30212), (121, 30215), (131, 30245), (135, 30260), (145, 30338), (149, 30362), (Start: 161 @30428 has 1 MA's), (168, 30473), (171, 30503), (172, 30509), (174, 30527), (181, 30551), (183, 30560), (189, 30593), (191, 30599), (196, 30629), (205, 30668), (206, 30680), (208, 30689), (212, 30704), (213, 30707), (234, 30818), (235, 30821), (236, 30830), (237, 30836), (240, 30851), (241, 30854), (243, 30875), (250, 30905), (252, 30917), (254, 30950), (265, 31016), (272, 31061), (273, 31064), (279, 31091), (282, 31097), (290, 31151), (291, 31154), (308, 31241), (310, 31256), (313, 31268), (314, 31271), (327, 31337), (332, 31382), (334, 31391), (344, 31451), (345, 31454), (351, 31490), (352, 31508), (355, 31520), (356, 31529), (360, 31556), (374, 31625), (376, 31643), (378, 31652), (379, 31664), (382, 31700), (386, 31730), (391, 31751), (396, 31775), (402, 31811), (408, 31865), (416, 31925), (422, 31967), (438, 32102), (442, 32126), (447, 32180), (450, 32228), (454, 32270), (456, 32294), (457, 32297),

Gene: Wee_19 Start: 17971, Stop: 20508, Start Num: 21

Candidate Starts for Wee_19:

(18, 17959), (Start: 21 @17971 has 242 MA's), (28, 17992), (Start: 35 @18013 has 1 MA's), (41, 18052), (64, 18121), (65, 18130), (66, 18133), (73, 18151), (80, 18184), (83, 18199), (94, 18247), (117, 18352), (120, 18358), (121, 18361), (134, 18403), (135, 18406), (145, 18484), (Start: 161 @18574 has 1 MA's), (168, 18619), (171, 18649), (172, 18655), (174, 18673), (181, 18697), (183, 18706), (189, 18739), (191, 18745), (196, 18775), (205, 18814), (206, 18826), (208, 18835), (212, 18850), (213, 18853), (234, 18964), (235, 18967), (236, 18976), (237, 18982), (240, 18997), (241, 19000), (243, 19021), (250, 19051), (252, 19063), (254, 19096), (265, 19162), (272, 19207), (273, 19210), (279, 19237), (282, 19243), (290, 19297), (291, 19300), (308, 19387), (310, 19402), (313, 19414), (314, 19417), (327, 19483), (332, 19528), (334, 19537), (344, 19597), (345, 19600), (351, 19636), (352, 19654), (355, 19666), (356, 19675), (360, 19702), (374, 19771), (376, 19789), (378, 19798), (379, 19810), (382, 19846), (386, 19876), (391, 19897), (396, 19921), (402, 19957), (408, 20011), (416, 20071), (422, 20113), (438, 20248), (442, 20272), (447, 20326), (450, 20374), (454, 20416), (456, 20440), (457, 20443),

Gene: Weirdo19_22 Start: 19521, Stop: 21416, Start Num: 160

Candidate Starts for Weirdo19_22:

(159, 19515), (160, 19521), (175, 19635), (180, 19647), (203, 19758), (207, 19779), (211, 19800), (216, 19818), (246, 19962), (249, 19971), (252, 19986), (261, 20070), (284, 20175), (292, 20232), (294, 20247), (297, 20256), (298, 20259), (300, 20265), (315, 20337), (318, 20361), (320, 20376),

(337, 20490), (340, 20511), (354, 20616), (361, 20667), (363, 20679), (368, 20703), (384, 20808), (389, 20829), (401, 20898), (409, 20964), (412, 20988), (448, 21234), (452, 21297), (459, 21357), (464, 21387), (466, 21393), (468, 21405),

Gene: Whatsapiecost_18 Start: 17447, Stop: 19984, Start Num: 21

Candidate Starts for Whatsapiecost_18:

(18, 17435), (Start: 21 @17447 has 242 MA's), (28, 17468), (Start: 35 @17489 has 1 MA's), (41, 17528), (64, 17597), (65, 17606), (66, 17609), (73, 17627), (80, 17660), (83, 17675), (94, 17723), (120, 17834), (121, 17837), (131, 17867), (134, 17879), (135, 17882), (145, 17960), (149, 17984), (Start: 161 @18050 has 1 MA's), (168, 18095), (171, 18125), (172, 18131), (174, 18149), (181, 18173), (183, 18182), (189, 18215), (191, 18221), (196, 18251), (205, 18290), (206, 18302), (208, 18311), (212, 18326), (213, 18329), (234, 18440), (235, 18443), (236, 18452), (237, 18458), (240, 18473), (241, 18476), (243, 18497), (250, 18527), (252, 18539), (254, 18572), (272, 18683), (273, 18686), (279, 18713), (282, 18719), (290, 18773), (291, 18776), (310, 18878), (313, 18890), (314, 18893), (327, 18959), (330, 18983), (332, 19004), (334, 19013), (344, 19073), (345, 19076), (351, 19112), (352, 19130), (355, 19142), (356, 19151), (360, 19178), (374, 19247), (376, 19265), (378, 19274), (379, 19286), (382, 19322), (386, 19352), (391, 19373), (396, 19397), (402, 19433), (408, 19487), (416, 19547), (422, 19589), (430, 19667), (438, 19724), (442, 19748), (447, 19802), (450, 19850), (454, 19892), (456, 19916), (457, 19919),

Gene: Whouxphf_18 Start: 17504, Stop: 20041, Start Num: 21

Candidate Starts for Whouxphf_18:

(Start: 21 @17504 has 242 MA's), (28, 17525), (Start: 35 @17546 has 1 MA's), (41, 17585), (64, 17654), (65, 17663), (66, 17666), (73, 17684), (83, 17732), (120, 17891), (121, 17894), (135, 17939), (148, 18038), (149, 18041), (171, 18182), (172, 18188), (181, 18230), (182, 18236), (183, 18239), (189, 18272), (191, 18278), (196, 18308), (202, 18329), (206, 18359), (208, 18368), (229, 18476), (232, 18488), (234, 18497), (235, 18500), (236, 18509), (237, 18515), (240, 18530), (241, 18533), (243, 18554), (252, 18596), (254, 18629), (279, 18770), (282, 18776), (290, 18830), (291, 18833), (296, 18860), (310, 18935), (313, 18947), (314, 18950), (327, 19016), (330, 19040), (332, 19061), (334, 19070), (341, 19112), (344, 19130), (345, 19133), (349, 19163), (352, 19187), (356, 19208), (374, 19304), (376, 19322), (378, 19331), (379, 19343), (382, 19379), (386, 19409), (390, 19418), (391, 19430), (402, 19490), (422, 19646), (430, 19724), (438, 19781), (442, 19805), (447, 19859), (450, 19907), (452, 19928), (456, 19973), (457, 19976),

Gene: Wiggin_29 Start: 22788, Stop: 25184, Start Num: 45

Candidate Starts for Wiggin_29:

(Start: 45 @22788 has 134 MA's), (92, 22965), (96, 22986), (139, 23133), (167, 23307), (171, 23340), (176, 23376), (196, 23469), (208, 23529), (213, 23547), (238, 23679), (245, 23724), (265, 23856), (272, 23901), (287, 23961), (307, 24075), (310, 24096), (318, 24135), (321, 24156), (325, 24171), (349, 24321), (351, 24327), (352, 24345), (362, 24399), (376, 24483), (390, 24576), (427, 24822), (450, 25038), (457, 25122), (464, 25155),

Gene: Wildcat_43 Start: 28342, Stop: 30909, Start Num: 20

Candidate Starts for Wildcat_43:

(Start: 20 @28342 has 6 MA's), (36, 28411), (69, 28534), (72, 28540), (73, 28543), (78, 28567), (82, 28588), (116, 28744), (119, 28750), (121, 28756), (130, 28786), (131, 28792), (135, 28813), (136, 28822), (144, 28882), (156, 28960), (172, 29059), (177, 29092), (182, 29107), (183, 29110), (191, 29149), (202, 29200), (205, 29218), (208, 29239), (209, 29245), (216, 29272), (219, 29299), (234, 29368), (239, 29392), (242, 29413), (245, 29434), (247, 29443), (252, 29464), (254, 29497), (255, 29500), (262, 29551), (265, 29563), (277, 29629), (283, 29647), (289, 29686), (310, 29803), (319, 29848), (329, 29905), (332, 29929), (334, 29938), (337, 29956), (344, 30001), (349, 30034), (353, 30070), (381, 30244), (382, 30262), (383, 30268), (393, 30325), (437, 30649), (440, 30667), (445, 30718), (451, 30781), (456, 30856),

Gene: WillSterrel_19 Start: 18757, Stop: 21294, Start Num: 21

Candidate Starts for WillSterrel_19:

(Start: 21 @18757 has 242 MA's), (28, 18778), (Start: 35 @18799 has 1 MA's), (41, 18838), (64, 18907), (65, 18916), (66, 18919), (73, 18937), (83, 18985), (117, 19138), (121, 19147), (135, 19192), (148, 19291), (149, 19294), (Start: 161 @19360 has 1 MA's), (171, 19435), (172, 19441), (174, 19459), (181, 19483), (182, 19489), (183, 19492), (189, 19525), (191, 19531), (196, 19561), (202, 19582), (206, 19612), (208, 19621), (212, 19636), (213, 19639), (234, 19750), (235, 19753), (236, 19762), (237, 19768), (240, 19783), (241, 19786), (243, 19807), (250, 19837), (252, 19849), (254, 19882), (272, 19993), (273, 19996), (279, 20023), (282, 20029), (290, 20083), (291, 20086), (308, 20173), (310, 20188), (313, 20200), (314, 20203), (327, 20269), (330, 20293), (332, 20314), (334, 20323), (344, 20383), (345, 20386), (351, 20422), (352, 20440), (355, 20452), (356, 20461), (360, 20488), (372, 20545), (374, 20557), (376, 20575), (378, 20584), (379, 20596), (382, 20632), (386, 20662), (390, 20671), (391, 20683), (402, 20743), (408, 20797), (416, 20857), (422, 20899), (438, 21034), (442, 21058), (447, 21112), (450, 21160), (454, 21202), (456, 21226), (457, 21229),

Gene: Willez_25 Start: 21788, Stop: 24184, Start Num: 45

Candidate Starts for Willez_25:

(Start: 45 @21788 has 134 MA's), (92, 21965), (96, 21986), (139, 22133), (163, 22274), (167, 22307), (171, 22340), (176, 22376), (196, 22469), (208, 22529), (213, 22547), (238, 22679), (245, 22724), (265, 22856), (272, 22901), (287, 22961), (307, 23075), (310, 23096), (318, 23135), (321, 23156), (325, 23171), (349, 23321), (351, 23327), (352, 23345), (362, 23399), (376, 23483), (390, 23576), (427, 23822), (450, 24038), (457, 24122), (464, 24155),

Gene: XFactor_18 Start: 17403, Stop: 19940, Start Num: 21

Candidate Starts for XFactor_18:

(18, 17391), (Start: 21 @17403 has 242 MA's), (28, 17424), (Start: 35 @17445 has 1 MA's), (41, 17484), (64, 17553), (65, 17562), (66, 17565), (73, 17583), (80, 17616), (83, 17631), (94, 17679), (120, 17790), (121, 17793), (131, 17823), (135, 17838), (145, 17916), (149, 17940), (Start: 161 @18006 has 1 MA's), (168, 18051), (171, 18081), (172, 18087), (174, 18105), (181, 18129), (183, 18138), (189, 18171), (191, 18177), (196, 18207), (205, 18246), (206, 18258), (208, 18267), (212, 18282), (213, 18285), (234, 18396), (235, 18399), (236, 18408), (237, 18414), (240, 18429), (241, 18432), (243, 18453), (250, 18483), (252, 18495), (254, 18528), (272, 18639), (273, 18642), (279, 18669), (282, 18675), (290, 18729), (291, 18732), (310, 18834), (313, 18846), (314, 18849), (327, 18915), (330, 18939), (332, 18960), (334, 18969), (344, 19029), (345, 19032), (351, 19068), (352, 19086), (355, 19098), (356, 19107), (360, 19134), (374, 19203), (376, 19221), (378, 19230), (379, 19242), (382, 19278), (386, 19308), (391, 19329), (396, 19353), (402, 19389), (408, 19443), (416, 19503), (422, 19545), (430, 19623), (438, 19680), (442, 19704), (447, 19758), (450, 19806), (454, 19848), (456, 19872), (457, 19875),

Gene: Xandras_28 Start: 22274, Stop: 24670, Start Num: 45

Candidate Starts for Xandras_28:

(Start: 45 @22274 has 134 MA's), (92, 22451), (96, 22472), (139, 22619), (167, 22793), (171, 22826), (176, 22862), (196, 22955), (208, 23015), (213, 23033), (238, 23165), (245, 23210), (265, 23342), (272, 23387), (287, 23447), (307, 23561), (310, 23582), (318, 23621), (321, 23642), (325, 23657), (349, 23807), (351, 23813), (352, 23831), (362, 23885), (376, 23969), (390, 24062), (427, 24308), (450, 24524), (457, 24608), (464, 24641),

Gene: YassJohnny_27 Start: 22799, Stop: 25195, Start Num: 45

Candidate Starts for YassJohnny_27:

(Start: 45 @22799 has 134 MA's), (92, 22976), (96, 22997), (139, 23144), (163, 23285), (167, 23318), (171, 23351), (176, 23387), (196, 23480), (208, 23540), (213, 23558), (238, 23690), (245, 23735), (265, 23867), (272, 23912), (307, 24086), (310, 24107), (318, 24146), (321, 24167), (325, 24182),

(351, 24338), (352, 24356), (362, 24410), (376, 24494), (390, 24587), (427, 24833), (450, 25049), (457, 25133), (464, 25166),

Gene: Yorick_18 Start: 17404, Stop: 19956, Start Num: 21

Candidate Starts for Yorick_18:

(Start: 21 @17404 has 242 MA's), (42, 17485), (64, 17554), (65, 17563), (66, 17566), (73, 17584), (83, 17632), (93, 17677), (120, 17791), (121, 17794), (125, 17806), (132, 17827), (134, 17836), (135, 17839), (142, 17887), (145, 17917), (155, 17983), (163, 18016), (168, 18052), (170, 18076), (182, 18136), (183, 18139), (187, 18157), (200, 18220), (202, 18223), (205, 18241), (208, 18262), (213, 18280), (217, 18307), (221, 18328), (227, 18361), (236, 18403), (237, 18409), (238, 18412), (241, 18427), (244, 18454), (245, 18457), (250, 18478), (252, 18490), (254, 18523), (269, 18616), (290, 18724), (293, 18748), (296, 18754), (301, 18772), (302, 18775), (305, 18799), (310, 18829), (316, 18853), (321, 18889), (322, 18895), (325, 18904), (329, 18931), (338, 18994), (341, 19018), (342, 19033), (349, 19075), (357, 19126), (375, 19222), (376, 19237), (378, 19246), (380, 19270), (390, 19333), (396, 19369), (436, 19675), (442, 19720), (450, 19822),

Gene: Yoshi_24 Start: 17092, Stop: 19641, Start Num: 13

Candidate Starts for Yoshi_24:

(11, 17083), (Start: 13 @17092 has 7 MA's), (Start: 21 @17152 has 242 MA's), (30, 17185), (31, 17188), (50, 17257), (59, 17287), (106, 17467), (112, 17482), (121, 17518), (123, 17524), (131, 17545), (137, 17569), (141, 17593), (165, 17740), (168, 17749), (171, 17773), (174, 17797), (181, 17821), (182, 17827), (187, 17848), (191, 17869), (196, 17899), (203, 17929), (206, 17950), (225, 18043), (227, 18058), (229, 18067), (234, 18088), (235, 18091), (250, 18175), (251, 18178), (252, 18187), (255, 18223), (259, 18262), (263, 18283), (265, 18286), (271, 18322), (275, 18343), (290, 18421), (291, 18424), (304, 18478), (313, 18538), (328, 18625), (330, 18631), (331, 18649), (332, 18652), (339, 18688), (348, 18742), (349, 18751), (359, 18829), (363, 18847), (369, 18883), (370, 18886), (374, 18904), (375, 18907), (376, 18922), (382, 18979), (384, 18991), (396, 19054), (402, 19087), (411, 19174), (419, 19222), (421, 19246), (425, 19273), (427, 19282), (429, 19321), (434, 19360), (438, 19384), (441, 19405), (450, 19501), (452, 19522), (460, 19585), (464, 19612), (467, 19621),

Gene: Youngblood_26 Start: 22452, Stop: 24848, Start Num: 45

Candidate Starts for Youngblood_26:

(Start: 45 @22452 has 134 MA's), (92, 22629), (96, 22650), (139, 22797), (163, 22938), (167, 22971), (171, 23004), (176, 23040), (196, 23133), (208, 23193), (213, 23211), (238, 23343), (245, 23388), (265, 23520), (272, 23565), (287, 23625), (307, 23739), (310, 23760), (318, 23799), (321, 23820), (325, 23835), (351, 23991), (352, 24009), (362, 24063), (376, 24147), (390, 24240), (427, 24486), (450, 24702), (457, 24786), (464, 24819),

Gene: Zapner_25 Start: 17617, Stop: 20169, Start Num: 13

Candidate Starts for Zapner_25:

(11, 17608), (Start: 13 @17617 has 7 MA's), (Start: 21 @17677 has 242 MA's), (31, 17713), (59, 17812), (94, 17953), (106, 17992), (112, 18007), (121, 18043), (123, 18049), (124, 18052), (131, 18070), (137, 18094), (141, 18118), (142, 18121), (165, 18265), (168, 18274), (171, 18298), (174, 18322), (181, 18346), (182, 18352), (187, 18373), (188, 18376), (191, 18394), (196, 18427), (203, 18457), (206, 18478), (225, 18571), (227, 18586), (229, 18595), (234, 18616), (235, 18619), (242, 18661), (250, 18703), (251, 18706), (252, 18715), (253, 18742), (255, 18751), (259, 18790), (263, 18811), (265, 18814), (271, 18850), (275, 18871), (290, 18949), (291, 18952), (304, 19006), (313, 19066), (328, 19153), (330, 19159), (332, 19180), (339, 19216), (348, 19270), (349, 19279), (359, 19357), (363, 19375), (369, 19411), (370, 19414), (374, 19432), (376, 19450), (382, 19507), (384, 19519), (396, 19582), (402, 19615), (411, 19702), (419, 19750), (421, 19774), (427, 19810), (429, 19849), (434, 19888), (438, 19912), (441, 19933), (450, 20029), (452, 20050), (458, 20110), (460, 20113), (464, 20140),

Gene: Zerg_18 Start: 17367, Stop: 19904, Start Num: 21

Candidate Starts for Zerg_18:

(Start: 21 @17367 has 242 MA's), (47, 17457), (64, 17517), (65, 17526), (66, 17529), (73, 17547), (83, 17595), (117, 17748), (121, 17757), (135, 17802), (148, 17901), (149, 17904), (Start: 161 @17970 has 1 MA's), (171, 18045), (172, 18051), (174, 18069), (181, 18093), (182, 18099), (183, 18102), (189, 18135), (191, 18141), (196, 18171), (202, 18192), (206, 18222), (208, 18231), (212, 18246), (213, 18249), (234, 18360), (235, 18363), (236, 18372), (237, 18378), (240, 18393), (241, 18396), (243, 18417), (250, 18447), (252, 18459), (254, 18492), (272, 18603), (273, 18606), (279, 18633), (282, 18639), (290, 18693), (291, 18696), (308, 18783), (310, 18798), (313, 18810), (314, 18813), (327, 18879), (330, 18903), (332, 18924), (334, 18933), (344, 18993), (345, 18996), (351, 19032), (352, 19050), (355, 19062), (356, 19071), (360, 19098), (372, 19155), (374, 19167), (376, 19185), (378, 19194), (379, 19206), (382, 19242), (386, 19272), (390, 19281), (391, 19293), (402, 19353), (408, 19407), (416, 19467), (422, 19509), (438, 19644), (442, 19668), (447, 19722), (450, 19770), (454, 19812), (456, 19836), (457, 19839),

Gene: Zizzle_18 Start: 17375, Stop: 19900, Start Num: 21

Candidate Starts for Zizzle_18:

(Start: 21 @17375 has 242 MA's), (42, 17456), (64, 17525), (65, 17534), (66, 17537), (73, 17555), (83, 17603), (93, 17648), (120, 17762), (121, 17765), (132, 17798), (135, 17810), (145, 17888), (155, 17954), (163, 17987), (169, 18041), (171, 18053), (182, 18107), (183, 18110), (186, 18119), (192, 18152), (200, 18191), (202, 18194), (204, 18209), (205, 18212), (209, 18239), (210, 18245), (212, 18248), (213, 18251), (217, 18278), (220, 18296), (221, 18299), (236, 18374), (240, 18395), (241, 18398), (244, 18425), (250, 18449), (254, 18494), (255, 18497), (262, 18548), (273, 18611), (275, 18620), (280, 18644), (302, 18749), (303, 18752), (310, 18803), (311, 18809), (313, 18815), (314, 18818), (321, 18863), (325, 18878), (329, 18905), (332, 18929), (341, 18980), (344, 18998), (345, 19001), (346, 19013), (355, 19067), (376, 19190), (383, 19253), (394, 19316), (404, 19391), (432, 19592), (453, 19802), (459, 19841), (460, 19844),

Gene: xkcd_27 Start: 22453, Stop: 24849, Start Num: 45

Candidate Starts for xkcd_27:

(Start: 45 @22453 has 134 MA's), (92, 22630), (96, 22651), (139, 22798), (163, 22939), (167, 22972), (171, 23005), (176, 23041), (196, 23134), (208, 23194), (213, 23212), (238, 23344), (245, 23389), (265, 23521), (272, 23566), (307, 23740), (310, 23761), (318, 23800), (321, 23821), (325, 23836), (351, 23992), (352, 24010), (362, 24064), (376, 24148), (390, 24241), (427, 24487), (450, 24703), (457, 24787), (464, 24820),