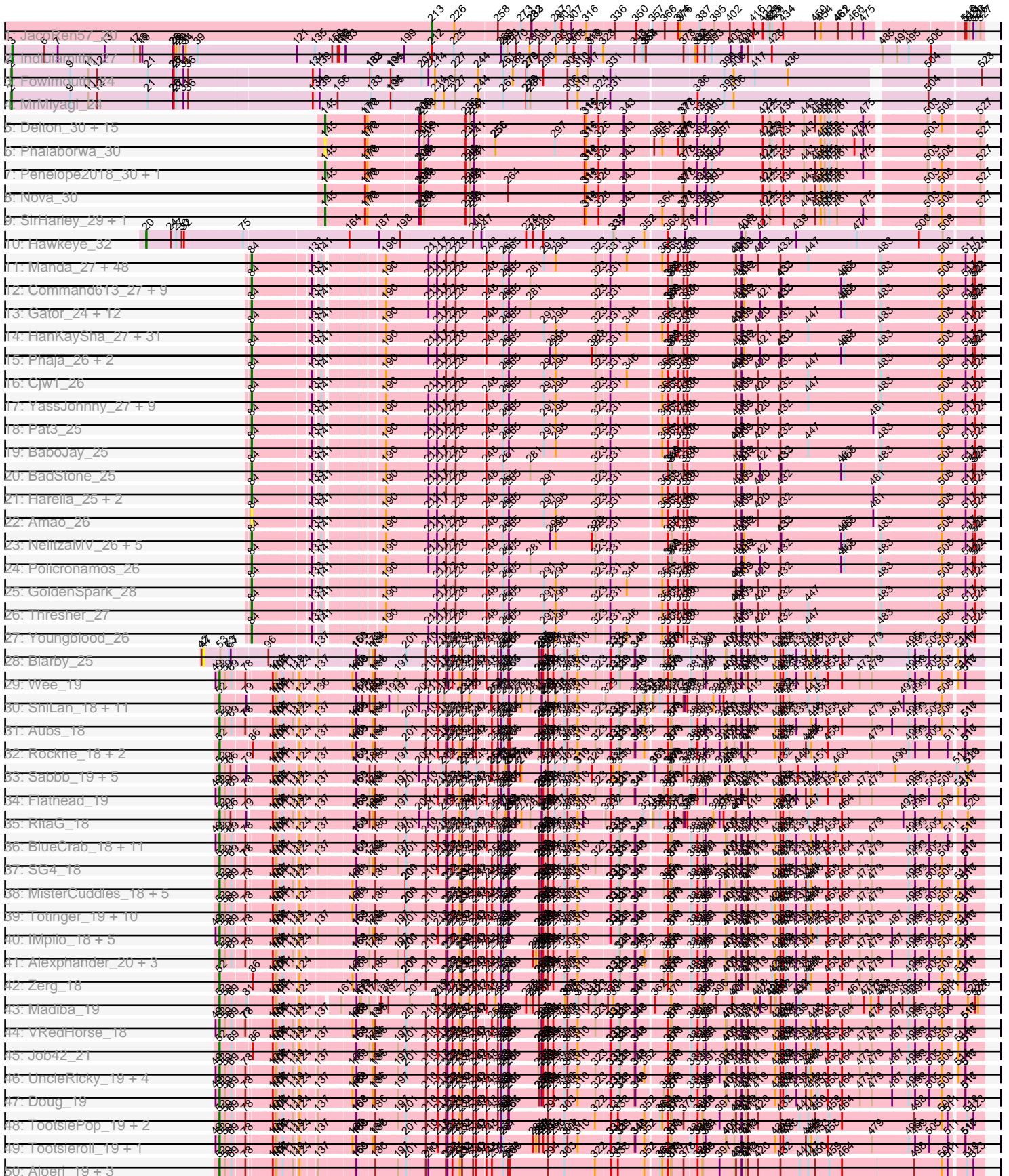
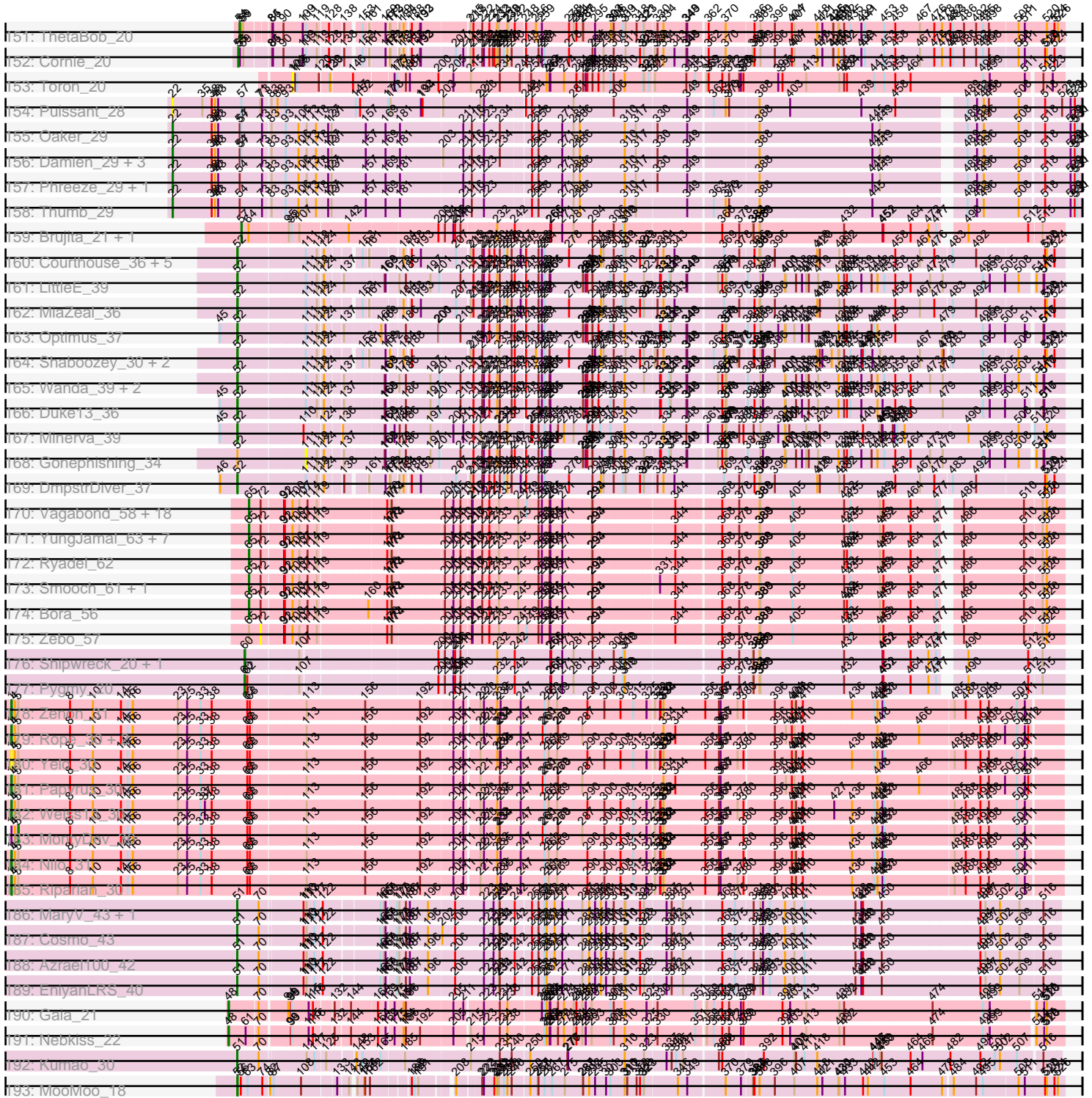


Pham 215686



Pham 215686



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 215686 Report

This analysis was run 02/22/25 on database version 588.

Pham number 215686 has 489 members, 47 are drafts.

Phages represented in each track:

- Track 1 : JacoRen57_20
- Track 2 : Indlulamithi_27
- Track 3 : Fowlmouth_24
- Track 4 : MrMiyagi_24
- 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 : Penelope2018_30, Helpful_31
- Track 8 : Nova_30
- Track 9 : SirHarley_29, Gumball_29
- Track 10 : Hawkeye_32
- Track 11 : Manda_27, Terminus_26, Goldilocks_27, Murphy_27, Willez_25, Holt_27, Thimble_26, Porky_26, Teaspoon_27, Buck_25, Miniwave_26, PhatBacter_26, Cookies_26, Pharsalus_27, Inca_25, Gemini_29, Tarkin_28, Palpatine_26, HufflyPuff_25, Petra64142_28, FireRed_26, Phaux_25, StellaBean_26, TBrady12_28, AmericanBeauty_28, MPhalcon_25, Misfit_26, Paperbeatsrock_28, Murica_25, Nala_26, Argent26_28, MISSy_25, Nimrod_26, Highbury_27, Becksu_26, SophKB_26, GooberAzure_28, StormChicken_26, Gage_28, BugsBunny_24, Saints25_27, Kimchi_28, ShereKhan_28, Stank_29, Quallification_27, Easy2Say_28, Filch_27, Kanye_28, Sassay_25
- Track 12 : Command613_27, Marshmallow_26, Icee_25, Bask21_26, Sotrice96_26, Kostya_26, CrystalP_26, BilboSwaggins_26, Cactus_27, SirDuracell_25
- Track 13 : 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 14 : HanKaySha_27, Phrux_26, Xandras_28, Wiggin_29, Adnama_29, Lilizi_28, Stark_27, Emmina_27, Czyszczonek1_27, RiverMonster_26, Elite2014_25, Bench_28, ChosenOne_25, DoctorDiddles_26, DrDrey_27, Simpliphy_27, Lilpickle_25, 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 15 : Phaja_26, IHOP_26, FairyPath_26
- Track 16 : Cjw1_26
- Track 17 : YassJohnny_27, Contagion_25, Mosby_25, Tomaszewski_25, BigBubba_27, Bruin_26, ChotaBhai_26, xkcd_27, Rimmer_25, FoghornLeghorn_25
- Track 18 : Pat3_25

- Track 19 : BaboJay_25
- Track 20 : BadStone_25
- Track 21 : Harella_25, Flypotenuse_24, Glexan_24
- Track 22 : Amao_26
- Track 23 : NelitzaMV_26, Henry_26, ShamWow_26, Daikon_24, Toto_26, Mindy_26
- Track 24 : Policronamos_26
- Track 25 : GoldenSpark_28
- Track 26 : Thresher_27
- Track 27 : Youngblood_26
- Track 28 : Blarby_25
- Track 29 : Wee_19
- Track 30 : 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 31 : Aubs_18
- Track 32 : Rockne_18, Llij_18, PMC_18
- Track 33 : Sabbb_19, Mattes_18, BobaPhett_18, Gorge_18, James_18, LilMoolah_18
- Track 34 : Flathead_19
- Track 35 : RitaG_18
- Track 36 : 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 37 : SG4_18
- Track 38 : MisterCuddles_18, GUmbie_18, Girr_18, Veteran_18, Phasih_19, Ruby_18
- Track 39 : Totinger_19, LittleShirley_19, Slim_20, GigiOuiOui_18, Starcevich_19, Vivum_18, Tchotchke_19, Rialto_20, Emmaloid_20, EmiMonkey_18, PhlipPhlop_18
- Track 40 : IMpilo_18, Firehouse51_19, Minnie_19, Leozinho_19, MilleniumForce_19, Whatsapiecost_18
- Track 41 : Alexphander_20, ArcusAngelus_18, DaWorst_20, Chevrolet_18
- Track 42 : Zerg_18
- Track 43 : Madiba_19
- Track 44 : VRedHorse_18
- Track 45 : Job42_21
- Track 46 : UncleRicky_19, Phatniss_19, Drago_19, Enby_19, Lorde_19
- Track 47 : Doug_19
- Track 48 : TootsiePop_19, Awesomesauce_19, Misha28_19
- Track 49 : Tootsieroll_19, Radiance_18
- Track 50 : Aloeri_19, ChickenDinner_19, DocMcStuffins_19, Piper2020_19
- Track 51 : OfUltron_18, Jinglebell_17, Llama_18, Modragons_18, AlpineSix_18, Seabastian_18, Ochi17_18
- Track 52 : Spikelee_19, RedBird_18, BuzzLyseyear_20, WillSterrel_19, RockyHorror_19, IrishSherpFalk_19, Mantra_18
- Track 53 : OwlsT2W_20, Hades_18, DosHalletts_19
- Track 54 : Brushbloom_20
- Track 55 : Phanphagia_18, Brookers_19, Coco12_20, Kingsley_19
- Track 56 : Shauna1_18
- Track 57 : StAnnes_18
- Track 58 : Karhdo_18
- Track 59 : Strokeseat_18, Hlubikazi_18, Mandlovu_18
- Track 60 : Dante_18
- Track 61 : Kersh_19

- Track 62 : Mova_19
- Track 63 : Moonbeam_19, Kimberlium_20, Juice456_20, QuickMath_19, MulchExplorer_21
- Track 64 : Mozy_19
- Track 65 : SuperGrey_19
- Track 66 : DotProduct_18
- Track 67 : NewHope4_19, Polo2Bam_20
- Track 68 : MinionDave_19, CaptainTrips_19
- Track 69 : Ibhubesi_18, Harley_18
- Track 70 : Nitzel_19
- Track 71 : Taj_18, DeadP_18
- Track 72 : Nivrat_18, Lizziana_18
- Track 73 : Boomer_19
- Track 74 : ByChance_18
- Track 75 : PhesterPhotato_18
- Track 76 : Chuckly_18
- Track 77 : Ramsey_19
- Track 78 : EleanorGeorge_18, JalFarm20_20, KristaRAM_19, Batiatus_18, KingJulian_18, Corium_18, Fruitloop_18
- Track 79 : Nimbo_18, Blexus_18, Geralt_18, Inventum_18, Deb65_18, Sassafras_18
- Track 80 : XFactor_18, Galactic_18, Filuzino_18
- Track 81 : Che8_18
- Track 82 : Fancypants_18
- Track 83 : ShroomBoi_18
- Track 84 : SwagPigglett_18, TDanisky_18, Philus_18, DRBy19_18, Saal_18, Sparkdehlily_18
- Track 85 : Spartacus_19
- Track 86 : SimranZ1_19
- Track 87 : Whouxphf_18
- Track 88 : DLane_18
- Track 89 : Donkeykong_18
- Track 90 : LunaBlu_19
- Track 91 : Bobi_20
- Track 92 : DoRead_18
- Track 93 : Mutaforma13_18
- Track 94 : Pollywog_21, Ogopogo_21
- Track 95 : Royals2015_18
- Track 96 : Bubbles123_19
- Track 97 : Stap_19
- Track 98 : Wachhund_18
- Track 99 : Phalconet_18
- Track 100 : Oksu_19
- Track 101 : Quico_19, Girafales_19, Florinda_18
- Track 102 : Guppsters_19
- Track 103 : Estave1_18
- Track 104 : Mahavrat_18, Juniper1_18
- Track 105 : Jant_18
- Track 106 : Plumbus_19
- Track 107 : Ovechkin_18
- Track 108 : Krakatau_19
- Track 109 : Hegedechwinu_19
- Track 110 : Eish_18

- Track 111 : Hamulus_18
- Track 112 : Empress_19
- Track 113 : Sandalphon_19
- Track 114 : SiSi_18
- Track 115 : Grimmer_19
- Track 116 : Poenanya_18, Doomphist_18
- Track 117 : SassyB_18, PopTart_18
- Track 118 : Seagreen_19
- Track 119 : Cornucopia_19, Marker_19
- Track 120 : Leperchaun_18
- Track 121 : Eradicator_18
- Track 122 : Maravista_18
- Track 123 : Melissauren88_18
- Track 124 : Zizzle_18
- Track 125 : Violac_19
- Track 126 : Beakin_19
- Track 127 : Bipolar_18
- Track 128 : Emma_18, Tweety_18
- Track 129 : MadMen_19
- Track 130 : DillTech15_18
- Track 131 : FreddyB_18
- Track 132 : BodEinwohner17_18
- Track 133 : Byougenkin_18
- Track 134 : Fastidio_18
- Track 135 : DirtMcgirt_19
- Track 136 : Ardmore_18
- Track 137 : Latretium_19
- Track 138 : Frankie_19
- Track 139 : Cheesepuff_21
- Track 140 : Rita_18
- Track 141 : Kenuha5_18
- Track 142 : Zapner_25, Jabbawokkie_26
- Track 143 : Avani_24
- Track 144 : Soul22_24
- Track 145 : Demsculpinboyz_24
- Track 146 : Che9d_24
- Track 147 : SilverChicken_24
- Track 148 : Yoshi_24
- Track 149 : Renaud18_20
- Track 150 : LunaStella_20
- Track 151 : ThetaBob_20
- Track 152 : Cornie_20
- Track 153 : Toron_20
- Track 154 : Puissant_28
- Track 155 : Oaker_29
- Track 156 : Damien_29, Cborch11_30, Beckerton_29, Megatron06_31
- Track 157 : Phreeze_29, Konstantine_34
- Track 158 : Thumb_29
- Track 159 : Brujita_21, Island3_21
- Track 160 : Courthouse_36, Squint_35, Ariel_36, Porcelain_35, Superphikiman_36, Lucky2013_36
- Track 161 : LittleE_39
- Track 162 : MiaZeal_36

- Track 163 : Optimus_37
- Track 164 : Shaboozey_30, Hannaconda_33, KashFlow_30
- Track 165 : Wanda_39, BAKA_36, Omega_38
- Track 166 : Duke13_36
- Track 167 : Minerva_39
- Track 168 : Gonephishing_34
- Track 169 : DmpstrDiver_37
- Track 170 : Vagabond_58, Krili_57, SchoolBus_58, Idergollasper_58, Mori_58, Wogge42_57, KingPhillip3_57, Alkhayr_56, NiebruSaylor_57, Schuy_59, Familton_59, Winget_59, MadKillah_59, TelAviv_55, Catdawg_58, Blessica_59, JangDynasty_58, FoulBall_58, Vorrps_58
- Track 171 : YungJamal_63, Wildflower_58, Corndog_61, Shida_58, Dylan_58, Murai_59, Ashwin_60, Zakhe101_58
- Track 172 : Ryadel_62
- Track 173 : Smooch_61, Firecracker_59
- Track 174 : Bora_56
- Track 175 : Zebo_57
- Track 176 : Shipwreck_20, Bogie_20
- Track 177 : Pygmy_20
- Track 178 : Zenon_31
- Track 179 : Rope_30, Send513_30, Candle_30
- Track 180 : Yelo_30
- Track 181 : Papyrus_30
- Track 182 : Weiss13_30
- Track 183 : MontyDev_30
- Track 184 : Nilo_31
- Track 185 : Riparian_30
- Track 186 : MaryV_43, Wildcat_43
- Track 187 : Cosmo_43
- Track 188 : Azrael100_42
- Track 189 : EniyanLRS_40
- Track 190 : Gaia_21
- Track 191 : Nebkiss_22
- Track 192 : Kumao_30
- Track 193 : 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 52, it was called in 221 of the 442 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, Bipolar_18, Blexus_18, BlueCrab_18, BobaPhett_18, Bobi_20, BodEinwohner17_18, Boomer_19, Brookers_19, Brushbloom_20, Bubbles123_19, Burwell21_18, BuzzLyseyear_20, ByChance_18, Byougenkin_18, Cabrinians_18, CaptainTrips_19, Che8_18, CheesePuff_21, Chevrolet_18, ChickenDinner_19, Chuckly_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, Dorothy_18, DosHalletts_19, DotProduct_18, Doug_19, Drago_19, Duke13_36, Eish_18, EleanorGeorge_18, EmiMonkey_18, Emma_18, Emmaloid_20, Empress_19, Enby_19, 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, Gandalph_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, Lucky2013_36, LunaBlu_19, MadMen_19, Madiba_19, Mahavrat_18, Mandlovu_18, Mantra_18, Maravista_18, Marker_19, Martik_18, Mattes_18, MiaZeal_36, MilleniumForce_19, Minerva_39, MinionDave_19, Minnie_19, Misha28_19, MisterCuddles_18, Modragons_18, MooMoo_18, Moonbeam_19, Mova_19, Mozy_19, MulchExplorer_21, Mutaforma13_18, NewHope4_19, 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, 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, Seabastian_18, Seagreen_19, Shaboozey_30, Shauna1_18, ShiLan_18, ShowerHandel_18, ShroomBoi_18, SiSi_18, SimranZ1_19, Slim_20, Sparkdehlily_18, Spartacus_19, Spikelee_19, Spoonbill_18, Squint_35, StAnnes_18, Stap_19, Starcevich_19, Strokeseat_18, SuperGrey_19, Superphikiman_36, SwagPiggett_18, TDanisky_18, Taj_18, Tchochke_19, TootsiePop_19, Tootsieroll_19, 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, Alkhayr_56, Amao_26, AmericanBeauty_28, Argent26_28, Ashwin_60, 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, Blessica_59, Bogie_20, Bora_56, Bruin_26, Brujita_21, Buck_25, BugsBunny_24, Butterscotch_30, Cactus_27, Candle_30, Catdawg_58, Cborch11_30, Chill_31, ChosenOne_25, ChotaBhai_26, Cjw1_26, Command613_27, Contagion_25, Cookies_26, Corndog_61, Cornie_20, Cosmo_43, CrystalP_26, Czyszczonek1_27, Daikon_24, Damien_29, Delton_30, DoctorDiddles_26, DrDrey_27, Dumbo_26, Dusk_25, Dylan_58, Easy2Say_28, Elite2014_25, Elph10_27, Emmina_27, EniyanLRS_40, Erk16_30, Eureka_26, FairyPath_26, Familton_59, Filch_27,

FireRed_26, Firecracker_59, Flypotenuse_24, FoghornLeghorn_25, FoulBall_58, Fowlmouth_24, Gage_28, Gaia_21, Gator_24, Gemini_29, Giuseppe_30, Glexan_24, Goku_26, GoldenSpark_28, Goldilocks_27, GooberAzure_28, 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, Idergollasper_58, Inca_25, Indlulamithi_27, Island3_21, JacoRen57_20, JangDynasty_58, JeTaime_28, KandZ_30, Kanye_28, Kimchi_28, KingPhillip3_57, Konstantine_34, Kostya_26, Kriili_57, Kumao_30, Lilac_28, Lilizi_28, Lilpickle_25, LunaStella_20, MISSy_25, MPhalcon_25, MadKillah_59, MadamMonkfish_26, Manda_27, Marshmallow_26, MaryV_43, Maxxinista_27, Megatron06_31, Mindy_26, Miniwave_26, Misfit_26, Moldemort_27, MontyDev_30, Mopey_30, Mori_58, Mosby_25, MrMiyagi_24, Murai_59, Murica_25, Murphy_27, Myrale_26, Nala_26, Nebkiss_22, NelitzaMV_26, NiebruSaylor_57, Nilo_31, Nimrod_26, NoSleep_27, Nova_30, Oaker_29, OrionPax_27, PBI1_30, PLOT_31, Palpatine_26, Paperbeatsrock_28, Papyrus_30, 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, Puissant_28, Pumpkin_28, Pygmy_20, Quallification_27, Rakim_27, Renaud18_20, Rimmer_25, Riparian_30, RiverMonster_26, Rope_30, Ryadel_62, Saints25_27, Sassay_25, SchoolBus_58, Schuy_59, Send513_30, ShamWow_26, ShereKhan_28, Shida_58, Shipwreck_20, SilverChicken_24, Simpliphy_27, SirDuracell_25, SirHarley_29, Smooch_61, SophKB_26, Sotrice96_26, Stank_29, Stark_27, StellaBean_26, StolenFromERC_28, StormChicken_26, TBrady12_28, Tarkin_28, TeardropMSU_25, Teaspoon_27, TelAviv_55, 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, Vagabond_58, Visconti_30, Vorrps_58, WaldoWhy_31, Weiss13_30, Wiggjin_29, Wildcat_43, Wildflower_58, Willez_25, Winget_59, Wogge42_57, Xandras_28, YassJohnny_27, Yelo_30, Youngblood_26, YungJamal_63, Zakhe101_58, Zebo_57, Zenon_31, xkcd_27,

Summary by start number:

Start 1:

- Found in 10 of 489 (2.0%) of genes in pham
- Manual Annotations of this start: 8 of 442
- Called 90.0% of time when present
- Phage (with cluster) where this start called: Candle_30 (R), Nilo_31 (R), Papyrus_30 (R), Riparian_30 (R), Rope_30 (R), Send513_30 (R), Weiss13_30 (R), Yelo_30 (R), Zenon_31 (R),

Start 2:

- Found in 2 of 489 (0.4%) of genes in pham
- Manual Annotations of this start: 2 of 442
- Called 100.0% of time when present
- Phage (with cluster) where this start called: Fowlmouth_24 (AC), MrMiyagi_24 (AC),

Start 3:

- Found in 1 of 489 (0.2%) of genes in pham
- Manual Annotations of this start: 1 of 442
- Called 100.0% of time when present
- Phage (with cluster) where this start called: Indlulamithi_27 (AC),

Start 5:

- Found in 10 of 489 (2.0%) of genes in pham
- Manual Annotations of this start: 1 of 442
- Called 10.0% of time when present
- Phage (with cluster) where this start called: MontyDev_30 (R),

Start 20:

- Found in 1 of 489 (0.2%) of genes in pham
- Manual Annotations of this start: 1 of 442
- Called 100.0% of time when present
- Phage (with cluster) where this start called: Hawkeye_32 (D2),

Start 22:

- Found in 9 of 489 (1.8%) of genes in pham
- Manual Annotations of this start: 8 of 442
- Called 100.0% of time when present
- Phage (with cluster) where this start called: Beckerton_29 (H1), Cborch11_30 (H1), Damien_29 (H1), Konstantine_34 (H1), Megatron06_31 (H1), Oaker_29 (H1), Phreeze_29 (H1), Puissant_28 (H1), Thumb_29 (H1),

Start 44:

- Found in 7 of 489 (1.4%) of genes in pham
- Manual Annotations of this start: 7 of 442
- 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 47:

- Found in 1 of 489 (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 48:

- Found in 2 of 489 (0.4%) of genes in pham
- Manual Annotations of this start: 2 of 442
- Called 100.0% of time when present
- Phage (with cluster) where this start called: Gaia_21 (X), Nebkiss_22 (X),

Start 51:

- Found in 6 of 489 (1.2%) of genes in pham
- Manual Annotations of this start: 6 of 442
- 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 52:

- Found in 256 of 489 (52.4%) of genes in pham
- Manual Annotations of this start: 221 of 442
- Called 96.5% of time when present
- Phage (with cluster) where this start called: Alexphander_20 (F1), Aloeri_19 (F1), AlpineSix_18 (F1), ArcusAngelus_18 (F1), Ardmore_18 (F1), Ariel_36 (J), Aubs_18 (F1), Awesomesauce_19 (F1), BAKA_36 (J), Batiatus_18 (F1), Beakin_19 (F1),

Bipolar_18 (F1), Blexus_18 (F1), BlueCrab_18 (F1), BobaPhett_18 (F1), Bobi_20 (F1), BodEinwohner17_18 (F1), Boomer_19 (F1), Brookers_19 (F1), Brushbloom_20 (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_21 (F1), Chevrolet_18 (F1), ChickenDinner_19 (F1), Chuckly_18 (F1), 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), 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_20 (F1), Empress_19 (F1), Enby_19 (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), GUmbe_18 (F1), Galactic_18 (F1), Gandolph_18 (F1), Geralt_18 (F1), GigiOuiOui_18 (F1), Girafales_19 (F1), Girr_18 (F1), Gorge_18 (F1), Grimmer_19 (F1), Guppsters_19 (F1), Hades_18 (F1), Hamulus_18 (F1), Hannaconda_33 (J), Harley_18 (F1), Hegedechwinu_19 (F1), Hlubikazi_18 (F1), IMpilo_18 (F1), IbOuu_18 (F1), Ibhubes_18 (F1), Inventum_18 (F1), IrishSherpFalk_19 (F1), JalFarm20_20 (F1), James_18 (F1), Jant_18 (F1), Jarcob_18 (F1), Jinglebell_17 (F1), Job42_21 (F1), JoeyJr_18 (F1), Juice456_20 (F1), Juniper1_18 (F1), Karhdo_18 (F1), KashFlow_30 (J), Kenuha5_18 (F1), Kersh_19 (F1), Kimberlium_20 (F1), KingJulian_18 (F1), KingMidas_19 (F1), Kingsley_19 (F1), Krakatau_19 (F1), KristaRAM_19 (F1), Latretium_19 (F1), Leozinho_19 (F1), Leperchaun_18 (F1), LilMoolah_18 (F1), LittleE_39 (J), LittleShirley_19 (F1), Lizziana_18 (F1), Llama_18 (F1), Llij_18 (F1), Lorde_19 (F1), 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), MiaZeal_36 (J), MilleniumForce_19 (F1), Minerva_39 (J), MinionDave_19 (F1), Minnie_19 (F1), Misha28_19 (F1), MisterCuddles_18 (F1), Modragons_18 (F1), MooMoo_18 (singleton), Moonbeam_19 (F1), Mova_19 (F1), Mozy_19 (F1), MulchExplorer_21 (F1), Mutaforma13_18 (F1), NewHope4_19 (F1), Nimbo_18 (F1), Nitzel_19 (F1), Nivrat_18 (F1), NormanBulbieJr_18 (F1), Ochi17_18 (F1), OfUltron_18 (F1), OgoPogo_21 (F1), Oksu_19 (F1), OldBen_18 (F1), OlympiaSaint_18 (F1), Omega_38 (J), Optimus_37 (J), Ovechkin_18 (F1), OwlsT2W_20 (F1), PHappiness_18 (F1), PMC_18 (F1), Pacc40_18 (F1), Phalconet_18 (F1), Phanphagia_18 (F1), Phasih_19 (F1), Phatniss_19 (F1), PhesterPhotato_18 (F1), Philus_18 (F1), PhlipPhlop_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), 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_20 (F1), Sparkdehlily_18 (F1), Spartacus_19 (F1), Spikelee_19 (F1), Spoonbill_18 (F1), Squint_35 (J), StAnnes_18 (F1), Stap_19 (F1), Starcevich_19 (F1), Strokeseat_18 (F1), SuperGrey_19 (F1), Superphikiman_36 (J), SwagPiggett_18 (F1), TDanisky_18 (F1), Taj_18 (F1), Tchotchke_19 (F1), TootsiePop_19 (F1), Tootsieroll_19 (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 53:

- Found in 2 of 489 (0.4%) of genes in pham
- Manual Annotations of this start: 1 of 442
- Called 50.0% of time when present
- Phage (with cluster) where this start called: Cornie_20 (F5),

Start 54:

- Found in 11 of 489 (2.2%) of genes in pham
- Manual Annotations of this start: 3 of 442
- Called 27.3% of time when present
- Phage (with cluster) where this start called: LunaStella_20 (F4), Renaud18_20 (F4), ThetaBob_20 (F4),

Start 57:

- Found in 8 of 489 (1.6%) of genes in pham
- Manual Annotations of this start: 2 of 442
- Called 25.0% of time when present
- Phage (with cluster) where this start called: Brujita_21 (I1), Island3_21 (I1),

Start 60:

- Found in 3 of 489 (0.6%) of genes in pham
- Manual Annotations of this start: 3 of 442
- Called 100.0% of time when present
- Phage (with cluster) where this start called: Bogie_20 (P1), Pygmy_20 (P1), Shipwreck_20 (P1),

Start 65:

- Found in 32 of 489 (6.5%) of genes in pham
- Manual Annotations of this start: 28 of 442
- Called 96.9% of time when present
- Phage (with cluster) where this start called: Alkhayr_56 (O), Ashwin_60 (O), Blessica_59 (O), Bora_56 (O), Catdawg_58 (O), Corndog_61 (O), Dylan_58 (O), Familton_59 (O), Firecracker_59 (O), FoulBall_58 (O), Idergollasper_58 (O), JangDynasty_58 (O), KingPhillip3_57 (O), Krili_57 (O), MadKillah_59 (O), Mori_58 (O), Murai_59 (O), NiebruSaylor_57 (O), Ryadel_62 (O), SchoolBus_58 (O), Schuy_59 (O), Shida_58 (O), Smooch_61 (O), TelAviv_55 (O), Vagabond_58 (O), Vorrrps_58 (O), Wildflower_58 (O), Winget_59 (O), Wogge42_57 (O), YungJamal_63 (O), Zakhe101_58 (O),

Start 69:

- Found in 186 of 489 (38.0%) of genes in pham
- Manual Annotations of this start: 1 of 442
- Called 0.5% of time when present
- Phage (with cluster) where this start called: Melissauren88_18 (F1),

Start 72:

- Found in 32 of 489 (6.5%) of genes in pham
- No Manual Annotations of this start.
- Called 3.1% of time when present
- Phage (with cluster) where this start called: Zebo_57 (O),

Start 80:

- Found in 1 of 489 (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 84:

- Found in 138 of 489 (28.2%) of genes in pham
- Manual Annotations of this start: 125 of 442
- Called 97.8% 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), Bruin_26 (E), Buck_25 (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), HanKaySha_27 (E), Harella_25 (E), Henry_26 (E), Highbury_27 (E), Holt_27 (E), Hoonter_28 (E), Hopey_28 (E), HufflyPuff_25 (E), IHOP_26 (E), Icee_25 (E), Inca_25 (E), JeTaimie_28 (E), Kanye_28 (E), Kimchi_28 (E), Kostya_26 (E), Lilac_28 (E), Lilizi_28 (E), Lilpickle_25 (E), MISSy_25 (E), MPhalcon_25 (E), MadamMonkfish_26 (E), Manda_27 (E), Marshmallow_26 (E), Maxxinista_27 (E), Mindy_26 (E), Miniwave_26 (E), Misfit_26 (E), Moldemort_27 (E), Mosby_25 (E), Murica_25 (E), Murphy_27 (E), Myrale_26 (E), Nala_26 (E), NelitzaMV_26 (E), Nimrod_26 (E), NoSleep_27 (E), OrionPax_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), 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), TeardropMSU_25 (E), Teaspoon_27 (E), Terminus_26 (E), Thimble_26 (E), Thresher_27 (E), Tomaszewski_25 (E), Toto_26 (E), Traaww1_24 (E), Tuco_27 (E), Ukulele_26 (E), Wiggin_29 (E), Willez_25 (E), Xandras_28 (E), YassJohnny_27 (E), Youngblood_26 (E), xkcd_27 (E),

Start 101:

- Found in 1 of 489 (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 111:

- Found in 253 of 489 (51.7%) 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 145:

- Found in 22 of 489 (4.5%) of genes in pham
- Manual Annotations of this start: 21 of 442
- 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), Thoth_30 (D1), Troll4_30 (D1), Visconti_30 (D1), WaldoWhy_31 (D1),

Start 213:

- Found in 1 of 489 (0.2%) of genes in pham
- Manual Annotations of this start: 1 of 442
- Called 100.0% of time when present
- Phage (with cluster) where this start called: JacoRen57_20 (AB),

Summary by clusters:

There are 20 clusters represented in this pham: F1, F2, P1, E, F5, F6, F, I1, F4, J, H1, AC, O, R, V, X, singleton, D2, AB, D1,

Info for manual annotations of cluster AB:

- Start number 213 was manually annotated 1 time for cluster AB.

Info for manual annotations of cluster AC:

- Start number 2 was manually annotated 2 times for cluster AC.
- Start number 3 was manually annotated 1 time for cluster AC.

Info for manual annotations of cluster D1:

- Start number 145 was manually annotated 21 times for cluster D1.

Info for manual annotations of cluster D2:

- Start number 20 was manually annotated 1 time for cluster D2.

Info for manual annotations of cluster E:

- Start number 84 was manually annotated 125 times for cluster E.

Info for manual annotations of cluster F1:

- Start number 52 was manually annotated 203 times for cluster F1.
- Start number 69 was manually annotated 1 time for cluster F1.

Info for manual annotations of cluster F2:

- Start number 44 was manually annotated 7 times for cluster F2.

Info for manual annotations of cluster F4:

- Start number 54 was manually annotated 3 times for cluster F4.

Info for manual annotations of cluster F5:

- Start number 53 was manually annotated 1 time for cluster F5.

Info for manual annotations of cluster H1:

- Start number 22 was manually annotated 8 times for cluster H1.

Info for manual annotations of cluster I1:

- Start number 57 was manually annotated 2 times for cluster I1.

Info for manual annotations of cluster J:

- Start number 52 was manually annotated 17 times for cluster J.

Info for manual annotations of cluster O:

- Start number 65 was manually annotated 28 times for cluster O.

Info for manual annotations of cluster P1:

- Start number 60 was manually annotated 3 times for cluster P1.

Info for manual annotations of cluster R:

- Start number 1 was manually annotated 8 times for cluster R.
- Start number 5 was manually annotated 1 time for cluster R.

Info for manual annotations of cluster V:

- Start number 51 was manually annotated 5 times for cluster V.

Info for manual annotations of cluster X:

- Start number 48 was manually annotated 2 times for cluster X.

Gene Information:

Gene: 244_28 Start: 22564, Stop: 24960, Start Num: 84

Candidate Starts for 244_28:

(Start: 84 @22564 has 125 MA's), (133, 22741), (141, 22762), (190, 22909), (217, 23083), (222, 23116), (228, 23152), (248, 23245), (261, 23305), (265, 23323), (291, 23455), (298, 23500), (323, 23632), (331, 23677), (346, 23737), (364, 23851), (368, 23872), (374, 23911), (378, 23932), (380, 23947), (407, 24097), (408, 24103), (409, 24121), (420, 24175), (432, 24259), (447, 24352), (483, 24598), (508, 24814), (517, 24898), (524, 24931),

Gene: ABCat_25 Start: 22283, Stop: 24679, Start Num: 84

Candidate Starts for ABCat_25:

(Start: 84 @22283 has 125 MA's), (133, 22460), (141, 22481), (190, 22628), (211, 22769), (217, 22802), (222, 22835), (228, 22871), (248, 22964), (261, 23024), (265, 23042), (281, 23123), (323, 23351), (331, 23396), (368, 23591), (369, 23597), (371, 23606), (378, 23651), (380, 23666), (408, 23822), (409, 23840), (412, 23849), (421, 23903), (432, 23978), (433, 23981), (463, 24191), (465, 24203), (483, 24317), (508, 24533), (517, 24617), (522, 24641), (524, 24650),

Gene: Adjutor_31 Start: 24256, Stop: 26526, Start Num: 145

Candidate Starts for Adjutor_31:

(Start: 145 @24256 has 21 MA's), (176, 24391), (178, 24400), (205, 24574), (206, 24580), (209, 24592), (236, 24745), (239, 24760), (241, 24775), (314, 25156), (316, 25162), (326, 25207), (343, 25294), (377, 25495), (378, 25501), (385, 25549), (391, 25579), (393, 25603), (422, 25792), (425, 25819), (434, 25867), (443, 25939), (450, 25978), (454, 25999), (455, 26014), (459, 26032), (461, 26062), (475, 26146), (503, 26347), (508, 26389), (527, 26515),

Gene: Adnama_29 Start: 22791, Stop: 25187, Start Num: 84

Candidate Starts for Adnama_29:

(Start: 84 @22791 has 125 MA's), (133, 22968), (141, 22989), (190, 23136), (217, 23310), (222, 23343), (228, 23379), (248, 23472), (261, 23532), (265, 23550), (291, 23682), (298, 23727), (323, 23859), (331, 23904), (346, 23964), (364, 24078), (368, 24099), (374, 24138), (378, 24159), (380, 24174), (407, 24324), (408, 24330), (409, 24348), (420, 24402), (432, 24486), (447, 24579), (483, 24825), (508, 25041), (517, 25125), (524, 25158),

Gene: Alexphander_20 Start: 17923, Stop: 20460, Start Num: 52

Candidate Starts for Alexphander_20:

(Start: 52 @17923 has 221 MA's), (59, 17944), (Start: 69 @17965 has 1 MA's), (78, 18004), (104, 18073), (106, 18082), (107, 18085), (111, 18103), (119, 18136), (124, 18151), (168, 18310), (169, 18313), (179, 18343), (186, 18358), (197, 18436), (200, 18457), (201, 18460), (210, 18526), (222, 18601), (223, 18607), (232, 18649), (233, 18655), (234, 18658), (240, 18691), (242, 18697), (248, 18727), (254, 18748), (259, 18778), (261, 18787), (284, 18895), (286, 18907), (287, 18916), (288, 18919), (289, 18928), (290, 18934), (293, 18949), (294, 18952), (296, 18973), (306, 19015), (310, 19048), (339, 19189), (341, 19195), (348, 19249), (349, 19252), (352, 19279), (365, 19339), (368, 19354), (370, 19366), (371, 19369), (381, 19435), (386, 19459), (389, 19480), (391, 19489), (400, 19549), (401, 19552), (408, 19588), (409, 19606), (413, 19618), (414, 19627), (419, 19654), (430, 19723), (432, 19741), (434, 19750), (435, 19762), (439, 19798), (444, 19828), (458, 19909), (464, 19963), (473, 20023), (479, 20065), (487, 20143), (495, 20200), (499, 20224), (505, 20278), (508, 20326), (514, 20368), (516, 20392), (517, 20395),

Gene: Alkhayr_56 Start: 35810, Stop: 38320, Start Num: 65

Candidate Starts for Alkhayr_56:

(Start: 65 @35810 has 28 MA's), (72, 35843), (91, 35912), (92, 35915), (100, 35939), (107, 35963), (114, 35987), (119, 36020), (170, 36227), (173, 36239), (174, 36242), (204, 36389), (205, 36419), (210, 36443), (216, 36473), (217, 36476), (222, 36503), (224, 36527), (233, 36557), (245, 36614), (249, 36638), (258, 36674), (259, 36686), (264, 36710), (265, 36713), (271, 36755), (293, 36851), (294, 36854), (344, 37109), (368, 37253), (378, 37313), (388, 37385), (389, 37388), (405, 37484), (432, 37658), (435, 37679), (449, 37772), (452, 37784), (464, 37874), (477, 37949), (486, 37994), (510, 38195), (515, 38249), (520, 38264),

Gene: Aloeri_19 Start: 17271, Stop: 19796, Start Num: 52

Candidate Starts for Aloeri_19:

(Start: 52 @17271 has 221 MA's), (59, 17292), (Start: 69 @17313 has 1 MA's), (78, 17352), (104, 17421), (106, 17430), (107, 17433), (111, 17451), (119, 17484), (124, 17499), (137, 17547), (168, 17658), (169, 17661), (186, 17706), (197, 17784), (201, 17808), (210, 17874), (211, 17883), (222, 17949), (223, 17955), (224, 17973), (232, 17997), (233, 18003), (234, 18006), (240, 18039), (242, 18045), (248, 18075), (254, 18096), (261, 18135), (264, 18150), (266, 18156), (294, 18300), (303, 18351), (322, 18462), (332, 18513), (338, 18537), (352, 18630), (363, 18675), (364, 18684), (368, 18705), (370, 18717), (371, 18720), (378, 18765), (386, 18810), (388, 18828), (389, 18831), (397, 18882), (407, 18933), (408, 18939), (409, 18957), (413, 18969), (414, 18978), (420, 19011), (432, 19092), (441, 19161), (447, 19188), (450, 19215), (459, 19266), (464, 19314), (498, 19557), (508, 19662), (511, 19683), (519, 19737), (523, 19761),

Gene: AlpineSix_18 Start: 17634, Stop: 20171, Start Num: 52

Candidate Starts for AlpineSix_18:

(Start: 52 @17634 has 221 MA's), (59, 17655), (Start: 69 @17676 has 1 MA's), (78, 17715), (104, 17784), (106, 17793), (107, 17796), (111, 17814), (124, 17862), (168, 18021), (169, 18024), (184, 18066), (186, 18069), (197, 18147), (200, 18168), (201, 18171), (210, 18237), (211, 18246), (218, 18282), (222, 18312), (223, 18318), (232, 18360), (233, 18366), (234, 18369), (240, 18402), (242,

18408), (248, 18438), (254, 18459), (259, 18489), (261, 18498), (284, 18606), (286, 18618), (287, 18627), (288, 18630), (289, 18639), (290, 18645), (293, 18660), (294, 18663), (296, 18684), (306, 18726), (310, 18759), (339, 18900), (341, 18906), (348, 18960), (349, 18963), (352, 18990), (368, 19065), (370, 19077), (371, 19080), (381, 19146), (384, 19167), (386, 19170), (389, 19191), (397, 19242), (400, 19260), (401, 19263), (407, 19293), (409, 19317), (413, 19329), (430, 19434), (432, 19452), (434, 19461), (435, 19473), (439, 19509), (444, 19539), (448, 19560), (453, 19584), (458, 19620), (473, 19734), (479, 19776), (487, 19854), (495, 19911), (499, 19935), (505, 19989), (508, 20037), (514, 20079), (516, 20103), (517, 20106),

Gene: Amao_26 Start: 21488, Stop: 23884, Start Num: 84

Candidate Starts for Amao_26:

(Start: 84 @21488 has 125 MA's), (133, 21665), (141, 21686), (190, 21833), (211, 21974), (217, 22007), (228, 22076), (248, 22169), (261, 22229), (265, 22247), (291, 22379), (298, 22424), (323, 22556), (331, 22601), (364, 22775), (368, 22796), (374, 22835), (378, 22856), (380, 22871), (408, 23027), (409, 23045), (420, 23099), (432, 23183), (481, 23507), (508, 23738), (517, 23822), (524, 23855),

Gene: AmericanBeauty_28 Start: 22271, Stop: 24667, Start Num: 84

Candidate Starts for AmericanBeauty_28:

(Start: 84 @22271 has 125 MA's), (133, 22448), (141, 22469), (190, 22616), (211, 22757), (217, 22790), (222, 22823), (228, 22859), (248, 22952), (261, 23012), (265, 23030), (291, 23162), (298, 23207), (323, 23339), (331, 23384), (346, 23444), (364, 23558), (368, 23579), (374, 23618), (378, 23639), (380, 23654), (407, 23804), (408, 23810), (409, 23828), (420, 23882), (432, 23966), (447, 24059), (483, 24305), (508, 24521), (517, 24605), (524, 24638),

Gene: ArcusAngelus_18 Start: 17438, Stop: 19975, Start Num: 52

Candidate Starts for ArcusAngelus_18:

(Start: 52 @17438 has 221 MA's), (59, 17459), (Start: 69 @17480 has 1 MA's), (78, 17519), (104, 17588), (106, 17597), (107, 17600), (111, 17618), (119, 17651), (124, 17666), (168, 17825), (169, 17828), (179, 17858), (186, 17873), (197, 17951), (200, 17972), (201, 17975), (210, 18041), (222, 18116), (223, 18122), (232, 18164), (233, 18170), (234, 18173), (240, 18206), (242, 18212), (248, 18242), (254, 18263), (259, 18293), (261, 18302), (284, 18410), (286, 18422), (287, 18431), (288, 18434), (289, 18443), (290, 18449), (293, 18464), (294, 18467), (296, 18488), (306, 18530), (310, 18563), (339, 18704), (341, 18710), (348, 18764), (349, 18767), (352, 18794), (365, 18854), (368, 18869), (370, 18881), (371, 18884), (381, 18950), (386, 18974), (389, 18995), (391, 19004), (400, 19064), (401, 19067), (408, 19103), (409, 19121), (413, 19133), (414, 19142), (419, 19169), (430, 19238), (432, 19256), (434, 19265), (435, 19277), (439, 19313), (444, 19343), (458, 19424), (464, 19478), (473, 19538), (479, 19580), (487, 19658), (495, 19715), (499, 19739), (505, 19793), (508, 19841), (514, 19883), (516, 19907), (517, 19910),

Gene: Ardmore_18 Start: 17447, Stop: 19984, Start Num: 52

Candidate Starts for Ardmore_18:

(49, 17435), (Start: 52 @17447 has 221 MA's), (59, 17468), (Start: 69 @17489 has 1 MA's), (78, 17528), (104, 17597), (106, 17606), (107, 17609), (111, 17627), (119, 17660), (124, 17675), (137, 17723), (168, 17834), (169, 17837), (179, 17867), (184, 17879), (186, 17882), (197, 17960), (201, 17984), (210, 18050), (218, 18095), (222, 18125), (223, 18131), (224, 18149), (232, 18173), (234, 18182), (240, 18215), (242, 18221), (248, 18251), (258, 18290), (259, 18302), (261, 18311), (264, 18326), (265, 18329), (287, 18440), (288, 18443), (289, 18452), (290, 18458), (293, 18473), (294, 18476), (296, 18497), (303, 18527), (306, 18539), (310, 18572), (331, 18683), (332, 18686), (339, 18713), (341, 18719), (348, 18773), (349, 18776), (368, 18878), (370, 18890), (371, 18893), (381, 18959), (386, 18983), (389, 19004), (391, 19013), (400, 19073), (401, 19076), (408, 19112), (409, 19130), (413, 19142), (414, 19151), (419, 19178), (430, 19247), (432, 19265), (434, 19274), (435, 19286), (439, 19322), (444, 19352), (448, 19373), (458, 19433), (464, 19487), (473, 19547), (479,

19589), (495, 19724), (499, 19748), (505, 19802), (508, 19850), (514, 19892), (516, 19916), (517, 19919),

Gene: Argent26_28 Start: 22274, Stop: 24670, Start Num: 84

Candidate Starts for Argent26_28:

(Start: 84 @22274 has 125 MA's), (133, 22451), (141, 22472), (190, 22619), (211, 22760), (217, 22793), (222, 22826), (228, 22862), (248, 22955), (261, 23015), (265, 23033), (291, 23165), (298, 23210), (323, 23342), (331, 23387), (346, 23447), (364, 23561), (368, 23582), (374, 23621), (378, 23642), (380, 23657), (407, 23807), (408, 23813), (409, 23831), (420, 23885), (432, 23969), (447, 24062), (483, 24308), (508, 24524), (517, 24608), (524, 24641),

Gene: Ariel_36 Start: 27338, Stop: 29845, Start Num: 52

Candidate Starts for Ariel_36:

(Start: 52 @27338 has 221 MA's), (111, 27533), (119, 27569), (124, 27584), (153, 27671), (161, 27686), (184, 27761), (188, 27773), (193, 27800), (207, 27905), (215, 27944), (218, 27953), (222, 27977), (223, 27983), (224, 28001), (230, 28019), (234, 28034), (237, 28043), (238, 28052), (240, 28067), (247, 28094), (248, 28103), (258, 28142), (259, 28154), (261, 28163), (278, 28247), (294, 28328), (298, 28358), (299, 28361), (306, 28391), (309, 28418), (311, 28427), (320, 28478), (321, 28487), (323, 28490), (330, 28526), (334, 28547), (343, 28583), (369, 28736), (378, 28790), (386, 28835), (388, 28853), (389, 28856), (396, 28895), (418, 29042), (420, 29051), (431, 29120), (432, 29135), (458, 29300), (467, 29387), (476, 29435), (483, 29486), (492, 29564), (518, 29786), (520, 29789), (524, 29816),

Gene: Ashwin_60 Start: 36580, Stop: 39090, Start Num: 65

Candidate Starts for Ashwin_60:

(Start: 65 @36580 has 28 MA's), (72, 36613), (91, 36682), (92, 36685), (100, 36709), (107, 36733), (114, 36757), (119, 36790), (170, 36997), (173, 37009), (174, 37012), (204, 37159), (205, 37189), (210, 37213), (216, 37243), (217, 37246), (222, 37273), (224, 37297), (233, 37327), (245, 37384), (258, 37444), (259, 37456), (264, 37480), (265, 37483), (271, 37525), (293, 37621), (294, 37624), (344, 37879), (368, 38023), (378, 38083), (388, 38155), (389, 38158), (405, 38254), (432, 38428), (435, 38449), (449, 38542), (452, 38554), (464, 38644), (477, 38719), (486, 38764), (510, 38965), (515, 39019), (520, 39034),

Gene: Asriel_25 Start: 21152, Stop: 23548, Start Num: 84

Candidate Starts for Asriel_25:

(Start: 84 @21152 has 125 MA's), (133, 21329), (141, 21350), (190, 21497), (211, 21638), (217, 21671), (222, 21704), (228, 21740), (248, 21833), (261, 21893), (265, 21911), (281, 21992), (323, 22220), (331, 22265), (368, 22460), (369, 22466), (371, 22475), (378, 22520), (380, 22535), (408, 22691), (409, 22709), (412, 22718), (421, 22772), (432, 22847), (433, 22850), (463, 23060), (465, 23072), (483, 23186), (508, 23402), (517, 23486), (522, 23510), (524, 23519),

Gene: Aubs_18 Start: 17557, Stop: 20094, Start Num: 52

Candidate Starts for Aubs_18:

(Start: 52 @17557 has 221 MA's), (59, 17578), (Start: 69 @17599 has 1 MA's), (77, 17635), (78, 17638), (104, 17707), (106, 17716), (107, 17719), (111, 17737), (119, 17770), (124, 17785), (137, 17833), (166, 17938), (168, 17944), (169, 17947), (184, 17989), (186, 17992), (201, 18094), (210, 18160), (218, 18205), (222, 18235), (223, 18241), (224, 18259), (232, 18283), (234, 18292), (240, 18325), (242, 18331), (254, 18382), (258, 18400), (259, 18412), (261, 18421), (264, 18436), (266, 18442), (287, 18550), (288, 18553), (289, 18562), (290, 18568), (293, 18583), (294, 18586), (296, 18607), (303, 18637), (306, 18649), (310, 18682), (323, 18748), (331, 18793), (332, 18796), (339, 18823), (341, 18829), (348, 18883), (349, 18886), (352, 18913), (368, 18988), (370, 19000), (371, 19003), (381, 19069), (386, 19093), (391, 19123), (397, 19165), (400, 19183), (401, 19186), (408, 19222), (409, 19240), (414, 19261), (419, 19288), (430, 19357), (432, 19375), (434, 19384), (435,

19396), (439, 19432), (448, 19483), (451, 19501), (458, 19543), (464, 19597), (479, 19699), (487, 19777), (495, 19834), (499, 19858), (505, 19912), (508, 19960), (516, 20026), (517, 20029),

Gene: Avani_24 Start: 17093, Stop: 19642, Start Num: 44

Candidate Starts for Avani_24:

(41, 17084), (Start: 44 @17093 has 7 MA's), (Start: 52 @17153 has 221 MA's), (63, 17186), (64, 17189), (89, 17258), (97, 17288), (153, 17468), (161, 17483), (169, 17519), (172, 17525), (173, 17528), (179, 17546), (184, 17558), (188, 17570), (192, 17594), (193, 17597), (215, 17741), (218, 17750), (222, 17774), (224, 17798), (232, 17822), (233, 17828), (238, 17849), (239, 17852), (242, 17870), (248, 17900), (256, 17930), (259, 17951), (278, 18044), (281, 18059), (284, 18068), (287, 18089), (288, 18092), (295, 18134), (303, 18176), (304, 18179), (306, 18188), (309, 18215), (311, 18224), (318, 18263), (321, 18284), (323, 18287), (330, 18323), (334, 18344), (348, 18422), (349, 18425), (362, 18479), (370, 18539), (383, 18626), (386, 18632), (389, 18653), (396, 18689), (404, 18743), (407, 18752), (418, 18830), (421, 18848), (425, 18884), (426, 18887), (430, 18905), (431, 18908), (432, 18923), (439, 18980), (441, 18992), (458, 19088), (467, 19175), (476, 19223), (478, 19247), (482, 19274), (483, 19283), (486, 19322), (492, 19361), (495, 19385), (498, 19406), (508, 19502), (511, 19523), (518, 19583), (520, 19586), (524, 19613),

Gene: Awesomesauce_19 Start: 17268, Stop: 19793, Start Num: 52

Candidate Starts for Awesomesauce_19:

(Start: 52 @17268 has 221 MA's), (59, 17289), (Start: 69 @17310 has 1 MA's), (78, 17349), (104, 17418), (106, 17427), (107, 17430), (111, 17448), (119, 17481), (124, 17496), (137, 17544), (168, 17655), (169, 17658), (186, 17703), (197, 17781), (201, 17805), (210, 17871), (218, 17916), (222, 17946), (223, 17952), (224, 17970), (232, 17994), (234, 18003), (240, 18036), (242, 18042), (248, 18072), (258, 18111), (259, 18123), (261, 18132), (264, 18147), (265, 18150), (294, 18297), (303, 18348), (322, 18459), (332, 18510), (338, 18534), (352, 18627), (363, 18672), (364, 18681), (368, 18702), (370, 18714), (371, 18717), (378, 18762), (386, 18807), (388, 18825), (389, 18828), (397, 18879), (407, 18930), (408, 18936), (409, 18954), (413, 18966), (414, 18975), (420, 19008), (432, 19089), (441, 19158), (447, 19185), (450, 19212), (459, 19263), (464, 19311), (498, 19554), (508, 19659), (511, 19680), (519, 19734), (523, 19758),

Gene: Azrael100_42 Start: 28340, Stop: 30907, Start Num: 51

Candidate Starts for Azrael100_42:

(Start: 51 @28340 has 6 MA's), (70, 28409), (110, 28532), (111, 28538), (113, 28541), (117, 28565), (122, 28586), (165, 28742), (167, 28748), (169, 28754), (177, 28784), (179, 28790), (186, 28811), (187, 28820), (196, 28880), (206, 28958), (223, 29057), (229, 29090), (233, 29105), (234, 29108), (242, 29147), (254, 29198), (258, 29216), (261, 29237), (262, 29243), (268, 29270), (271, 29297), (287, 29366), (292, 29390), (295, 29411), (298, 29432), (301, 29441), (306, 29462), (310, 29495), (311, 29498), (320, 29549), (337, 29627), (342, 29645), (347, 29684), (368, 29801), (375, 29846), (384, 29903), (389, 29927), (391, 29936), (393, 29954), (400, 29999), (407, 30032), (411, 30068), (438, 30242), (439, 30260), (440, 30266), (450, 30323), (494, 30647), (497, 30665), (502, 30716), (509, 30779), (516, 30854),

Gene: BAKA_36 Start: 29892, Stop: 32447, Start Num: 52

Candidate Starts for BAKA_36:

(Start: 52 @29892 has 221 MA's), (111, 30087), (119, 30123), (124, 30138), (137, 30186), (168, 30297), (169, 30300), (179, 30330), (186, 30345), (197, 30423), (201, 30447), (210, 30513), (218, 30558), (222, 30588), (223, 30594), (224, 30612), (232, 30636), (234, 30645), (240, 30678), (242, 30684), (248, 30714), (258, 30753), (259, 30765), (261, 30774), (264, 30789), (265, 30792), (287, 30903), (288, 30906), (289, 30915), (290, 30921), (293, 30936), (294, 30939), (296, 30960), (303, 30990), (306, 31002), (310, 31035), (323, 31101), (331, 31146), (332, 31149), (339, 31176), (341, 31182), (348, 31236), (349, 31239), (365, 31326), (368, 31341), (370, 31353), (371, 31356), (381, 31422), (389, 31467), (391, 31476), (400, 31536), (401, 31539), (408, 31575), (409, 31593), (413,

31605), (414, 31614), (419, 31641), (430, 31710), (432, 31728), (434, 31737), (435, 31749), (439, 31785), (444, 31815), (448, 31836), (453, 31860), (458, 31896), (464, 31950), (473, 32010), (479, 32052), (495, 32187), (499, 32211), (505, 32265), (508, 32313), (514, 32355), (516, 32379), (517, 32382),

Gene: BaboJay_25 Start: 21834, Stop: 24230, Start Num: 84

Candidate Starts for BaboJay_25:

(Start: 84 @21834 has 125 MA's), (133, 22011), (141, 22032), (190, 22179), (211, 22320), (217, 22353), (222, 22386), (228, 22422), (248, 22515), (261, 22575), (265, 22593), (291, 22725), (298, 22770), (323, 22902), (331, 22947), (364, 23121), (368, 23142), (374, 23181), (378, 23202), (380, 23217), (407, 23367), (408, 23373), (409, 23391), (420, 23445), (432, 23529), (447, 23622), (483, 23868), (508, 24084), (517, 24168), (524, 24201),

Gene: BadStone_25 Start: 22283, Stop: 24679, Start Num: 84

Candidate Starts for BadStone_25:

(Start: 84 @22283 has 125 MA's), (133, 22460), (141, 22481), (190, 22628), (211, 22769), (217, 22802), (222, 22835), (228, 22871), (248, 22964), (261, 23024), (281, 23123), (323, 23351), (331, 23396), (368, 23591), (369, 23597), (371, 23606), (378, 23651), (380, 23666), (408, 23822), (409, 23840), (412, 23849), (421, 23903), (432, 23978), (433, 23981), (463, 24191), (465, 24203), (483, 24317), (508, 24533), (517, 24617), (522, 24641), (524, 24650),

Gene: Balomoji_25 Start: 22017, Stop: 24413, Start Num: 84

Candidate Starts for Balomoji_25:

(Start: 84 @22017 has 125 MA's), (133, 22194), (141, 22215), (190, 22362), (211, 22503), (217, 22536), (222, 22569), (228, 22605), (248, 22698), (261, 22758), (265, 22776), (281, 22857), (323, 23085), (331, 23130), (368, 23325), (369, 23331), (371, 23340), (378, 23385), (380, 23400), (408, 23556), (409, 23574), (412, 23583), (421, 23637), (432, 23712), (433, 23715), (463, 23925), (465, 23937), (483, 24051), (508, 24267), (517, 24351), (522, 24375), (524, 24384),

Gene: Barbarian_25 Start: 21152, Stop: 23548, Start Num: 84

Candidate Starts for Barbarian_25:

(Start: 84 @21152 has 125 MA's), (133, 21329), (141, 21350), (190, 21497), (211, 21638), (217, 21671), (222, 21704), (228, 21740), (248, 21833), (261, 21893), (265, 21911), (281, 21992), (323, 22220), (331, 22265), (368, 22460), (369, 22466), (371, 22475), (378, 22520), (380, 22535), (408, 22691), (409, 22709), (412, 22718), (421, 22772), (432, 22847), (433, 22850), (463, 23060), (465, 23072), (483, 23186), (508, 23402), (517, 23486), (522, 23510), (524, 23519),

Gene: Bask21_26 Start: 21463, Stop: 23859, Start Num: 84

Candidate Starts for Bask21_26:

(Start: 84 @21463 has 125 MA's), (133, 21640), (141, 21661), (190, 21808), (211, 21949), (217, 21982), (222, 22015), (228, 22051), (248, 22144), (261, 22204), (265, 22222), (281, 22303), (323, 22531), (331, 22576), (368, 22771), (369, 22777), (371, 22786), (378, 22831), (380, 22846), (408, 23002), (409, 23020), (412, 23029), (432, 23158), (433, 23161), (463, 23371), (465, 23383), (483, 23497), (508, 23713), (517, 23797), (522, 23821), (524, 23830),

Gene: Batiatus_18 Start: 17448, Stop: 19985, Start Num: 52

Candidate Starts for Batiatus_18:

(49, 17436), (Start: 52 @17448 has 221 MA's), (59, 17469), (Start: 69 @17490 has 1 MA's), (78, 17529), (104, 17598), (106, 17607), (107, 17610), (111, 17628), (119, 17661), (124, 17676), (137, 17724), (168, 17835), (169, 17838), (179, 17868), (184, 17880), (186, 17883), (197, 17961), (201, 17985), (210, 18051), (218, 18096), (222, 18126), (223, 18132), (224, 18150), (232, 18174), (234, 18183), (240, 18216), (242, 18222), (248, 18252), (258, 18291), (259, 18303), (261, 18312), (264, 18327), (265, 18330), (287, 18441), (288, 18444), (289, 18453), (290, 18459), (293, 18474), (294,

18477), (296, 18498), (303, 18528), (306, 18540), (310, 18573), (331, 18684), (332, 18687), (339, 18714), (341, 18720), (348, 18774), (349, 18777), (365, 18864), (368, 18879), (370, 18891), (371, 18894), (381, 18960), (386, 18984), (389, 19005), (391, 19014), (400, 19074), (401, 19077), (408, 19113), (409, 19131), (413, 19143), (414, 19152), (419, 19179), (430, 19248), (432, 19266), (434, 19275), (435, 19287), (439, 19323), (444, 19353), (448, 19374), (453, 19398), (458, 19434), (464, 19488), (473, 19548), (479, 19590), (487, 19668), (495, 19725), (499, 19749), (505, 19803), (508, 19851), (514, 19893), (516, 19917), (517, 19920),

Gene: Beakin_19 Start: 17255, Stop: 19786, Start Num: 52

Candidate Starts for Beakin_19:

(49, 17243), (Start: 52 @17255 has 221 MA's), (59, 17276), (Start: 69 @17297 has 1 MA's), (78, 17336), (104, 17405), (106, 17414), (107, 17417), (111, 17435), (119, 17468), (124, 17483), (137, 17525), (168, 17636), (169, 17639), (179, 17669), (186, 17684), (197, 17762), (201, 17786), (210, 17852), (218, 17897), (222, 17927), (223, 17933), (224, 17951), (232, 17975), (234, 17984), (240, 18017), (242, 18023), (248, 18053), (258, 18092), (259, 18104), (261, 18113), (264, 18128), (265, 18131), (287, 18242), (288, 18245), (289, 18254), (290, 18260), (293, 18275), (294, 18278), (296, 18299), (303, 18329), (306, 18341), (310, 18374), (323, 18440), (331, 18485), (332, 18488), (339, 18515), (341, 18521), (348, 18575), (349, 18578), (365, 18665), (368, 18680), (370, 18692), (371, 18695), (381, 18761), (386, 18785), (389, 18806), (391, 18815), (400, 18875), (401, 18878), (408, 18914), (409, 18932), (414, 18953), (419, 18980), (430, 19049), (432, 19067), (434, 19076), (435, 19088), (439, 19124), (448, 19175), (451, 19193), (458, 19235), (464, 19289), (479, 19391), (487, 19469), (495, 19526), (499, 19550), (505, 19604), (508, 19652), (516, 19718), (517, 19721),

Gene: Beckerton_29 Start: 26219, Stop: 29062, Start Num: 22

Candidate Starts for Beckerton_29:

(Start: 22 @26219 has 8 MA's), (38, 26351), (40, 26363), (43, 26372), (Start: 54 @26441 has 3 MA's), (Start: 57 @26447 has 2 MA's), (73, 26507), (83, 26528), (93, 26576), (106, 26618), (113, 26642), (118, 26675), (127, 26711), (131, 26723), (157, 26816), (169, 26873), (181, 26912), (203, 27038), (211, 27107), (216, 27137), (223, 27179), (234, 27230), (254, 27320), (258, 27338), (271, 27419), (281, 27458), (286, 27479), (310, 27617), (317, 27656), (330, 27719), (349, 27821), (388, 28046), (445, 28409), (449, 28436), (489, 28679), (493, 28712), (496, 28736), (508, 28856), (518, 28934), (529, 29021), (530, 29036), (531, 29042),

Gene: Becksu_26 Start: 22467, Stop: 24863, Start Num: 84

Candidate Starts for Becksu_26:

(Start: 84 @22467 has 125 MA's), (133, 22644), (141, 22665), (190, 22812), (211, 22953), (217, 22986), (222, 23019), (228, 23055), (248, 23148), (261, 23208), (265, 23226), (291, 23358), (298, 23403), (323, 23535), (331, 23580), (346, 23640), (364, 23754), (368, 23775), (374, 23814), (378, 23835), (380, 23850), (407, 24000), (408, 24006), (409, 24024), (420, 24078), (432, 24162), (447, 24255), (483, 24501), (508, 24717), (517, 24801), (524, 24834),

Gene: Bench_28 Start: 22144, Stop: 24540, Start Num: 84

Candidate Starts for Bench_28:

(Start: 84 @22144 has 125 MA's), (133, 22321), (141, 22342), (190, 22489), (217, 22663), (222, 22696), (228, 22732), (248, 22825), (261, 22885), (265, 22903), (291, 23035), (298, 23080), (323, 23212), (331, 23257), (346, 23317), (364, 23431), (368, 23452), (374, 23491), (378, 23512), (380, 23527), (407, 23677), (408, 23683), (409, 23701), (420, 23755), (432, 23839), (447, 23932), (483, 24178), (508, 24394), (517, 24478), (524, 24511),

Gene: BigBubba_27 Start: 22047, Stop: 24443, Start Num: 84

Candidate Starts for BigBubba_27:

(Start: 84 @22047 has 125 MA's), (133, 22224), (141, 22245), (190, 22392), (211, 22533), (217, 22566), (222, 22599), (228, 22635), (248, 22728), (261, 22788), (265, 22806), (291, 22938), (298,

22983), (323, 23115), (331, 23160), (364, 23334), (368, 23355), (374, 23394), (378, 23415), (380, 23430), (408, 23586), (409, 23604), (420, 23658), (432, 23742), (447, 23835), (483, 24081), (508, 24297), (517, 24381), (524, 24414),

Gene: BigMama_28 Start: 24332, Stop: 26602, Start Num: 145

Candidate Starts for BigMama_28:

(Start: 145 @24332 has 21 MA's), (176, 24467), (178, 24476), (205, 24650), (206, 24656), (209, 24668), (236, 24821), (239, 24836), (241, 24851), (314, 25232), (316, 25238), (326, 25283), (343, 25370), (377, 25571), (378, 25577), (385, 25625), (391, 25655), (393, 25679), (422, 25868), (425, 25895), (434, 25943), (443, 26015), (450, 26054), (454, 26075), (455, 26090), (459, 26108), (461, 26138), (475, 26222), (503, 26423), (508, 26465), (527, 26591),

Gene: BilboSwaggins_26 Start: 22284, Stop: 24680, Start Num: 84

Candidate Starts for BilboSwaggins_26:

(Start: 84 @22284 has 125 MA's), (133, 22461), (141, 22482), (190, 22629), (211, 22770), (217, 22803), (222, 22836), (228, 22872), (248, 22965), (261, 23025), (265, 23043), (281, 23124), (323, 23352), (331, 23397), (368, 23592), (369, 23598), (371, 23607), (378, 23652), (380, 23667), (408, 23823), (409, 23841), (412, 23850), (432, 23979), (433, 23982), (463, 24192), (465, 24204), (483, 24318), (508, 24534), (517, 24618), (522, 24642), (524, 24651),

Gene: Bipolar_18 Start: 17398, Stop: 19890, Start Num: 52

Candidate Starts for Bipolar_18:

(50, 17386), (Start: 52 @17398 has 221 MA's), (59, 17419), (Start: 69 @17440 has 1 MA's), (81, 17479), (104, 17548), (106, 17557), (107, 17560), (111, 17578), (119, 17611), (128, 17644), (138, 17677), (161, 17731), (169, 17767), (173, 17776), (179, 17794), (188, 17818), (192, 17842), (207, 17950), (211, 17974), (215, 17989), (218, 17998), (222, 18022), (223, 18028), (224, 18046), (228, 18058), (230, 18064), (232, 18070), (233, 18076), (234, 18079), (237, 18088), (238, 18097), (240, 18112), (248, 18148), (258, 18187), (259, 18199), (261, 18208), (278, 18292), (294, 18373), (298, 18403), (299, 18406), (306, 18436), (309, 18463), (311, 18472), (320, 18523), (321, 18532), (323, 18535), (330, 18571), (334, 18592), (343, 18628), (369, 18781), (378, 18835), (386, 18880), (388, 18898), (389, 18901), (396, 18940), (418, 19087), (420, 19096), (431, 19165), (432, 19180), (458, 19345), (467, 19432), (476, 19480), (483, 19531), (492, 19609), (518, 19831), (520, 19834), (524, 19861),

Gene: Blarby_25 Start: 17613, Stop: 20210, Start Num: 47

Candidate Starts for Blarby_25:

(42, 17604), (47, 17613), (Start: 53 @17673 has 1 MA's), (63, 17706), (67, 17709), (96, 17808), (137, 17949), (168, 18060), (169, 18063), (179, 18093), (184, 18105), (186, 18108), (201, 18210), (210, 18276), (218, 18321), (222, 18351), (223, 18357), (224, 18375), (232, 18399), (234, 18408), (240, 18441), (242, 18447), (248, 18477), (258, 18516), (259, 18528), (261, 18537), (264, 18552), (265, 18555), (287, 18666), (288, 18669), (289, 18678), (290, 18684), (293, 18699), (294, 18702), (296, 18723), (303, 18753), (306, 18765), (310, 18798), (331, 18909), (332, 18912), (339, 18939), (341, 18945), (348, 18999), (349, 19002), (365, 19089), (368, 19104), (370, 19116), (371, 19119), (381, 19185), (389, 19230), (391, 19239), (400, 19299), (401, 19302), (408, 19338), (409, 19356), (414, 19377), (419, 19404), (430, 19473), (432, 19491), (434, 19500), (435, 19512), (439, 19548), (444, 19578), (448, 19599), (451, 19617), (458, 19659), (464, 19713), (479, 19815), (495, 19950), (499, 19974), (505, 20028), (508, 20076), (514, 20118), (516, 20142), (517, 20145),

Gene: Blessica_59 Start: 36409, Stop: 38919, Start Num: 65

Candidate Starts for Blessica_59:

(Start: 65 @36409 has 28 MA's), (72, 36442), (91, 36511), (92, 36514), (100, 36538), (107, 36562), (114, 36586), (119, 36619), (170, 36826), (173, 36838), (174, 36841), (204, 36988), (205, 37018), (210, 37042), (216, 37072), (217, 37075), (222, 37102), (224, 37126), (233, 37156), (245, 37213),

(249, 37237), (258, 37273), (259, 37285), (264, 37309), (265, 37312), (271, 37354), (293, 37450), (294, 37453), (344, 37708), (368, 37852), (378, 37912), (388, 37984), (389, 37987), (405, 38083), (432, 38257), (435, 38278), (449, 38371), (452, 38383), (464, 38473), (477, 38548), (486, 38593), (510, 38794), (515, 38848), (520, 38863),

Gene: Blexus_18 Start: 17586, Stop: 20123, Start Num: 52

Candidate Starts for Blexus_18:

(Start: 52 @17586 has 221 MA's), (59, 17607), (Start: 69 @17628 has 1 MA's), (78, 17667), (104, 17736), (106, 17745), (107, 17748), (111, 17766), (124, 17814), (137, 17862), (168, 17973), (169, 17976), (186, 18021), (197, 18099), (201, 18123), (210, 18189), (222, 18264), (223, 18270), (224, 18288), (232, 18312), (234, 18321), (240, 18354), (242, 18360), (248, 18390), (254, 18411), (259, 18441), (261, 18450), (284, 18558), (286, 18570), (287, 18579), (288, 18582), (290, 18597), (293, 18612), (294, 18615), (296, 18636), (306, 18678), (310, 18711), (331, 18822), (332, 18825), (339, 18852), (341, 18858), (348, 18912), (349, 18915), (352, 18942), (368, 19017), (370, 19029), (371, 19032), (381, 19098), (384, 19119), (386, 19122), (389, 19143), (391, 19152), (397, 19194), (400, 19212), (401, 19215), (407, 19245), (409, 19269), (413, 19281), (414, 19290), (430, 19386), (432, 19404), (434, 19413), (435, 19425), (439, 19461), (444, 19491), (447, 19500), (448, 19512), (458, 19572), (464, 19626), (473, 19686), (479, 19728), (495, 19863), (499, 19887), (505, 19941), (508, 19989), (514, 20031), (516, 20055), (517, 20058),

Gene: BlueCrab_18 Start: 17568, Stop: 20105, Start Num: 52

Candidate Starts for BlueCrab_18:

(49, 17556), (Start: 52 @17568 has 221 MA's), (59, 17589), (Start: 69 @17610 has 1 MA's), (78, 17649), (104, 17718), (106, 17727), (107, 17730), (111, 17748), (124, 17796), (137, 17844), (168, 17955), (169, 17958), (186, 18003), (197, 18081), (201, 18105), (210, 18171), (218, 18216), (222, 18246), (223, 18252), (224, 18270), (232, 18294), (234, 18303), (240, 18336), (242, 18342), (248, 18372), (258, 18411), (259, 18423), (261, 18432), (264, 18447), (265, 18450), (287, 18561), (288, 18564), (289, 18573), (290, 18579), (293, 18594), (294, 18597), (296, 18618), (303, 18648), (306, 18660), (310, 18693), (331, 18804), (332, 18807), (339, 18834), (341, 18840), (348, 18894), (349, 18897), (368, 18999), (370, 19011), (371, 19014), (381, 19080), (386, 19104), (389, 19125), (391, 19134), (400, 19194), (401, 19197), (408, 19233), (409, 19251), (414, 19272), (419, 19299), (430, 19368), (432, 19386), (434, 19395), (435, 19407), (439, 19443), (448, 19494), (451, 19512), (458, 19554), (464, 19608), (479, 19710), (495, 19845), (499, 19869), (505, 19923), (511, 19992), (516, 20037), (517, 20040),

Gene: BobaPhett_18 Start: 17397, Stop: 19922, Start Num: 52

Candidate Starts for BobaPhett_18:

(Start: 52 @17397 has 221 MA's), (59, 17418), (66, 17439), (79, 17478), (104, 17547), (106, 17556), (107, 17559), (111, 17577), (124, 17625), (137, 17673), (168, 17784), (169, 17787), (180, 17820), (186, 17832), (197, 17910), (205, 17976), (211, 18009), (219, 18063), (222, 18075), (233, 18129), (234, 18132), (237, 18141), (243, 18174), (252, 18213), (254, 18216), (257, 18231), (258, 18234), (262, 18261), (263, 18267), (264, 18270), (265, 18273), (270, 18300), (272, 18318), (274, 18321), (289, 18396), (293, 18417), (294, 18420), (297, 18447), (303, 18471), (310, 18516), (311, 18519), (320, 18570), (332, 18633), (334, 18642), (340, 18666), (359, 18771), (361, 18774), (368, 18825), (369, 18831), (370, 18837), (371, 18840), (378, 18885), (380, 18900), (384, 18927), (389, 18951), (397, 19002), (400, 19020), (401, 19023), (402, 19035), (413, 19089), (432, 19212), (440, 19275), (451, 19338), (460, 19413), (490, 19614), (513, 19824), (519, 19863), (520, 19866),

Gene: Bobi_20 Start: 17987, Stop: 20524, Start Num: 52

Candidate Starts for Bobi_20:

(49, 17975), (Start: 52 @17987 has 221 MA's), (59, 18008), (Start: 69 @18029 has 1 MA's), (78, 18068), (104, 18137), (106, 18146), (107, 18149), (111, 18167), (119, 18200), (124, 18215), (137, 18263), (168, 18374), (169, 18377), (179, 18407), (184, 18419), (186, 18422), (197, 18500), (201,

18524), (210, 18590), (218, 18635), (222, 18665), (223, 18671), (224, 18689), (232, 18713), (234, 18722), (240, 18755), (242, 18761), (248, 18791), (258, 18830), (259, 18842), (261, 18851), (264, 18866), (265, 18869), (287, 18980), (288, 18983), (289, 18992), (290, 18998), (293, 19013), (294, 19016), (303, 19067), (306, 19079), (310, 19112), (323, 19178), (331, 19223), (332, 19226), (339, 19253), (341, 19259), (348, 19313), (349, 19316), (365, 19403), (368, 19418), (370, 19430), (371, 19433), (381, 19499), (389, 19544), (391, 19553), (400, 19613), (401, 19616), (408, 19652), (409, 19670), (413, 19682), (414, 19691), (419, 19718), (430, 19787), (432, 19805), (434, 19814), (435, 19826), (439, 19862), (444, 19892), (448, 19913), (453, 19937), (458, 19973), (464, 20027), (473, 20087), (479, 20129), (495, 20264), (499, 20288), (505, 20342), (508, 20390), (514, 20432), (516, 20456), (517, 20459),

Gene: BodEinwohner17_18 Start: 17569, Stop: 20106, Start Num: 52

Candidate Starts for BodEinwohner17_18:

(Start: 52 @17569 has 221 MA's), (59, 17590), (Start: 69 @17611 has 1 MA's), (78, 17650), (104, 17719), (106, 17728), (107, 17731), (111, 17749), (124, 17797), (166, 17950), (169, 17959), (186, 18004), (200, 18103), (201, 18106), (210, 18172), (222, 18247), (223, 18253), (224, 18271), (232, 18295), (234, 18304), (240, 18337), (242, 18343), (248, 18373), (254, 18394), (259, 18424), (261, 18433), (264, 18448), (265, 18451), (284, 18541), (286, 18553), (287, 18562), (288, 18565), (290, 18580), (293, 18595), (294, 18598), (296, 18619), (306, 18661), (310, 18694), (331, 18805), (332, 18808), (339, 18835), (341, 18841), (348, 18895), (349, 18898), (352, 18925), (368, 19000), (370, 19012), (371, 19015), (381, 19081), (384, 19102), (386, 19105), (389, 19126), (391, 19135), (397, 19177), (400, 19195), (401, 19198), (407, 19228), (409, 19252), (413, 19264), (414, 19273), (430, 19369), (432, 19387), (434, 19396), (435, 19408), (439, 19444), (444, 19474), (447, 19483), (448, 19495), (458, 19555), (464, 19609), (473, 19669), (479, 19711), (495, 19846), (499, 19870), (505, 19924), (508, 19972), (514, 20014), (516, 20038), (517, 20041),

Gene: Bogie_20 Start: 18761, Stop: 21265, Start Num: 60

Candidate Starts for Bogie_20:

(Start: 60 @18761 has 3 MA's), (107, 18914), (200, 19319), (204, 19334), (205, 19364), (206, 19370), (210, 19388), (232, 19496), (242, 19547), (265, 19658), (266, 19661), (271, 19700), (281, 19733), (294, 19799), (306, 19859), (309, 19886), (310, 19892), (368, 20198), (378, 20258), (383, 20306), (384, 20309), (388, 20330), (389, 20333), (432, 20594), (451, 20717), (452, 20720), (464, 20810), (472, 20867), (477, 20888), (490, 20948), (512, 21149), (515, 21191),

Gene: Boomer_19 Start: 17212, Stop: 19749, Start Num: 52

Candidate Starts for Boomer_19:

(Start: 52 @17212 has 221 MA's), (59, 17233), (Start: 69 @17254 has 1 MA's), (78, 17293), (104, 17362), (106, 17371), (107, 17374), (111, 17392), (119, 17425), (124, 17440), (137, 17488), (168, 17599), (169, 17602), (179, 17632), (186, 17647), (197, 17725), (201, 17749), (210, 17815), (218, 17860), (222, 17890), (223, 17896), (224, 17914), (232, 17938), (234, 17947), (240, 17980), (242, 17986), (248, 18016), (254, 18037), (258, 18055), (259, 18067), (261, 18076), (264, 18091), (265, 18094), (280, 18172), (287, 18205), (288, 18208), (289, 18217), (290, 18223), (293, 18238), (294, 18241), (296, 18262), (303, 18292), (306, 18304), (310, 18337), (331, 18448), (332, 18451), (339, 18478), (341, 18484), (348, 18538), (349, 18541), (365, 18628), (368, 18643), (370, 18655), (371, 18658), (381, 18724), (386, 18748), (389, 18769), (391, 18778), (400, 18838), (401, 18841), (407, 18871), (409, 18895), (413, 18907), (414, 18916), (419, 18943), (430, 19012), (432, 19030), (434, 19039), (435, 19051), (439, 19087), (444, 19117), (448, 19138), (453, 19162), (458, 19198), (464, 19252), (473, 19312), (479, 19354), (487, 19432), (495, 19489), (499, 19513), (505, 19567), (508, 19615), (516, 19681), (517, 19684),

Gene: Bora_56 Start: 35766, Stop: 38276, Start Num: 65

Candidate Starts for Bora_56:

(Start: 65 @35766 has 28 MA's), (72, 35799), (91, 35868), (92, 35871), (100, 35895), (107, 35919), (114, 35943), (119, 35976), (160, 36129), (170, 36183), (173, 36195), (174, 36198), (204, 36345), (205, 36375), (210, 36399), (216, 36429), (217, 36432), (222, 36459), (224, 36483), (233, 36513), (245, 36570), (258, 36630), (259, 36642), (264, 36666), (265, 36669), (271, 36711), (293, 36807), (294, 36810), (344, 37065), (368, 37209), (378, 37269), (388, 37341), (389, 37344), (405, 37440), (432, 37614), (434, 37623), (435, 37635), (449, 37728), (452, 37740), (464, 37830), (477, 37905), (486, 37950), (510, 38151), (515, 38205), (520, 38220),

Gene: Brookers_19 Start: 17254, Stop: 19731, Start Num: 52

Candidate Starts for Brookers_19:

(50, 17242), (Start: 52 @17254 has 221 MA's), (59, 17275), (Start: 69 @17296 has 1 MA's), (81, 17335), (104, 17404), (106, 17413), (107, 17416), (111, 17434), (119, 17467), (124, 17482), (153, 17569), (161, 17584), (169, 17620), (172, 17626), (184, 17659), (188, 17671), (215, 17842), (218, 17851), (222, 17875), (233, 17929), (240, 17965), (242, 17971), (248, 18001), (256, 18031), (259, 18052), (261, 18061), (278, 18145), (290, 18208), (294, 18226), (295, 18235), (298, 18256), (299, 18259), (303, 18277), (306, 18289), (309, 18316), (311, 18325), (320, 18376), (321, 18385), (323, 18388), (329, 18415), (330, 18424), (334, 18445), (348, 18523), (349, 18526), (369, 18634), (370, 18640), (378, 18688), (384, 18730), (386, 18733), (389, 18754), (390, 18760), (391, 18763), (396, 18793), (418, 18934), (421, 18952), (424, 18985), (430, 19009), (431, 19012), (432, 19027), (435, 19048), (439, 19084), (440, 19090), (445, 19117), (449, 19144), (467, 19279), (476, 19327), (478, 19351), (480, 19357), (483, 19375), (495, 19474), (498, 19495), (500, 19513), (508, 19591), (511, 19612), (520, 19675), (522, 19693), (526, 19711),

Gene: Bruin_26 Start: 22307, Stop: 24703, Start Num: 84

Candidate Starts for Bruin_26:

(Start: 84 @22307 has 125 MA's), (133, 22484), (141, 22505), (190, 22652), (211, 22793), (217, 22826), (222, 22859), (228, 22895), (248, 22988), (261, 23048), (265, 23066), (291, 23198), (298, 23243), (323, 23375), (331, 23420), (364, 23594), (368, 23615), (374, 23654), (378, 23675), (380, 23690), (408, 23846), (409, 23864), (420, 23918), (432, 24002), (447, 24095), (483, 24341), (508, 24557), (517, 24641), (524, 24674),

Gene: Brujita_21 Start: 19089, Stop: 21620, Start Num: 57

Candidate Starts for Brujita_21:

(Start: 57 @19089 has 2 MA's), (64, 19113), (95, 19224), (99, 19233), (107, 19260), (142, 19407), (200, 19674), (204, 19689), (205, 19719), (206, 19725), (210, 19743), (232, 19851), (242, 19902), (265, 20013), (266, 20016), (271, 20055), (281, 20088), (294, 20154), (306, 20214), (309, 20241), (310, 20247), (368, 20553), (378, 20613), (383, 20661), (384, 20664), (388, 20685), (389, 20688), (432, 20949), (451, 21072), (452, 21075), (464, 21165), (472, 21222), (477, 21243), (490, 21303), (512, 21504), (515, 21546),

Gene: Brushbloom_20 Start: 17281, Stop: 19818, Start Num: 52

Candidate Starts for Brushbloom_20:

(Start: 52 @17281 has 221 MA's), (59, 17302), (Start: 69 @17323 has 1 MA's), (77, 17359), (78, 17362), (104, 17431), (106, 17440), (107, 17443), (111, 17461), (119, 17494), (124, 17509), (137, 17557), (166, 17662), (168, 17668), (169, 17671), (184, 17713), (186, 17716), (201, 17818), (210, 17884), (218, 17929), (222, 17959), (223, 17965), (224, 17983), (232, 18007), (234, 18016), (240, 18049), (242, 18055), (254, 18106), (258, 18124), (259, 18136), (261, 18145), (264, 18160), (266, 18166), (287, 18274), (289, 18286), (290, 18292), (293, 18307), (294, 18310), (296, 18331), (303, 18361), (306, 18373), (310, 18406), (323, 18472), (331, 18517), (332, 18520), (339, 18547), (341, 18553), (348, 18607), (349, 18610), (352, 18637), (368, 18712), (370, 18724), (371, 18727), (381, 18793), (386, 18817), (391, 18847), (397, 18889), (400, 18907), (401, 18910), (408, 18946), (409, 18964), (414, 18985), (419, 19012), (430, 19081), (432, 19099), (434, 19108), (435, 19120), (439, 19156), (448, 19207), (451, 19225), (458, 19267), (464, 19321), (479, 19423), (487, 19501), (495,

19558), (499, 19582), (505, 19636), (508, 19684), (514, 19726), (516, 19750), (517, 19753),

Gene: Bubbles123_19 Start: 18112, Stop: 20649, Start Num: 52

Candidate Starts for Bubbles123_19:

(Start: 52 @18112 has 221 MA's), (59, 18133), (Start: 69 @18154 has 1 MA's), (78, 18193), (104, 18262), (106, 18271), (107, 18274), (111, 18292), (119, 18325), (124, 18340), (137, 18388), (168, 18499), (169, 18502), (184, 18544), (186, 18547), (201, 18649), (210, 18715), (218, 18760), (222, 18790), (223, 18796), (224, 18814), (232, 18838), (234, 18847), (240, 18880), (242, 18886), (258, 18955), (259, 18967), (261, 18976), (264, 18991), (266, 18997), (287, 19105), (289, 19117), (290, 19123), (293, 19138), (294, 19141), (296, 19162), (303, 19192), (306, 19204), (310, 19237), (323, 19303), (331, 19348), (332, 19351), (339, 19378), (341, 19384), (348, 19438), (349, 19441), (352, 19468), (368, 19543), (370, 19555), (371, 19558), (381, 19624), (386, 19648), (391, 19678), (397, 19720), (400, 19738), (401, 19741), (408, 19777), (409, 19795), (414, 19816), (419, 19843), (430, 19912), (432, 19930), (434, 19939), (435, 19951), (439, 19987), (448, 20038), (453, 20062), (458, 20098), (464, 20152), (479, 20254), (487, 20332), (495, 20389), (499, 20413), (508, 20515), (514, 20557), (516, 20581), (517, 20584),

Gene: Buck_25 Start: 22240, Stop: 24636, Start Num: 84

Candidate Starts for Buck_25:

(Start: 84 @22240 has 125 MA's), (133, 22417), (141, 22438), (190, 22585), (211, 22726), (217, 22759), (222, 22792), (228, 22828), (248, 22921), (261, 22981), (265, 22999), (291, 23131), (298, 23176), (323, 23308), (331, 23353), (346, 23413), (364, 23527), (368, 23548), (374, 23587), (378, 23608), (380, 23623), (407, 23773), (408, 23779), (409, 23797), (420, 23851), (432, 23935), (447, 24028), (483, 24274), (508, 24490), (517, 24574), (524, 24607),

Gene: BugsBunny_24 Start: 21873, Stop: 24269, Start Num: 84

Candidate Starts for BugsBunny_24:

(Start: 84 @21873 has 125 MA's), (133, 22050), (141, 22071), (190, 22218), (211, 22359), (217, 22392), (222, 22425), (228, 22461), (248, 22554), (261, 22614), (265, 22632), (291, 22764), (298, 22809), (323, 22941), (331, 22986), (346, 23046), (364, 23160), (368, 23181), (374, 23220), (378, 23241), (380, 23256), (407, 23406), (408, 23412), (409, 23430), (420, 23484), (432, 23568), (447, 23661), (483, 23907), (508, 24123), (517, 24207), (524, 24240),

Gene: Burwell21_18 Start: 17404, Stop: 19956, Start Num: 52

Candidate Starts for Burwell21_18:

(Start: 52 @17404 has 221 MA's), (79, 17485), (104, 17554), (106, 17563), (107, 17566), (111, 17584), (124, 17632), (136, 17677), (168, 17791), (169, 17794), (174, 17806), (180, 17827), (184, 17836), (186, 17839), (193, 17887), (197, 17917), (205, 17983), (211, 18016), (218, 18052), (221, 18076), (233, 18136), (234, 18139), (238, 18157), (252, 18220), (254, 18223), (258, 18241), (261, 18262), (265, 18280), (270, 18307), (274, 18328), (281, 18361), (289, 18403), (290, 18409), (291, 18412), (294, 18427), (297, 18454), (298, 18457), (303, 18478), (306, 18490), (310, 18523), (329, 18616), (348, 18724), (351, 18748), (352, 18754), (358, 18772), (359, 18775), (363, 18799), (368, 18829), (372, 18853), (378, 18889), (379, 18895), (380, 18904), (384, 18931), (394, 18994), (397, 19018), (398, 19033), (407, 19075), (415, 19126), (431, 19222), (432, 19237), (434, 19246), (437, 19270), (447, 19333), (453, 19369), (493, 19675), (499, 19720), (508, 19822),

Gene: Butterscotch_30 Start: 24316, Stop: 26586, Start Num: 145

Candidate Starts for Butterscotch_30:

(Start: 145 @24316 has 21 MA's), (176, 24451), (178, 24460), (205, 24634), (206, 24640), (209, 24652), (236, 24805), (239, 24820), (241, 24835), (314, 25216), (316, 25222), (326, 25267), (343, 25354), (377, 25555), (378, 25561), (385, 25609), (391, 25639), (393, 25663), (422, 25852), (425, 25879), (434, 25927), (443, 25999), (450, 26038), (454, 26059), (455, 26074), (459, 26092), (461, 26122), (475, 26206), (503, 26407), (508, 26449), (527, 26575),

Gene: BuzzLyseyear_20 Start: 17791, Stop: 20328, Start Num: 52

Candidate Starts for BuzzLyseyear_20:

(Start: 52 @17791 has 221 MA's), (59, 17812), (Start: 69 @17833 has 1 MA's), (78, 17872), (104, 17941), (106, 17950), (107, 17953), (111, 17971), (124, 18019), (166, 18172), (169, 18181), (186, 18226), (200, 18325), (201, 18328), (210, 18394), (222, 18469), (223, 18475), (224, 18493), (232, 18517), (233, 18523), (234, 18526), (240, 18559), (242, 18565), (248, 18595), (254, 18616), (259, 18646), (261, 18655), (264, 18670), (265, 18673), (287, 18784), (288, 18787), (289, 18796), (290, 18802), (293, 18817), (294, 18820), (296, 18841), (303, 18871), (306, 18883), (310, 18916), (331, 19027), (332, 19030), (339, 19057), (341, 19063), (348, 19117), (349, 19120), (365, 19207), (368, 19222), (370, 19234), (371, 19237), (381, 19303), (386, 19327), (389, 19348), (391, 19357), (400, 19417), (401, 19420), (408, 19456), (409, 19474), (413, 19486), (414, 19495), (419, 19522), (429, 19579), (430, 19591), (432, 19609), (434, 19618), (435, 19630), (439, 19666), (444, 19696), (447, 19705), (448, 19717), (458, 19777), (464, 19831), (473, 19891), (479, 19933), (495, 20068), (499, 20092), (505, 20146), (508, 20194), (514, 20236), (516, 20260), (517, 20263),

Gene: ByChance_18 Start: 17408, Stop: 19933, Start Num: 52

Candidate Starts for ByChance_18:

(Start: 52 @17408 has 221 MA's), (79, 17489), (104, 17558), (106, 17567), (107, 17570), (111, 17588), (124, 17636), (137, 17684), (168, 17795), (169, 17798), (180, 17831), (186, 17843), (197, 17921), (205, 17987), (211, 18020), (219, 18074), (222, 18086), (233, 18140), (234, 18143), (237, 18152), (243, 18185), (252, 18224), (254, 18227), (257, 18242), (258, 18245), (262, 18272), (263, 18278), (264, 18281), (265, 18284), (270, 18311), (272, 18329), (274, 18332), (289, 18407), (293, 18428), (294, 18431), (297, 18458), (303, 18482), (310, 18527), (311, 18530), (320, 18581), (332, 18644), (334, 18653), (340, 18677), (359, 18782), (361, 18785), (368, 18836), (369, 18842), (370, 18848), (371, 18851), (378, 18896), (380, 18911), (384, 18938), (389, 18962), (397, 19013), (400, 19031), (401, 19034), (402, 19046), (413, 19100), (420, 19142), (440, 19286), (449, 19340), (450, 19346), (451, 19349), (456, 19385), (457, 19388), (459, 19397), (460, 19424), (490, 19625), (508, 19796), (513, 19835), (519, 19874), (520, 19877),

Gene: Byougenkin_18 Start: 17418, Stop: 19949, Start Num: 52

Candidate Starts for Byougenkin_18:

(Start: 52 @17418 has 221 MA's), (86, 17508), (104, 17568), (106, 17577), (107, 17580), (111, 17598), (119, 17631), (124, 17646), (137, 17694), (168, 17805), (169, 17808), (179, 17838), (186, 17853), (197, 17931), (201, 17955), (210, 18021), (218, 18066), (222, 18096), (223, 18102), (224, 18120), (232, 18144), (233, 18150), (234, 18153), (240, 18186), (242, 18192), (258, 18261), (261, 18282), (264, 18297), (265, 18300), (287, 18411), (289, 18423), (290, 18429), (293, 18444), (294, 18447), (296, 18468), (306, 18510), (310, 18543), (331, 18654), (332, 18657), (339, 18684), (341, 18690), (348, 18744), (349, 18747), (365, 18834), (368, 18849), (370, 18861), (371, 18864), (381, 18930), (386, 18954), (389, 18975), (391, 18984), (400, 19044), (401, 19047), (408, 19083), (409, 19101), (413, 19113), (414, 19122), (419, 19149), (430, 19218), (432, 19236), (434, 19245), (435, 19257), (439, 19293), (444, 19323), (448, 19344), (453, 19368), (458, 19404), (464, 19458), (473, 19518), (479, 19560), (487, 19638), (495, 19695), (499, 19719), (505, 19773), (508, 19821), (514, 19857), (516, 19881), (517, 19884),

Gene: Cabrinians_18 Start: 17398, Stop: 19950, Start Num: 52

Candidate Starts for Cabrinians_18:

(Start: 52 @17398 has 221 MA's), (79, 17479), (104, 17548), (106, 17557), (107, 17560), (111, 17578), (124, 17626), (136, 17671), (168, 17785), (169, 17788), (174, 17800), (180, 17821), (184, 17830), (186, 17833), (193, 17881), (197, 17911), (205, 17977), (211, 18010), (218, 18046), (221, 18070), (233, 18130), (234, 18133), (238, 18151), (252, 18214), (254, 18217), (258, 18235), (261, 18256), (265, 18274), (270, 18301), (274, 18322), (281, 18355), (289, 18397), (290, 18403), (291, 18406), (294, 18421), (297, 18448), (298, 18451), (303, 18472), (306, 18484), (310, 18517), (329, 18610),

(348, 18718), (351, 18742), (352, 18748), (358, 18766), (359, 18769), (363, 18793), (368, 18823), (372, 18847), (378, 18883), (379, 18889), (380, 18898), (384, 18925), (394, 18988), (397, 19012), (398, 19027), (407, 19069), (415, 19120), (431, 19216), (432, 19231), (434, 19240), (437, 19264), (447, 19327), (453, 19363), (493, 19669), (499, 19714), (508, 19816),

Gene: Cactus_27 Start: 21496, Stop: 23892, Start Num: 84

Candidate Starts for Cactus_27:

(Start: 84 @21496 has 125 MA's), (133, 21673), (141, 21694), (190, 21841), (211, 21982), (217, 22015), (222, 22048), (228, 22084), (248, 22177), (261, 22237), (265, 22255), (281, 22336), (323, 22564), (331, 22609), (368, 22804), (369, 22810), (371, 22819), (378, 22864), (380, 22879), (408, 23035), (409, 23053), (412, 23062), (432, 23191), (433, 23194), (463, 23404), (465, 23416), (483, 23530), (508, 23746), (517, 23830), (522, 23854), (524, 23863),

Gene: Candle_30 Start: 24637, Stop: 28131, Start Num: 1

Candidate Starts for Candle_30:

(Start: 1 @24637 has 8 MA's), (4, 24649), (Start: 5 @24661 has 1 MA's), (8, 24844), (10, 24925), (14, 25024), (15, 25048), (16, 25066), (23, 25225), (25, 25258), (33, 25306), (38, 25345), (62, 25471), (68, 25480), (113, 25666), (156, 25867), (192, 26044), (205, 26143), (211, 26176), (221, 26221), (223, 26233), (232, 26275), (233, 26281), (234, 26284), (247, 26353), (260, 26431), (261, 26437), (269, 26482), (270, 26485), (287, 26569), (334, 26824), (344, 26863), (366, 27010), (367, 27016), (396, 27190), (401, 27223), (404, 27244), (407, 27253), (410, 27280), (448, 27523), (466, 27667), (494, 27865), (498, 27895), (505, 27952), (507, 27988), (511, 28015), (512, 28027),

Gene: CaptainTrips_19 Start: 18092, Stop: 20629, Start Num: 52

Candidate Starts for CaptainTrips_19:

(Start: 52 @18092 has 221 MA's), (86, 18182), (104, 18242), (106, 18251), (107, 18254), (111, 18272), (119, 18305), (124, 18320), (137, 18368), (168, 18479), (169, 18482), (179, 18512), (184, 18524), (186, 18527), (197, 18605), (201, 18629), (210, 18695), (218, 18740), (222, 18770), (223, 18776), (224, 18794), (232, 18818), (234, 18827), (240, 18860), (242, 18866), (248, 18896), (258, 18935), (259, 18947), (261, 18956), (264, 18971), (265, 18974), (287, 19085), (288, 19088), (289, 19097), (290, 19103), (293, 19118), (294, 19121), (296, 19142), (303, 19172), (306, 19184), (310, 19217), (331, 19328), (332, 19331), (339, 19358), (341, 19364), (348, 19418), (349, 19421), (365, 19508), (368, 19523), (370, 19535), (371, 19538), (381, 19604), (386, 19628), (389, 19649), (391, 19658), (400, 19718), (401, 19721), (408, 19757), (409, 19775), (413, 19787), (414, 19796), (419, 19823), (430, 19892), (432, 19910), (434, 19919), (435, 19931), (439, 19967), (444, 19997), (448, 20018), (453, 20042), (458, 20078), (464, 20132), (473, 20192), (479, 20234), (487, 20312), (495, 20369), (499, 20393), (505, 20447), (508, 20495), (514, 20537), (516, 20561), (517, 20564),

Gene: Catdawg_58 Start: 36145, Stop: 38655, Start Num: 65

Candidate Starts for Catdawg_58:

(Start: 65 @36145 has 28 MA's), (72, 36178), (91, 36247), (92, 36250), (100, 36274), (107, 36298), (114, 36322), (119, 36355), (170, 36562), (173, 36574), (174, 36577), (204, 36724), (205, 36754), (210, 36778), (216, 36808), (217, 36811), (222, 36838), (224, 36862), (233, 36892), (245, 36949), (249, 36973), (258, 37009), (259, 37021), (264, 37045), (265, 37048), (271, 37090), (293, 37186), (294, 37189), (344, 37444), (368, 37588), (378, 37648), (388, 37720), (389, 37723), (405, 37819), (432, 37993), (435, 38014), (449, 38107), (452, 38119), (464, 38209), (477, 38284), (486, 38329), (510, 38530), (515, 38584), (520, 38599),

Gene: Cborch11_30 Start: 25681, Stop: 28524, Start Num: 22

Candidate Starts for Cborch11_30:

(Start: 22 @25681 has 8 MA's), (38, 25813), (40, 25825), (43, 25834), (Start: 54 @25903 has 3 MA's), (Start: 57 @25909 has 2 MA's), (73, 25969), (83, 25990), (93, 26038), (106, 26080), (113, 26104), (118, 26137), (127, 26173), (131, 26185), (157, 26278), (169, 26335), (181, 26374), (203, 26500),

(211, 26569), (216, 26599), (223, 26641), (234, 26692), (254, 26782), (258, 26800), (271, 26881), (281, 26920), (286, 26941), (310, 27079), (317, 27118), (330, 27181), (349, 27283), (388, 27508), (445, 27871), (449, 27898), (489, 28141), (493, 28174), (496, 28198), (508, 28318), (518, 28396), (529, 28483), (530, 28498), (531, 28504),

Gene: Che8_18 Start: 17426, Stop: 19963, Start Num: 52

Candidate Starts for Che8_18:

(Start: 52 @17426 has 221 MA's), (59, 17447), (Start: 69 @17468 has 1 MA's), (78, 17507), (104, 17576), (106, 17585), (107, 17588), (111, 17606), (119, 17639), (124, 17654), (168, 17813), (169, 17816), (179, 17846), (186, 17861), (197, 17939), (201, 17963), (210, 18029), (222, 18104), (223, 18110), (224, 18128), (232, 18152), (233, 18158), (234, 18161), (240, 18194), (242, 18200), (248, 18230), (254, 18251), (259, 18281), (261, 18290), (284, 18398), (286, 18410), (287, 18419), (288, 18422), (289, 18431), (290, 18437), (293, 18452), (294, 18455), (296, 18476), (303, 18506), (306, 18518), (310, 18551), (339, 18692), (341, 18698), (348, 18752), (349, 18755), (352, 18782), (368, 18857), (370, 18869), (371, 18872), (373, 18893), (381, 18938), (386, 18962), (391, 18992), (397, 19034), (400, 19052), (401, 19055), (408, 19091), (409, 19109), (413, 19121), (414, 19130), (419, 19157), (429, 19214), (430, 19226), (432, 19244), (434, 19253), (435, 19265), (439, 19301), (444, 19331), (447, 19340), (448, 19352), (458, 19412), (464, 19466), (479, 19568), (487, 19646), (495, 19703), (499, 19727), (505, 19781), (508, 19829), (511, 19850), (516, 19895), (517, 19898),

Gene: Che9d_24 Start: 17101, Stop: 19650, Start Num: 44

Candidate Starts for Che9d_24:

(41, 17092), (Start: 44 @17101 has 7 MA's), (Start: 52 @17161 has 221 MA's), (64, 17197), (97, 17296), (138, 17437), (153, 17476), (161, 17491), (169, 17527), (172, 17533), (173, 17536), (179, 17554), (188, 17578), (192, 17602), (193, 17605), (215, 17749), (218, 17758), (222, 17782), (224, 17806), (232, 17830), (233, 17836), (238, 17857), (239, 17860), (242, 17878), (248, 17908), (256, 17938), (259, 17959), (278, 18052), (281, 18067), (284, 18076), (287, 18097), (288, 18100), (295, 18142), (303, 18184), (304, 18187), (306, 18196), (309, 18223), (311, 18232), (318, 18271), (321, 18292), (323, 18295), (330, 18331), (334, 18352), (348, 18430), (349, 18433), (362, 18487), (370, 18547), (383, 18634), (386, 18640), (389, 18661), (396, 18697), (404, 18751), (407, 18760), (418, 18838), (421, 18856), (425, 18892), (426, 18895), (430, 18913), (432, 18931), (439, 18988), (441, 19000), (453, 19063), (458, 19096), (467, 19183), (476, 19231), (478, 19255), (482, 19282), (483, 19291), (486, 19330), (492, 19369), (495, 19393), (498, 19414), (508, 19510), (511, 19531), (518, 19591), (520, 19594), (524, 19621),

Gene: Cheesepuff_21 Start: 18248, Stop: 20785, Start Num: 52

Candidate Starts for Cheesepuff_21:

(Start: 52 @18248 has 221 MA's), (59, 18269), (Start: 69 @18290 has 1 MA's), (78, 18329), (104, 18398), (106, 18407), (107, 18410), (111, 18428), (119, 18461), (124, 18476), (166, 18629), (169, 18638), (186, 18683), (200, 18782), (201, 18785), (210, 18851), (218, 18896), (222, 18926), (223, 18932), (224, 18950), (232, 18974), (233, 18980), (234, 18983), (240, 19016), (242, 19022), (248, 19052), (258, 19091), (259, 19103), (261, 19112), (264, 19127), (265, 19130), (287, 19241), (288, 19244), (289, 19253), (290, 19259), (293, 19274), (294, 19277), (296, 19298), (303, 19328), (306, 19340), (310, 19373), (331, 19484), (332, 19487), (339, 19514), (341, 19520), (348, 19574), (349, 19577), (355, 19613), (365, 19664), (368, 19679), (370, 19691), (371, 19694), (381, 19760), (386, 19784), (389, 19805), (391, 19814), (400, 19874), (401, 19877), (408, 19913), (409, 19931), (413, 19943), (414, 19952), (419, 19979), (429, 20036), (430, 20048), (432, 20066), (434, 20075), (435, 20087), (439, 20123), (444, 20153), (447, 20162), (448, 20174), (453, 20198), (458, 20234), (464, 20288), (473, 20348), (479, 20390), (487, 20468), (495, 20525), (499, 20549), (505, 20603), (508, 20651), (514, 20693), (516, 20717), (517, 20720),

Gene: Chevrolet_18 Start: 17438, Stop: 19975, Start Num: 52

Candidate Starts for Chevrolet_18:

(Start: 52 @17438 has 221 MA's), (59, 17459), (Start: 69 @17480 has 1 MA's), (78, 17519), (104, 17588), (106, 17597), (107, 17600), (111, 17618), (119, 17651), (124, 17666), (168, 17825), (169, 17828), (179, 17858), (186, 17873), (197, 17951), (200, 17972), (201, 17975), (210, 18041), (222, 18116), (223, 18122), (232, 18164), (233, 18170), (234, 18173), (240, 18206), (242, 18212), (248, 18242), (254, 18263), (259, 18293), (261, 18302), (284, 18410), (286, 18422), (287, 18431), (288, 18434), (289, 18443), (290, 18449), (293, 18464), (294, 18467), (296, 18488), (306, 18530), (310, 18563), (339, 18704), (341, 18710), (348, 18764), (349, 18767), (352, 18794), (365, 18854), (368, 18869), (370, 18881), (371, 18884), (381, 18950), (386, 18974), (389, 18995), (391, 19004), (400, 19064), (401, 19067), (408, 19103), (409, 19121), (413, 19133), (414, 19142), (419, 19169), (430, 19238), (432, 19256), (434, 19265), (435, 19277), (439, 19313), (444, 19343), (458, 19424), (464, 19478), (473, 19538), (479, 19580), (487, 19658), (495, 19715), (499, 19739), (505, 19793), (508, 19841), (514, 19883), (516, 19907), (517, 19910),

Gene: ChickenDinner_19 Start: 17271, Stop: 19796, Start Num: 52

Candidate Starts for ChickenDinner_19:

(Start: 52 @17271 has 221 MA's), (59, 17292), (Start: 69 @17313 has 1 MA's), (78, 17352), (104, 17421), (106, 17430), (107, 17433), (111, 17451), (119, 17484), (124, 17499), (137, 17547), (168, 17658), (169, 17661), (186, 17706), (197, 17784), (201, 17808), (210, 17874), (211, 17883), (222, 17949), (223, 17955), (224, 17973), (232, 17997), (233, 18003), (234, 18006), (240, 18039), (242, 18045), (248, 18075), (254, 18096), (261, 18135), (264, 18150), (266, 18156), (294, 18300), (303, 18351), (322, 18462), (332, 18513), (338, 18537), (352, 18630), (363, 18675), (364, 18684), (368, 18705), (370, 18717), (371, 18720), (378, 18765), (386, 18810), (388, 18828), (389, 18831), (397, 18882), (407, 18933), (408, 18939), (409, 18957), (413, 18969), (414, 18978), (420, 19011), (432, 19092), (441, 19161), (447, 19188), (450, 19215), (459, 19266), (464, 19314), (498, 19557), (508, 19662), (511, 19683), (519, 19737), (523, 19761),

Gene: Chill_31 Start: 24322, Stop: 26592, Start Num: 145

Candidate Starts for Chill_31:

(Start: 145 @24322 has 21 MA's), (176, 24457), (178, 24466), (205, 24640), (206, 24646), (209, 24658), (236, 24811), (239, 24826), (241, 24841), (314, 25222), (316, 25228), (326, 25273), (343, 25360), (377, 25561), (378, 25567), (385, 25615), (391, 25645), (393, 25669), (422, 25858), (425, 25885), (434, 25933), (443, 26005), (450, 26044), (454, 26065), (455, 26080), (459, 26098), (461, 26128), (475, 26212), (503, 26413), (508, 26455), (527, 26581),

Gene: ChosenOne_25 Start: 21491, Stop: 23887, Start Num: 84

Candidate Starts for ChosenOne_25:

(Start: 84 @21491 has 125 MA's), (133, 21668), (141, 21689), (190, 21836), (217, 22010), (222, 22043), (228, 22079), (248, 22172), (261, 22232), (265, 22250), (291, 22382), (298, 22427), (323, 22559), (331, 22604), (346, 22664), (364, 22778), (368, 22799), (374, 22838), (378, 22859), (380, 22874), (407, 23024), (408, 23030), (409, 23048), (420, 23102), (432, 23186), (447, 23279), (483, 23525), (508, 23741), (517, 23825), (524, 23858),

Gene: ChotaBhai_26 Start: 21533, Stop: 23929, Start Num: 84

Candidate Starts for ChotaBhai_26:

(Start: 84 @21533 has 125 MA's), (133, 21710), (141, 21731), (190, 21878), (211, 22019), (217, 22052), (222, 22085), (228, 22121), (248, 22214), (261, 22274), (265, 22292), (291, 22424), (298, 22469), (323, 22601), (331, 22646), (364, 22820), (368, 22841), (374, 22880), (378, 22901), (380, 22916), (408, 23072), (409, 23090), (420, 23144), (432, 23228), (447, 23321), (483, 23567), (508, 23783), (517, 23867), (524, 23900),

Gene: Chuckly_18 Start: 17569, Stop: 20106, Start Num: 52

Candidate Starts for Chuckly_18:

(49, 17557), (Start: 52 @17569 has 221 MA's), (59, 17590), (Start: 69 @17611 has 1 MA's), (78, 17650), (104, 17719), (106, 17728), (107, 17731), (111, 17749), (119, 17782), (124, 17797), (137, 17845), (168, 17956), (169, 17959), (179, 17989), (184, 18001), (186, 18004), (197, 18082), (201, 18106), (210, 18172), (218, 18217), (222, 18247), (223, 18253), (224, 18271), (232, 18295), (234, 18304), (240, 18337), (242, 18343), (248, 18373), (258, 18412), (259, 18424), (261, 18433), (264, 18448), (266, 18454), (287, 18562), (288, 18565), (289, 18574), (290, 18580), (293, 18595), (294, 18598), (296, 18619), (303, 18649), (306, 18661), (310, 18694), (323, 18760), (331, 18805), (332, 18808), (339, 18835), (341, 18841), (348, 18895), (349, 18898), (365, 18985), (368, 19000), (370, 19012), (371, 19015), (381, 19081), (386, 19105), (389, 19126), (391, 19135), (400, 19195), (401, 19198), (408, 19234), (409, 19252), (414, 19273), (419, 19300), (430, 19369), (432, 19387), (434, 19396), (435, 19408), (439, 19444), (444, 19474), (448, 19495), (453, 19519), (458, 19555), (464, 19609), (473, 19669), (479, 19711), (495, 19846), (499, 19870), (505, 19924), (508, 19972), (514, 20014), (516, 20038), (517, 20041),

Gene: Cjw1_26 Start: 23044, Stop: 25440, Start Num: 84

Candidate Starts for Cjw1_26:

(Start: 84 @23044 has 125 MA's), (133, 23221), (141, 23242), (190, 23389), (217, 23563), (222, 23596), (228, 23632), (261, 23785), (265, 23803), (291, 23935), (298, 23980), (323, 24112), (331, 24157), (346, 24217), (364, 24331), (368, 24352), (374, 24391), (378, 24412), (380, 24427), (407, 24577), (408, 24583), (409, 24601), (420, 24655), (432, 24739), (447, 24832), (483, 25078), (508, 25294), (517, 25378), (524, 25411),

Gene: Coco12_20 Start: 17795, Stop: 20272, Start Num: 52

Candidate Starts for Coco12_20:

(50, 17783), (Start: 52 @17795 has 221 MA's), (59, 17816), (Start: 69 @17837 has 1 MA's), (81, 17876), (104, 17945), (106, 17954), (107, 17957), (111, 17975), (119, 18008), (124, 18023), (153, 18110), (161, 18125), (169, 18161), (172, 18167), (184, 18200), (188, 18212), (215, 18383), (218, 18392), (222, 18416), (233, 18470), (240, 18506), (242, 18512), (248, 18542), (256, 18572), (259, 18593), (261, 18602), (278, 18686), (290, 18749), (294, 18767), (295, 18776), (298, 18797), (299, 18800), (303, 18818), (306, 18830), (309, 18857), (311, 18866), (320, 18917), (321, 18926), (323, 18929), (329, 18956), (330, 18965), (334, 18986), (348, 19064), (349, 19067), (369, 19175), (370, 19181), (378, 19229), (384, 19271), (386, 19274), (389, 19295), (390, 19301), (391, 19304), (396, 19334), (418, 19475), (421, 19493), (424, 19526), (430, 19550), (431, 19553), (432, 19568), (435, 19589), (439, 19625), (440, 19631), (445, 19658), (449, 19685), (467, 19820), (476, 19868), (478, 19892), (480, 19898), (483, 19916), (495, 20015), (498, 20036), (500, 20054), (508, 20132), (511, 20153), (520, 20216), (522, 20234), (526, 20252),

Gene: Command613_27 Start: 22552, Stop: 24948, Start Num: 84

Candidate Starts for Command613_27:

(Start: 84 @22552 has 125 MA's), (133, 22729), (141, 22750), (190, 22897), (211, 23038), (217, 23071), (222, 23104), (228, 23140), (248, 23233), (261, 23293), (265, 23311), (281, 23392), (323, 23620), (331, 23665), (368, 23860), (369, 23866), (371, 23875), (378, 23920), (380, 23935), (408, 24091), (409, 24109), (412, 24118), (432, 24247), (433, 24250), (463, 24460), (465, 24472), (483, 24586), (508, 24802), (517, 24886), (522, 24910), (524, 24919),

Gene: Contagion_25 Start: 21791, Stop: 24187, Start Num: 84

Candidate Starts for Contagion_25:

(Start: 84 @21791 has 125 MA's), (133, 21968), (141, 21989), (190, 22136), (211, 22277), (217, 22310), (222, 22343), (228, 22379), (248, 22472), (261, 22532), (265, 22550), (291, 22682), (298, 22727), (323, 22859), (331, 22904), (364, 23078), (368, 23099), (374, 23138), (378, 23159), (380, 23174), (408, 23330), (409, 23348), (420, 23402), (432, 23486), (447, 23579), (483, 23825), (508, 24041), (517, 24125), (524, 24158),

Gene: Cookies_26 Start: 22153, Stop: 24549, Start Num: 84

Candidate Starts for Cookies_26:

(Start: 84 @22153 has 125 MA's), (133, 22330), (141, 22351), (190, 22498), (211, 22639), (217, 22672), (222, 22705), (228, 22741), (248, 22834), (261, 22894), (265, 22912), (291, 23044), (298, 23089), (323, 23221), (331, 23266), (346, 23326), (364, 23440), (368, 23461), (374, 23500), (378, 23521), (380, 23536), (407, 23686), (408, 23692), (409, 23710), (420, 23764), (432, 23848), (447, 23941), (483, 24187), (508, 24403), (517, 24487), (524, 24520),

Gene: Corium_18 Start: 17437, Stop: 19974, Start Num: 52

Candidate Starts for Corium_18:

(49, 17425), (Start: 52 @17437 has 221 MA's), (59, 17458), (Start: 69 @17479 has 1 MA's), (78, 17518), (104, 17587), (106, 17596), (107, 17599), (111, 17617), (119, 17650), (124, 17665), (137, 17713), (168, 17824), (169, 17827), (179, 17857), (184, 17869), (186, 17872), (197, 17950), (201, 17974), (210, 18040), (218, 18085), (222, 18115), (223, 18121), (224, 18139), (232, 18163), (234, 18172), (240, 18205), (242, 18211), (248, 18241), (258, 18280), (259, 18292), (261, 18301), (264, 18316), (265, 18319), (287, 18430), (288, 18433), (289, 18442), (290, 18448), (293, 18463), (294, 18466), (296, 18487), (303, 18517), (306, 18529), (310, 18562), (331, 18673), (332, 18676), (339, 18703), (341, 18709), (348, 18763), (349, 18766), (365, 18853), (368, 18868), (370, 18880), (371, 18883), (381, 18949), (386, 18973), (389, 18994), (391, 19003), (400, 19063), (401, 19066), (408, 19102), (409, 19120), (413, 19132), (414, 19141), (419, 19168), (430, 19237), (432, 19255), (434, 19264), (435, 19276), (439, 19312), (444, 19342), (448, 19363), (453, 19387), (458, 19423), (464, 19477), (473, 19537), (479, 19579), (487, 19657), (495, 19714), (499, 19738), (505, 19792), (508, 19840), (514, 19882), (516, 19906), (517, 19909),

Gene: Corndog_61 Start: 37139, Stop: 39649, Start Num: 65

Candidate Starts for Corndog_61:

(Start: 65 @37139 has 28 MA's), (72, 37172), (91, 37241), (92, 37244), (100, 37268), (107, 37292), (114, 37316), (119, 37349), (170, 37556), (173, 37568), (174, 37571), (204, 37718), (205, 37748), (210, 37772), (216, 37802), (217, 37805), (222, 37832), (224, 37856), (233, 37886), (245, 37943), (258, 38003), (259, 38015), (264, 38039), (265, 38042), (271, 38084), (293, 38180), (294, 38183), (344, 38438), (368, 38582), (378, 38642), (388, 38714), (389, 38717), (405, 38813), (432, 38987), (435, 39008), (449, 39101), (452, 39113), (464, 39203), (477, 39278), (486, 39323), (510, 39524), (515, 39578), (520, 39593),

Gene: Cornie_20 Start: 18264, Stop: 20744, Start Num: 53

Candidate Starts for Cornie_20:

(Start: 53 @18264 has 1 MA's), (55, 18270), (59, 18276), (Start: 84 @18339 has 125 MA's), (85, 18342), (90, 18369), (109, 18423), (111, 18432), (119, 18465), (128, 18498), (138, 18531), (153, 18570), (161, 18585), (169, 18621), (172, 18627), (173, 18630), (179, 18648), (184, 18660), (188, 18672), (192, 18696), (193, 18699), (207, 18804), (211, 18828), (215, 18843), (218, 18852), (222, 18876), (223, 18882), (224, 18900), (228, 18912), (230, 18918), (232, 18924), (233, 18930), (234, 18933), (237, 18942), (238, 18951), (240, 18966), (248, 19002), (258, 19041), (259, 19053), (261, 19062), (278, 19146), (294, 19227), (295, 19236), (299, 19260), (306, 19290), (311, 19326), (320, 19377), (321, 19386), (323, 19389), (329, 19416), (330, 19425), (334, 19446), (343, 19482), (348, 19524), (349, 19527), (362, 19581), (370, 19641), (383, 19728), (386, 19734), (389, 19755), (396, 19791), (404, 19845), (407, 19854), (418, 19932), (421, 19950), (425, 19986), (426, 19989), (430, 20007), (432, 20025), (439, 20082), (441, 20094), (453, 20157), (458, 20190), (467, 20277), (476, 20325), (478, 20349), (482, 20376), (483, 20385), (486, 20424), (492, 20463), (495, 20487), (498, 20508), (508, 20604), (511, 20625), (518, 20685), (520, 20688), (524, 20715),

Gene: Cornucopia_19 Start: 17435, Stop: 19972, Start Num: 52

Candidate Starts for Cornucopia_19:

(Start: 52 @17435 has 221 MA's), (59, 17456), (Start: 69 @17477 has 1 MA's), (78, 17516), (104, 17585), (106, 17594), (107, 17597), (111, 17615), (124, 17663), (166, 17816), (169, 17825), (186, 17870), (200, 17969), (201, 17972), (210, 18038), (222, 18113), (223, 18119), (224, 18137), (232, 18161), (234, 18170), (240, 18203), (242, 18209), (248, 18239), (254, 18260), (258, 18278), (259, 18290), (261, 18299), (264, 18314), (265, 18317), (287, 18428), (288, 18431), (289, 18440), (290, 18446), (293, 18461), (294, 18464), (296, 18485), (303, 18515), (306, 18527), (310, 18560), (331, 18671), (332, 18674), (339, 18701), (341, 18707), (348, 18761), (349, 18764), (359, 18812), (365, 18851), (368, 18866), (370, 18878), (371, 18881), (373, 18902), (381, 18947), (386, 18971), (391, 19001), (397, 19043), (400, 19061), (401, 19064), (408, 19100), (409, 19118), (413, 19130), (414, 19139), (420, 19172), (430, 19235), (432, 19253), (434, 19262), (435, 19274), (444, 19340), (448, 19361), (453, 19385), (458, 19421), (464, 19475), (473, 19535), (479, 19577), (487, 19655), (495, 19712), (499, 19736), (505, 19790), (508, 19838), (514, 19880), (516, 19904), (517, 19907),

Gene: Cosmo_43 Start: 28347, Stop: 30914, Start Num: 51

Candidate Starts for Cosmo_43:

(Start: 51 @28347 has 6 MA's), (70, 28416), (110, 28539), (111, 28545), (113, 28548), (117, 28572), (122, 28593), (165, 28749), (167, 28755), (169, 28761), (177, 28791), (179, 28797), (186, 28818), (187, 28827), (196, 28887), (202, 28923), (206, 28965), (223, 29064), (229, 29097), (233, 29112), (234, 29115), (242, 29154), (254, 29205), (258, 29223), (261, 29244), (262, 29250), (268, 29277), (271, 29304), (287, 29373), (292, 29397), (295, 29418), (298, 29439), (301, 29448), (306, 29469), (310, 29502), (311, 29505), (320, 29556), (323, 29568), (337, 29634), (342, 29652), (347, 29691), (368, 29808), (375, 29853), (384, 29910), (389, 29934), (391, 29943), (393, 29961), (400, 30006), (407, 30039), (411, 30075), (438, 30249), (439, 30267), (440, 30273), (450, 30330), (494, 30654), (497, 30672), (502, 30723), (509, 30786), (516, 30861),

Gene: Courthouse_36 Start: 27742, Stop: 30249, Start Num: 52

Candidate Starts for Courthouse_36:

(Start: 52 @27742 has 221 MA's), (111, 27937), (119, 27973), (124, 27988), (153, 28075), (161, 28090), (184, 28165), (188, 28177), (193, 28204), (207, 28309), (215, 28348), (218, 28357), (222, 28381), (223, 28387), (224, 28405), (230, 28423), (234, 28438), (237, 28447), (238, 28456), (240, 28471), (247, 28498), (248, 28507), (258, 28546), (259, 28558), (261, 28567), (278, 28651), (294, 28732), (298, 28762), (299, 28765), (306, 28795), (309, 28822), (311, 28831), (320, 28882), (321, 28891), (323, 28894), (330, 28930), (334, 28951), (343, 28987), (369, 29140), (378, 29194), (386, 29239), (388, 29257), (389, 29260), (396, 29299), (418, 29446), (420, 29455), (431, 29524), (432, 29539), (458, 29704), (467, 29791), (476, 29839), (483, 29890), (492, 29968), (518, 30190), (520, 30193), (524, 30220),

Gene: CrystalP_26 Start: 22284, Stop: 24680, Start Num: 84

Candidate Starts for CrystalP_26:

(Start: 84 @22284 has 125 MA's), (133, 22461), (141, 22482), (190, 22629), (211, 22770), (217, 22803), (222, 22836), (228, 22872), (248, 22965), (261, 23025), (265, 23043), (281, 23124), (323, 23352), (331, 23397), (368, 23592), (369, 23598), (371, 23607), (378, 23652), (380, 23667), (408, 23823), (409, 23841), (412, 23850), (432, 23979), (433, 23982), (463, 24192), (465, 24204), (483, 24318), (508, 24534), (517, 24618), (522, 24642), (524, 24651),

Gene: Czyszczone1_27 Start: 22029, Stop: 24425, Start Num: 84

Candidate Starts for Czyszczone1_27:

(Start: 84 @22029 has 125 MA's), (133, 22206), (141, 22227), (190, 22374), (217, 22548), (222, 22581), (228, 22617), (248, 22710), (261, 22770), (265, 22788), (291, 22920), (298, 22965), (323, 23097), (331, 23142), (346, 23202), (364, 23316), (368, 23337), (374, 23376), (378, 23397), (380, 23412), (407, 23562), (408, 23568), (409, 23586), (420, 23640), (432, 23724), (447, 23817), (483, 24063), (508, 24279), (517, 24363), (524, 24396),

Gene: DLane_18 Start: 17386, Stop: 19923, Start Num: 52

Candidate Starts for DLane_18:

(49, 17374), (Start: 52 @17386 has 221 MA's), (59, 17407), (Start: 69 @17428 has 1 MA's), (78, 17467), (104, 17536), (106, 17545), (107, 17548), (111, 17566), (119, 17599), (124, 17614), (137, 17662), (168, 17773), (169, 17776), (179, 17806), (182, 17809), (186, 17821), (197, 17899), (201, 17923), (210, 17989), (218, 18034), (222, 18064), (223, 18070), (224, 18088), (232, 18112), (234, 18121), (240, 18154), (242, 18160), (248, 18190), (259, 18241), (261, 18250), (264, 18265), (265, 18268), (287, 18379), (288, 18382), (289, 18391), (290, 18397), (293, 18412), (294, 18415), (296, 18436), (303, 18466), (306, 18478), (310, 18511), (331, 18622), (332, 18625), (339, 18652), (341, 18658), (348, 18712), (349, 18715), (368, 18817), (370, 18829), (371, 18832), (381, 18898), (386, 18922), (389, 18943), (391, 18952), (400, 19012), (401, 19015), (408, 19051), (409, 19069), (413, 19081), (414, 19090), (419, 19117), (430, 19186), (432, 19204), (434, 19213), (435, 19225), (439, 19261), (444, 19291), (448, 19312), (453, 19336), (458, 19372), (464, 19426), (473, 19486), (479, 19528), (487, 19606), (495, 19663), (499, 19687), (505, 19741), (508, 19789), (514, 19831), (516, 19855), (517, 19858),

Gene: DRBy19_18 Start: 17429, Stop: 19966, Start Num: 52

Candidate Starts for DRBy19_18:

(Start: 52 @17429 has 221 MA's), (59, 17450), (Start: 69 @17471 has 1 MA's), (78, 17510), (104, 17579), (106, 17588), (107, 17591), (111, 17609), (124, 17657), (166, 17810), (169, 17819), (186, 17864), (197, 17942), (201, 17966), (210, 18032), (218, 18077), (222, 18107), (223, 18113), (224, 18131), (232, 18155), (234, 18164), (240, 18197), (242, 18203), (248, 18233), (258, 18272), (261, 18293), (264, 18308), (265, 18311), (288, 18425), (289, 18434), (290, 18440), (294, 18458), (296, 18479), (303, 18509), (306, 18521), (310, 18554), (331, 18665), (332, 18668), (339, 18695), (341, 18701), (348, 18755), (349, 18758), (365, 18845), (368, 18860), (371, 18875), (386, 18965), (389, 18986), (391, 18995), (400, 19055), (401, 19058), (408, 19094), (409, 19112), (413, 19124), (414, 19133), (419, 19160), (430, 19229), (432, 19247), (434, 19256), (435, 19268), (439, 19304), (444, 19334), (448, 19355), (453, 19379), (458, 19415), (464, 19469), (479, 19571), (487, 19649), (495, 19706), (499, 19730), (505, 19784), (508, 19832), (514, 19874), (519, 19907), (520, 19910),

Gene: DaWorst_20 Start: 17930, Stop: 20467, Start Num: 52

Candidate Starts for DaWorst_20:

(Start: 52 @17930 has 221 MA's), (59, 17951), (Start: 69 @17972 has 1 MA's), (78, 18011), (104, 18080), (106, 18089), (107, 18092), (111, 18110), (119, 18143), (124, 18158), (168, 18317), (169, 18320), (179, 18350), (186, 18365), (197, 18443), (200, 18464), (201, 18467), (210, 18533), (222, 18608), (223, 18614), (232, 18656), (233, 18662), (234, 18665), (240, 18698), (242, 18704), (248, 18734), (254, 18755), (259, 18785), (261, 18794), (284, 18902), (286, 18914), (287, 18923), (288, 18926), (289, 18935), (290, 18941), (293, 18956), (294, 18959), (296, 18980), (306, 19022), (310, 19055), (339, 19196), (341, 19202), (348, 19256), (349, 19259), (352, 19286), (365, 19346), (368, 19361), (370, 19373), (371, 19376), (381, 19442), (386, 19466), (389, 19487), (391, 19496), (400, 19556), (401, 19559), (408, 19595), (409, 19613), (413, 19625), (414, 19634), (419, 19661), (430, 19730), (432, 19748), (434, 19757), (435, 19769), (439, 19805), (444, 19835), (458, 19916), (464, 19970), (473, 20030), (479, 20072), (487, 20150), (495, 20207), (499, 20231), (505, 20285), (508, 20333), (514, 20375), (516, 20399), (517, 20402),

Gene: DaddyRickover_18 Start: 17568, Stop: 20105, Start Num: 52

Candidate Starts for DaddyRickover_18:

(49, 17556), (Start: 52 @17568 has 221 MA's), (59, 17589), (Start: 69 @17610 has 1 MA's), (78, 17649), (104, 17718), (106, 17727), (107, 17730), (111, 17748), (124, 17796), (137, 17844), (168, 17955), (169, 17958), (186, 18003), (197, 18081), (201, 18105), (210, 18171), (218, 18216), (222, 18246), (223, 18252), (224, 18270), (232, 18294), (234, 18303), (240, 18336), (242, 18342), (248, 18372), (258, 18411), (259, 18423), (261, 18432), (264, 18447), (265, 18450), (287, 18561), (288, 18564), (289, 18573), (290, 18579), (293, 18594), (294, 18597), (296, 18618), (303, 18648), (306,

18660), (310, 18693), (331, 18804), (332, 18807), (339, 18834), (341, 18840), (348, 18894), (349, 18897), (368, 18999), (370, 19011), (371, 19014), (381, 19080), (386, 19104), (389, 19125), (391, 19134), (400, 19194), (401, 19197), (408, 19233), (409, 19251), (414, 19272), (419, 19299), (430, 19368), (432, 19386), (434, 19395), (435, 19407), (439, 19443), (448, 19494), (451, 19512), (458, 19554), (464, 19608), (479, 19710), (495, 19845), (499, 19869), (505, 19923), (511, 19992), (516, 20037), (517, 20040),

Gene: Daenerys_18 Start: 17400, Stop: 19937, Start Num: 52

Candidate Starts for Daenerys_18:

(49, 17388), (Start: 52 @17400 has 221 MA's), (59, 17421), (Start: 69 @17442 has 1 MA's), (78, 17481), (104, 17550), (106, 17559), (107, 17562), (111, 17580), (124, 17628), (137, 17676), (168, 17787), (169, 17790), (186, 17835), (197, 17913), (201, 17937), (210, 18003), (218, 18048), (222, 18078), (223, 18084), (224, 18102), (232, 18126), (234, 18135), (240, 18168), (242, 18174), (248, 18204), (258, 18243), (259, 18255), (261, 18264), (264, 18279), (265, 18282), (287, 18393), (288, 18396), (289, 18405), (290, 18411), (293, 18426), (294, 18429), (296, 18450), (303, 18480), (306, 18492), (310, 18525), (331, 18636), (332, 18639), (339, 18666), (341, 18672), (348, 18726), (349, 18729), (368, 18831), (370, 18843), (371, 18846), (381, 18912), (386, 18936), (389, 18957), (391, 18966), (400, 19026), (401, 19029), (408, 19065), (409, 19083), (414, 19104), (419, 19131), (430, 19200), (432, 19218), (434, 19227), (435, 19239), (439, 19275), (448, 19326), (451, 19344), (458, 19386), (464, 19440), (479, 19542), (495, 19677), (499, 19701), (505, 19755), (511, 19824), (516, 19869), (517, 19872),

Gene: Daikon_24 Start: 22021, Stop: 24417, Start Num: 84

Candidate Starts for Daikon_24:

(Start: 84 @22021 has 125 MA's), (133, 22198), (141, 22219), (190, 22366), (211, 22507), (217, 22540), (222, 22573), (228, 22609), (248, 22702), (261, 22762), (265, 22780), (295, 22936), (298, 22957), (320, 23077), (323, 23089), (331, 23134), (368, 23329), (371, 23344), (378, 23389), (380, 23404), (408, 23560), (409, 23578), (412, 23587), (432, 23716), (433, 23719), (463, 23929), (465, 23941), (483, 24055), (508, 24271), (517, 24355), (522, 24379), (524, 24388),

Gene: Damien_29 Start: 25682, Stop: 28525, Start Num: 22

Candidate Starts for Damien_29:

(Start: 22 @25682 has 8 MA's), (38, 25814), (40, 25826), (43, 25835), (Start: 54 @25904 has 3 MA's), (Start: 57 @25910 has 2 MA's), (73, 25970), (83, 25991), (93, 26039), (106, 26081), (113, 26105), (118, 26138), (127, 26174), (131, 26186), (157, 26279), (169, 26336), (181, 26375), (203, 26501), (211, 26570), (216, 26600), (223, 26642), (234, 26693), (254, 26783), (258, 26801), (271, 26882), (281, 26921), (286, 26942), (310, 27080), (317, 27119), (330, 27182), (349, 27284), (388, 27509), (445, 27872), (449, 27899), (489, 28142), (493, 28175), (496, 28199), (508, 28319), (518, 28397), (529, 28484), (530, 28499), (531, 28505),

Gene: Dante_18 Start: 17416, Stop: 19953, Start Num: 52

Candidate Starts for Dante_18:

(49, 17404), (Start: 52 @17416 has 221 MA's), (59, 17437), (Start: 69 @17458 has 1 MA's), (78, 17497), (104, 17566), (106, 17575), (107, 17578), (111, 17596), (119, 17629), (124, 17644), (137, 17692), (166, 17797), (168, 17803), (169, 17806), (184, 17848), (186, 17851), (197, 17929), (201, 17953), (210, 18019), (218, 18064), (222, 18094), (223, 18100), (224, 18118), (232, 18142), (234, 18151), (240, 18184), (242, 18190), (248, 18220), (258, 18259), (259, 18271), (261, 18280), (264, 18295), (265, 18298), (287, 18409), (288, 18412), (289, 18421), (290, 18427), (293, 18442), (294, 18445), (296, 18466), (303, 18496), (310, 18541), (331, 18652), (332, 18655), (339, 18682), (341, 18688), (348, 18742), (349, 18745), (368, 18847), (370, 18859), (371, 18862), (381, 18928), (386, 18952), (389, 18973), (391, 18982), (400, 19042), (401, 19045), (408, 19081), (409, 19099), (413, 19111), (414, 19120), (419, 19147), (430, 19216), (432, 19234), (434, 19243), (435, 19255), (439, 19291), (444, 19321), (448, 19342), (453, 19366), (458, 19402), (464, 19456), (473, 19516), (479,

19558), (487, 19636), (495, 19693), (499, 19717), (505, 19771), (508, 19819), (514, 19861), (516, 19885), (517, 19888),

Gene: DeadP_18 Start: 17430, Stop: 19967, Start Num: 52

Candidate Starts for DeadP_18:

(49, 17418), (Start: 52 @17430 has 221 MA's), (59, 17451), (Start: 69 @17472 has 1 MA's), (78, 17511), (104, 17580), (106, 17589), (107, 17592), (111, 17610), (119, 17643), (124, 17658), (137, 17706), (166, 17811), (168, 17817), (169, 17820), (184, 17862), (186, 17865), (197, 17943), (210, 18033), (218, 18078), (222, 18108), (223, 18114), (224, 18132), (232, 18156), (234, 18165), (240, 18198), (242, 18204), (248, 18234), (258, 18273), (259, 18285), (261, 18294), (264, 18309), (265, 18312), (287, 18423), (288, 18426), (289, 18435), (290, 18441), (293, 18456), (294, 18459), (296, 18480), (303, 18510), (306, 18522), (310, 18555), (331, 18666), (332, 18669), (339, 18696), (341, 18702), (348, 18756), (349, 18759), (365, 18846), (368, 18861), (370, 18873), (371, 18876), (381, 18942), (386, 18966), (389, 18987), (391, 18996), (400, 19056), (401, 19059), (408, 19095), (409, 19113), (413, 19125), (414, 19134), (419, 19161), (430, 19230), (432, 19248), (434, 19257), (435, 19269), (439, 19305), (444, 19335), (448, 19356), (453, 19380), (458, 19416), (464, 19470), (473, 19530), (479, 19572), (495, 19707), (499, 19731), (505, 19785), (508, 19833), (514, 19875), (516, 19899), (517, 19902),

Gene: Deb65_18 Start: 17397, Stop: 19934, Start Num: 52

Candidate Starts for Deb65_18:

(Start: 52 @17397 has 221 MA's), (59, 17418), (Start: 69 @17439 has 1 MA's), (78, 17478), (104, 17547), (106, 17556), (107, 17559), (111, 17577), (124, 17625), (137, 17673), (168, 17784), (169, 17787), (186, 17832), (197, 17910), (201, 17934), (210, 18000), (222, 18075), (223, 18081), (224, 18099), (232, 18123), (234, 18132), (240, 18165), (242, 18171), (248, 18201), (254, 18222), (259, 18252), (261, 18261), (284, 18369), (286, 18381), (287, 18390), (288, 18393), (290, 18408), (293, 18423), (294, 18426), (296, 18447), (306, 18489), (310, 18522), (331, 18633), (332, 18636), (339, 18663), (341, 18669), (348, 18723), (349, 18726), (352, 18753), (368, 18828), (370, 18840), (371, 18843), (381, 18909), (384, 18930), (386, 18933), (389, 18954), (391, 18963), (397, 19005), (400, 19023), (401, 19026), (407, 19056), (409, 19080), (413, 19092), (414, 19101), (430, 19197), (432, 19215), (434, 19224), (435, 19236), (439, 19272), (444, 19302), (447, 19311), (448, 19323), (458, 19383), (464, 19437), (473, 19497), (479, 19539), (495, 19674), (499, 19698), (505, 19752), (508, 19800), (514, 19842), (516, 19866), (517, 19869),

Gene: Delton_30 Start: 24328, Stop: 26598, Start Num: 145

Candidate Starts for Delton_30:

(Start: 145 @24328 has 21 MA's), (176, 24463), (178, 24472), (205, 24646), (206, 24652), (209, 24664), (236, 24817), (239, 24832), (241, 24847), (314, 25228), (316, 25234), (326, 25279), (343, 25366), (377, 25567), (378, 25573), (385, 25621), (391, 25651), (393, 25675), (422, 25864), (425, 25891), (434, 25939), (443, 26011), (450, 26050), (454, 26071), (455, 26086), (459, 26104), (461, 26134), (475, 26218), (503, 26419), (508, 26461), (527, 26587),

Gene: Demsculpinboyz_24 Start: 17086, Stop: 19635, Start Num: 44

Candidate Starts for Demsculpinboyz_24:

(41, 17077), (Start: 44 @17086 has 7 MA's), (Start: 52 @17146 has 221 MA's), (63, 17179), (64, 17182), (89, 17251), (97, 17281), (153, 17461), (161, 17476), (169, 17512), (172, 17518), (179, 17539), (188, 17563), (192, 17587), (215, 17734), (218, 17743), (222, 17767), (224, 17791), (232, 17815), (233, 17821), (238, 17842), (242, 17863), (248, 17893), (256, 17923), (259, 17944), (278, 18037), (281, 18052), (284, 18061), (285, 18070), (287, 18082), (288, 18085), (303, 18169), (304, 18172), (306, 18181), (309, 18208), (311, 18217), (318, 18256), (321, 18277), (323, 18280), (330, 18316), (334, 18337), (348, 18415), (349, 18418), (370, 18532), (383, 18619), (386, 18625), (389, 18646), (396, 18682), (404, 18736), (407, 18745), (418, 18823), (421, 18841), (425, 18877), (426, 18880), (430, 18898), (432, 18916), (439, 18973), (441, 18985), (453, 19048), (458, 19081), (467,

19168), (476, 19216), (478, 19240), (483, 19276), (486, 19315), (492, 19354), (495, 19378), (498, 19399), (508, 19495), (511, 19516), (518, 19576), (520, 19579), (524, 19606),

Gene: DillTech15_18 Start: 17434, Stop: 19971, Start Num: 52

Candidate Starts for DillTech15_18:

(Start: 52 @17434 has 221 MA's), (59, 17455), (Start: 69 @17476 has 1 MA's), (78, 17515), (104, 17584), (106, 17593), (107, 17596), (111, 17614), (119, 17647), (124, 17662), (166, 17815), (169, 17824), (186, 17869), (200, 17968), (201, 17971), (210, 18037), (218, 18082), (222, 18112), (223, 18118), (224, 18136), (232, 18160), (233, 18166), (234, 18169), (240, 18202), (242, 18208), (248, 18238), (258, 18277), (259, 18289), (261, 18298), (264, 18313), (265, 18316), (287, 18427), (288, 18430), (289, 18439), (290, 18445), (293, 18460), (294, 18463), (296, 18484), (303, 18514), (306, 18526), (310, 18559), (331, 18670), (332, 18673), (339, 18700), (341, 18706), (348, 18760), (349, 18763), (365, 18850), (368, 18865), (370, 18877), (371, 18880), (381, 18946), (386, 18970), (389, 18991), (391, 19000), (400, 19060), (401, 19063), (408, 19099), (409, 19117), (413, 19129), (414, 19138), (419, 19165), (430, 19234), (432, 19252), (434, 19261), (435, 19273), (439, 19309), (444, 19339), (447, 19348), (448, 19360), (453, 19384), (458, 19420), (464, 19474), (473, 19534), (479, 19576), (495, 19711), (499, 19735), (505, 19789), (508, 19837), (514, 19879), (516, 19903), (517, 19906),

Gene: DirtMcgirt_19 Start: 17221, Stop: 19758, Start Num: 52

Candidate Starts for DirtMcgirt_19:

(49, 17209), (Start: 52 @17221 has 221 MA's), (59, 17242), (Start: 69 @17263 has 1 MA's), (78, 17302), (104, 17371), (106, 17380), (107, 17383), (111, 17401), (119, 17434), (124, 17449), (137, 17497), (166, 17602), (169, 17611), (184, 17653), (186, 17656), (197, 17734), (201, 17758), (210, 17824), (218, 17869), (222, 17899), (223, 17905), (224, 17923), (232, 17947), (234, 17956), (240, 17989), (242, 17995), (248, 18025), (258, 18064), (259, 18076), (261, 18085), (264, 18100), (265, 18103), (287, 18214), (289, 18226), (290, 18232), (293, 18247), (294, 18250), (296, 18271), (303, 18301), (306, 18313), (310, 18346), (331, 18457), (332, 18460), (339, 18487), (341, 18493), (348, 18547), (349, 18550), (352, 18577), (368, 18652), (370, 18664), (371, 18667), (381, 18733), (386, 18757), (391, 18787), (397, 18829), (400, 18847), (401, 18850), (408, 18886), (409, 18904), (414, 18925), (419, 18952), (430, 19021), (432, 19039), (434, 19048), (435, 19060), (439, 19096), (444, 19126), (447, 19135), (448, 19147), (458, 19207), (464, 19261), (473, 19321), (479, 19363), (487, 19441), (495, 19498), (499, 19522), (505, 19576), (508, 19624), (514, 19666), (516, 19690), (517, 19693),

Gene: DmpstrDiver_37 Start: 30383, Stop: 32890, Start Num: 52

Candidate Starts for DmpstrDiver_37:

(46, 30326), (Start: 52 @30383 has 221 MA's), (111, 30578), (119, 30614), (124, 30629), (138, 30677), (161, 30731), (169, 30767), (172, 30773), (173, 30776), (179, 30794), (184, 30806), (188, 30818), (193, 30845), (207, 30950), (215, 30989), (218, 30998), (222, 31022), (223, 31028), (224, 31046), (230, 31064), (234, 31079), (237, 31088), (238, 31097), (240, 31112), (247, 31139), (248, 31148), (258, 31187), (259, 31199), (261, 31208), (278, 31292), (294, 31373), (298, 31403), (299, 31406), (306, 31436), (309, 31463), (311, 31472), (320, 31523), (321, 31532), (323, 31535), (330, 31571), (334, 31592), (343, 31628), (369, 31781), (378, 31835), (386, 31880), (388, 31898), (389, 31901), (396, 31940), (418, 32087), (420, 32096), (431, 32165), (432, 32180), (458, 32345), (467, 32432), (476, 32480), (483, 32531), (492, 32609), (518, 32831), (520, 32834), (524, 32861),

Gene: DoRead_18 Start: 17366, Stop: 19891, Start Num: 52

Candidate Starts for DoRead_18:

(Start: 52 @17366 has 221 MA's), (59, 17387), (86, 17456), (104, 17516), (106, 17525), (107, 17528), (111, 17546), (124, 17594), (137, 17642), (168, 17753), (169, 17756), (175, 17777), (180, 17789), (186, 17801), (197, 17879), (205, 17945), (211, 17978), (219, 18032), (222, 18044), (232, 18092), (233, 18098), (234, 18101), (237, 18110), (243, 18143), (252, 18182), (254, 18185), (257, 18200),

(262, 18230), (263, 18236), (264, 18239), (265, 18242), (270, 18269), (272, 18287), (274, 18290), (285, 18341), (286, 18344), (289, 18365), (290, 18371), (291, 18374), (293, 18386), (294, 18389), (297, 18416), (303, 18440), (306, 18452), (320, 18539), (332, 18602), (334, 18611), (340, 18635), (359, 18740), (361, 18743), (368, 18794), (369, 18800), (370, 18806), (371, 18809), (378, 18854), (380, 18869), (384, 18896), (389, 18920), (391, 18929), (400, 18989), (401, 18992), (402, 19004), (409, 19046), (413, 19058), (420, 19100), (440, 19244), (451, 19307), (460, 19382), (490, 19583), (513, 19793), (519, 19832), (520, 19835),

Gene: DocMcStuffins_19 Start: 17271, Stop: 19796, Start Num: 52

Candidate Starts for DocMcStuffins_19:

(Start: 52 @17271 has 221 MA's), (59, 17292), (Start: 69 @17313 has 1 MA's), (78, 17352), (104, 17421), (106, 17430), (107, 17433), (111, 17451), (119, 17484), (124, 17499), (137, 17547), (168, 17658), (169, 17661), (186, 17706), (197, 17784), (201, 17808), (210, 17874), (211, 17883), (222, 17949), (223, 17955), (224, 17973), (232, 17997), (233, 18003), (234, 18006), (240, 18039), (242, 18045), (248, 18075), (254, 18096), (261, 18135), (264, 18150), (266, 18156), (294, 18300), (303, 18351), (322, 18462), (332, 18513), (338, 18537), (352, 18630), (363, 18675), (364, 18684), (368, 18705), (370, 18717), (371, 18720), (378, 18765), (386, 18810), (388, 18828), (389, 18831), (397, 18882), (407, 18933), (408, 18939), (409, 18957), (413, 18969), (414, 18978), (420, 19011), (432, 19092), (441, 19161), (447, 19188), (450, 19215), (459, 19266), (464, 19314), (498, 19557), (508, 19662), (511, 19683), (519, 19737), (523, 19761),

Gene: DoctorDiddles_26 Start: 21446, Stop: 23842, Start Num: 84

Candidate Starts for DoctorDiddles_26:

(Start: 84 @21446 has 125 MA's), (133, 21623), (141, 21644), (190, 21791), (217, 21965), (222, 21998), (228, 22034), (248, 22127), (261, 22187), (265, 22205), (291, 22337), (298, 22382), (323, 22514), (331, 22559), (346, 22619), (364, 22733), (368, 22754), (374, 22793), (378, 22814), (380, 22829), (407, 22979), (408, 22985), (409, 23003), (420, 23057), (432, 23141), (447, 23234), (483, 23480), (508, 23696), (517, 23780), (524, 23813),

Gene: Donkeykong_18 Start: 17574, Stop: 20111, Start Num: 52

Candidate Starts for Donkeykong_18:

(49, 17562), (Start: 52 @17574 has 221 MA's), (59, 17595), (Start: 69 @17616 has 1 MA's), (78, 17655), (104, 17724), (106, 17733), (107, 17736), (111, 17754), (119, 17787), (124, 17802), (137, 17850), (168, 17961), (169, 17964), (179, 17994), (184, 18006), (186, 18009), (197, 18087), (201, 18111), (210, 18177), (218, 18222), (222, 18252), (223, 18258), (224, 18276), (232, 18300), (234, 18309), (240, 18342), (242, 18348), (248, 18378), (258, 18417), (259, 18429), (261, 18438), (264, 18453), (265, 18456), (287, 18567), (288, 18570), (289, 18579), (290, 18585), (293, 18600), (294, 18603), (296, 18624), (303, 18654), (306, 18666), (310, 18699), (323, 18765), (331, 18810), (332, 18813), (339, 18840), (341, 18846), (348, 18900), (349, 18903), (368, 19005), (370, 19017), (371, 19020), (381, 19086), (386, 19110), (389, 19131), (391, 19140), (400, 19200), (401, 19203), (408, 19239), (409, 19257), (413, 19269), (414, 19278), (419, 19305), (430, 19374), (432, 19392), (434, 19401), (435, 19413), (439, 19449), (444, 19479), (448, 19500), (453, 19524), (458, 19560), (464, 19614), (473, 19674), (479, 19716), (487, 19794), (495, 19851), (499, 19875), (505, 19929), (508, 19977), (514, 20019), (516, 20043), (517, 20046),

Gene: Doomphist_18 Start: 17534, Stop: 20071, Start Num: 52

Candidate Starts for Doomphist_18:

(Start: 52 @17534 has 221 MA's), (59, 17555), (Start: 69 @17576 has 1 MA's), (78, 17615), (104, 17684), (106, 17693), (107, 17696), (111, 17714), (124, 17762), (168, 17921), (169, 17924), (186, 17969), (197, 18047), (201, 18071), (210, 18137), (222, 18212), (223, 18218), (224, 18236), (232, 18260), (233, 18266), (234, 18269), (240, 18302), (242, 18308), (248, 18338), (254, 18359), (259, 18389), (261, 18398), (284, 18506), (286, 18518), (287, 18527), (288, 18530), (290, 18545), (293, 18560), (294, 18563), (296, 18584), (306, 18626), (310, 18659), (331, 18770), (332, 18773), (339,

18800), (341, 18806), (348, 18860), (349, 18863), (352, 18890), (368, 18965), (370, 18977), (371, 18980), (381, 19046), (384, 19067), (386, 19070), (389, 19091), (391, 19100), (400, 19160), (401, 19163), (408, 19199), (409, 19217), (413, 19229), (414, 19238), (419, 19265), (429, 19322), (430, 19334), (432, 19352), (434, 19361), (435, 19373), (439, 19409), (444, 19439), (447, 19448), (448, 19460), (458, 19520), (464, 19574), (473, 19634), (479, 19676), (495, 19811), (499, 19835), (505, 19889), (508, 19937), (514, 19979), (516, 20003), (517, 20006),

Gene: Dorothy_18 Start: 17358, Stop: 19895, Start Num: 52

Candidate Starts for Dorothy_18:

(49, 17346), (Start: 52 @17358 has 221 MA's), (59, 17379), (Start: 69 @17400 has 1 MA's), (78, 17439), (104, 17508), (106, 17517), (107, 17520), (111, 17538), (124, 17586), (137, 17634), (168, 17745), (169, 17748), (186, 17793), (197, 17871), (201, 17895), (210, 17961), (218, 18006), (222, 18036), (223, 18042), (224, 18060), (232, 18084), (234, 18093), (240, 18126), (242, 18132), (248, 18162), (258, 18201), (259, 18213), (261, 18222), (264, 18237), (265, 18240), (287, 18351), (288, 18354), (289, 18363), (290, 18369), (293, 18384), (294, 18387), (296, 18408), (303, 18438), (306, 18450), (310, 18483), (331, 18594), (332, 18597), (339, 18624), (341, 18630), (348, 18684), (349, 18687), (368, 18789), (370, 18801), (371, 18804), (381, 18870), (386, 18894), (389, 18915), (391, 18924), (400, 18984), (401, 18987), (408, 19023), (409, 19041), (414, 19062), (419, 19089), (430, 19158), (432, 19176), (434, 19185), (435, 19197), (439, 19233), (448, 19284), (451, 19302), (458, 19344), (464, 19398), (479, 19500), (495, 19635), (499, 19659), (505, 19713), (511, 19782), (516, 19827), (517, 19830),

Gene: DosHalletts_19 Start: 17327, Stop: 19879, Start Num: 52

Candidate Starts for DosHalletts_19:

(Start: 52 @17327 has 221 MA's), (86, 17417), (104, 17477), (106, 17486), (107, 17489), (111, 17507), (124, 17555), (136, 17600), (168, 17714), (169, 17717), (174, 17729), (180, 17750), (184, 17759), (186, 17762), (197, 17840), (205, 17906), (211, 17939), (218, 17975), (221, 17999), (233, 18059), (234, 18062), (238, 18080), (252, 18143), (254, 18146), (258, 18164), (261, 18185), (265, 18203), (270, 18230), (274, 18251), (281, 18284), (289, 18326), (290, 18332), (291, 18335), (294, 18350), (297, 18377), (298, 18380), (303, 18401), (306, 18413), (310, 18446), (329, 18539), (348, 18647), (351, 18671), (352, 18677), (358, 18695), (359, 18698), (363, 18722), (368, 18752), (372, 18776), (378, 18812), (379, 18818), (380, 18827), (384, 18854), (394, 18917), (397, 18941), (398, 18956), (407, 18998), (415, 19049), (431, 19145), (432, 19160), (434, 19169), (437, 19193), (447, 19256), (453, 19292), (493, 19598), (499, 19643), (508, 19745),

Gene: DotProduct_18 Start: 17408, Stop: 19939, Start Num: 52

Candidate Starts for DotProduct_18:

(49, 17396), (Start: 52 @17408 has 221 MA's), (59, 17429), (Start: 69 @17450 has 1 MA's), (78, 17489), (104, 17558), (106, 17567), (107, 17570), (111, 17588), (119, 17621), (124, 17636), (137, 17678), (168, 17789), (169, 17792), (182, 17825), (184, 17834), (186, 17837), (197, 17915), (210, 18005), (218, 18050), (222, 18080), (223, 18086), (224, 18104), (232, 18128), (234, 18137), (240, 18170), (242, 18176), (248, 18206), (259, 18257), (261, 18266), (264, 18281), (265, 18284), (287, 18395), (288, 18398), (289, 18407), (290, 18413), (293, 18428), (294, 18431), (296, 18452), (303, 18482), (306, 18494), (310, 18527), (331, 18638), (332, 18641), (341, 18674), (348, 18728), (349, 18731), (368, 18833), (370, 18845), (371, 18848), (381, 18914), (386, 18938), (389, 18959), (391, 18968), (400, 19028), (401, 19031), (408, 19067), (409, 19085), (413, 19097), (414, 19106), (419, 19133), (430, 19202), (432, 19220), (434, 19229), (435, 19241), (439, 19277), (444, 19307), (448, 19328), (453, 19352), (458, 19388), (464, 19442), (473, 19502), (479, 19544), (487, 19622), (495, 19679), (499, 19703), (505, 19757), (508, 19805), (514, 19847), (516, 19871), (517, 19874),

Gene: Doug_19 Start: 17950, Stop: 20487, Start Num: 52

Candidate Starts for Doug_19:

(49, 17938), (Start: 52 @17950 has 221 MA's), (59, 17971), (Start: 69 @17992 has 1 MA's), (78, 18031), (104, 18100), (106, 18109), (107, 18112), (111, 18130), (119, 18163), (124, 18178), (137, 18226), (166, 18331), (168, 18337), (169, 18340), (184, 18382), (186, 18385), (197, 18463), (210, 18553), (218, 18598), (222, 18628), (223, 18634), (224, 18652), (232, 18676), (234, 18685), (240, 18718), (242, 18724), (248, 18754), (258, 18793), (259, 18805), (261, 18814), (264, 18829), (265, 18832), (287, 18943), (288, 18946), (289, 18955), (290, 18961), (293, 18976), (294, 18979), (296, 19000), (303, 19030), (306, 19042), (310, 19075), (323, 19141), (331, 19186), (332, 19189), (339, 19216), (341, 19222), (348, 19276), (349, 19279), (365, 19366), (368, 19381), (370, 19393), (371, 19396), (381, 19462), (386, 19486), (389, 19507), (391, 19516), (400, 19576), (401, 19579), (408, 19615), (409, 19633), (413, 19645), (414, 19654), (419, 19681), (430, 19750), (432, 19768), (434, 19777), (435, 19789), (439, 19825), (444, 19855), (448, 19876), (453, 19900), (458, 19936), (464, 19990), (473, 20050), (479, 20092), (487, 20170), (495, 20227), (499, 20251), (505, 20305), (508, 20353), (516, 20419), (517, 20422),

Gene: DrDrey_27 Start: 22776, Stop: 25172, Start Num: 84

Candidate Starts for DrDrey_27:

(Start: 84 @22776 has 125 MA's), (133, 22953), (141, 22974), (190, 23121), (217, 23295), (222, 23328), (228, 23364), (248, 23457), (261, 23517), (265, 23535), (291, 23667), (298, 23712), (323, 23844), (331, 23889), (346, 23949), (364, 24063), (368, 24084), (374, 24123), (378, 24144), (380, 24159), (407, 24309), (408, 24315), (409, 24333), (420, 24387), (432, 24471), (447, 24564), (483, 24810), (508, 25026), (517, 25110), (524, 25143),

Gene: Drago_19 Start: 17219, Stop: 19756, Start Num: 52

Candidate Starts for Drago_19:

(49, 17207), (Start: 52 @17219 has 221 MA's), (59, 17240), (Start: 69 @17261 has 1 MA's), (78, 17300), (104, 17369), (106, 17378), (107, 17381), (111, 17399), (119, 17432), (124, 17447), (137, 17495), (166, 17600), (169, 17609), (184, 17651), (186, 17654), (197, 17732), (201, 17756), (210, 17822), (218, 17867), (222, 17897), (223, 17903), (224, 17921), (232, 17945), (234, 17954), (240, 17987), (242, 17993), (248, 18023), (258, 18062), (259, 18074), (261, 18083), (264, 18098), (265, 18101), (287, 18212), (289, 18224), (290, 18230), (293, 18245), (294, 18248), (296, 18269), (303, 18299), (306, 18311), (310, 18344), (323, 18410), (331, 18455), (332, 18458), (339, 18485), (341, 18491), (348, 18545), (349, 18548), (352, 18575), (368, 18650), (370, 18662), (371, 18665), (381, 18731), (386, 18755), (391, 18785), (397, 18827), (400, 18845), (401, 18848), (408, 18884), (409, 18902), (414, 18923), (419, 18950), (430, 19019), (432, 19037), (434, 19046), (435, 19058), (439, 19094), (444, 19124), (447, 19133), (448, 19145), (458, 19205), (464, 19259), (473, 19319), (479, 19361), (487, 19439), (495, 19496), (499, 19520), (505, 19574), (508, 19622), (514, 19664), (516, 19688), (517, 19691),

Gene: Duke13_36 Start: 29781, Stop: 32336, Start Num: 52

Candidate Starts for Duke13_36:

(45, 29724), (Start: 52 @29781 has 221 MA's), (111, 29976), (119, 30012), (124, 30027), (137, 30075), (168, 30186), (169, 30189), (186, 30234), (197, 30312), (201, 30336), (210, 30402), (218, 30447), (222, 30477), (223, 30483), (224, 30501), (232, 30525), (234, 30534), (240, 30567), (242, 30573), (248, 30603), (258, 30642), (259, 30654), (261, 30663), (264, 30678), (265, 30681), (287, 30792), (288, 30795), (289, 30804), (290, 30810), (293, 30825), (294, 30828), (296, 30849), (303, 30879), (306, 30891), (310, 30924), (331, 31035), (332, 31038), (339, 31065), (341, 31071), (348, 31125), (349, 31128), (368, 31230), (370, 31242), (371, 31245), (381, 31311), (386, 31335), (389, 31356), (391, 31365), (400, 31425), (401, 31428), (408, 31464), (409, 31482), (414, 31503), (419, 31530), (430, 31599), (432, 31617), (434, 31626), (435, 31638), (439, 31674), (448, 31725), (451, 31743), (458, 31785), (464, 31839), (479, 31941), (495, 32076), (499, 32100), (505, 32154), (511, 32223), (516, 32268), (517, 32271),

Gene: Dumbo_26 Start: 21751, Stop: 24147, Start Num: 84

Candidate Starts for Dumbo_26:

(Start: 84 @21751 has 125 MA's), (133, 21928), (141, 21949), (190, 22096), (217, 22270), (222, 22303), (228, 22339), (248, 22432), (261, 22492), (265, 22510), (291, 22642), (298, 22687), (323, 22819), (331, 22864), (346, 22924), (364, 23038), (368, 23059), (374, 23098), (378, 23119), (380, 23134), (407, 23284), (408, 23290), (409, 23308), (420, 23362), (432, 23446), (447, 23539), (483, 23785), (508, 24001), (517, 24085), (524, 24118),

Gene: Dusk_25 Start: 21943, Stop: 24339, Start Num: 84

Candidate Starts for Dusk_25:

(Start: 84 @21943 has 125 MA's), (133, 22120), (141, 22141), (190, 22288), (211, 22429), (217, 22462), (222, 22495), (228, 22531), (248, 22624), (261, 22684), (265, 22702), (281, 22783), (323, 23011), (331, 23056), (368, 23251), (369, 23257), (371, 23266), (378, 23311), (380, 23326), (408, 23482), (409, 23500), (412, 23509), (421, 23563), (432, 23638), (433, 23641), (463, 23851), (465, 23863), (483, 23977), (508, 24193), (517, 24277), (522, 24301), (524, 24310),

Gene: Dylan_58 Start: 36190, Stop: 38700, Start Num: 65

Candidate Starts for Dylan_58:

(Start: 65 @36190 has 28 MA's), (72, 36223), (91, 36292), (92, 36295), (100, 36319), (107, 36343), (114, 36367), (119, 36400), (170, 36607), (173, 36619), (174, 36622), (204, 36769), (205, 36799), (210, 36823), (216, 36853), (217, 36856), (222, 36883), (224, 36907), (233, 36937), (245, 36994), (258, 37054), (259, 37066), (264, 37090), (265, 37093), (271, 37135), (293, 37231), (294, 37234), (344, 37489), (368, 37633), (378, 37693), (388, 37765), (389, 37768), (405, 37864), (432, 38038), (435, 38059), (449, 38152), (452, 38164), (464, 38254), (477, 38329), (486, 38374), (510, 38575), (515, 38629), (520, 38644),

Gene: Easy2Say_28 Start: 23534, Stop: 25930, Start Num: 84

Candidate Starts for Easy2Say_28:

(Start: 84 @23534 has 125 MA's), (133, 23711), (141, 23732), (190, 23879), (211, 24020), (217, 24053), (222, 24086), (228, 24122), (248, 24215), (261, 24275), (265, 24293), (291, 24425), (298, 24470), (323, 24602), (331, 24647), (346, 24707), (364, 24821), (368, 24842), (374, 24881), (378, 24902), (380, 24917), (407, 25067), (408, 25073), (409, 25091), (420, 25145), (432, 25229), (447, 25322), (483, 25568), (508, 25784), (517, 25868), (524, 25901),

Gene: Eish_18 Start: 17540, Stop: 20077, Start Num: 52

Candidate Starts for Eish_18:

(Start: 52 @17540 has 221 MA's), (59, 17561), (Start: 69 @17582 has 1 MA's), (78, 17621), (104, 17690), (106, 17699), (107, 17702), (111, 17720), (119, 17753), (124, 17768), (137, 17816), (166, 17921), (169, 17930), (186, 17975), (197, 18053), (201, 18077), (210, 18143), (222, 18218), (223, 18224), (224, 18242), (232, 18266), (233, 18272), (234, 18275), (240, 18308), (242, 18314), (248, 18344), (254, 18365), (259, 18395), (261, 18404), (284, 18512), (286, 18524), (287, 18533), (288, 18536), (289, 18545), (290, 18551), (293, 18566), (294, 18569), (296, 18590), (303, 18620), (306, 18632), (310, 18665), (311, 18668), (323, 18731), (339, 18806), (341, 18812), (348, 18866), (349, 18869), (352, 18896), (368, 18971), (370, 18983), (371, 18986), (381, 19052), (389, 19097), (391, 19106), (400, 19166), (401, 19169), (408, 19205), (409, 19223), (414, 19244), (430, 19340), (432, 19358), (434, 19367), (435, 19379), (439, 19415), (444, 19445), (458, 19526), (464, 19580), (479, 19682), (495, 19817), (499, 19841), (505, 19895), (508, 19943), (514, 19985), (516, 20009), (517, 20012),

Gene: EleanorGeorge_18 Start: 17568, Stop: 20105, Start Num: 52

Candidate Starts for EleanorGeorge_18:

(49, 17556), (Start: 52 @17568 has 221 MA's), (59, 17589), (Start: 69 @17610 has 1 MA's), (78, 17649), (104, 17718), (106, 17727), (107, 17730), (111, 17748), (119, 17781), (124, 17796), (137, 17844), (168, 17955), (169, 17958), (179, 17988), (184, 18000), (186, 18003), (197, 18081), (201,

18105), (210, 18171), (218, 18216), (222, 18246), (223, 18252), (224, 18270), (232, 18294), (234, 18303), (240, 18336), (242, 18342), (248, 18372), (258, 18411), (259, 18423), (261, 18432), (264, 18447), (265, 18450), (287, 18561), (288, 18564), (289, 18573), (290, 18579), (293, 18594), (294, 18597), (296, 18618), (303, 18648), (306, 18660), (310, 18693), (331, 18804), (332, 18807), (339, 18834), (341, 18840), (348, 18894), (349, 18897), (365, 18984), (368, 18999), (370, 19011), (371, 19014), (381, 19080), (386, 19104), (389, 19125), (391, 19134), (400, 19194), (401, 19197), (408, 19233), (409, 19251), (413, 19263), (414, 19272), (419, 19299), (430, 19368), (432, 19386), (434, 19395), (435, 19407), (439, 19443), (444, 19473), (448, 19494), (453, 19518), (458, 19554), (464, 19608), (473, 19668), (479, 19710), (487, 19788), (495, 19845), (499, 19869), (505, 19923), (508, 19971), (514, 20013), (516, 20037), (517, 20040),

Gene: Elite2014_25 Start: 21491, Stop: 23887, Start Num: 84

Candidate Starts for Elite2014_25:

(Start: 84 @21491 has 125 MA's), (133, 21668), (141, 21689), (190, 21836), (217, 22010), (222, 22043), (228, 22079), (248, 22172), (261, 22232), (265, 22250), (291, 22382), (298, 22427), (323, 22559), (331, 22604), (346, 22664), (364, 22778), (368, 22799), (374, 22838), (378, 22859), (380, 22874), (407, 23024), (408, 23030), (409, 23048), (420, 23102), (432, 23186), (447, 23279), (483, 23525), (508, 23741), (517, 23825), (524, 23858),

Gene: Elph10_27 Start: 21754, Stop: 24150, Start Num: 84

Candidate Starts for Elph10_27:

(Start: 84 @21754 has 125 MA's), (133, 21931), (141, 21952), (190, 22099), (217, 22273), (222, 22306), (228, 22342), (248, 22435), (261, 22495), (265, 22513), (291, 22645), (298, 22690), (323, 22822), (331, 22867), (346, 22927), (364, 23041), (368, 23062), (374, 23101), (378, 23122), (380, 23137), (407, 23287), (408, 23293), (409, 23311), (420, 23365), (432, 23449), (447, 23542), (483, 23788), (508, 24004), (517, 24088), (524, 24121),

Gene: EmiMonkey_18 Start: 17352, Stop: 19889, Start Num: 52

Candidate Starts for EmiMonkey_18:

(Start: 52 @17352 has 221 MA's), (59, 17373), (Start: 69 @17394 has 1 MA's), (78, 17433), (104, 17502), (106, 17511), (107, 17514), (111, 17532), (124, 17580), (166, 17733), (169, 17742), (186, 17787), (200, 17886), (201, 17889), (210, 17955), (222, 18030), (223, 18036), (224, 18054), (232, 18078), (233, 18084), (234, 18087), (240, 18120), (242, 18126), (248, 18156), (254, 18177), (259, 18207), (261, 18216), (264, 18231), (265, 18234), (287, 18345), (288, 18348), (289, 18357), (290, 18363), (293, 18378), (294, 18381), (296, 18402), (303, 18432), (306, 18444), (310, 18477), (331, 18588), (332, 18591), (339, 18618), (341, 18624), (348, 18678), (349, 18681), (368, 18783), (370, 18795), (371, 18798), (381, 18864), (386, 18888), (389, 18909), (391, 18918), (400, 18978), (401, 18981), (408, 19017), (409, 19035), (413, 19047), (414, 19056), (419, 19083), (429, 19140), (430, 19152), (432, 19170), (434, 19179), (435, 19191), (439, 19227), (444, 19257), (447, 19266), (448, 19278), (458, 19338), (464, 19392), (473, 19452), (479, 19494), (495, 19629), (499, 19653), (505, 19707), (508, 19755), (514, 19797), (516, 19821), (517, 19824),

Gene: Emma_18 Start: 17448, Stop: 19985, Start Num: 52

Candidate Starts for Emma_18:

(49, 17436), (Start: 52 @17448 has 221 MA's), (59, 17469), (Start: 69 @17490 has 1 MA's), (78, 17529), (104, 17598), (106, 17607), (107, 17610), (111, 17628), (119, 17661), (124, 17676), (137, 17724), (168, 17835), (169, 17838), (179, 17868), (186, 17883), (197, 17961), (201, 17985), (210, 18051), (218, 18096), (222, 18126), (223, 18132), (224, 18150), (232, 18174), (234, 18183), (240, 18216), (242, 18222), (248, 18252), (258, 18291), (259, 18303), (261, 18312), (264, 18327), (265, 18330), (287, 18441), (288, 18444), (289, 18453), (290, 18459), (293, 18474), (294, 18477), (296, 18498), (303, 18528), (306, 18540), (310, 18573), (323, 18639), (331, 18684), (332, 18687), (339, 18714), (341, 18720), (348, 18774), (349, 18777), (365, 18864), (368, 18879), (370, 18891), (371, 18894), (381, 18960), (386, 18984), (389, 19005), (391, 19014), (397, 19056), (400, 19074), (401,

19077), (408, 19113), (409, 19131), (413, 19143), (414, 19152), (419, 19179), (430, 19248), (432, 19266), (434, 19275), (435, 19287), (439, 19323), (444, 19353), (448, 19374), (453, 19398), (458, 19434), (464, 19488), (473, 19548), (479, 19590), (495, 19725), (499, 19749), (505, 19803), (508, 19851), (514, 19893), (516, 19917), (517, 19920),

Gene: Emmaloid_20 Start: 17189, Stop: 19726, Start Num: 52

Candidate Starts for Emmaloid_20:

(Start: 52 @17189 has 221 MA's), (59, 17210), (Start: 69 @17231 has 1 MA's), (78, 17270), (104, 17339), (106, 17348), (107, 17351), (111, 17369), (124, 17417), (166, 17570), (169, 17579), (186, 17624), (200, 17723), (201, 17726), (210, 17792), (222, 17867), (223, 17873), (224, 17891), (232, 17915), (233, 17921), (234, 17924), (240, 17957), (242, 17963), (248, 17993), (254, 18014), (259, 18044), (261, 18053), (264, 18068), (265, 18071), (287, 18182), (288, 18185), (289, 18194), (290, 18200), (293, 18215), (294, 18218), (296, 18239), (303, 18269), (306, 18281), (310, 18314), (331, 18425), (332, 18428), (339, 18455), (341, 18461), (348, 18515), (349, 18518), (368, 18620), (370, 18632), (371, 18635), (381, 18701), (386, 18725), (389, 18746), (391, 18755), (400, 18815), (401, 18818), (408, 18854), (409, 18872), (413, 18884), (414, 18893), (419, 18920), (429, 18977), (430, 18989), (432, 19007), (434, 19016), (435, 19028), (439, 19064), (444, 19094), (447, 19103), (448, 19115), (458, 19175), (464, 19229), (473, 19289), (479, 19331), (495, 19466), (499, 19490), (505, 19544), (508, 19592), (514, 19634), (516, 19658), (517, 19661),

Gene: Emmina_27 Start: 22115, Stop: 24511, Start Num: 84

Candidate Starts for Emmina_27:

(Start: 84 @22115 has 125 MA's), (133, 22292), (141, 22313), (190, 22460), (217, 22634), (222, 22667), (228, 22703), (248, 22796), (261, 22856), (265, 22874), (291, 23006), (298, 23051), (323, 23183), (331, 23228), (346, 23288), (364, 23402), (368, 23423), (374, 23462), (378, 23483), (380, 23498), (407, 23648), (408, 23654), (409, 23672), (420, 23726), (432, 23810), (447, 23903), (483, 24149), (508, 24365), (517, 24449), (524, 24482),

Gene: Empress_19 Start: 18749, Stop: 21286, Start Num: 52

Candidate Starts for Empress_19:

(49, 18737), (Start: 52 @18749 has 221 MA's), (59, 18770), (Start: 69 @18791 has 1 MA's), (78, 18830), (104, 18899), (106, 18908), (107, 18911), (111, 18929), (124, 18977), (137, 19025), (168, 19136), (169, 19139), (186, 19184), (197, 19262), (201, 19286), (210, 19352), (218, 19397), (222, 19427), (223, 19433), (224, 19451), (232, 19475), (234, 19484), (240, 19517), (242, 19523), (248, 19553), (258, 19592), (259, 19604), (261, 19613), (264, 19628), (265, 19631), (287, 19742), (288, 19745), (289, 19754), (290, 19760), (293, 19775), (294, 19778), (296, 19799), (303, 19829), (306, 19841), (310, 19874), (331, 19985), (332, 19988), (339, 20015), (341, 20021), (348, 20075), (349, 20078), (368, 20180), (370, 20192), (371, 20195), (381, 20261), (386, 20285), (389, 20306), (391, 20315), (400, 20375), (401, 20378), (408, 20414), (409, 20432), (414, 20453), (419, 20480), (429, 20537), (430, 20549), (432, 20567), (434, 20576), (435, 20588), (439, 20624), (444, 20654), (447, 20663), (448, 20675), (458, 20735), (464, 20789), (473, 20849), (479, 20891), (495, 21026), (499, 21050), (505, 21104), (508, 21152), (511, 21173), (516, 21218), (517, 21221),

Gene: Enby_19 Start: 17219, Stop: 19756, Start Num: 52

Candidate Starts for Enby_19:

(49, 17207), (Start: 52 @17219 has 221 MA's), (59, 17240), (Start: 69 @17261 has 1 MA's), (78, 17300), (104, 17369), (106, 17378), (107, 17381), (111, 17399), (119, 17432), (124, 17447), (137, 17495), (166, 17600), (169, 17609), (184, 17651), (186, 17654), (197, 17732), (201, 17756), (210, 17822), (218, 17867), (222, 17897), (223, 17903), (224, 17921), (232, 17945), (234, 17954), (240, 17987), (242, 17993), (248, 18023), (258, 18062), (259, 18074), (261, 18083), (264, 18098), (265, 18101), (287, 18212), (289, 18224), (290, 18230), (293, 18245), (294, 18248), (296, 18269), (303, 18299), (306, 18311), (310, 18344), (323, 18410), (331, 18455), (332, 18458), (339, 18485), (341, 18491), (348, 18545), (349, 18548), (352, 18575), (368, 18650), (370, 18662), (371, 18665), (381,

18731), (386, 18755), (391, 18785), (397, 18827), (400, 18845), (401, 18848), (408, 18884), (409, 18902), (414, 18923), (419, 18950), (430, 19019), (432, 19037), (434, 19046), (435, 19058), (439, 19094), (444, 19124), (447, 19133), (448, 19145), (458, 19205), (464, 19259), (473, 19319), (479, 19361), (487, 19439), (495, 19496), (499, 19520), (505, 19574), (508, 19622), (514, 19664), (516, 19688), (517, 19691),

Gene: EniyanLRS_40 Start: 28045, Stop: 30612, Start Num: 51

Candidate Starts for EniyanLRS_40:

(Start: 51 @28045 has 6 MA's), (70, 28114), (110, 28237), (111, 28243), (113, 28246), (117, 28270), (122, 28291), (165, 28447), (167, 28453), (169, 28459), (177, 28489), (179, 28495), (186, 28516), (187, 28525), (196, 28585), (206, 28663), (223, 28762), (229, 28795), (233, 28810), (234, 28813), (242, 28852), (254, 28903), (258, 28921), (261, 28942), (262, 28948), (271, 29002), (287, 29071), (292, 29095), (295, 29116), (298, 29137), (301, 29146), (306, 29167), (310, 29200), (311, 29203), (320, 29254), (323, 29266), (337, 29332), (342, 29350), (347, 29389), (368, 29506), (375, 29551), (384, 29608), (389, 29632), (391, 29641), (393, 29659), (400, 29704), (407, 29737), (411, 29773), (438, 29947), (439, 29965), (440, 29971), (450, 30028), (494, 30352), (497, 30370), (502, 30421), (509, 30484), (516, 30559),

Gene: Eradicator_18 Start: 17363, Stop: 19915, Start Num: 52

Candidate Starts for Eradicator_18:

(Start: 52 @17363 has 221 MA's), (59, 17384), (86, 17453), (104, 17513), (106, 17522), (107, 17525), (119, 17576), (124, 17591), (137, 17639), (168, 17750), (169, 17753), (180, 17786), (184, 17795), (186, 17798), (197, 17876), (205, 17942), (211, 17975), (219, 18029), (222, 18041), (232, 18089), (234, 18098), (237, 18107), (243, 18140), (254, 18182), (257, 18197), (262, 18227), (263, 18233), (264, 18236), (265, 18239), (270, 18266), (274, 18287), (281, 18320), (289, 18362), (290, 18368), (291, 18371), (293, 18383), (294, 18386), (297, 18413), (303, 18437), (306, 18449), (310, 18482), (313, 18503), (329, 18575), (332, 18596), (351, 18707), (358, 18731), (359, 18734), (363, 18758), (368, 18788), (372, 18812), (378, 18848), (379, 18854), (380, 18863), (394, 18953), (397, 18977), (398, 18992), (407, 19034), (408, 19040), (415, 19085), (431, 19181), (432, 19196), (434, 19205), (437, 19229), (447, 19292), (464, 19418), (493, 19634), (499, 19679), (508, 19781), (520, 19859),

Gene: Erk16_30 Start: 24319, Stop: 26589, Start Num: 145

Candidate Starts for Erk16_30:

(Start: 145 @24319 has 21 MA's), (176, 24454), (178, 24463), (205, 24637), (206, 24643), (209, 24655), (236, 24808), (239, 24823), (241, 24838), (314, 25219), (316, 25225), (326, 25270), (343, 25357), (377, 25558), (378, 25564), (385, 25612), (391, 25642), (393, 25666), (422, 25855), (425, 25882), (434, 25930), (443, 26002), (450, 26041), (454, 26062), (455, 26077), (459, 26095), (461, 26125), (475, 26209), (503, 26410), (508, 26452), (527, 26578),

Gene: Estave1_18 Start: 17517, Stop: 20006, Start Num: 52

Candidate Starts for Estave1_18:

(Start: 52 @17517 has 221 MA's), (59, 17538), (Start: 69 @17559 has 1 MA's), (81, 17598), (104, 17667), (106, 17676), (107, 17679), (111, 17697), (119, 17730), (124, 17745), (138, 17793), (161, 17847), (169, 17883), (173, 17892), (179, 17910), (184, 17922), (188, 17934), (192, 17958), (193, 17961), (215, 18105), (218, 18114), (222, 18138), (224, 18162), (232, 18186), (233, 18192), (238, 18213), (242, 18234), (248, 18264), (256, 18294), (259, 18315), (278, 18408), (281, 18423), (284, 18432), (287, 18453), (288, 18456), (303, 18540), (304, 18543), (306, 18552), (309, 18579), (311, 18588), (318, 18627), (321, 18648), (323, 18651), (330, 18687), (334, 18708), (348, 18786), (349, 18789), (362, 18843), (370, 18903), (386, 18996), (389, 19017), (396, 19053), (404, 19107), (407, 19116), (418, 19194), (421, 19212), (425, 19248), (426, 19251), (430, 19269), (431, 19272), (432, 19287), (439, 19344), (441, 19356), (458, 19452), (467, 19539), (476, 19587), (478, 19611), (482, 19638), (483, 19647), (486, 19686), (492, 19725), (495, 19749), (498, 19770), (508, 19866), (511, 19887), (520, 19950), (524, 19977), (526, 19986),

Gene: Eureka_26 Start: 22269, Stop: 24665, Start Num: 84

Candidate Starts for Eureka_26:

(Start: 84 @22269 has 125 MA's), (133, 22446), (141, 22467), (190, 22614), (211, 22755), (217, 22788), (222, 22821), (228, 22857), (248, 22950), (261, 23010), (265, 23028), (281, 23109), (323, 23337), (331, 23382), (368, 23577), (369, 23583), (371, 23592), (378, 23637), (380, 23652), (408, 23808), (409, 23826), (412, 23835), (421, 23889), (432, 23964), (433, 23967), (463, 24177), (465, 24189), (483, 24303), (508, 24519), (517, 24603), (522, 24627), (524, 24636),

Gene: FairyPath_26 Start: 22481, Stop: 24877, Start Num: 84

Candidate Starts for FairyPath_26:

(Start: 84 @22481 has 125 MA's), (133, 22658), (141, 22679), (190, 22826), (211, 22967), (217, 23000), (222, 23033), (228, 23069), (248, 23162), (261, 23222), (265, 23240), (295, 23396), (298, 23417), (320, 23537), (323, 23549), (331, 23594), (368, 23789), (369, 23795), (371, 23804), (378, 23849), (380, 23864), (408, 24020), (409, 24038), (412, 24047), (421, 24101), (432, 24176), (433, 24179), (463, 24389), (465, 24401), (483, 24515), (508, 24731), (517, 24815), (522, 24839), (524, 24848),

Gene: Familton_59 Start: 36102, Stop: 38612, Start Num: 65

Candidate Starts for Familton_59:

(Start: 65 @36102 has 28 MA's), (72, 36135), (91, 36204), (92, 36207), (100, 36231), (107, 36255), (114, 36279), (119, 36312), (170, 36519), (173, 36531), (174, 36534), (204, 36681), (205, 36711), (210, 36735), (216, 36765), (217, 36768), (222, 36795), (224, 36819), (233, 36849), (245, 36906), (249, 36930), (258, 36966), (259, 36978), (264, 37002), (265, 37005), (271, 37047), (293, 37143), (294, 37146), (344, 37401), (368, 37545), (378, 37605), (388, 37677), (389, 37680), (405, 37776), (432, 37950), (435, 37971), (449, 38064), (452, 38076), (464, 38166), (477, 38241), (486, 38286), (510, 38487), (515, 38541), (520, 38556),

Gene: Fancypants_18 Start: 17408, Stop: 19945, Start Num: 52

Candidate Starts for Fancypants_18:

(49, 17396), (Start: 52 @17408 has 221 MA's), (59, 17429), (Start: 69 @17450 has 1 MA's), (78, 17489), (104, 17558), (106, 17567), (107, 17570), (111, 17588), (119, 17621), (124, 17636), (137, 17684), (168, 17795), (169, 17798), (179, 17828), (184, 17840), (186, 17843), (197, 17921), (201, 17945), (210, 18011), (218, 18056), (222, 18086), (223, 18092), (224, 18110), (232, 18134), (234, 18143), (240, 18176), (242, 18182), (248, 18212), (258, 18251), (259, 18263), (261, 18272), (264, 18287), (265, 18290), (287, 18401), (288, 18404), (289, 18413), (290, 18419), (293, 18434), (294, 18437), (296, 18458), (303, 18488), (306, 18500), (310, 18533), (331, 18644), (332, 18647), (339, 18674), (341, 18680), (348, 18734), (349, 18737), (368, 18839), (370, 18851), (371, 18854), (381, 18920), (386, 18944), (389, 18965), (391, 18974), (400, 19034), (401, 19037), (402, 19049), (408, 19073), (409, 19091), (413, 19103), (414, 19112), (419, 19139), (430, 19208), (432, 19226), (434, 19235), (435, 19247), (439, 19283), (444, 19313), (448, 19334), (453, 19358), (458, 19394), (464, 19448), (473, 19508), (479, 19550), (487, 19628), (495, 19685), (499, 19709), (505, 19763), (508, 19811), (514, 19853), (516, 19877), (517, 19880),

Gene: Fastidio_18 Start: 17365, Stop: 19902, Start Num: 52

Candidate Starts for Fastidio_18:

(49, 17353), (Start: 52 @17365 has 221 MA's), (59, 17386), (Start: 69 @17407 has 1 MA's), (78, 17446), (104, 17515), (106, 17524), (107, 17527), (111, 17545), (119, 17578), (124, 17593), (137, 17641), (168, 17752), (169, 17755), (179, 17785), (184, 17797), (186, 17800), (197, 17878), (201, 17902), (210, 17968), (218, 18013), (222, 18043), (223, 18049), (224, 18067), (232, 18091), (234, 18100), (240, 18133), (242, 18139), (248, 18169), (258, 18208), (259, 18220), (261, 18229), (264, 18244), (265, 18247), (287, 18358), (288, 18361), (289, 18370), (290, 18376), (293, 18391), (294, 18394), (296, 18415), (303, 18445), (306, 18457), (310, 18490), (331, 18601), (332, 18604), (339,

18631), (341, 18637), (348, 18691), (349, 18694), (365, 18781), (368, 18796), (370, 18808), (371, 18811), (381, 18877), (384, 18898), (386, 18901), (389, 18922), (397, 18973), (400, 18991), (401, 18994), (408, 19030), (409, 19048), (413, 19060), (414, 19069), (429, 19153), (430, 19165), (432, 19183), (434, 19192), (435, 19204), (439, 19240), (444, 19270), (453, 19315), (458, 19351), (464, 19405), (479, 19507), (487, 19585), (495, 19642), (499, 19666), (505, 19720), (508, 19768), (514, 19810), (516, 19834), (517, 19837),

Gene: Filch_27 Start: 22042, Stop: 24438, Start Num: 84

Candidate Starts for Filch_27:

(Start: 84 @22042 has 125 MA's), (133, 22219), (141, 22240), (190, 22387), (211, 22528), (217, 22561), (222, 22594), (228, 22630), (248, 22723), (261, 22783), (265, 22801), (291, 22933), (298, 22978), (323, 23110), (331, 23155), (346, 23215), (364, 23329), (368, 23350), (374, 23389), (378, 23410), (380, 23425), (407, 23575), (408, 23581), (409, 23599), (420, 23653), (432, 23737), (447, 23830), (483, 24076), (508, 24292), (517, 24376), (524, 24409),

Gene: Filuzino_18 Start: 17390, Stop: 19927, Start Num: 52

Candidate Starts for Filuzino_18:

(49, 17378), (Start: 52 @17390 has 221 MA's), (59, 17411), (Start: 69 @17432 has 1 MA's), (78, 17471), (104, 17540), (106, 17549), (107, 17552), (111, 17570), (119, 17603), (124, 17618), (137, 17666), (168, 17777), (169, 17780), (179, 17810), (186, 17825), (197, 17903), (201, 17927), (210, 17993), (218, 18038), (222, 18068), (223, 18074), (224, 18092), (232, 18116), (234, 18125), (240, 18158), (242, 18164), (248, 18194), (258, 18233), (259, 18245), (261, 18254), (264, 18269), (265, 18272), (287, 18383), (288, 18386), (289, 18395), (290, 18401), (293, 18416), (294, 18419), (296, 18440), (303, 18470), (306, 18482), (310, 18515), (331, 18626), (332, 18629), (339, 18656), (341, 18662), (348, 18716), (349, 18719), (368, 18821), (370, 18833), (371, 18836), (381, 18902), (386, 18926), (389, 18947), (391, 18956), (400, 19016), (401, 19019), (408, 19055), (409, 19073), (413, 19085), (414, 19094), (419, 19121), (430, 19190), (432, 19208), (434, 19217), (435, 19229), (439, 19265), (444, 19295), (448, 19316), (453, 19340), (458, 19376), (464, 19430), (473, 19490), (479, 19532), (487, 19610), (495, 19667), (499, 19691), (505, 19745), (508, 19793), (514, 19835), (516, 19859), (517, 19862),

Gene: FireRed_26 Start: 22312, Stop: 24708, Start Num: 84

Candidate Starts for FireRed_26:

(Start: 84 @22312 has 125 MA's), (133, 22489), (141, 22510), (190, 22657), (211, 22798), (217, 22831), (222, 22864), (228, 22900), (248, 22993), (261, 23053), (265, 23071), (291, 23203), (298, 23248), (323, 23380), (331, 23425), (346, 23485), (364, 23599), (368, 23620), (374, 23659), (378, 23680), (380, 23695), (407, 23845), (408, 23851), (409, 23869), (420, 23923), (432, 24007), (447, 24100), (483, 24346), (508, 24562), (517, 24646), (524, 24679),

Gene: Firecracker_59 Start: 36292, Stop: 38802, Start Num: 65

Candidate Starts for Firecracker_59:

(Start: 65 @36292 has 28 MA's), (72, 36325), (91, 36394), (92, 36397), (100, 36421), (107, 36445), (114, 36469), (119, 36502), (170, 36709), (173, 36721), (174, 36724), (204, 36871), (205, 36901), (210, 36925), (216, 36955), (217, 36958), (222, 36985), (224, 37009), (233, 37039), (245, 37096), (258, 37156), (259, 37168), (264, 37192), (265, 37195), (271, 37237), (293, 37333), (294, 37336), (331, 37540), (344, 37591), (368, 37735), (378, 37795), (388, 37867), (389, 37870), (405, 37966), (432, 38140), (435, 38161), (449, 38254), (452, 38266), (464, 38356), (477, 38431), (486, 38476), (510, 38677), (515, 38731), (520, 38746),

Gene: Firehouse51_19 Start: 17957, Stop: 20494, Start Num: 52

Candidate Starts for Firehouse51_19:

(49, 17945), (Start: 52 @17957 has 221 MA's), (59, 17978), (Start: 69 @17999 has 1 MA's), (78, 18038), (104, 18107), (106, 18116), (107, 18119), (111, 18137), (119, 18170), (124, 18185), (137,

18233), (168, 18344), (169, 18347), (179, 18377), (184, 18389), (186, 18392), (197, 18470), (201, 18494), (210, 18560), (218, 18605), (222, 18635), (223, 18641), (224, 18659), (232, 18683), (234, 18692), (240, 18725), (242, 18731), (248, 18761), (258, 18800), (259, 18812), (261, 18821), (264, 18836), (265, 18839), (287, 18950), (288, 18953), (289, 18962), (290, 18968), (293, 18983), (294, 18986), (296, 19007), (303, 19037), (306, 19049), (310, 19082), (331, 19193), (332, 19196), (339, 19223), (341, 19229), (348, 19283), (349, 19286), (368, 19388), (370, 19400), (371, 19403), (381, 19469), (386, 19493), (389, 19514), (391, 19523), (400, 19583), (401, 19586), (408, 19622), (409, 19640), (413, 19652), (414, 19661), (419, 19688), (430, 19757), (432, 19775), (434, 19784), (435, 19796), (439, 19832), (444, 19862), (448, 19883), (453, 19907), (458, 19943), (464, 19997), (473, 20057), (479, 20099), (487, 20177), (495, 20234), (499, 20258), (505, 20312), (508, 20360), (514, 20402), (516, 20426), (517, 20429),

Gene: Flathead_19 Start: 17265, Stop: 19802, Start Num: 52

Candidate Starts for Flathead_19:

(49, 17253), (Start: 52 @17265 has 221 MA's), (59, 17286), (Start: 69 @17307 has 1 MA's), (78, 17346), (104, 17415), (106, 17424), (107, 17427), (111, 17445), (119, 17478), (124, 17493), (137, 17541), (168, 17652), (169, 17655), (179, 17685), (184, 17697), (186, 17700), (197, 17778), (201, 17802), (210, 17868), (218, 17913), (222, 17943), (223, 17949), (224, 17967), (232, 17991), (234, 18000), (240, 18033), (242, 18039), (248, 18069), (258, 18108), (259, 18120), (261, 18129), (264, 18144), (265, 18147), (287, 18258), (288, 18261), (289, 18270), (290, 18276), (293, 18291), (294, 18294), (296, 18315), (303, 18345), (306, 18357), (310, 18390), (323, 18456), (331, 18501), (332, 18504), (339, 18531), (341, 18537), (348, 18591), (349, 18594), (365, 18681), (368, 18696), (370, 18708), (371, 18711), (381, 18777), (386, 18801), (389, 18822), (391, 18831), (400, 18891), (401, 18894), (408, 18930), (409, 18948), (413, 18960), (414, 18969), (419, 18996), (430, 19065), (432, 19083), (434, 19092), (435, 19104), (439, 19140), (444, 19170), (448, 19191), (453, 19215), (458, 19251), (464, 19305), (473, 19365), (479, 19407), (495, 19542), (499, 19566), (505, 19620), (508, 19668), (514, 19710), (516, 19734), (517, 19737),

Gene: Florinda_18 Start: 17419, Stop: 19956, Start Num: 52

Candidate Starts for Florinda_18:

(Start: 52 @17419 has 221 MA's), (59, 17440), (Start: 69 @17461 has 1 MA's), (78, 17500), (104, 17569), (106, 17578), (107, 17581), (111, 17599), (119, 17632), (124, 17647), (137, 17695), (168, 17806), (169, 17809), (179, 17839), (186, 17854), (197, 17932), (201, 17956), (210, 18022), (218, 18067), (222, 18097), (223, 18103), (224, 18121), (232, 18145), (234, 18154), (240, 18187), (242, 18193), (248, 18223), (258, 18262), (261, 18283), (264, 18298), (265, 18301), (288, 18415), (289, 18424), (290, 18430), (294, 18448), (296, 18469), (303, 18499), (306, 18511), (310, 18544), (331, 18655), (332, 18658), (339, 18685), (341, 18691), (348, 18745), (349, 18748), (365, 18835), (368, 18850), (371, 18865), (386, 18955), (389, 18976), (391, 18985), (400, 19045), (401, 19048), (407, 19078), (409, 19102), (414, 19123), (430, 19219), (432, 19237), (434, 19246), (435, 19258), (439, 19294), (444, 19324), (448, 19345), (453, 19369), (458, 19405), (464, 19459), (473, 19519), (479, 19561), (487, 19639), (495, 19696), (499, 19720), (505, 19774), (508, 19822), (514, 19864), (516, 19888), (517, 19891),

Gene: Flypotenuse_24 Start: 21900, Stop: 24296, Start Num: 84

Candidate Starts for Flypotenuse_24:

(Start: 84 @21900 has 125 MA's), (133, 22077), (141, 22098), (190, 22245), (211, 22386), (217, 22419), (222, 22452), (228, 22488), (248, 22581), (261, 22641), (265, 22659), (291, 22791), (323, 22968), (331, 23013), (364, 23187), (368, 23208), (374, 23247), (378, 23268), (380, 23283), (408, 23439), (409, 23457), (420, 23511), (432, 23595), (481, 23919), (508, 24150), (517, 24234), (524, 24267),

Gene: FoghornLeghorn_25 Start: 21788, Stop: 24184, Start Num: 84

Candidate Starts for FoghornLeghorn_25:

(Start: 84 @21788 has 125 MA's), (133, 21965), (141, 21986), (190, 22133), (211, 22274), (217, 22307), (222, 22340), (228, 22376), (248, 22469), (261, 22529), (265, 22547), (291, 22679), (298, 22724), (323, 22856), (331, 22901), (364, 23075), (368, 23096), (374, 23135), (378, 23156), (380, 23171), (408, 23327), (409, 23345), (420, 23399), (432, 23483), (447, 23576), (483, 23822), (508, 24038), (517, 24122), (524, 24155),

Gene: FoulBall_58 Start: 36096, Stop: 38606, Start Num: 65

Candidate Starts for FoulBall_58:

(Start: 65 @36096 has 28 MA's), (72, 36129), (91, 36198), (92, 36201), (100, 36225), (107, 36249), (114, 36273), (119, 36306), (170, 36513), (173, 36525), (174, 36528), (204, 36675), (205, 36705), (210, 36729), (216, 36759), (217, 36762), (222, 36789), (224, 36813), (233, 36843), (245, 36900), (249, 36924), (258, 36960), (259, 36972), (264, 36996), (265, 36999), (271, 37041), (293, 37137), (294, 37140), (344, 37395), (368, 37539), (378, 37599), (388, 37671), (389, 37674), (405, 37770), (432, 37944), (435, 37965), (449, 38058), (452, 38070), (464, 38160), (477, 38235), (486, 38280), (510, 38481), (515, 38535), (520, 38550),

Gene: Fowlmouth_24 Start: 20553, Stop: 24044, Start Num: 2

Candidate Starts for Fowlmouth_24:

(Start: 2 @20553 has 2 MA's), (9, 20778), (11, 20847), (12, 20880), (21, 21075), (25, 21171), (26, 21174), (27, 21180), (31, 21207), (36, 21225), (134, 21675), (139, 21696), (182, 21879), (183, 21882), (194, 21951), (195, 21957), (207, 22053), (211, 22077), (214, 22101), (227, 22176), (244, 22251), (261, 22338), (268, 22374), (278, 22425), (279, 22428), (290, 22488), (306, 22566), (310, 22599), (317, 22638), (331, 22710), (399, 23100), (406, 23136), (417, 23211), (436, 23334), (504, 23790), (528, 23973),

Gene: Frankie_19 Start: 17503, Stop: 20040, Start Num: 52

Candidate Starts for Frankie_19:

(Start: 52 @17503 has 221 MA's), (59, 17524), (Start: 69 @17545 has 1 MA's), (78, 17584), (104, 17653), (106, 17662), (107, 17665), (111, 17683), (119, 17716), (124, 17731), (137, 17779), (168, 17890), (169, 17893), (179, 17923), (186, 17938), (197, 18016), (201, 18040), (210, 18106), (218, 18151), (222, 18181), (223, 18187), (224, 18205), (232, 18229), (234, 18238), (240, 18271), (242, 18277), (248, 18307), (258, 18346), (261, 18367), (264, 18382), (266, 18388), (294, 18532), (296, 18553), (303, 18583), (306, 18595), (310, 18628), (321, 18691), (323, 18694), (339, 18769), (341, 18775), (348, 18829), (349, 18832), (352, 18859), (355, 18868), (368, 18934), (370, 18946), (371, 18949), (381, 19015), (384, 19036), (386, 19039), (389, 19060), (397, 19111), (400, 19129), (401, 19132), (407, 19162), (409, 19186), (414, 19207), (420, 19240), (430, 19303), (432, 19321), (434, 19330), (435, 19342), (444, 19408), (447, 19417), (448, 19429), (473, 19603), (479, 19645), (487, 19723), (495, 19780), (499, 19804), (505, 19858), (508, 19906), (516, 19972), (517, 19975),

Gene: FreddyB_18 Start: 17407, Stop: 19959, Start Num: 52

Candidate Starts for FreddyB_18:

(Start: 52 @17407 has 221 MA's), (79, 17488), (104, 17557), (106, 17566), (107, 17569), (111, 17587), (124, 17635), (136, 17680), (168, 17794), (169, 17797), (174, 17809), (180, 17830), (184, 17839), (186, 17842), (193, 17890), (197, 17920), (205, 17986), (211, 18019), (218, 18055), (221, 18079), (233, 18139), (234, 18142), (238, 18160), (252, 18223), (254, 18226), (258, 18244), (261, 18265), (265, 18283), (270, 18310), (274, 18331), (281, 18364), (289, 18406), (290, 18412), (291, 18415), (294, 18430), (297, 18457), (303, 18481), (306, 18493), (310, 18526), (329, 18619), (348, 18727), (351, 18751), (358, 18775), (359, 18778), (363, 18802), (368, 18832), (372, 18856), (378, 18892), (379, 18898), (380, 18907), (384, 18934), (394, 18997), (397, 19021), (398, 19036), (407, 19078), (415, 19129), (431, 19225), (432, 19240), (434, 19249), (437, 19273), (447, 19336), (453, 19372), (493, 19678), (499, 19723), (508, 19825),

Gene: Fruitloop_18 Start: 17429, Stop: 19966, Start Num: 52

Candidate Starts for Fruitloop_18:

(49, 17417), (Start: 52 @17429 has 221 MA's), (59, 17450), (Start: 69 @17471 has 1 MA's), (78, 17510), (104, 17579), (106, 17588), (107, 17591), (111, 17609), (119, 17642), (124, 17657), (137, 17705), (168, 17816), (169, 17819), (179, 17849), (184, 17861), (186, 17864), (197, 17942), (201, 17966), (210, 18032), (218, 18077), (222, 18107), (223, 18113), (224, 18131), (232, 18155), (234, 18164), (240, 18197), (242, 18203), (248, 18233), (258, 18272), (259, 18284), (261, 18293), (264, 18308), (265, 18311), (287, 18422), (288, 18425), (289, 18434), (290, 18440), (293, 18455), (294, 18458), (296, 18479), (303, 18509), (306, 18521), (310, 18554), (331, 18665), (332, 18668), (339, 18695), (341, 18701), (348, 18755), (349, 18758), (365, 18845), (368, 18860), (370, 18872), (371, 18875), (381, 18941), (386, 18965), (389, 18986), (391, 18995), (400, 19055), (401, 19058), (408, 19094), (409, 19112), (413, 19124), (414, 19133), (419, 19160), (430, 19229), (432, 19247), (434, 19256), (435, 19268), (439, 19304), (444, 19334), (448, 19355), (453, 19379), (458, 19415), (464, 19469), (473, 19529), (479, 19571), (487, 19649), (495, 19706), (499, 19730), (505, 19784), (508, 19832), (514, 19874), (516, 19898), (517, 19901),

Gene: GUmbie_18 Start: 17402, Stop: 19939, Start Num: 52

Candidate Starts for GUmbie_18:

(Start: 52 @17402 has 221 MA's), (59, 17423), (Start: 69 @17444 has 1 MA's), (78, 17483), (104, 17552), (106, 17561), (107, 17564), (111, 17582), (119, 17615), (124, 17630), (166, 17783), (169, 17792), (186, 17837), (200, 17936), (201, 17939), (210, 18005), (222, 18080), (223, 18086), (232, 18128), (233, 18134), (234, 18137), (240, 18170), (242, 18176), (248, 18206), (254, 18227), (259, 18257), (261, 18266), (264, 18281), (265, 18284), (287, 18395), (288, 18398), (289, 18407), (290, 18413), (293, 18428), (294, 18431), (296, 18452), (303, 18482), (306, 18494), (310, 18527), (331, 18638), (332, 18641), (339, 18668), (341, 18674), (348, 18728), (349, 18731), (365, 18818), (368, 18833), (370, 18845), (371, 18848), (381, 18914), (386, 18938), (389, 18959), (391, 18968), (397, 19010), (400, 19028), (401, 19031), (407, 19061), (409, 19085), (413, 19097), (414, 19106), (430, 19202), (432, 19220), (434, 19229), (435, 19241), (439, 19277), (444, 19307), (447, 19316), (448, 19328), (458, 19388), (464, 19442), (473, 19502), (479, 19544), (495, 19679), (499, 19703), (505, 19757), (508, 19805), (514, 19847), (516, 19871), (517, 19874),

Gene: Gage_28 Start: 22274, Stop: 24670, Start Num: 84

Candidate Starts for Gage_28:

(Start: 84 @22274 has 125 MA's), (133, 22451), (141, 22472), (190, 22619), (211, 22760), (217, 22793), (222, 22826), (228, 22862), (248, 22955), (261, 23015), (265, 23033), (291, 23165), (298, 23210), (323, 23342), (331, 23387), (346, 23447), (364, 23561), (368, 23582), (374, 23621), (378, 23642), (380, 23657), (407, 23807), (408, 23813), (409, 23831), (420, 23885), (432, 23969), (447, 24062), (483, 24308), (508, 24524), (517, 24608), (524, 24641),

Gene: Gaia_21 Start: 19931, Stop: 22501, Start Num: 48

Candidate Starts for Gaia_21:

(Start: 48 @19931 has 2 MA's), (70, 20021), (94, 20090), (98, 20099), (99, 20102), (115, 20156), (116, 20168), (132, 20216), (144, 20261), (164, 20333), (169, 20354), (175, 20375), (184, 20396), (186, 20399), (205, 20543), (211, 20576), (223, 20633), (234, 20684), (238, 20702), (259, 20798), (261, 20807), (262, 20813), (264, 20822), (265, 20825), (270, 20852), (274, 20873), (281, 20906), (284, 20915), (287, 20936), (289, 20948), (293, 20969), (303, 21023), (306, 21035), (310, 21068), (325, 21143), (330, 21170), (351, 21293), (359, 21320), (363, 21344), (368, 21374), (372, 21398), (379, 21440), (380, 21449), (398, 21578), (403, 21605), (413, 21656), (431, 21767), (432, 21782), (474, 22073), (495, 22241), (499, 22265), (514, 22409), (517, 22436), (519, 22442), (520, 22445),

Gene: Galactic_18 Start: 17394, Stop: 19931, Start Num: 52

Candidate Starts for Galactic_18:

(49, 17382), (Start: 52 @17394 has 221 MA's), (59, 17415), (Start: 69 @17436 has 1 MA's), (78, 17475), (104, 17544), (106, 17553), (107, 17556), (111, 17574), (119, 17607), (124, 17622), (137,

17670), (168, 17781), (169, 17784), (179, 17814), (186, 17829), (197, 17907), (201, 17931), (210, 17997), (218, 18042), (222, 18072), (223, 18078), (224, 18096), (232, 18120), (234, 18129), (240, 18162), (242, 18168), (248, 18198), (258, 18237), (259, 18249), (261, 18258), (264, 18273), (265, 18276), (287, 18387), (288, 18390), (289, 18399), (290, 18405), (293, 18420), (294, 18423), (296, 18444), (303, 18474), (306, 18486), (310, 18519), (331, 18630), (332, 18633), (339, 18660), (341, 18666), (348, 18720), (349, 18723), (368, 18825), (370, 18837), (371, 18840), (381, 18906), (386, 18930), (389, 18951), (391, 18960), (400, 19020), (401, 19023), (408, 19059), (409, 19077), (413, 19089), (414, 19098), (419, 19125), (430, 19194), (432, 19212), (434, 19221), (435, 19233), (439, 19269), (444, 19299), (448, 19320), (453, 19344), (458, 19380), (464, 19434), (473, 19494), (479, 19536), (487, 19614), (495, 19671), (499, 19695), (505, 19749), (508, 19797), (514, 19839), (516, 19863), (517, 19866),

Gene: Gandolph_18 Start: 17413, Stop: 19965, Start Num: 52

Candidate Starts for Gandolph_18:

(Start: 52 @17413 has 221 MA's), (79, 17494), (104, 17563), (106, 17572), (107, 17575), (111, 17593), (124, 17641), (136, 17686), (168, 17800), (169, 17803), (174, 17815), (180, 17836), (184, 17845), (186, 17848), (193, 17896), (197, 17926), (205, 17992), (211, 18025), (218, 18061), (221, 18085), (233, 18145), (234, 18148), (238, 18166), (252, 18229), (254, 18232), (258, 18250), (261, 18271), (265, 18289), (270, 18316), (274, 18337), (281, 18370), (289, 18412), (290, 18418), (291, 18421), (294, 18436), (297, 18463), (298, 18466), (303, 18487), (306, 18499), (310, 18532), (329, 18625), (348, 18733), (351, 18757), (352, 18763), (358, 18781), (359, 18784), (363, 18808), (368, 18838), (372, 18862), (378, 18898), (379, 18904), (380, 18913), (384, 18940), (394, 19003), (397, 19027), (398, 19042), (407, 19084), (415, 19135), (431, 19231), (432, 19246), (434, 19255), (437, 19279), (447, 19342), (453, 19378), (493, 19684), (499, 19729), (508, 19831),

Gene: Gator_24 Start: 21899, Stop: 24295, Start Num: 84

Candidate Starts for Gator_24:

(Start: 84 @21899 has 125 MA's), (133, 22076), (141, 22097), (190, 22244), (211, 22385), (217, 22418), (222, 22451), (228, 22487), (248, 22580), (261, 22640), (265, 22658), (281, 22739), (323, 22967), (331, 23012), (368, 23207), (369, 23213), (371, 23222), (378, 23267), (380, 23282), (408, 23438), (409, 23456), (412, 23465), (421, 23519), (432, 23594), (433, 23597), (463, 23807), (465, 23819), (483, 23933), (508, 24149), (517, 24233), (522, 24257), (524, 24266),

Gene: Gemini_29 Start: 22791, Stop: 25187, Start Num: 84

Candidate Starts for Gemini_29:

(Start: 84 @22791 has 125 MA's), (133, 22968), (141, 22989), (190, 23136), (211, 23277), (217, 23310), (222, 23343), (228, 23379), (248, 23472), (261, 23532), (265, 23550), (291, 23682), (298, 23727), (323, 23859), (331, 23904), (346, 23964), (364, 24078), (368, 24099), (374, 24138), (378, 24159), (380, 24174), (407, 24324), (408, 24330), (409, 24348), (420, 24402), (432, 24486), (447, 24579), (483, 24825), (508, 25041), (517, 25125), (524, 25158),

Gene: Geralt_18 Start: 17396, Stop: 19933, Start Num: 52

Candidate Starts for Geralt_18:

(Start: 52 @17396 has 221 MA's), (59, 17417), (Start: 69 @17438 has 1 MA's), (78, 17477), (104, 17546), (106, 17555), (107, 17558), (111, 17576), (124, 17624), (137, 17672), (168, 17783), (169, 17786), (186, 17831), (197, 17909), (201, 17933), (210, 17999), (222, 18074), (223, 18080), (224, 18098), (232, 18122), (234, 18131), (240, 18164), (242, 18170), (248, 18200), (254, 18221), (259, 18251), (261, 18260), (284, 18368), (286, 18380), (287, 18389), (288, 18392), (290, 18407), (293, 18422), (294, 18425), (296, 18446), (306, 18488), (310, 18521), (331, 18632), (332, 18635), (339, 18662), (341, 18668), (348, 18722), (349, 18725), (352, 18752), (368, 18827), (370, 18839), (371, 18842), (381, 18908), (384, 18929), (386, 18932), (389, 18953), (391, 18962), (397, 19004), (400, 19022), (401, 19025), (407, 19055), (409, 19079), (413, 19091), (414, 19100), (430, 19196), (432, 19214), (434, 19223), (435, 19235), (439, 19271), (444, 19301), (447, 19310), (448, 19322), (458,

19382), (464, 19436), (473, 19496), (479, 19538), (495, 19673), (499, 19697), (505, 19751), (508, 19799), (514, 19841), (516, 19865), (517, 19868),

Gene: GigiOuiOui_18 Start: 17527, Stop: 20064, Start Num: 52

Candidate Starts for GigiOuiOui_18:

(Start: 52 @17527 has 221 MA's), (59, 17548), (Start: 69 @17569 has 1 MA's), (78, 17608), (104, 17677), (106, 17686), (107, 17689), (111, 17707), (124, 17755), (166, 17908), (169, 17917), (186, 17962), (200, 18061), (201, 18064), (210, 18130), (222, 18205), (223, 18211), (224, 18229), (232, 18253), (233, 18259), (234, 18262), (240, 18295), (242, 18301), (248, 18331), (254, 18352), (259, 18382), (261, 18391), (264, 18406), (265, 18409), (287, 18520), (288, 18523), (289, 18532), (290, 18538), (293, 18553), (294, 18556), (296, 18577), (303, 18607), (306, 18619), (310, 18652), (331, 18763), (332, 18766), (339, 18793), (341, 18799), (348, 18853), (349, 18856), (368, 18958), (370, 18970), (371, 18973), (381, 19039), (386, 19063), (389, 19084), (391, 19093), (400, 19153), (401, 19156), (408, 19192), (409, 19210), (413, 19222), (414, 19231), (419, 19258), (429, 19315), (430, 19327), (432, 19345), (434, 19354), (435, 19366), (439, 19402), (444, 19432), (447, 19441), (448, 19453), (458, 19513), (464, 19567), (473, 19627), (479, 19669), (495, 19804), (499, 19828), (505, 19882), (508, 19930), (514, 19972), (516, 19996), (517, 19999),

Gene: Girafales_19 Start: 17227, Stop: 19764, Start Num: 52

Candidate Starts for Girafales_19:

(Start: 52 @17227 has 221 MA's), (59, 17248), (Start: 69 @17269 has 1 MA's), (78, 17308), (104, 17377), (106, 17386), (107, 17389), (111, 17407), (119, 17440), (124, 17455), (137, 17503), (168, 17614), (169, 17617), (179, 17647), (186, 17662), (197, 17740), (201, 17764), (210, 17830), (218, 17875), (222, 17905), (223, 17911), (224, 17929), (232, 17953), (234, 17962), (240, 17995), (242, 18001), (248, 18031), (258, 18070), (261, 18091), (264, 18106), (265, 18109), (288, 18223), (289, 18232), (290, 18238), (294, 18256), (296, 18277), (303, 18307), (306, 18319), (310, 18352), (331, 18463), (332, 18466), (339, 18493), (341, 18499), (348, 18553), (349, 18556), (365, 18643), (368, 18658), (371, 18673), (386, 18763), (389, 18784), (391, 18793), (400, 18853), (401, 18856), (407, 18886), (409, 18910), (414, 18931), (430, 19027), (432, 19045), (434, 19054), (435, 19066), (439, 19102), (444, 19132), (448, 19153), (453, 19177), (458, 19213), (464, 19267), (473, 19327), (479, 19369), (487, 19447), (495, 19504), (499, 19528), (505, 19582), (508, 19630), (514, 19672), (516, 19696), (517, 19699),

Gene: Girr_18 Start: 17371, Stop: 19908, Start Num: 52

Candidate Starts for Girr_18:

(Start: 52 @17371 has 221 MA's), (59, 17392), (Start: 69 @17413 has 1 MA's), (78, 17452), (104, 17521), (106, 17530), (107, 17533), (111, 17551), (119, 17584), (124, 17599), (166, 17752), (169, 17761), (186, 17806), (200, 17905), (201, 17908), (210, 17974), (222, 18049), (223, 18055), (232, 18097), (233, 18103), (234, 18106), (240, 18139), (242, 18145), (248, 18175), (254, 18196), (259, 18226), (261, 18235), (264, 18250), (265, 18253), (287, 18364), (288, 18367), (289, 18376), (290, 18382), (293, 18397), (294, 18400), (296, 18421), (303, 18451), (306, 18463), (310, 18496), (331, 18607), (332, 18610), (339, 18637), (341, 18643), (348, 18697), (349, 18700), (365, 18787), (368, 18802), (370, 18814), (371, 18817), (381, 18883), (386, 18907), (389, 18928), (391, 18937), (397, 18979), (400, 18997), (401, 19000), (407, 19030), (409, 19054), (413, 19066), (414, 19075), (430, 19171), (432, 19189), (434, 19198), (435, 19210), (439, 19246), (444, 19276), (447, 19285), (448, 19297), (458, 19357), (464, 19411), (473, 19471), (479, 19513), (495, 19648), (499, 19672), (505, 19726), (508, 19774), (514, 19816), (516, 19840), (517, 19843),

Gene: Giuseppe_30 Start: 24308, Stop: 26578, Start Num: 145

Candidate Starts for Giuseppe_30:

(Start: 145 @24308 has 21 MA's), (176, 24443), (178, 24452), (205, 24626), (206, 24632), (209, 24644), (236, 24797), (239, 24812), (241, 24827), (314, 25208), (316, 25214), (326, 25259), (343, 25346), (377, 25547), (378, 25553), (385, 25601), (391, 25631), (393, 25655), (422, 25844), (425,

25871), (434, 25919), (443, 25991), (450, 26030), (454, 26051), (455, 26066), (459, 26084), (461, 26114), (475, 26198), (503, 26399), (508, 26441), (527, 26567),

Gene: Glexan_24 Start: 21900, Stop: 24296, Start Num: 84

Candidate Starts for Glexan_24:

(Start: 84 @21900 has 125 MA's), (133, 22077), (141, 22098), (190, 22245), (211, 22386), (217, 22419), (222, 22452), (228, 22488), (248, 22581), (261, 22641), (265, 22659), (291, 22791), (323, 22968), (331, 23013), (364, 23187), (368, 23208), (374, 23247), (378, 23268), (380, 23283), (408, 23439), (409, 23457), (420, 23511), (432, 23595), (481, 23919), (508, 24150), (517, 24234), (524, 24267),

Gene: Goku_26 Start: 21998, Stop: 24394, Start Num: 84

Candidate Starts for Goku_26:

(Start: 84 @21998 has 125 MA's), (133, 22175), (141, 22196), (190, 22343), (211, 22484), (217, 22517), (222, 22550), (228, 22586), (248, 22679), (261, 22739), (265, 22757), (281, 22838), (323, 23066), (331, 23111), (368, 23306), (369, 23312), (371, 23321), (378, 23366), (380, 23381), (408, 23537), (409, 23555), (412, 23564), (421, 23618), (432, 23693), (433, 23696), (463, 23906), (465, 23918), (483, 24032), (508, 24248), (517, 24332), (522, 24356), (524, 24365),

Gene: GoldenSpark_28 Start: 22274, Stop: 24670, Start Num: 84

Candidate Starts for GoldenSpark_28:

(Start: 84 @22274 has 125 MA's), (133, 22451), (141, 22472), (190, 22619), (217, 22793), (222, 22826), (228, 22862), (248, 22955), (261, 23015), (265, 23033), (291, 23165), (298, 23210), (323, 23342), (331, 23387), (346, 23447), (364, 23561), (368, 23582), (374, 23621), (378, 23642), (380, 23657), (407, 23807), (408, 23813), (409, 23831), (420, 23885), (432, 23969), (483, 24308), (508, 24524), (517, 24608), (524, 24641),

Gene: Goldilocks_27 Start: 21694, Stop: 24090, Start Num: 84

Candidate Starts for Goldilocks_27:

(Start: 84 @21694 has 125 MA's), (133, 21871), (141, 21892), (190, 22039), (211, 22180), (217, 22213), (222, 22246), (228, 22282), (248, 22375), (261, 22435), (265, 22453), (291, 22585), (298, 22630), (323, 22762), (331, 22807), (346, 22867), (364, 22981), (368, 23002), (374, 23041), (378, 23062), (380, 23077), (407, 23227), (408, 23233), (409, 23251), (420, 23305), (432, 23389), (447, 23482), (483, 23728), (508, 23944), (517, 24028), (524, 24061),

Gene: Gonephishing_34 Start: 28088, Stop: 30448, Start Num: 111

Candidate Starts for Gonephishing_34:

(Start: 52 @27893 has 221 MA's), (111, 28088), (119, 28124), (124, 28139), (137, 28187), (168, 28298), (169, 28301), (179, 28331), (186, 28346), (197, 28424), (201, 28448), (210, 28514), (218, 28559), (222, 28589), (223, 28595), (224, 28613), (232, 28637), (234, 28646), (240, 28679), (242, 28685), (248, 28715), (258, 28754), (259, 28766), (261, 28775), (264, 28790), (265, 28793), (287, 28904), (288, 28907), (289, 28916), (290, 28922), (293, 28937), (294, 28940), (303, 28991), (306, 29003), (310, 29036), (323, 29102), (331, 29147), (332, 29150), (339, 29177), (341, 29183), (348, 29237), (349, 29240), (365, 29327), (368, 29342), (370, 29354), (371, 29357), (381, 29423), (389, 29468), (391, 29477), (400, 29537), (401, 29540), (408, 29576), (409, 29594), (413, 29606), (414, 29615), (419, 29642), (430, 29711), (432, 29729), (434, 29738), (435, 29750), (439, 29786), (444, 29816), (448, 29837), (453, 29861), (458, 29897), (464, 29951), (473, 30011), (479, 30053), (495, 30188), (499, 30212), (505, 30266), (508, 30314), (514, 30356), (516, 30380), (517, 30383),

Gene: GooberAzure_28 Start: 22274, Stop: 24670, Start Num: 84

Candidate Starts for GooberAzure_28:

(Start: 84 @22274 has 125 MA's), (133, 22451), (141, 22472), (190, 22619), (211, 22760), (217, 22793), (222, 22826), (228, 22862), (248, 22955), (261, 23015), (265, 23033), (291, 23165), (298,

23210), (323, 23342), (331, 23387), (346, 23447), (364, 23561), (368, 23582), (374, 23621), (378, 23642), (380, 23657), (407, 23807), (408, 23813), (409, 23831), (420, 23885), (432, 23969), (447, 24062), (483, 24308), (508, 24524), (517, 24608), (524, 24641),

Gene: Gorge_18 Start: 17383, Stop: 19926, Start Num: 52

Candidate Starts for Gorge_18:

(Start: 52 @17383 has 221 MA's), (59, 17404), (66, 17425), (79, 17464), (104, 17533), (106, 17542), (107, 17545), (111, 17563), (124, 17611), (137, 17659), (168, 17770), (169, 17773), (180, 17806), (186, 17818), (197, 17896), (205, 17962), (211, 17995), (219, 18049), (222, 18061), (233, 18115), (234, 18118), (237, 18127), (243, 18160), (252, 18199), (254, 18202), (257, 18217), (258, 18220), (262, 18247), (263, 18253), (264, 18256), (265, 18259), (270, 18286), (272, 18304), (274, 18307), (289, 18382), (293, 18403), (294, 18406), (297, 18433), (303, 18457), (310, 18502), (311, 18505), (320, 18556), (332, 18619), (334, 18628), (340, 18652), (359, 18757), (361, 18760), (368, 18811), (369, 18817), (370, 18823), (371, 18826), (378, 18871), (380, 18886), (384, 18913), (389, 18937), (397, 18988), (400, 19006), (401, 19009), (402, 19021), (413, 19075), (432, 19198), (440, 19261), (451, 19324), (460, 19399), (490, 19600), (513, 19828), (519, 19867), (520, 19870),

Gene: Grimmer_19 Start: 18060, Stop: 20597, Start Num: 52

Candidate Starts for Grimmer_19:

(Start: 52 @18060 has 221 MA's), (59, 18081), (Start: 69 @18102 has 1 MA's), (78, 18141), (104, 18210), (106, 18219), (107, 18222), (111, 18240), (124, 18288), (168, 18447), (169, 18450), (186, 18495), (197, 18573), (200, 18594), (201, 18597), (210, 18663), (222, 18738), (223, 18744), (232, 18786), (233, 18792), (234, 18795), (240, 18828), (242, 18834), (248, 18864), (254, 18885), (259, 18915), (261, 18924), (284, 19032), (286, 19044), (287, 19053), (288, 19056), (289, 19065), (290, 19071), (293, 19086), (294, 19089), (296, 19110), (303, 19140), (306, 19152), (310, 19185), (311, 19188), (323, 19251), (331, 19296), (332, 19299), (339, 19326), (341, 19332), (348, 19386), (349, 19389), (352, 19416), (368, 19491), (370, 19503), (371, 19506), (381, 19572), (384, 19593), (386, 19596), (389, 19617), (400, 19686), (401, 19689), (408, 19725), (409, 19743), (414, 19764), (430, 19860), (432, 19878), (434, 19887), (435, 19899), (439, 19935), (444, 19965), (458, 20046), (464, 20100), (479, 20202), (495, 20337), (499, 20361), (505, 20415), (511, 20484), (516, 20529), (517, 20532),

Gene: Gumball_29 Start: 24266, Stop: 26536, Start Num: 145

Candidate Starts for Gumball_29:

(Start: 145 @24266 has 21 MA's), (176, 24401), (178, 24410), (205, 24584), (206, 24590), (209, 24602), (236, 24755), (239, 24770), (241, 24785), (314, 25166), (316, 25172), (326, 25217), (343, 25304), (364, 25430), (377, 25505), (378, 25511), (385, 25559), (391, 25589), (393, 25613), (422, 25802), (425, 25829), (434, 25877), (443, 25949), (450, 25988), (454, 26009), (455, 26024), (459, 26042), (461, 26072), (475, 26156), (503, 26357), (508, 26399), (527, 26525),

Gene: Guppsters_19 Start: 17584, Stop: 20109, Start Num: 52

Candidate Starts for Guppsters_19:

(Start: 52 @17584 has 221 MA's), (86, 17674), (104, 17734), (106, 17743), (107, 17746), (111, 17764), (124, 17812), (136, 17857), (168, 17971), (169, 17974), (175, 17995), (180, 18007), (186, 18019), (197, 18097), (205, 18163), (211, 18196), (219, 18250), (222, 18262), (233, 18316), (234, 18319), (237, 18328), (243, 18361), (254, 18403), (257, 18418), (262, 18448), (263, 18454), (264, 18457), (265, 18460), (270, 18487), (272, 18505), (274, 18508), (289, 18583), (293, 18604), (294, 18607), (297, 18634), (303, 18658), (306, 18670), (320, 18757), (332, 18820), (334, 18829), (340, 18853), (359, 18958), (361, 18961), (368, 19012), (369, 19018), (370, 19024), (371, 19027), (378, 19072), (380, 19087), (384, 19114), (389, 19138), (391, 19147), (400, 19207), (401, 19210), (402, 19222), (409, 19264), (413, 19276), (432, 19399), (440, 19462), (451, 19525), (460, 19600), (490, 19801), (508, 19972), (513, 20011), (519, 20050), (520, 20053),

Gene: Hades_18 Start: 17406, Stop: 19958, Start Num: 52

Candidate Starts for Hades_18:

(Start: 52 @17406 has 221 MA's), (86, 17496), (104, 17556), (106, 17565), (107, 17568), (111, 17586), (124, 17634), (136, 17679), (168, 17793), (169, 17796), (174, 17808), (180, 17829), (184, 17838), (186, 17841), (197, 17919), (205, 17985), (211, 18018), (218, 18054), (221, 18078), (233, 18138), (234, 18141), (238, 18159), (252, 18222), (254, 18225), (258, 18243), (261, 18264), (265, 18282), (270, 18309), (274, 18330), (281, 18363), (289, 18405), (290, 18411), (291, 18414), (294, 18429), (297, 18456), (298, 18459), (303, 18480), (306, 18492), (310, 18525), (329, 18618), (348, 18726), (351, 18750), (352, 18756), (358, 18774), (359, 18777), (363, 18801), (368, 18831), (372, 18855), (378, 18891), (379, 18897), (380, 18906), (384, 18933), (394, 18996), (397, 19020), (398, 19035), (407, 19077), (415, 19128), (431, 19224), (432, 19239), (434, 19248), (437, 19272), (447, 19335), (453, 19371), (493, 19677), (499, 19722), (508, 19824),

Gene: Hamulus_18 Start: 17403, Stop: 19940, Start Num: 52

Candidate Starts for Hamulus_18:

(49, 17391), (Start: 52 @17403 has 221 MA's), (59, 17424), (Start: 69 @17445 has 1 MA's), (78, 17484), (104, 17553), (106, 17562), (107, 17565), (111, 17583), (119, 17616), (124, 17631), (137, 17679), (166, 17784), (168, 17790), (169, 17793), (179, 17823), (184, 17835), (186, 17838), (197, 17916), (201, 17940), (210, 18006), (222, 18081), (223, 18087), (224, 18105), (232, 18129), (234, 18138), (240, 18171), (242, 18177), (248, 18207), (258, 18246), (259, 18258), (261, 18267), (264, 18282), (265, 18285), (287, 18396), (288, 18399), (289, 18408), (290, 18414), (293, 18429), (294, 18432), (296, 18453), (303, 18483), (306, 18495), (310, 18528), (323, 18594), (331, 18639), (332, 18642), (339, 18669), (341, 18675), (348, 18729), (349, 18732), (365, 18819), (368, 18834), (370, 18846), (371, 18849), (381, 18915), (389, 18960), (391, 18969), (400, 19029), (401, 19032), (408, 19068), (409, 19086), (413, 19098), (414, 19107), (419, 19134), (430, 19203), (432, 19221), (434, 19230), (435, 19242), (439, 19278), (444, 19308), (448, 19329), (453, 19353), (458, 19389), (464, 19443), (473, 19503), (479, 19545), (495, 19680), (499, 19704), (505, 19758), (508, 19806), (514, 19848), (516, 19872), (517, 19875),

Gene: HanKaySha_27 Start: 22026, Stop: 24422, Start Num: 84

Candidate Starts for HanKaySha_27:

(Start: 84 @22026 has 125 MA's), (133, 22203), (141, 22224), (190, 22371), (217, 22545), (222, 22578), (228, 22614), (248, 22707), (261, 22767), (265, 22785), (291, 22917), (298, 22962), (323, 23094), (331, 23139), (346, 23199), (364, 23313), (368, 23334), (374, 23373), (378, 23394), (380, 23409), (407, 23559), (408, 23565), (409, 23583), (420, 23637), (432, 23721), (447, 23814), (483, 24060), (508, 24276), (517, 24360), (524, 24393),

Gene: Hannaconda_33 Start: 26378, Stop: 28873, Start Num: 52

Candidate Starts for Hannaconda_33:

(Start: 52 @26378 has 221 MA's), (111, 26573), (119, 26609), (124, 26624), (153, 26711), (161, 26726), (169, 26762), (172, 26768), (184, 26801), (188, 26813), (215, 26984), (218, 26993), (222, 27017), (233, 27071), (240, 27107), (242, 27113), (248, 27143), (256, 27173), (259, 27194), (261, 27203), (264, 27218), (278, 27287), (294, 27368), (295, 27377), (298, 27398), (299, 27401), (306, 27431), (311, 27467), (320, 27518), (321, 27527), (323, 27530), (329, 27557), (330, 27566), (334, 27587), (348, 27665), (349, 27668), (363, 27740), (369, 27776), (370, 27782), (377, 27824), (378, 27830), (384, 27872), (386, 27875), (389, 27896), (390, 27902), (391, 27905), (396, 27935), (418, 28076), (420, 28085), (421, 28094), (424, 28127), (430, 28151), (431, 28154), (432, 28169), (435, 28190), (439, 28226), (440, 28232), (441, 28238), (445, 28259), (449, 28286), (467, 28421), (478, 28493), (480, 28499), (483, 28517), (495, 28616), (508, 28733), (518, 28814), (520, 28817), (524, 28844),

Gene: Harella_25 Start: 22416, Stop: 24812, Start Num: 84

Candidate Starts for Harella_25:

(Start: 84 @22416 has 125 MA's), (133, 22593), (141, 22614), (190, 22761), (211, 22902), (217, 22935), (222, 22968), (228, 23004), (248, 23097), (261, 23157), (265, 23175), (291, 23307), (323, 23484), (331, 23529), (364, 23703), (368, 23724), (374, 23763), (378, 23784), (380, 23799), (408, 23955), (409, 23973), (420, 24027), (432, 24111), (481, 24435), (508, 24666), (517, 24750), (524, 24783),

Gene: Harley_18 Start: 17393, Stop: 19930, Start Num: 52

Candidate Starts for Harley_18:

(Start: 52 @17393 has 221 MA's), (59, 17414), (Start: 69 @17435 has 1 MA's), (78, 17474), (104, 17543), (106, 17552), (107, 17555), (111, 17573), (124, 17621), (168, 17780), (169, 17783), (186, 17828), (200, 17927), (201, 17930), (210, 17996), (222, 18071), (223, 18077), (224, 18095), (232, 18119), (233, 18125), (234, 18128), (240, 18161), (242, 18167), (248, 18197), (254, 18218), (258, 18236), (261, 18257), (284, 18365), (286, 18377), (287, 18386), (288, 18389), (289, 18398), (290, 18404), (293, 18419), (294, 18422), (296, 18443), (306, 18485), (310, 18518), (311, 18521), (323, 18584), (331, 18629), (332, 18632), (341, 18665), (348, 18719), (349, 18722), (352, 18749), (368, 18824), (370, 18836), (371, 18839), (381, 18905), (384, 18926), (386, 18929), (389, 18950), (397, 19001), (400, 19019), (401, 19022), (407, 19052), (409, 19076), (413, 19088), (414, 19097), (430, 19193), (432, 19211), (434, 19220), (435, 19232), (439, 19268), (444, 19298), (447, 19307), (448, 19319), (453, 19343), (458, 19379), (473, 19493), (479, 19535), (495, 19670), (499, 19694), (505, 19748), (508, 19796), (511, 19817), (516, 19862), (517, 19865),

Gene: Hawkeye_32 Start: 24298, Stop: 27204, Start Num: 20

Candidate Starts for Hawkeye_32:

(Start: 20 @24298 has 1 MA's), (24, 24391), (27, 24412), (30, 24433), (32, 24442), (75, 24658), (164, 25009), (187, 25105), (198, 25180), (240, 25429), (247, 25456), (278, 25609), (284, 25633), (290, 25672), (333, 25903), (335, 25906), (352, 26014), (368, 26089), (379, 26155), (409, 26347), (413, 26359), (421, 26410), (439, 26542), (471, 26761), (500, 26992), (509, 27076),

Gene: Hegedechwinu_19 Start: 17254, Stop: 19785, Start Num: 52

Candidate Starts for Hegedechwinu_19:

(49, 17242), (Start: 52 @17254 has 221 MA's), (59, 17275), (Start: 69 @17296 has 1 MA's), (78, 17335), (104, 17404), (106, 17413), (107, 17416), (111, 17434), (119, 17467), (124, 17482), (137, 17524), (168, 17635), (169, 17638), (179, 17668), (186, 17683), (197, 17761), (210, 17851), (218, 17896), (222, 17926), (223, 17932), (224, 17950), (232, 17974), (234, 17983), (240, 18016), (242, 18022), (248, 18052), (258, 18091), (259, 18103), (261, 18112), (264, 18127), (265, 18130), (287, 18241), (288, 18244), (289, 18253), (290, 18259), (293, 18274), (294, 18277), (296, 18298), (303, 18328), (306, 18340), (310, 18373), (331, 18484), (332, 18487), (339, 18514), (341, 18520), (348, 18574), (349, 18577), (368, 18679), (370, 18691), (371, 18694), (381, 18760), (386, 18784), (389, 18805), (391, 18814), (400, 18874), (401, 18877), (408, 18913), (409, 18931), (413, 18943), (414, 18952), (419, 18979), (430, 19048), (432, 19066), (434, 19075), (435, 19087), (439, 19123), (444, 19153), (448, 19174), (453, 19198), (458, 19234), (464, 19288), (473, 19348), (479, 19390), (487, 19468), (495, 19525), (499, 19549), (505, 19603), (508, 19651), (514, 19693), (516, 19717), (517, 19720),

Gene: Helpful_31 Start: 24316, Stop: 26586, Start Num: 145

Candidate Starts for Helpful_31:

(Start: 145 @24316 has 21 MA's), (176, 24451), (178, 24460), (205, 24634), (206, 24640), (209, 24652), (236, 24805), (239, 24820), (241, 24835), (314, 25216), (316, 25222), (326, 25267), (343, 25354), (378, 25561), (385, 25609), (391, 25639), (393, 25663), (422, 25852), (425, 25879), (434, 25927), (443, 25999), (450, 26038), (454, 26059), (455, 26074), (459, 26092), (461, 26122), (475, 26206), (503, 26407), (508, 26449), (527, 26575),

Gene: Henry_26 Start: 22283, Stop: 24679, Start Num: 84

Candidate Starts for Henry_26:

(Start: 84 @22283 has 125 MA's), (133, 22460), (141, 22481), (190, 22628), (211, 22769), (217, 22802), (222, 22835), (228, 22871), (248, 22964), (261, 23024), (265, 23042), (295, 23198), (298, 23219), (320, 23339), (323, 23351), (331, 23396), (368, 23591), (371, 23606), (378, 23651), (380, 23666), (408, 23822), (409, 23840), (412, 23849), (432, 23978), (433, 23981), (463, 24191), (465, 24203), (483, 24317), (508, 24533), (517, 24617), (522, 24641), (524, 24650),

Gene: Highbury_27 Start: 21945, Stop: 24341, Start Num: 84

Candidate Starts for Highbury_27:

(Start: 84 @21945 has 125 MA's), (133, 22122), (141, 22143), (190, 22290), (211, 22431), (217, 22464), (222, 22497), (228, 22533), (248, 22626), (261, 22686), (265, 22704), (291, 22836), (298, 22881), (323, 23013), (331, 23058), (346, 23118), (364, 23232), (368, 23253), (374, 23292), (378, 23313), (380, 23328), (407, 23478), (408, 23484), (409, 23502), (420, 23556), (432, 23640), (447, 23733), (483, 23979), (508, 24195), (517, 24279), (524, 24312),

Gene: Hlubikazi_18 Start: 17495, Stop: 20032, Start Num: 52

Candidate Starts for Hlubikazi_18:

(Start: 52 @17495 has 221 MA's), (59, 17516), (Start: 69 @17537 has 1 MA's), (78, 17576), (104, 17645), (106, 17654), (107, 17657), (111, 17675), (124, 17723), (168, 17882), (169, 17885), (184, 17927), (186, 17930), (197, 18008), (200, 18029), (201, 18032), (210, 18098), (222, 18173), (223, 18179), (232, 18221), (233, 18227), (234, 18230), (240, 18263), (242, 18269), (248, 18299), (254, 18320), (259, 18350), (261, 18359), (284, 18467), (286, 18479), (287, 18488), (288, 18491), (289, 18500), (290, 18506), (293, 18521), (294, 18524), (296, 18545), (306, 18587), (310, 18620), (339, 18761), (341, 18767), (348, 18821), (349, 18824), (352, 18851), (368, 18926), (370, 18938), (371, 18941), (381, 19007), (386, 19031), (389, 19052), (391, 19061), (400, 19121), (401, 19124), (408, 19160), (409, 19178), (414, 19199), (419, 19226), (430, 19295), (432, 19313), (434, 19322), (435, 19334), (439, 19370), (444, 19400), (458, 19481), (473, 19595), (479, 19637), (495, 19772), (499, 19796), (505, 19850), (516, 19964), (517, 19967),

Gene: Holt_27 Start: 21564, Stop: 23960, Start Num: 84

Candidate Starts for Holt_27:

(Start: 84 @21564 has 125 MA's), (133, 21741), (141, 21762), (190, 21909), (211, 22050), (217, 22083), (222, 22116), (228, 22152), (248, 22245), (261, 22305), (265, 22323), (291, 22455), (298, 22500), (323, 22632), (331, 22677), (346, 22737), (364, 22851), (368, 22872), (374, 22911), (378, 22932), (380, 22947), (407, 23097), (408, 23103), (409, 23121), (420, 23175), (432, 23259), (447, 23352), (483, 23598), (508, 23814), (517, 23898), (524, 23931),

Gene: Hoonter_28 Start: 22274, Stop: 24670, Start Num: 84

Candidate Starts for Hoonter_28:

(Start: 84 @22274 has 125 MA's), (133, 22451), (141, 22472), (190, 22619), (217, 22793), (222, 22826), (228, 22862), (248, 22955), (261, 23015), (265, 23033), (291, 23165), (298, 23210), (323, 23342), (331, 23387), (346, 23447), (364, 23561), (368, 23582), (374, 23621), (378, 23642), (380, 23657), (407, 23807), (408, 23813), (409, 23831), (420, 23885), (432, 23969), (447, 24062), (483, 24308), (508, 24524), (517, 24608), (524, 24641),

Gene: Hohey_28 Start: 22561, Stop: 24957, Start Num: 84

Candidate Starts for Hohey_28:

(Start: 84 @22561 has 125 MA's), (133, 22738), (141, 22759), (190, 22906), (217, 23080), (222, 23113), (228, 23149), (248, 23242), (261, 23302), (265, 23320), (291, 23452), (298, 23497), (323, 23629), (331, 23674), (346, 23734), (364, 23848), (368, 23869), (374, 23908), (378, 23929), (380, 23944), (407, 24094), (408, 24100), (409, 24118), (420, 24172), (432, 24256), (447, 24349), (483, 24595), (508, 24811), (517, 24895), (524, 24928),

Gene: HufflyPuff_25 Start: 22268, Stop: 24664, Start Num: 84

Candidate Starts for HufflyPuff_25:

(Start: 84 @22268 has 125 MA's), (133, 22445), (141, 22466), (190, 22613), (211, 22754), (217, 22787), (222, 22820), (228, 22856), (248, 22949), (261, 23009), (265, 23027), (291, 23159), (298, 23204), (323, 23336), (331, 23381), (346, 23441), (364, 23555), (368, 23576), (374, 23615), (378, 23636), (380, 23651), (407, 23801), (408, 23807), (409, 23825), (420, 23879), (432, 23963), (447, 24056), (483, 24302), (508, 24518), (517, 24602), (524, 24635),

Gene: IHOP_26 Start: 22460, Stop: 24856, Start Num: 84

Candidate Starts for IHOP_26:

(Start: 84 @22460 has 125 MA's), (133, 22637), (141, 22658), (190, 22805), (211, 22946), (217, 22979), (222, 23012), (228, 23048), (248, 23141), (261, 23201), (265, 23219), (295, 23375), (298, 23396), (320, 23516), (323, 23528), (331, 23573), (368, 23768), (369, 23774), (371, 23783), (378, 23828), (380, 23843), (408, 23999), (409, 24017), (412, 24026), (421, 24080), (432, 24155), (433, 24158), (463, 24368), (465, 24380), (483, 24494), (508, 24710), (517, 24794), (522, 24818), (524, 24827),

Gene: IMpilo_18 Start: 17430, Stop: 19967, Start Num: 52

Candidate Starts for IMpilo_18:

(49, 17418), (Start: 52 @17430 has 221 MA's), (59, 17451), (Start: 69 @17472 has 1 MA's), (78, 17511), (104, 17580), (106, 17589), (107, 17592), (111, 17610), (119, 17643), (124, 17658), (137, 17706), (168, 17817), (169, 17820), (179, 17850), (184, 17862), (186, 17865), (197, 17943), (201, 17967), (210, 18033), (218, 18078), (222, 18108), (223, 18114), (224, 18132), (232, 18156), (234, 18165), (240, 18198), (242, 18204), (248, 18234), (258, 18273), (259, 18285), (261, 18294), (264, 18309), (265, 18312), (287, 18423), (288, 18426), (289, 18435), (290, 18441), (293, 18456), (294, 18459), (296, 18480), (303, 18510), (306, 18522), (310, 18555), (331, 18666), (332, 18669), (339, 18696), (341, 18702), (348, 18756), (349, 18759), (368, 18861), (370, 18873), (371, 18876), (381, 18942), (386, 18966), (389, 18987), (391, 18996), (400, 19056), (401, 19059), (408, 19095), (409, 19113), (413, 19125), (414, 19134), (419, 19161), (430, 19230), (432, 19248), (434, 19257), (435, 19269), (439, 19305), (444, 19335), (448, 19356), (453, 19380), (458, 19416), (464, 19470), (473, 19530), (479, 19572), (487, 19650), (495, 19707), (499, 19731), (505, 19785), (508, 19833), (514, 19875), (516, 19899), (517, 19902),

Gene: IbOuu_18 Start: 17397, Stop: 19934, Start Num: 52

Candidate Starts for IbOuu_18:

(49, 17385), (Start: 52 @17397 has 221 MA's), (59, 17418), (Start: 69 @17439 has 1 MA's), (78, 17478), (104, 17547), (106, 17556), (107, 17559), (111, 17577), (124, 17625), (137, 17673), (168, 17784), (169, 17787), (186, 17832), (197, 17910), (201, 17934), (210, 18000), (218, 18045), (222, 18075), (223, 18081), (224, 18099), (232, 18123), (234, 18132), (240, 18165), (242, 18171), (248, 18201), (258, 18240), (259, 18252), (261, 18261), (264, 18276), (265, 18279), (287, 18390), (288, 18393), (289, 18402), (290, 18408), (293, 18423), (294, 18426), (296, 18447), (303, 18477), (306, 18489), (310, 18522), (331, 18633), (332, 18636), (339, 18663), (341, 18669), (348, 18723), (349, 18726), (368, 18828), (370, 18840), (371, 18843), (381, 18909), (386, 18933), (389, 18954), (391, 18963), (400, 19023), (401, 19026), (408, 19062), (409, 19080), (414, 19101), (419, 19128), (430, 19197), (432, 19215), (434, 19224), (435, 19236), (439, 19272), (448, 19323), (451, 19341), (458, 19383), (464, 19437), (479, 19539), (495, 19674), (499, 19698), (505, 19752), (511, 19821), (516, 19866), (517, 19869),

Gene: Ibhubesi_18 Start: 17393, Stop: 19930, Start Num: 52

Candidate Starts for Ibhubesi_18:

(Start: 52 @17393 has 221 MA's), (59, 17414), (Start: 69 @17435 has 1 MA's), (78, 17474), (104, 17543), (106, 17552), (107, 17555), (111, 17573), (124, 17621), (168, 17780), (169, 17783), (186, 17828), (200, 17927), (201, 17930), (210, 17996), (222, 18071), (223, 18077), (224, 18095), (232,

18119), (233, 18125), (234, 18128), (240, 18161), (242, 18167), (248, 18197), (254, 18218), (258, 18236), (261, 18257), (284, 18365), (286, 18377), (287, 18386), (288, 18389), (289, 18398), (290, 18404), (293, 18419), (294, 18422), (296, 18443), (306, 18485), (310, 18518), (311, 18521), (323, 18584), (331, 18629), (332, 18632), (341, 18665), (348, 18719), (349, 18722), (352, 18749), (368, 18824), (370, 18836), (371, 18839), (381, 18905), (384, 18926), (386, 18929), (389, 18950), (397, 19001), (400, 19019), (401, 19022), (407, 19052), (409, 19076), (413, 19088), (414, 19097), (430, 19193), (432, 19211), (434, 19220), (435, 19232), (439, 19268), (444, 19298), (447, 19307), (448, 19319), (453, 19343), (458, 19379), (473, 19493), (479, 19535), (495, 19670), (499, 19694), (505, 19748), (508, 19796), (511, 19817), (516, 19862), (517, 19865),

Gene: Icee_25 Start: 21943, Stop: 24339, Start Num: 84

Candidate Starts for Icee_25:

(Start: 84 @21943 has 125 MA's), (133, 22120), (141, 22141), (190, 22288), (211, 22429), (217, 22462), (222, 22495), (228, 22531), (248, 22624), (261, 22684), (265, 22702), (281, 22783), (323, 23011), (331, 23056), (368, 23251), (369, 23257), (371, 23266), (378, 23311), (380, 23326), (408, 23482), (409, 23500), (412, 23509), (432, 23638), (433, 23641), (463, 23851), (465, 23863), (483, 23977), (508, 24193), (517, 24277), (522, 24301), (524, 24310),

Gene: Idergollasper_58 Start: 36096, Stop: 38606, Start Num: 65

Candidate Starts for Idergollasper_58:

(Start: 65 @36096 has 28 MA's), (72, 36129), (91, 36198), (92, 36201), (100, 36225), (107, 36249), (114, 36273), (119, 36306), (170, 36513), (173, 36525), (174, 36528), (204, 36675), (205, 36705), (210, 36729), (216, 36759), (217, 36762), (222, 36789), (224, 36813), (233, 36843), (245, 36900), (249, 36924), (258, 36960), (259, 36972), (264, 36996), (265, 36999), (271, 37041), (293, 37137), (294, 37140), (344, 37395), (368, 37539), (378, 37599), (388, 37671), (389, 37674), (405, 37770), (432, 37944), (435, 37965), (449, 38058), (452, 38070), (464, 38160), (477, 38235), (486, 38280), (510, 38481), (515, 38535), (520, 38550),

Gene: Inca_25 Start: 20963, Stop: 23359, Start Num: 84

Candidate Starts for Inca_25:

(Start: 84 @20963 has 125 MA's), (133, 21140), (141, 21161), (190, 21308), (211, 21449), (217, 21482), (222, 21515), (228, 21551), (248, 21644), (261, 21704), (265, 21722), (291, 21854), (298, 21899), (323, 22031), (331, 22076), (346, 22136), (364, 22250), (368, 22271), (374, 22310), (378, 22331), (380, 22346), (407, 22496), (408, 22502), (409, 22520), (420, 22574), (432, 22658), (447, 22751), (483, 22997), (508, 23213), (517, 23297), (524, 23330),

Gene: Indlulamithi_27 Start: 22936, Stop: 26442, Start Num: 3

Candidate Starts for Indlulamithi_27:

(Start: 3 @22936 has 1 MA's), (6, 23059), (7, 23110), (13, 23290), (17, 23401), (18, 23425), (19, 23434), (25, 23551), (26, 23554), (28, 23560), (29, 23572), (31, 23587), (34, 23596), (39, 23641), (121, 24019), (135, 24088), (150, 24154), (156, 24175), (158, 24181), (163, 24205), (199, 24430), (212, 24535), (225, 24619), (259, 24799), (261, 24808), (263, 24820), (270, 24853), (280, 24904), (288, 24940), (298, 25003), (305, 25045), (308, 25072), (318, 25126), (319, 25135), (328, 25180), (348, 25300), (351, 25330), (353, 25339), (354, 25342), (378, 25486), (382, 25522), (386, 25531), (390, 25558), (393, 25579), (403, 25639), (409, 25678), (414, 25702), (428, 25780), (485, 26194), (491, 26251), (495, 26293), (506, 26371),

Gene: Inventum_18 Start: 17532, Stop: 20069, Start Num: 52

Candidate Starts for Inventum_18:

(Start: 52 @17532 has 221 MA's), (59, 17553), (Start: 69 @17574 has 1 MA's), (78, 17613), (104, 17682), (106, 17691), (107, 17694), (111, 17712), (124, 17760), (137, 17808), (168, 17919), (169, 17922), (186, 17967), (197, 18045), (201, 18069), (210, 18135), (222, 18210), (223, 18216), (224, 18234), (232, 18258), (234, 18267), (240, 18300), (242, 18306), (248, 18336), (254, 18357), (259,

18387), (261, 18396), (284, 18504), (286, 18516), (287, 18525), (288, 18528), (290, 18543), (293, 18558), (294, 18561), (296, 18582), (306, 18624), (310, 18657), (331, 18768), (332, 18771), (339, 18798), (341, 18804), (348, 18858), (349, 18861), (352, 18888), (368, 18963), (370, 18975), (371, 18978), (381, 19044), (384, 19065), (386, 19068), (389, 19089), (391, 19098), (397, 19140), (400, 19158), (401, 19161), (407, 19191), (409, 19215), (413, 19227), (414, 19236), (430, 19332), (432, 19350), (434, 19359), (435, 19371), (439, 19407), (444, 19437), (447, 19446), (448, 19458), (458, 19518), (464, 19572), (473, 19632), (479, 19674), (495, 19809), (499, 19833), (505, 19887), (508, 19935), (514, 19977), (516, 20001), (517, 20004),

Gene: IrishSherpFalk_19 Start: 18757, Stop: 21294, Start Num: 52

Candidate Starts for IrishSherpFalk_19:

(Start: 52 @18757 has 221 MA's), (59, 18778), (Start: 69 @18799 has 1 MA's), (78, 18838), (104, 18907), (106, 18916), (107, 18919), (111, 18937), (124, 18985), (166, 19138), (169, 19147), (186, 19192), (200, 19291), (201, 19294), (210, 19360), (222, 19435), (223, 19441), (224, 19459), (232, 19483), (233, 19489), (234, 19492), (240, 19525), (242, 19531), (248, 19561), (254, 19582), (259, 19612), (261, 19621), (264, 19636), (265, 19639), (287, 19750), (288, 19753), (289, 19762), (290, 19768), (293, 19783), (294, 19786), (296, 19807), (303, 19837), (306, 19849), (310, 19882), (331, 19993), (332, 19996), (339, 20023), (341, 20029), (348, 20083), (349, 20086), (365, 20173), (368, 20188), (370, 20200), (371, 20203), (381, 20269), (386, 20293), (389, 20314), (391, 20323), (400, 20383), (401, 20386), (408, 20422), (409, 20440), (413, 20452), (414, 20461), (419, 20488), (429, 20545), (430, 20557), (432, 20575), (434, 20584), (435, 20596), (439, 20632), (444, 20662), (447, 20671), (448, 20683), (458, 20743), (464, 20797), (473, 20857), (479, 20899), (495, 21034), (499, 21058), (505, 21112), (508, 21160), (514, 21202), (516, 21226), (517, 21229),

Gene: Island3_21 Start: 19089, Stop: 21620, Start Num: 57

Candidate Starts for Island3_21:

(Start: 57 @19089 has 2 MA's), (64, 19113), (95, 19224), (99, 19233), (107, 19260), (142, 19407), (200, 19674), (204, 19689), (205, 19719), (206, 19725), (210, 19743), (232, 19851), (242, 19902), (265, 20013), (266, 20016), (271, 20055), (281, 20088), (294, 20154), (306, 20214), (309, 20241), (310, 20247), (368, 20553), (378, 20613), (383, 20661), (384, 20664), (388, 20685), (389, 20688), (432, 20949), (451, 21072), (452, 21075), (464, 21165), (472, 21222), (477, 21243), (490, 21303), (512, 21504), (515, 21546),

Gene: Jabbawokkie_26 Start: 17616, Stop: 20168, Start Num: 44

Candidate Starts for Jabbawokkie_26:

(41, 17607), (Start: 44 @17616 has 7 MA's), (Start: 52 @17676 has 221 MA's), (64, 17712), (97, 17811), (138, 17952), (153, 17991), (161, 18006), (169, 18042), (172, 18048), (173, 18051), (179, 18069), (188, 18093), (192, 18117), (193, 18120), (215, 18264), (218, 18273), (222, 18297), (224, 18321), (232, 18345), (233, 18351), (238, 18372), (239, 18375), (242, 18393), (248, 18426), (256, 18456), (259, 18477), (278, 18570), (281, 18585), (284, 18594), (287, 18615), (288, 18618), (295, 18660), (303, 18702), (304, 18705), (306, 18714), (309, 18741), (311, 18750), (318, 18789), (321, 18810), (323, 18813), (330, 18849), (334, 18870), (348, 18948), (349, 18951), (362, 19005), (370, 19065), (383, 19152), (386, 19158), (389, 19179), (396, 19215), (404, 19269), (407, 19278), (418, 19356), (421, 19374), (425, 19410), (426, 19413), (430, 19431), (432, 19449), (439, 19506), (441, 19518), (453, 19581), (458, 19614), (467, 19701), (476, 19749), (478, 19773), (483, 19809), (486, 19848), (492, 19887), (495, 19911), (498, 19932), (508, 20028), (511, 20049), (518, 20109), (520, 20112), (524, 20139),

Gene: JacoRen57_20 Start: 18844, Stop: 20730, Start Num: 213

Candidate Starts for JacoRen57_20:

(Start: 213 @18844 has 1 MA's), (226, 18928), (258, 19060), (273, 19135), (282, 19171), (283, 19174), (297, 19261), (302, 19279), (307, 19306), (316, 19363), (336, 19462), (350, 19543), (357, 19588), (366, 19633), (374, 19684), (376, 19693), (387, 19762), (395, 19816), (402, 19876), (416, 19960),

(422, 19996), (423, 20017), (425, 20023), (429, 20032), (434, 20071), (450, 20182), (454, 20203), (461, 20266), (462, 20269), (468, 20311), (475, 20350), (516, 20665), (518, 20671), (521, 20680), (523, 20695), (525, 20704), (527, 20719),

Gene: JalFarm20_20 Start: 17767, Stop: 20304, Start Num: 52

Candidate Starts for JalFarm20_20:

(49, 17755), (Start: 52 @17767 has 221 MA's), (59, 17788), (Start: 69 @17809 has 1 MA's), (78, 17848), (104, 17917), (106, 17926), (107, 17929), (111, 17947), (119, 17980), (124, 17995), (137, 18043), (168, 18154), (169, 18157), (179, 18187), (184, 18199), (186, 18202), (197, 18280), (201, 18304), (210, 18370), (218, 18415), (222, 18445), (223, 18451), (224, 18469), (232, 18493), (234, 18502), (240, 18535), (242, 18541), (248, 18571), (258, 18610), (259, 18622), (261, 18631), (264, 18646), (265, 18649), (287, 18760), (288, 18763), (289, 18772), (290, 18778), (293, 18793), (294, 18796), (296, 18817), (303, 18847), (306, 18859), (310, 18892), (331, 19003), (332, 19006), (339, 19033), (341, 19039), (348, 19093), (349, 19096), (365, 19183), (368, 19198), (370, 19210), (371, 19213), (381, 19279), (386, 19303), (389, 19324), (391, 19333), (400, 19393), (401, 19396), (408, 19432), (409, 19450), (413, 19462), (414, 19471), (419, 19498), (430, 19567), (432, 19585), (434, 19594), (435, 19606), (439, 19642), (444, 19672), (448, 19693), (453, 19717), (458, 19753), (464, 19807), (473, 19867), (479, 19909), (487, 19987), (495, 20044), (499, 20068), (505, 20122), (508, 20170), (514, 20212), (516, 20236), (517, 20239),

Gene: James_18 Start: 17397, Stop: 19922, Start Num: 52

Candidate Starts for James_18:

(Start: 52 @17397 has 221 MA's), (59, 17418), (66, 17439), (79, 17478), (104, 17547), (106, 17556), (107, 17559), (111, 17577), (124, 17625), (137, 17673), (168, 17784), (169, 17787), (180, 17820), (186, 17832), (197, 17910), (205, 17976), (211, 18009), (219, 18063), (222, 18075), (233, 18129), (234, 18132), (237, 18141), (243, 18174), (252, 18213), (254, 18216), (257, 18231), (258, 18234), (262, 18261), (263, 18267), (264, 18270), (265, 18273), (270, 18300), (272, 18318), (274, 18321), (289, 18396), (293, 18417), (294, 18420), (297, 18447), (303, 18471), (310, 18516), (311, 18519), (320, 18570), (332, 18633), (334, 18642), (340, 18666), (359, 18771), (361, 18774), (368, 18825), (369, 18831), (370, 18837), (371, 18840), (378, 18885), (380, 18900), (384, 18927), (389, 18951), (397, 19002), (400, 19020), (401, 19023), (402, 19035), (413, 19089), (432, 19212), (440, 19275), (451, 19338), (460, 19413), (490, 19614), (513, 19824), (519, 19863), (520, 19866),

Gene: JangDynasty_58 Start: 36182, Stop: 38692, Start Num: 65

Candidate Starts for JangDynasty_58:

(Start: 65 @36182 has 28 MA's), (72, 36215), (91, 36284), (92, 36287), (100, 36311), (107, 36335), (114, 36359), (119, 36392), (170, 36599), (173, 36611), (174, 36614), (204, 36761), (205, 36791), (210, 36815), (216, 36845), (217, 36848), (222, 36875), (224, 36899), (233, 36929), (245, 36986), (249, 37010), (258, 37046), (259, 37058), (264, 37082), (265, 37085), (271, 37127), (293, 37223), (294, 37226), (344, 37481), (368, 37625), (378, 37685), (388, 37757), (389, 37760), (405, 37856), (432, 38030), (435, 38051), (449, 38144), (452, 38156), (464, 38246), (477, 38321), (486, 38366), (510, 38567), (515, 38621), (520, 38636),

Gene: Jant_18 Start: 17553, Stop: 20090, Start Num: 52

Candidate Starts for Jant_18:

(49, 17541), (Start: 52 @17553 has 221 MA's), (59, 17574), (Start: 69 @17595 has 1 MA's), (78, 17634), (104, 17703), (106, 17712), (107, 17715), (111, 17733), (119, 17766), (124, 17781), (137, 17829), (166, 17934), (168, 17940), (169, 17943), (179, 17973), (184, 17985), (186, 17988), (197, 18066), (201, 18090), (210, 18156), (218, 18201), (222, 18231), (223, 18237), (224, 18255), (232, 18279), (234, 18288), (240, 18321), (242, 18327), (248, 18357), (258, 18396), (259, 18408), (261, 18417), (264, 18432), (265, 18435), (287, 18546), (288, 18549), (289, 18558), (290, 18564), (293, 18579), (294, 18582), (296, 18603), (303, 18633), (306, 18645), (310, 18678), (331, 18789), (332, 18792), (339, 18819), (341, 18825), (348, 18879), (349, 18882), (368, 18984), (370, 18996), (371,

18999), (381, 19065), (386, 19089), (389, 19110), (391, 19119), (400, 19179), (401, 19182), (408, 19218), (409, 19236), (413, 19248), (414, 19257), (419, 19284), (430, 19353), (432, 19371), (434, 19380), (435, 19392), (439, 19428), (444, 19458), (448, 19479), (453, 19503), (458, 19539), (464, 19593), (473, 19653), (479, 19695), (495, 19830), (499, 19854), (508, 19956), (514, 19998), (516, 20022), (517, 20025),

Gene: Jarcob_18 Start: 17405, Stop: 19957, Start Num: 52

Candidate Starts for Jarcob_18:

(Start: 52 @17405 has 221 MA's), (79, 17486), (104, 17555), (106, 17564), (107, 17567), (111, 17585), (124, 17633), (136, 17678), (168, 17792), (169, 17795), (174, 17807), (180, 17828), (184, 17837), (186, 17840), (193, 17888), (197, 17918), (205, 17984), (211, 18017), (218, 18053), (221, 18077), (233, 18137), (234, 18140), (238, 18158), (252, 18221), (254, 18224), (258, 18242), (261, 18263), (265, 18281), (270, 18308), (274, 18329), (281, 18362), (289, 18404), (290, 18410), (291, 18413), (294, 18428), (297, 18455), (298, 18458), (303, 18479), (306, 18491), (310, 18524), (329, 18617), (348, 18725), (351, 18749), (352, 18755), (358, 18773), (359, 18776), (363, 18800), (368, 18830), (372, 18854), (378, 18890), (379, 18896), (380, 18905), (384, 18932), (394, 18995), (397, 19019), (398, 19034), (407, 19076), (415, 19127), (431, 19223), (432, 19238), (434, 19247), (437, 19271), (447, 19334), (453, 19370), (493, 19676), (499, 19721), (508, 19823),

Gene: JeTaime_28 Start: 23085, Stop: 25481, Start Num: 84

Candidate Starts for JeTaime_28:

(Start: 84 @23085 has 125 MA's), (133, 23262), (141, 23283), (190, 23430), (217, 23604), (222, 23637), (228, 23673), (248, 23766), (261, 23826), (265, 23844), (291, 23976), (298, 24021), (323, 24153), (331, 24198), (346, 24258), (364, 24372), (368, 24393), (374, 24432), (378, 24453), (380, 24468), (407, 24618), (408, 24624), (409, 24642), (420, 24696), (432, 24780), (447, 24873), (483, 25119), (508, 25335), (517, 25419), (524, 25452),

Gene: Jinglebell_17 Start: 17634, Stop: 20171, Start Num: 52

Candidate Starts for Jinglebell_17:

(Start: 52 @17634 has 221 MA's), (59, 17655), (Start: 69 @17676 has 1 MA's), (78, 17715), (104, 17784), (106, 17793), (107, 17796), (111, 17814), (124, 17862), (168, 18021), (169, 18024), (184, 18066), (186, 18069), (197, 18147), (200, 18168), (201, 18171), (210, 18237), (211, 18246), (218, 18282), (222, 18312), (223, 18318), (232, 18360), (233, 18366), (234, 18369), (240, 18402), (242, 18408), (248, 18438), (254, 18459), (259, 18489), (261, 18498), (284, 18606), (286, 18618), (287, 18627), (288, 18630), (289, 18639), (290, 18645), (293, 18660), (294, 18663), (296, 18684), (306, 18726), (310, 18759), (339, 18900), (341, 18906), (348, 18960), (349, 18963), (352, 18990), (368, 19065), (370, 19077), (371, 19080), (381, 19146), (384, 19167), (386, 19170), (389, 19191), (397, 19242), (400, 19260), (401, 19263), (407, 19293), (409, 19317), (413, 19329), (430, 19434), (432, 19452), (434, 19461), (435, 19473), (439, 19509), (444, 19539), (448, 19560), (453, 19584), (458, 19620), (473, 19734), (479, 19776), (487, 19854), (495, 19911), (499, 19935), (505, 19989), (508, 20037), (514, 20079), (516, 20103), (517, 20106),

Gene: Job42_21 Start: 19082, Stop: 21619, Start Num: 52

Candidate Starts for Job42_21:

(Start: 52 @19082 has 221 MA's), (Start: 69 @19124 has 1 MA's), (86, 19172), (104, 19232), (106, 19241), (107, 19244), (111, 19262), (119, 19295), (124, 19310), (137, 19358), (168, 19469), (169, 19472), (179, 19502), (184, 19514), (186, 19517), (197, 19595), (201, 19619), (210, 19685), (218, 19730), (222, 19760), (223, 19766), (224, 19784), (232, 19808), (234, 19817), (240, 19850), (242, 19856), (248, 19886), (258, 19925), (259, 19937), (261, 19946), (264, 19961), (265, 19964), (287, 20075), (288, 20078), (289, 20087), (290, 20093), (293, 20108), (294, 20111), (296, 20132), (303, 20162), (306, 20174), (310, 20207), (331, 20318), (332, 20321), (339, 20348), (341, 20354), (348, 20408), (349, 20411), (368, 20513), (370, 20525), (371, 20528), (381, 20594), (386, 20618), (389, 20639), (391, 20648), (400, 20708), (401, 20711), (408, 20747), (409, 20765), (413, 20777), (414,

20786), (419, 20813), (430, 20882), (432, 20900), (434, 20909), (435, 20921), (439, 20957), (444, 20987), (448, 21008), (453, 21032), (458, 21068), (464, 21122), (473, 21182), (479, 21224), (487, 21302), (495, 21359), (499, 21383), (505, 21437), (508, 21485), (514, 21527), (516, 21551), (517, 21554),

Gene: JoeyJr_18 Start: 17568, Stop: 20105, Start Num: 52

Candidate Starts for JoeyJr_18:

(49, 17556), (Start: 52 @17568 has 221 MA's), (59, 17589), (Start: 69 @17610 has 1 MA's), (78, 17649), (104, 17718), (106, 17727), (107, 17730), (111, 17748), (124, 17796), (137, 17844), (168, 17955), (169, 17958), (186, 18003), (197, 18081), (201, 18105), (210, 18171), (218, 18216), (222, 18246), (223, 18252), (224, 18270), (232, 18294), (234, 18303), (240, 18336), (242, 18342), (248, 18372), (258, 18411), (259, 18423), (261, 18432), (264, 18447), (265, 18450), (287, 18561), (288, 18564), (289, 18573), (290, 18579), (293, 18594), (294, 18597), (296, 18618), (303, 18648), (306, 18660), (310, 18693), (331, 18804), (332, 18807), (339, 18834), (341, 18840), (348, 18894), (349, 18897), (368, 18999), (370, 19011), (371, 19014), (381, 19080), (386, 19104), (389, 19125), (391, 19134), (400, 19194), (401, 19197), (408, 19233), (409, 19251), (414, 19272), (419, 19299), (430, 19368), (432, 19386), (434, 19395), (435, 19407), (439, 19443), (448, 19494), (451, 19512), (458, 19554), (464, 19608), (479, 19710), (495, 19845), (499, 19869), (505, 19923), (511, 19992), (516, 20037), (517, 20040),

Gene: Juice456_20 Start: 18519, Stop: 21056, Start Num: 52

Candidate Starts for Juice456_20:

(49, 18507), (Start: 52 @18519 has 221 MA's), (59, 18540), (Start: 69 @18561 has 1 MA's), (78, 18600), (104, 18669), (106, 18678), (107, 18681), (111, 18699), (119, 18732), (124, 18747), (137, 18795), (168, 18906), (169, 18909), (179, 18939), (184, 18951), (186, 18954), (197, 19032), (201, 19056), (210, 19122), (218, 19167), (222, 19197), (223, 19203), (224, 19221), (232, 19245), (234, 19254), (240, 19287), (242, 19293), (248, 19323), (258, 19362), (259, 19374), (261, 19383), (264, 19398), (265, 19401), (287, 19512), (288, 19515), (289, 19524), (290, 19530), (293, 19545), (294, 19548), (296, 19569), (303, 19599), (306, 19611), (310, 19644), (331, 19755), (332, 19758), (339, 19785), (341, 19791), (348, 19845), (349, 19848), (365, 19935), (368, 19950), (370, 19962), (371, 19965), (381, 20031), (386, 20055), (389, 20076), (391, 20085), (397, 20127), (400, 20145), (401, 20148), (408, 20184), (409, 20202), (413, 20214), (414, 20223), (419, 20250), (430, 20319), (432, 20337), (434, 20346), (435, 20358), (439, 20394), (444, 20424), (448, 20445), (453, 20469), (458, 20505), (464, 20559), (473, 20619), (479, 20661), (487, 20739), (495, 20796), (499, 20820), (505, 20874), (508, 20922), (514, 20964), (516, 20988), (517, 20991),

Gene: Juniper1_18 Start: 17394, Stop: 19931, Start Num: 52

Candidate Starts for Juniper1_18:

(Start: 52 @17394 has 221 MA's), (59, 17415), (Start: 69 @17436 has 1 MA's), (78, 17475), (104, 17544), (106, 17553), (107, 17556), (111, 17574), (119, 17607), (124, 17622), (168, 17781), (169, 17784), (186, 17829), (197, 17907), (201, 17931), (210, 17997), (222, 18072), (223, 18078), (232, 18120), (233, 18126), (234, 18129), (240, 18162), (242, 18168), (248, 18198), (254, 18219), (259, 18249), (261, 18258), (284, 18366), (286, 18378), (287, 18387), (288, 18390), (289, 18399), (290, 18405), (293, 18420), (294, 18423), (296, 18444), (306, 18486), (310, 18519), (331, 18630), (332, 18633), (339, 18660), (341, 18666), (348, 18720), (349, 18723), (352, 18750), (355, 18759), (368, 18825), (370, 18837), (371, 18840), (381, 18906), (384, 18927), (386, 18930), (389, 18951), (397, 19002), (400, 19020), (401, 19023), (407, 19053), (409, 19077), (413, 19089), (414, 19098), (430, 19194), (432, 19212), (434, 19221), (435, 19233), (439, 19269), (444, 19299), (448, 19320), (453, 19344), (458, 19380), (473, 19494), (479, 19536), (495, 19671), (499, 19695), (505, 19749), (511, 19818), (516, 19863), (517, 19866), (519, 19872),

Gene: KandZ_30 Start: 24416, Stop: 26686, Start Num: 145

Candidate Starts for KandZ_30:

(Start: 145 @24416 has 21 MA's), (176, 24551), (178, 24560), (205, 24734), (206, 24740), (209, 24752), (236, 24905), (239, 24920), (241, 24935), (314, 25316), (316, 25322), (326, 25367), (343, 25454), (377, 25655), (378, 25661), (385, 25709), (391, 25739), (393, 25763), (422, 25952), (425, 25979), (434, 26027), (443, 26099), (450, 26138), (454, 26159), (455, 26174), (459, 26192), (461, 26222), (475, 26306), (503, 26507), (508, 26549), (527, 26675),

Gene: Kanye_28 Start: 23270, Stop: 25666, Start Num: 84

Candidate Starts for Kanye_28:

(Start: 84 @23270 has 125 MA's), (133, 23447), (141, 23468), (190, 23615), (211, 23756), (217, 23789), (222, 23822), (228, 23858), (248, 23951), (261, 24011), (265, 24029), (291, 24161), (298, 24206), (323, 24338), (331, 24383), (346, 24443), (364, 24557), (368, 24578), (374, 24617), (378, 24638), (380, 24653), (407, 24803), (408, 24809), (409, 24827), (420, 24881), (432, 24965), (447, 25058), (483, 25304), (508, 25520), (517, 25604), (524, 25637),

Gene: Karhdo_18 Start: 17528, Stop: 20065, Start Num: 52

Candidate Starts for Karhdo_18:

(49, 17516), (Start: 52 @17528 has 221 MA's), (59, 17549), (Start: 69 @17570 has 1 MA's), (78, 17609), (104, 17678), (106, 17687), (107, 17690), (111, 17708), (119, 17741), (124, 17756), (137, 17804), (168, 17915), (169, 17918), (179, 17948), (184, 17960), (186, 17963), (197, 18041), (201, 18065), (210, 18131), (218, 18176), (222, 18206), (223, 18212), (224, 18230), (232, 18254), (234, 18263), (240, 18296), (242, 18302), (248, 18332), (258, 18371), (259, 18383), (261, 18392), (264, 18407), (265, 18410), (287, 18521), (288, 18524), (289, 18533), (290, 18539), (293, 18554), (294, 18557), (296, 18578), (303, 18608), (306, 18620), (310, 18653), (331, 18764), (332, 18767), (339, 18794), (341, 18800), (348, 18854), (349, 18857), (365, 18944), (368, 18959), (370, 18971), (371, 18974), (381, 19040), (386, 19064), (389, 19085), (391, 19094), (397, 19136), (400, 19154), (401, 19157), (407, 19187), (409, 19211), (413, 19223), (414, 19232), (430, 19328), (432, 19346), (434, 19355), (435, 19367), (439, 19403), (444, 19433), (447, 19442), (448, 19454), (458, 19514), (464, 19568), (473, 19628), (479, 19670), (495, 19805), (499, 19829), (505, 19883), (508, 19931), (514, 19973), (516, 19997), (517, 20000),

Gene: KashFlow_30 Start: 26008, Stop: 28503, Start Num: 52

Candidate Starts for KashFlow_30:

(Start: 52 @26008 has 221 MA's), (111, 26203), (119, 26239), (124, 26254), (153, 26341), (161, 26356), (169, 26392), (172, 26398), (184, 26431), (188, 26443), (215, 26614), (218, 26623), (222, 26647), (233, 26701), (240, 26737), (242, 26743), (248, 26773), (256, 26803), (259, 26824), (261, 26833), (264, 26848), (278, 26917), (294, 26998), (295, 27007), (298, 27028), (299, 27031), (306, 27061), (311, 27097), (320, 27148), (321, 27157), (323, 27160), (329, 27187), (330, 27196), (334, 27217), (348, 27295), (349, 27298), (363, 27370), (369, 27406), (370, 27412), (377, 27454), (378, 27460), (384, 27502), (386, 27505), (389, 27526), (390, 27532), (391, 27535), (396, 27565), (418, 27706), (420, 27715), (421, 27724), (424, 27757), (430, 27781), (431, 27784), (432, 27799), (435, 27820), (439, 27856), (440, 27862), (441, 27868), (445, 27889), (449, 27916), (467, 28051), (478, 28123), (480, 28129), (483, 28147), (495, 28246), (508, 28363), (518, 28444), (520, 28447), (524, 28474),

Gene: Kenuha5_18 Start: 17523, Stop: 20015, Start Num: 52

Candidate Starts for Kenuha5_18:

(50, 17511), (Start: 52 @17523 has 221 MA's), (59, 17544), (Start: 69 @17565 has 1 MA's), (81, 17604), (104, 17673), (106, 17682), (107, 17685), (111, 17703), (119, 17736), (128, 17769), (138, 17802), (161, 17856), (169, 17892), (172, 17898), (173, 17901), (179, 17919), (184, 17931), (188, 17943), (192, 17967), (203, 18030), (215, 18114), (218, 18123), (222, 18147), (224, 18171), (232, 18195), (233, 18201), (238, 18222), (242, 18243), (248, 18273), (256, 18303), (259, 18324), (278, 18417), (281, 18432), (284, 18441), (287, 18462), (288, 18465), (303, 18549), (304, 18552), (306, 18561), (309, 18588), (311, 18597), (318, 18636), (321, 18657), (323, 18660), (330, 18696), (334,

18717), (348, 18795), (349, 18798), (362, 18852), (370, 18912), (386, 19005), (388, 19023), (389, 19026), (396, 19062), (404, 19116), (407, 19125), (418, 19203), (421, 19221), (425, 19257), (426, 19260), (430, 19278), (431, 19281), (432, 19296), (435, 19317), (439, 19353), (441, 19365), (453, 19428), (458, 19461), (467, 19548), (476, 19596), (478, 19620), (482, 19647), (483, 19656), (486, 19695), (492, 19734), (495, 19758), (498, 19779), (508, 19875), (511, 19896), (520, 19959), (524, 19986), (526, 19995),

Gene: Kersh_19 Start: 17568, Stop: 20060, Start Num: 52

Candidate Starts for Kersh_19:

(Start: 52 @17568 has 221 MA's), (59, 17589), (Start: 69 @17610 has 1 MA's), (81, 17649), (104, 17718), (106, 17727), (107, 17730), (111, 17748), (119, 17781), (128, 17814), (138, 17847), (161, 17901), (169, 17937), (173, 17946), (179, 17964), (188, 17988), (192, 18012), (207, 18120), (211, 18144), (215, 18159), (218, 18168), (222, 18192), (223, 18198), (224, 18216), (228, 18228), (230, 18234), (232, 18240), (233, 18246), (234, 18249), (237, 18258), (238, 18267), (240, 18282), (248, 18318), (258, 18357), (259, 18369), (261, 18378), (278, 18462), (294, 18543), (295, 18552), (299, 18576), (306, 18606), (311, 18642), (320, 18693), (321, 18702), (323, 18705), (330, 18741), (334, 18762), (348, 18840), (349, 18843), (362, 18897), (370, 18957), (383, 19044), (386, 19050), (389, 19071), (396, 19107), (404, 19161), (407, 19170), (418, 19248), (421, 19266), (425, 19302), (426, 19305), (430, 19323), (432, 19341), (439, 19398), (441, 19410), (453, 19473), (458, 19506), (467, 19593), (476, 19641), (478, 19665), (482, 19692), (483, 19701), (486, 19740), (492, 19779), (495, 19803), (498, 19824), (508, 19920), (511, 19941), (518, 20001), (520, 20004), (524, 20031),

Gene: Kimberlium_20 Start: 18519, Stop: 21056, Start Num: 52

Candidate Starts for Kimberlium_20:

(49, 18507), (Start: 52 @18519 has 221 MA's), (59, 18540), (Start: 69 @18561 has 1 MA's), (78, 18600), (104, 18669), (106, 18678), (107, 18681), (111, 18699), (119, 18732), (124, 18747), (137, 18795), (168, 18906), (169, 18909), (179, 18939), (184, 18951), (186, 18954), (197, 19032), (201, 19056), (210, 19122), (218, 19167), (222, 19197), (223, 19203), (224, 19221), (232, 19245), (234, 19254), (240, 19287), (242, 19293), (248, 19323), (258, 19362), (259, 19374), (261, 19383), (264, 19398), (265, 19401), (287, 19512), (288, 19515), (289, 19524), (290, 19530), (293, 19545), (294, 19548), (296, 19569), (303, 19599), (306, 19611), (310, 19644), (331, 19755), (332, 19758), (339, 19785), (341, 19791), (348, 19845), (349, 19848), (365, 19935), (368, 19950), (370, 19962), (371, 19965), (381, 20031), (386, 20055), (389, 20076), (391, 20085), (397, 20127), (400, 20145), (401, 20148), (408, 20184), (409, 20202), (413, 20214), (414, 20223), (419, 20250), (430, 20319), (432, 20337), (434, 20346), (435, 20358), (439, 20394), (444, 20424), (448, 20445), (453, 20469), (458, 20505), (464, 20559), (473, 20619), (479, 20661), (487, 20739), (495, 20796), (499, 20820), (505, 20874), (508, 20922), (514, 20964), (516, 20988), (517, 20991),

Gene: Kimchi_28 Start: 22277, Stop: 24673, Start Num: 84

Candidate Starts for Kimchi_28:

(Start: 84 @22277 has 125 MA's), (133, 22454), (141, 22475), (190, 22622), (211, 22763), (217, 22796), (222, 22829), (228, 22865), (248, 22958), (261, 23018), (265, 23036), (291, 23168), (298, 23213), (323, 23345), (331, 23390), (346, 23450), (364, 23564), (368, 23585), (374, 23624), (378, 23645), (380, 23660), (407, 23810), (408, 23816), (409, 23834), (420, 23888), (432, 23972), (447, 24065), (483, 24311), (508, 24527), (517, 24611), (524, 24644),

Gene: KingJulian_18 Start: 17437, Stop: 19974, Start Num: 52

Candidate Starts for KingJulian_18:

(49, 17425), (Start: 52 @17437 has 221 MA's), (59, 17458), (Start: 69 @17479 has 1 MA's), (78, 17518), (104, 17587), (106, 17596), (107, 17599), (111, 17617), (119, 17650), (124, 17665), (137, 17713), (168, 17824), (169, 17827), (179, 17857), (184, 17869), (186, 17872), (197, 17950), (201, 17974), (210, 18040), (218, 18085), (222, 18115), (223, 18121), (224, 18139), (232, 18163), (234, 18172), (240, 18205), (242, 18211), (248, 18241), (258, 18280), (259, 18292), (261, 18301), (264,

18316), (265, 18319), (287, 18430), (288, 18433), (289, 18442), (290, 18448), (293, 18463), (294, 18466), (296, 18487), (303, 18517), (306, 18529), (310, 18562), (331, 18673), (332, 18676), (339, 18703), (341, 18709), (348, 18763), (349, 18766), (365, 18853), (368, 18868), (370, 18880), (371, 18883), (381, 18949), (386, 18973), (389, 18994), (391, 19003), (400, 19063), (401, 19066), (408, 19102), (409, 19120), (413, 19132), (414, 19141), (419, 19168), (430, 19237), (432, 19255), (434, 19264), (435, 19276), (439, 19312), (444, 19342), (448, 19363), (453, 19387), (458, 19423), (464, 19477), (473, 19537), (479, 19579), (487, 19657), (495, 19714), (499, 19738), (505, 19792), (508, 19840), (514, 19882), (516, 19906), (517, 19909),

Gene: KingMidas_19 Start: 18701, Stop: 21238, Start Num: 52

Candidate Starts for KingMidas_19:

(49, 18689), (Start: 52 @18701 has 221 MA's), (59, 18722), (Start: 69 @18743 has 1 MA's), (78, 18782), (104, 18851), (106, 18860), (107, 18863), (111, 18881), (124, 18929), (137, 18977), (168, 19088), (169, 19091), (186, 19136), (197, 19214), (201, 19238), (210, 19304), (218, 19349), (222, 19379), (223, 19385), (224, 19403), (232, 19427), (234, 19436), (240, 19469), (242, 19475), (248, 19505), (258, 19544), (259, 19556), (261, 19565), (264, 19580), (265, 19583), (287, 19694), (288, 19697), (289, 19706), (290, 19712), (293, 19727), (294, 19730), (296, 19751), (303, 19781), (306, 19793), (310, 19826), (331, 19937), (332, 19940), (339, 19967), (341, 19973), (348, 20027), (349, 20030), (368, 20132), (370, 20144), (371, 20147), (381, 20213), (386, 20237), (389, 20258), (391, 20267), (400, 20327), (401, 20330), (408, 20366), (409, 20384), (414, 20405), (419, 20432), (430, 20501), (432, 20519), (434, 20528), (435, 20540), (439, 20576), (448, 20627), (451, 20645), (458, 20687), (464, 20741), (479, 20843), (495, 20978), (499, 21002), (505, 21056), (511, 21125), (516, 21170), (517, 21173),

Gene: KingPhillip3_57 Start: 36111, Stop: 38621, Start Num: 65

Candidate Starts for KingPhillip3_57:

(Start: 65 @36111 has 28 MA's), (72, 36144), (91, 36213), (92, 36216), (100, 36240), (107, 36264), (114, 36288), (119, 36321), (170, 36528), (173, 36540), (174, 36543), (204, 36690), (205, 36720), (210, 36744), (216, 36774), (217, 36777), (222, 36804), (224, 36828), (233, 36858), (245, 36915), (249, 36939), (258, 36975), (259, 36987), (264, 37011), (265, 37014), (271, 37056), (293, 37152), (294, 37155), (344, 37410), (368, 37554), (378, 37614), (388, 37686), (389, 37689), (405, 37785), (432, 37959), (435, 37980), (449, 38073), (452, 38085), (464, 38175), (477, 38250), (486, 38295), (510, 38496), (515, 38550), (520, 38565),

Gene: Kingsley_19 Start: 17253, Stop: 19730, Start Num: 52

Candidate Starts for Kingsley_19:

(50, 17241), (Start: 52 @17253 has 221 MA's), (59, 17274), (Start: 69 @17295 has 1 MA's), (81, 17334), (104, 17403), (106, 17412), (107, 17415), (111, 17433), (119, 17466), (124, 17481), (153, 17568), (161, 17583), (169, 17619), (172, 17625), (184, 17658), (188, 17670), (215, 17841), (218, 17850), (222, 17874), (233, 17928), (240, 17964), (242, 17970), (248, 18000), (256, 18030), (259, 18051), (261, 18060), (278, 18144), (290, 18207), (294, 18225), (295, 18234), (298, 18255), (299, 18258), (303, 18276), (306, 18288), (309, 18315), (311, 18324), (320, 18375), (321, 18384), (323, 18387), (329, 18414), (330, 18423), (334, 18444), (348, 18522), (349, 18525), (369, 18633), (370, 18639), (378, 18687), (384, 18729), (386, 18732), (389, 18753), (390, 18759), (391, 18762), (396, 18792), (418, 18933), (421, 18951), (424, 18984), (430, 19008), (431, 19011), (432, 19026), (435, 19047), (439, 19083), (440, 19089), (445, 19116), (449, 19143), (467, 19278), (476, 19326), (478, 19350), (480, 19356), (483, 19374), (495, 19473), (498, 19494), (500, 19512), (508, 19590), (511, 19611), (520, 19674), (522, 19692), (526, 19710),

Gene: Konstantine_34 Start: 26883, Stop: 29726, Start Num: 22

Candidate Starts for Konstantine_34:

(Start: 22 @26883 has 8 MA's), (38, 27015), (40, 27027), (43, 27036), (Start: 54 @27105 has 3 MA's), (73, 27171), (83, 27192), (93, 27240), (106, 27282), (113, 27306), (118, 27339), (127, 27375), (131,

27387), (157, 27480), (169, 27537), (181, 27576), (211, 27771), (216, 27801), (223, 27843), (254, 27984), (258, 28002), (271, 28083), (281, 28122), (286, 28143), (310, 28281), (317, 28320), (330, 28383), (349, 28485), (388, 28710), (445, 29073), (449, 29100), (489, 29343), (493, 29376), (496, 29400), (508, 29520), (518, 29598), (529, 29685), (530, 29700), (531, 29706),

Gene: Kostya_26 Start: 22283, Stop: 24679, Start Num: 84

Candidate Starts for Kostya_26:

(Start: 84 @22283 has 125 MA's), (133, 22460), (141, 22481), (190, 22628), (211, 22769), (217, 22802), (222, 22835), (228, 22871), (248, 22964), (261, 23024), (265, 23042), (281, 23123), (323, 23351), (331, 23396), (368, 23591), (369, 23597), (371, 23606), (378, 23651), (380, 23666), (408, 23822), (409, 23840), (412, 23849), (432, 23978), (433, 23981), (463, 24191), (465, 24203), (483, 24317), (508, 24533), (517, 24617), (522, 24641), (524, 24650),

Gene: Krakatau_19 Start: 18095, Stop: 20632, Start Num: 52

Candidate Starts for Krakatau_19:

(Start: 52 @18095 has 221 MA's), (59, 18116), (Start: 69 @18137 has 1 MA's), (78, 18176), (104, 18245), (106, 18254), (107, 18257), (111, 18275), (119, 18308), (124, 18323), (137, 18371), (168, 18482), (169, 18485), (179, 18515), (184, 18527), (186, 18530), (201, 18632), (210, 18698), (218, 18743), (222, 18773), (223, 18779), (224, 18797), (232, 18821), (234, 18830), (240, 18863), (242, 18869), (248, 18899), (258, 18938), (259, 18950), (261, 18959), (264, 18974), (266, 18980), (287, 19088), (288, 19091), (289, 19100), (290, 19106), (293, 19121), (294, 19124), (296, 19145), (303, 19175), (306, 19187), (310, 19220), (331, 19331), (332, 19334), (339, 19361), (341, 19367), (348, 19421), (349, 19424), (368, 19526), (370, 19538), (371, 19541), (381, 19607), (386, 19631), (389, 19652), (391, 19661), (400, 19721), (401, 19724), (408, 19760), (409, 19778), (413, 19790), (414, 19799), (419, 19826), (430, 19895), (432, 19913), (434, 19922), (435, 19934), (439, 19970), (444, 20000), (448, 20021), (453, 20045), (458, 20081), (464, 20135), (473, 20195), (479, 20237), (487, 20315), (495, 20372), (499, 20396), (505, 20450), (508, 20498), (516, 20564), (517, 20567),

Gene: Krili_57 Start: 35606, Stop: 38116, Start Num: 65

Candidate Starts for Krili_57:

(Start: 65 @35606 has 28 MA's), (72, 35639), (91, 35708), (92, 35711), (100, 35735), (107, 35759), (114, 35783), (119, 35816), (170, 36023), (173, 36035), (174, 36038), (204, 36185), (205, 36215), (210, 36239), (216, 36269), (217, 36272), (222, 36299), (224, 36323), (233, 36353), (245, 36410), (249, 36434), (258, 36470), (259, 36482), (264, 36506), (265, 36509), (271, 36551), (293, 36647), (294, 36650), (344, 36905), (368, 37049), (378, 37109), (388, 37181), (389, 37184), (405, 37280), (432, 37454), (435, 37475), (449, 37568), (452, 37580), (464, 37670), (477, 37745), (486, 37790), (510, 37991), (515, 38045), (520, 38060),

Gene: KristaRAM_19 Start: 18070, Stop: 20607, Start Num: 52

Candidate Starts for KristaRAM_19:

(49, 18058), (Start: 52 @18070 has 221 MA's), (59, 18091), (Start: 69 @18112 has 1 MA's), (78, 18151), (104, 18220), (106, 18229), (107, 18232), (111, 18250), (119, 18283), (124, 18298), (137, 18346), (168, 18457), (169, 18460), (179, 18490), (184, 18502), (186, 18505), (197, 18583), (201, 18607), (210, 18673), (218, 18718), (222, 18748), (223, 18754), (224, 18772), (232, 18796), (234, 18805), (240, 18838), (242, 18844), (248, 18874), (258, 18913), (259, 18925), (261, 18934), (264, 18949), (265, 18952), (287, 19063), (288, 19066), (289, 19075), (290, 19081), (293, 19096), (294, 19099), (296, 19120), (303, 19150), (306, 19162), (310, 19195), (331, 19306), (332, 19309), (339, 19336), (341, 19342), (348, 19396), (349, 19399), (365, 19486), (368, 19501), (370, 19513), (371, 19516), (381, 19582), (386, 19606), (389, 19627), (391, 19636), (400, 19696), (401, 19699), (408, 19735), (409, 19753), (413, 19765), (414, 19774), (419, 19801), (430, 19870), (432, 19888), (434, 19897), (435, 19909), (439, 19945), (444, 19975), (448, 19996), (453, 20020), (458, 20056), (464, 20110), (473, 20170), (479, 20212), (487, 20290), (495, 20347), (499, 20371), (505, 20425), (508, 20473), (514, 20515), (516, 20539), (517, 20542),

Gene: Kumao_30 Start: 23701, Stop: 26268, Start Num: 51

Candidate Starts for Kumao_30:

(Start: 51 @23701 has 6 MA's), (70, 23767), (113, 23899), (117, 23923), (125, 23956), (148, 24031), (153, 24049), (165, 24100), (185, 24166), (215, 24370), (234, 24469), (240, 24502), (250, 24553), (276, 24676), (277, 24679), (310, 24856), (323, 24922), (337, 24988), (342, 25006), (345, 25021), (347, 25045), (366, 25150), (368, 25162), (392, 25300), (407, 25399), (408, 25405), (411, 25435), (418, 25477), (446, 25660), (447, 25663), (449, 25684), (450, 25690), (464, 25789), (469, 25828), (482, 25915), (494, 26014), (501, 26065), (502, 26083), (507, 26137), (516, 26212),

Gene: Latretium_19 Start: 18077, Stop: 20614, Start Num: 52

Candidate Starts for Latretium_19:

(49, 18065), (Start: 52 @18077 has 221 MA's), (59, 18098), (Start: 69 @18119 has 1 MA's), (78, 18158), (104, 18227), (106, 18236), (107, 18239), (111, 18257), (124, 18305), (168, 18464), (169, 18467), (179, 18497), (186, 18512), (197, 18590), (200, 18611), (201, 18614), (210, 18680), (222, 18755), (223, 18761), (224, 18779), (232, 18803), (233, 18809), (234, 18812), (240, 18845), (242, 18851), (248, 18881), (254, 18902), (259, 18932), (261, 18941), (284, 19049), (287, 19070), (288, 19073), (289, 19082), (290, 19088), (293, 19103), (294, 19106), (296, 19127), (306, 19169), (310, 19202), (339, 19343), (341, 19349), (348, 19403), (349, 19406), (352, 19433), (368, 19508), (370, 19520), (371, 19523), (381, 19589), (386, 19613), (389, 19634), (391, 19643), (400, 19703), (401, 19706), (408, 19742), (409, 19760), (414, 19781), (419, 19808), (429, 19865), (430, 19877), (432, 19895), (434, 19904), (435, 19916), (439, 19952), (444, 19982), (458, 20063), (464, 20117), (473, 20177), (479, 20219), (495, 20354), (499, 20378), (505, 20432), (514, 20522), (516, 20546), (517, 20549),

Gene: Leozinho_19 Start: 17243, Stop: 19780, Start Num: 52

Candidate Starts for Leozinho_19:

(49, 17231), (Start: 52 @17243 has 221 MA's), (59, 17264), (Start: 69 @17285 has 1 MA's), (78, 17324), (104, 17393), (106, 17402), (107, 17405), (111, 17423), (119, 17456), (124, 17471), (137, 17519), (168, 17630), (169, 17633), (179, 17663), (184, 17675), (186, 17678), (197, 17756), (201, 17780), (210, 17846), (218, 17891), (222, 17921), (223, 17927), (224, 17945), (232, 17969), (234, 17978), (240, 18011), (242, 18017), (248, 18047), (258, 18086), (259, 18098), (261, 18107), (264, 18122), (265, 18125), (287, 18236), (288, 18239), (289, 18248), (290, 18254), (293, 18269), (294, 18272), (296, 18293), (303, 18323), (306, 18335), (310, 18368), (331, 18479), (332, 18482), (339, 18509), (341, 18515), (348, 18569), (349, 18572), (368, 18674), (370, 18686), (371, 18689), (381, 18755), (386, 18779), (389, 18800), (391, 18809), (400, 18869), (401, 18872), (408, 18908), (409, 18926), (413, 18938), (414, 18947), (419, 18974), (430, 19043), (432, 19061), (434, 19070), (435, 19082), (439, 19118), (444, 19148), (448, 19169), (453, 19193), (458, 19229), (464, 19283), (473, 19343), (479, 19385), (487, 19463), (495, 19520), (499, 19544), (505, 19598), (508, 19646), (514, 19688), (516, 19712), (517, 19715),

Gene: Leperchaun_18 Start: 17387, Stop: 19939, Start Num: 52

Candidate Starts for Leperchaun_18:

(Start: 52 @17387 has 221 MA's), (59, 17408), (66, 17429), (79, 17468), (104, 17537), (106, 17546), (107, 17549), (111, 17567), (119, 17600), (124, 17615), (137, 17663), (168, 17774), (169, 17777), (180, 17810), (184, 17819), (186, 17822), (197, 17900), (205, 17966), (211, 17999), (219, 18053), (222, 18065), (232, 18113), (234, 18122), (237, 18131), (243, 18164), (254, 18206), (257, 18221), (262, 18251), (263, 18257), (264, 18260), (265, 18263), (270, 18290), (274, 18311), (281, 18344), (289, 18386), (290, 18392), (291, 18395), (293, 18407), (294, 18410), (297, 18437), (303, 18461), (306, 18473), (310, 18506), (313, 18527), (329, 18599), (332, 18620), (351, 18731), (358, 18755), (359, 18758), (363, 18782), (368, 18812), (372, 18836), (378, 18872), (379, 18878), (380, 18887), (394, 18977), (397, 19001), (398, 19016), (407, 19058), (408, 19064), (415, 19109), (431, 19205), (432, 19220), (434, 19229), (437, 19253), (447, 19316), (493, 19658), (499, 19703), (508, 19805),

Gene: LilMoolah_18 Start: 17531, Stop: 20056, Start Num: 52

Candidate Starts for LilMoolah_18:

(Start: 52 @17531 has 221 MA's), (59, 17552), (66, 17573), (79, 17612), (104, 17681), (106, 17690), (107, 17693), (111, 17711), (124, 17759), (137, 17807), (168, 17918), (169, 17921), (180, 17954), (186, 17966), (197, 18044), (205, 18110), (211, 18143), (219, 18197), (222, 18209), (233, 18263), (234, 18266), (237, 18275), (243, 18308), (252, 18347), (254, 18350), (257, 18365), (258, 18368), (262, 18395), (263, 18401), (264, 18404), (265, 18407), (270, 18434), (272, 18452), (274, 18455), (289, 18530), (293, 18551), (294, 18554), (297, 18581), (303, 18605), (310, 18650), (311, 18653), (320, 18704), (332, 18767), (334, 18776), (340, 18800), (359, 18905), (361, 18908), (368, 18959), (369, 18965), (370, 18971), (371, 18974), (378, 19019), (380, 19034), (384, 19061), (389, 19085), (397, 19136), (400, 19154), (401, 19157), (402, 19169), (413, 19223), (432, 19346), (440, 19409), (451, 19472), (460, 19547), (490, 19748), (513, 19958), (519, 19997), (520, 20000),

Gene: Lilac_28 Start: 21781, Stop: 24177, Start Num: 84

Candidate Starts for Lilac_28:

(Start: 84 @21781 has 125 MA's), (133, 21958), (141, 21979), (190, 22126), (217, 22300), (222, 22333), (228, 22369), (248, 22462), (261, 22522), (265, 22540), (291, 22672), (298, 22717), (323, 22849), (331, 22894), (346, 22954), (364, 23068), (368, 23089), (374, 23128), (378, 23149), (380, 23164), (407, 23314), (408, 23320), (409, 23338), (420, 23392), (432, 23476), (447, 23569), (483, 23815), (508, 24031), (517, 24115), (524, 24148),

Gene: Lilizi_28 Start: 21989, Stop: 24385, Start Num: 84

Candidate Starts for Lilizi_28:

(Start: 84 @21989 has 125 MA's), (133, 22166), (141, 22187), (190, 22334), (217, 22508), (222, 22541), (228, 22577), (248, 22670), (261, 22730), (265, 22748), (291, 22880), (298, 22925), (323, 23057), (331, 23102), (346, 23162), (364, 23276), (368, 23297), (374, 23336), (378, 23357), (380, 23372), (407, 23522), (408, 23528), (409, 23546), (420, 23600), (432, 23684), (447, 23777), (483, 24023), (508, 24239), (517, 24323), (524, 24356),

Gene: Lilpickle_25 Start: 21491, Stop: 23887, Start Num: 84

Candidate Starts for Lilpickle_25:

(Start: 84 @21491 has 125 MA's), (133, 21668), (141, 21689), (190, 21836), (217, 22010), (222, 22043), (228, 22079), (248, 22172), (261, 22232), (265, 22250), (291, 22382), (298, 22427), (323, 22559), (331, 22604), (346, 22664), (364, 22778), (368, 22799), (374, 22838), (378, 22859), (380, 22874), (407, 23024), (408, 23030), (409, 23048), (420, 23102), (432, 23186), (447, 23279), (483, 23525), (508, 23741), (517, 23825), (524, 23858),

Gene: LittleE_39 Start: 30972, Stop: 33527, Start Num: 52

Candidate Starts for LittleE_39:

(Start: 52 @30972 has 221 MA's), (111, 31167), (119, 31203), (124, 31218), (137, 31266), (168, 31377), (169, 31380), (179, 31410), (186, 31425), (197, 31503), (201, 31527), (210, 31593), (218, 31638), (222, 31668), (223, 31674), (224, 31692), (232, 31716), (234, 31725), (240, 31758), (242, 31764), (248, 31794), (258, 31833), (259, 31845), (261, 31854), (264, 31869), (265, 31872), (287, 31983), (288, 31986), (289, 31995), (290, 32001), (293, 32016), (294, 32019), (303, 32070), (306, 32082), (310, 32115), (323, 32181), (331, 32226), (332, 32229), (339, 32256), (341, 32262), (348, 32316), (349, 32319), (365, 32406), (368, 32421), (370, 32433), (371, 32436), (381, 32502), (389, 32547), (391, 32556), (400, 32616), (401, 32619), (408, 32655), (409, 32673), (413, 32685), (414, 32694), (419, 32721), (430, 32790), (432, 32808), (434, 32817), (435, 32829), (439, 32865), (444, 32895), (448, 32916), (453, 32940), (458, 32976), (464, 33030), (473, 33090), (479, 33132), (495, 33267), (499, 33291), (505, 33345), (508, 33393), (514, 33435), (516, 33459), (517, 33462),

Gene: LittleShirley_19 Start: 17218, Stop: 19755, Start Num: 52

Candidate Starts for LittleShirley_19:

(Start: 52 @17218 has 221 MA's), (59, 17239), (Start: 69 @17260 has 1 MA's), (78, 17299), (104, 17368), (106, 17377), (107, 17380), (111, 17398), (124, 17446), (166, 17599), (169, 17608), (186, 17653), (200, 17752), (201, 17755), (210, 17821), (222, 17896), (223, 17902), (224, 17920), (232, 17944), (233, 17950), (234, 17953), (240, 17986), (242, 17992), (248, 18022), (254, 18043), (259, 18073), (261, 18082), (264, 18097), (265, 18100), (287, 18211), (288, 18214), (289, 18223), (290, 18229), (293, 18244), (294, 18247), (296, 18268), (303, 18298), (306, 18310), (310, 18343), (331, 18454), (332, 18457), (339, 18484), (341, 18490), (348, 18544), (349, 18547), (368, 18649), (370, 18661), (371, 18664), (381, 18730), (386, 18754), (389, 18775), (391, 18784), (400, 18844), (401, 18847), (408, 18883), (409, 18901), (413, 18913), (414, 18922), (419, 18949), (429, 19006), (430, 19018), (432, 19036), (434, 19045), (435, 19057), (439, 19093), (444, 19123), (447, 19132), (448, 19144), (458, 19204), (464, 19258), (473, 19318), (479, 19360), (495, 19495), (499, 19519), (505, 19573), (508, 19621), (514, 19663), (516, 19687), (517, 19690),

Gene: Lizziana_18 Start: 17406, Stop: 19931, Start Num: 52

Candidate Starts for Lizziana_18:

(Start: 52 @17406 has 221 MA's), (79, 17487), (104, 17556), (106, 17565), (107, 17568), (111, 17586), (124, 17634), (136, 17679), (168, 17793), (169, 17796), (174, 17808), (180, 17829), (184, 17838), (186, 17841), (193, 17889), (197, 17919), (205, 17985), (211, 18018), (218, 18054), (221, 18078), (233, 18138), (234, 18141), (238, 18159), (252, 18222), (254, 18225), (258, 18243), (261, 18264), (265, 18282), (270, 18309), (274, 18330), (281, 18363), (290, 18411), (291, 18414), (293, 18426), (294, 18429), (297, 18456), (303, 18480), (310, 18525), (334, 18651), (340, 18675), (361, 18783), (368, 18834), (370, 18846), (371, 18849), (378, 18894), (380, 18909), (384, 18936), (389, 18960), (397, 19011), (400, 19029), (401, 19032), (402, 19044), (413, 19098), (420, 19140), (440, 19284), (449, 19338), (450, 19344), (451, 19347), (456, 19383), (457, 19386), (459, 19395), (460, 19422), (490, 19623), (508, 19794), (513, 19833), (519, 19872), (520, 19875),

Gene: Llama_18 Start: 17634, Stop: 20171, Start Num: 52

Candidate Starts for Llama_18:

(Start: 52 @17634 has 221 MA's), (59, 17655), (Start: 69 @17676 has 1 MA's), (78, 17715), (104, 17784), (106, 17793), (107, 17796), (111, 17814), (124, 17862), (168, 18021), (169, 18024), (184, 18066), (186, 18069), (197, 18147), (200, 18168), (201, 18171), (210, 18237), (211, 18246), (218, 18282), (222, 18312), (223, 18318), (232, 18360), (233, 18366), (234, 18369), (240, 18402), (242, 18408), (248, 18438), (254, 18459), (259, 18489), (261, 18498), (284, 18606), (286, 18618), (287, 18627), (288, 18630), (289, 18639), (290, 18645), (293, 18660), (294, 18663), (296, 18684), (306, 18726), (310, 18759), (339, 18900), (341, 18906), (348, 18960), (349, 18963), (352, 18990), (368, 19065), (370, 19077), (371, 19080), (381, 19146), (384, 19167), (386, 19170), (389, 19191), (397, 19242), (400, 19260), (401, 19263), (407, 19293), (409, 19317), (413, 19329), (430, 19434), (432, 19452), (434, 19461), (435, 19473), (439, 19509), (444, 19539), (448, 19560), (453, 19584), (458, 19620), (473, 19734), (479, 19776), (487, 19854), (495, 19911), (499, 19935), (505, 19989), (508, 20037), (514, 20079), (516, 20103), (517, 20106),

Gene: Llij_18 Start: 17383, Stop: 19920, Start Num: 52

Candidate Starts for Llij_18:

(Start: 52 @17383 has 221 MA's), (86, 17473), (104, 17533), (106, 17542), (107, 17545), (111, 17563), (124, 17611), (137, 17659), (166, 17764), (168, 17770), (169, 17773), (184, 17815), (186, 17818), (201, 17920), (210, 17986), (218, 18031), (222, 18061), (223, 18067), (224, 18085), (232, 18109), (234, 18118), (240, 18151), (242, 18157), (254, 18208), (258, 18226), (259, 18238), (261, 18247), (264, 18262), (266, 18268), (287, 18376), (289, 18388), (290, 18394), (293, 18409), (294, 18412), (296, 18433), (303, 18463), (306, 18475), (310, 18508), (323, 18574), (331, 18619), (332, 18622), (339, 18649), (341, 18655), (348, 18709), (349, 18712), (352, 18739), (368, 18814), (370, 18826), (371, 18829), (381, 18895), (384, 18916), (386, 18919), (391, 18949), (397, 18991), (400, 19009), (401, 19012), (407, 19042), (409, 19066), (413, 19078), (414, 19087), (430, 19183), (432, 19201),

(434, 19210), (435, 19222), (444, 19288), (447, 19297), (448, 19309), (458, 19369), (479, 19525), (495, 19660), (499, 19684), (505, 19738), (511, 19807), (516, 19852), (517, 19855),

Gene: Lorde_19 Start: 17219, Stop: 19756, Start Num: 52

Candidate Starts for Lorde_19:

(49, 17207), (Start: 52 @17219 has 221 MA's), (59, 17240), (Start: 69 @17261 has 1 MA's), (78, 17300), (104, 17369), (106, 17378), (107, 17381), (111, 17399), (119, 17432), (124, 17447), (137, 17495), (166, 17600), (169, 17609), (184, 17651), (186, 17654), (197, 17732), (201, 17756), (210, 17822), (218, 17867), (222, 17897), (223, 17903), (224, 17921), (232, 17945), (234, 17954), (240, 17987), (242, 17993), (248, 18023), (258, 18062), (259, 18074), (261, 18083), (264, 18098), (265, 18101), (287, 18212), (289, 18224), (290, 18230), (293, 18245), (294, 18248), (296, 18269), (303, 18299), (306, 18311), (310, 18344), (323, 18410), (331, 18455), (332, 18458), (339, 18485), (341, 18491), (348, 18545), (349, 18548), (352, 18575), (368, 18650), (370, 18662), (371, 18665), (381, 18731), (386, 18755), (391, 18785), (397, 18827), (400, 18845), (401, 18848), (408, 18884), (409, 18902), (414, 18923), (419, 18950), (430, 19019), (432, 19037), (434, 19046), (435, 19058), (439, 19094), (444, 19124), (447, 19133), (448, 19145), (458, 19205), (464, 19259), (473, 19319), (479, 19361), (487, 19439), (495, 19496), (499, 19520), (505, 19574), (508, 19622), (514, 19664), (516, 19688), (517, 19691),

Gene: Lucky2013_36 Start: 27869, Stop: 30376, Start Num: 52

Candidate Starts for Lucky2013_36:

(Start: 52 @27869 has 221 MA's), (111, 28064), (119, 28100), (124, 28115), (153, 28202), (161, 28217), (184, 28292), (188, 28304), (193, 28331), (207, 28436), (215, 28475), (218, 28484), (222, 28508), (223, 28514), (224, 28532), (230, 28550), (234, 28565), (237, 28574), (238, 28583), (240, 28598), (247, 28625), (248, 28634), (258, 28673), (259, 28685), (261, 28694), (278, 28778), (294, 28859), (298, 28889), (299, 28892), (306, 28922), (309, 28949), (311, 28958), (320, 29009), (321, 29018), (323, 29021), (330, 29057), (334, 29078), (343, 29114), (369, 29267), (378, 29321), (386, 29366), (388, 29384), (389, 29387), (396, 29426), (418, 29573), (420, 29582), (431, 29651), (432, 29666), (458, 29831), (467, 29918), (476, 29966), (483, 30017), (492, 30095), (518, 30317), (520, 30320), (524, 30347),

Gene: LunaBlu_19 Start: 17477, Stop: 20014, Start Num: 52

Candidate Starts for LunaBlu_19:

(Start: 52 @17477 has 221 MA's), (86, 17567), (104, 17627), (106, 17636), (107, 17639), (111, 17657), (119, 17690), (124, 17705), (137, 17753), (168, 17864), (169, 17867), (179, 17897), (186, 17912), (197, 17990), (210, 18080), (218, 18125), (222, 18155), (223, 18161), (224, 18179), (232, 18203), (234, 18212), (240, 18245), (242, 18251), (248, 18281), (258, 18320), (259, 18332), (261, 18341), (264, 18356), (265, 18359), (287, 18470), (289, 18482), (290, 18488), (293, 18503), (294, 18506), (296, 18527), (303, 18557), (306, 18569), (310, 18602), (323, 18668), (331, 18713), (332, 18716), (339, 18743), (341, 18749), (348, 18803), (349, 18806), (368, 18908), (370, 18920), (371, 18923), (381, 18989), (386, 19013), (391, 19043), (400, 19103), (401, 19106), (408, 19142), (409, 19160), (413, 19172), (414, 19181), (419, 19208), (430, 19277), (432, 19295), (434, 19304), (435, 19316), (439, 19352), (444, 19382), (448, 19403), (453, 19427), (458, 19463), (464, 19517), (473, 19577), (479, 19619), (487, 19697), (495, 19754), (499, 19778), (505, 19832), (508, 19880), (514, 19922), (516, 19946), (517, 19949),

Gene: LunaStella_20 Start: 17940, Stop: 20417, Start Num: 54

Candidate Starts for LunaStella_20:

(Start: 54 @17940 has 3 MA's), (59, 17952), (85, 18015), (90, 18042), (109, 18096), (111, 18105), (114, 18111), (119, 18138), (128, 18171), (153, 18243), (161, 18258), (169, 18294), (173, 18303), (179, 18321), (188, 18345), (192, 18369), (215, 18516), (218, 18525), (222, 18549), (224, 18573), (232, 18597), (233, 18603), (238, 18624), (242, 18645), (248, 18675), (256, 18705), (259, 18726), (278, 18819), (281, 18834), (284, 18843), (285, 18852), (287, 18864), (288, 18867), (303, 18951),

(304, 18954), (306, 18963), (309, 18990), (311, 18999), (318, 19038), (321, 19059), (323, 19062), (330, 19098), (334, 19119), (348, 19197), (349, 19200), (362, 19254), (370, 19314), (383, 19401), (386, 19407), (388, 19425), (389, 19428), (396, 19464), (404, 19518), (407, 19527), (418, 19605), (421, 19623), (425, 19659), (426, 19662), (430, 19680), (431, 19683), (432, 19698), (439, 19755), (441, 19767), (453, 19830), (458, 19863), (467, 19950), (476, 19998), (478, 20022), (482, 20049), (483, 20058), (486, 20097), (492, 20136), (495, 20160), (498, 20181), (508, 20277), (511, 20298), (520, 20361), (524, 20388), (526, 20397),

Gene: MISSy_25 Start: 21796, Stop: 24192, Start Num: 84

Candidate Starts for MISSy_25:

(Start: 84 @21796 has 125 MA's), (133, 21973), (141, 21994), (190, 22141), (211, 22282), (217, 22315), (222, 22348), (228, 22384), (248, 22477), (261, 22537), (265, 22555), (291, 22687), (298, 22732), (323, 22864), (331, 22909), (346, 22969), (364, 23083), (368, 23104), (374, 23143), (378, 23164), (380, 23179), (407, 23329), (408, 23335), (409, 23353), (420, 23407), (432, 23491), (447, 23584), (483, 23830), (508, 24046), (517, 24130), (524, 24163),

Gene: MPhalcon_25 Start: 21790, Stop: 24186, Start Num: 84

Candidate Starts for MPhalcon_25:

(Start: 84 @21790 has 125 MA's), (133, 21967), (141, 21988), (190, 22135), (211, 22276), (217, 22309), (222, 22342), (228, 22378), (248, 22471), (261, 22531), (265, 22549), (291, 22681), (298, 22726), (323, 22858), (331, 22903), (346, 22963), (364, 23077), (368, 23098), (374, 23137), (378, 23158), (380, 23173), (407, 23323), (408, 23329), (409, 23347), (420, 23401), (432, 23485), (447, 23578), (483, 23824), (508, 24040), (517, 24124), (524, 24157),

Gene: MadKillah_59 Start: 35875, Stop: 38385, Start Num: 65

Candidate Starts for MadKillah_59:

(Start: 65 @35875 has 28 MA's), (72, 35908), (91, 35977), (92, 35980), (100, 36004), (107, 36028), (114, 36052), (119, 36085), (170, 36292), (173, 36304), (174, 36307), (204, 36454), (205, 36484), (210, 36508), (216, 36538), (217, 36541), (222, 36568), (224, 36592), (233, 36622), (245, 36679), (249, 36703), (258, 36739), (259, 36751), (264, 36775), (265, 36778), (271, 36820), (293, 36916), (294, 36919), (344, 37174), (368, 37318), (378, 37378), (388, 37450), (389, 37453), (405, 37549), (432, 37723), (435, 37744), (449, 37837), (452, 37849), (464, 37939), (477, 38014), (486, 38059), (510, 38260), (515, 38314), (520, 38329),

Gene: MadMen_19 Start: 17637, Stop: 20129, Start Num: 52

Candidate Starts for MadMen_19:

(Start: 52 @17637 has 221 MA's), (59, 17658), (Start: 69 @17679 has 1 MA's), (81, 17718), (104, 17787), (106, 17796), (107, 17799), (111, 17817), (119, 17850), (128, 17883), (138, 17916), (153, 17955), (161, 17970), (169, 18006), (173, 18015), (179, 18033), (188, 18057), (192, 18081), (215, 18228), (218, 18237), (222, 18261), (224, 18285), (232, 18309), (233, 18315), (238, 18336), (242, 18357), (248, 18387), (256, 18417), (259, 18438), (278, 18531), (281, 18546), (284, 18555), (287, 18576), (288, 18579), (303, 18663), (304, 18666), (306, 18675), (309, 18702), (311, 18711), (318, 18750), (321, 18771), (323, 18774), (330, 18810), (334, 18831), (348, 18909), (349, 18912), (362, 18966), (370, 19026), (386, 19119), (388, 19137), (389, 19140), (396, 19176), (404, 19230), (407, 19239), (418, 19317), (421, 19335), (425, 19371), (426, 19374), (430, 19392), (431, 19395), (432, 19410), (439, 19467), (441, 19479), (458, 19575), (467, 19662), (476, 19710), (478, 19734), (483, 19770), (486, 19809), (492, 19848), (495, 19872), (498, 19893), (508, 19989), (511, 20010), (520, 20073), (524, 20100), (526, 20109),

Gene: MadamMonkfish_26 Start: 21702, Stop: 24098, Start Num: 84

Candidate Starts for MadamMonkfish_26:

(Start: 84 @21702 has 125 MA's), (133, 21879), (141, 21900), (190, 22047), (217, 22221), (222, 22254), (228, 22290), (248, 22383), (261, 22443), (265, 22461), (291, 22593), (298, 22638), (323,

22770), (331, 22815), (346, 22875), (364, 22989), (368, 23010), (374, 23049), (378, 23070), (380, 23085), (407, 23235), (408, 23241), (409, 23259), (420, 23313), (432, 23397), (447, 23490), (483, 23736), (508, 23952), (517, 24036), (524, 24069),

Gene: Madiba_19 Start: 17273, Stop: 19762, Start Num: 52

Candidate Starts for Madiba_19:

(Start: 52 @17273 has 221 MA's), (59, 17294), (Start: 69 @17315 has 1 MA's), (81, 17354), (104, 17423), (106, 17432), (107, 17435), (111, 17453), (124, 17501), (161, 17603), (169, 17639), (172, 17645), (173, 17648), (179, 17666), (188, 17690), (192, 17714), (203, 17777), (215, 17861), (218, 17870), (222, 17894), (224, 17918), (232, 17942), (233, 17948), (238, 17969), (242, 17990), (248, 18020), (256, 18050), (259, 18071), (278, 18164), (281, 18179), (284, 18188), (287, 18209), (288, 18212), (303, 18296), (304, 18299), (306, 18308), (309, 18335), (311, 18344), (318, 18383), (321, 18404), (323, 18407), (330, 18443), (334, 18464), (348, 18542), (349, 18545), (362, 18599), (370, 18659), (386, 18752), (388, 18770), (389, 18773), (396, 18809), (404, 18863), (407, 18872), (418, 18950), (421, 18968), (425, 19004), (426, 19007), (430, 19025), (431, 19028), (432, 19043), (439, 19100), (441, 19112), (458, 19208), (467, 19295), (476, 19343), (478, 19367), (482, 19394), (483, 19403), (486, 19442), (492, 19481), (495, 19505), (498, 19526), (508, 19622), (511, 19643), (520, 19706), (524, 19733), (526, 19742),

Gene: Mahavrat_18 Start: 17394, Stop: 19931, Start Num: 52

Candidate Starts for Mahavrat_18:

(Start: 52 @17394 has 221 MA's), (59, 17415), (Start: 69 @17436 has 1 MA's), (78, 17475), (104, 17544), (106, 17553), (107, 17556), (111, 17574), (119, 17607), (124, 17622), (168, 17781), (169, 17784), (186, 17829), (197, 17907), (201, 17931), (210, 17997), (222, 18072), (223, 18078), (232, 18120), (233, 18126), (234, 18129), (240, 18162), (242, 18168), (248, 18198), (254, 18219), (259, 18249), (261, 18258), (284, 18366), (286, 18378), (287, 18387), (288, 18390), (289, 18399), (290, 18405), (293, 18420), (294, 18423), (296, 18444), (306, 18486), (310, 18519), (331, 18630), (332, 18633), (339, 18660), (341, 18666), (348, 18720), (349, 18723), (352, 18750), (355, 18759), (368, 18825), (370, 18837), (371, 18840), (381, 18906), (384, 18927), (386, 18930), (389, 18951), (397, 19002), (400, 19020), (401, 19023), (407, 19053), (409, 19077), (413, 19089), (414, 19098), (430, 19194), (432, 19212), (434, 19221), (435, 19233), (439, 19269), (444, 19299), (448, 19320), (453, 19344), (458, 19380), (473, 19494), (479, 19536), (495, 19671), (499, 19695), (505, 19749), (511, 19818), (516, 19863), (517, 19866), (519, 19872),

Gene: Manda_27 Start: 22769, Stop: 25165, Start Num: 84

Candidate Starts for Manda_27:

(Start: 84 @22769 has 125 MA's), (133, 22946), (141, 22967), (190, 23114), (211, 23255), (217, 23288), (222, 23321), (228, 23357), (248, 23450), (261, 23510), (265, 23528), (291, 23660), (298, 23705), (323, 23837), (331, 23882), (346, 23942), (364, 24056), (368, 24077), (374, 24116), (378, 24137), (380, 24152), (407, 24302), (408, 24308), (409, 24326), (420, 24380), (432, 24464), (447, 24557), (483, 24803), (508, 25019), (517, 25103), (524, 25136),

Gene: Mandlovu_18 Start: 17495, Stop: 20032, Start Num: 52

Candidate Starts for Mandlovu_18:

(Start: 52 @17495 has 221 MA's), (59, 17516), (Start: 69 @17537 has 1 MA's), (78, 17576), (104, 17645), (106, 17654), (107, 17657), (111, 17675), (124, 17723), (168, 17882), (169, 17885), (184, 17927), (186, 17930), (197, 18008), (200, 18029), (201, 18032), (210, 18098), (222, 18173), (223, 18179), (232, 18221), (233, 18227), (234, 18230), (240, 18263), (242, 18269), (248, 18299), (254, 18320), (259, 18350), (261, 18359), (284, 18467), (286, 18479), (287, 18488), (288, 18491), (289, 18500), (290, 18506), (293, 18521), (294, 18524), (296, 18545), (306, 18587), (310, 18620), (339, 18761), (341, 18767), (348, 18821), (349, 18824), (352, 18851), (368, 18926), (370, 18938), (371, 18941), (381, 19007), (386, 19031), (389, 19052), (391, 19061), (400, 19121), (401, 19124), (408, 19160), (409, 19178), (414, 19199), (419, 19226), (430, 19295), (432, 19313), (434, 19322), (435,

19334), (439, 19370), (444, 19400), (458, 19481), (473, 19595), (479, 19637), (495, 19772), (499, 19796), (505, 19850), (516, 19964), (517, 19967),

Gene: Mantra_18 Start: 17496, Stop: 20033, Start Num: 52

Candidate Starts for Mantra_18:

(Start: 52 @17496 has 221 MA's), (59, 17517), (Start: 69 @17538 has 1 MA's), (78, 17577), (104, 17646), (106, 17655), (107, 17658), (111, 17676), (124, 17724), (166, 17877), (169, 17886), (186, 17931), (200, 18030), (201, 18033), (210, 18099), (222, 18174), (223, 18180), (224, 18198), (232, 18222), (233, 18228), (234, 18231), (240, 18264), (242, 18270), (248, 18300), (254, 18321), (259, 18351), (261, 18360), (264, 18375), (265, 18378), (287, 18489), (288, 18492), (289, 18501), (290, 18507), (293, 18522), (294, 18525), (296, 18546), (303, 18576), (306, 18588), (310, 18621), (331, 18732), (332, 18735), (339, 18762), (341, 18768), (348, 18822), (349, 18825), (365, 18912), (368, 18927), (370, 18939), (371, 18942), (381, 19008), (386, 19032), (389, 19053), (391, 19062), (400, 19122), (401, 19125), (408, 19161), (409, 19179), (413, 19191), (414, 19200), (419, 19227), (429, 19284), (430, 19296), (432, 19314), (434, 19323), (435, 19335), (439, 19371), (444, 19401), (447, 19410), (448, 19422), (458, 19482), (464, 19536), (473, 19596), (479, 19638), (495, 19773), (499, 19797), (505, 19851), (508, 19899), (514, 19941), (516, 19965), (517, 19968),

Gene: Maravista_18 Start: 17343, Stop: 19880, Start Num: 52

Candidate Starts for Maravista_18:

(49, 17331), (Start: 52 @17343 has 221 MA's), (59, 17364), (Start: 69 @17385 has 1 MA's), (78, 17424), (104, 17493), (106, 17502), (107, 17505), (111, 17523), (119, 17556), (124, 17571), (137, 17619), (168, 17730), (169, 17733), (179, 17763), (184, 17775), (186, 17778), (197, 17856), (201, 17880), (210, 17946), (218, 17991), (222, 18021), (223, 18027), (224, 18045), (232, 18069), (234, 18078), (240, 18111), (242, 18117), (248, 18147), (258, 18186), (259, 18198), (261, 18207), (264, 18222), (265, 18225), (287, 18336), (288, 18339), (289, 18348), (290, 18354), (293, 18369), (294, 18372), (296, 18393), (303, 18423), (306, 18435), (310, 18468), (331, 18579), (332, 18582), (339, 18609), (341, 18615), (348, 18669), (349, 18672), (368, 18774), (370, 18786), (371, 18789), (381, 18855), (386, 18879), (389, 18900), (391, 18909), (400, 18969), (401, 18972), (408, 19008), (409, 19026), (413, 19038), (414, 19047), (419, 19074), (430, 19143), (432, 19161), (434, 19170), (435, 19182), (439, 19218), (444, 19248), (448, 19269), (453, 19293), (458, 19329), (464, 19383), (473, 19443), (479, 19485), (495, 19620), (499, 19644), (505, 19698), (508, 19746), (511, 19767), (514, 19788), (516, 19812), (517, 19815),

Gene: Marker_19 Start: 17246, Stop: 19783, Start Num: 52

Candidate Starts for Marker_19:

(Start: 52 @17246 has 221 MA's), (59, 17267), (Start: 69 @17288 has 1 MA's), (78, 17327), (104, 17396), (106, 17405), (107, 17408), (111, 17426), (124, 17474), (166, 17627), (169, 17636), (186, 17681), (200, 17780), (201, 17783), (210, 17849), (222, 17924), (223, 17930), (224, 17948), (232, 17972), (234, 17981), (240, 18014), (242, 18020), (248, 18050), (254, 18071), (258, 18089), (259, 18101), (261, 18110), (264, 18125), (265, 18128), (287, 18239), (288, 18242), (289, 18251), (290, 18257), (293, 18272), (294, 18275), (296, 18296), (303, 18326), (306, 18338), (310, 18371), (331, 18482), (332, 18485), (339, 18512), (341, 18518), (348, 18572), (349, 18575), (359, 18623), (365, 18662), (368, 18677), (370, 18689), (371, 18692), (373, 18713), (381, 18758), (386, 18782), (391, 18812), (397, 18854), (400, 18872), (401, 18875), (408, 18911), (409, 18929), (413, 18941), (414, 18950), (420, 18983), (430, 19046), (432, 19064), (434, 19073), (435, 19085), (444, 19151), (448, 19172), (453, 19196), (458, 19232), (464, 19286), (473, 19346), (479, 19388), (487, 19466), (495, 19523), (499, 19547), (505, 19601), (508, 19649), (514, 19691), (516, 19715), (517, 19718),

Gene: Marshmallow_26 Start: 22283, Stop: 24679, Start Num: 84

Candidate Starts for Marshmallow_26:

(Start: 84 @22283 has 125 MA's), (133, 22460), (141, 22481), (190, 22628), (211, 22769), (217, 22802), (222, 22835), (228, 22871), (248, 22964), (261, 23024), (265, 23042), (281, 23123), (323,

23351), (331, 23396), (368, 23591), (369, 23597), (371, 23606), (378, 23651), (380, 23666), (408, 23822), (409, 23840), (412, 23849), (432, 23978), (433, 23981), (463, 24191), (465, 24203), (483, 24317), (508, 24533), (517, 24617), (522, 24641), (524, 24650),

Gene: Martik_18 Start: 17406, Stop: 19958, Start Num: 52

Candidate Starts for Martik_18:

(Start: 52 @17406 has 221 MA's), (79, 17487), (104, 17556), (106, 17565), (107, 17568), (111, 17586), (124, 17634), (136, 17679), (168, 17793), (169, 17796), (174, 17808), (180, 17829), (184, 17838), (186, 17841), (193, 17889), (197, 17919), (205, 17985), (211, 18018), (218, 18054), (221, 18078), (233, 18138), (234, 18141), (238, 18159), (252, 18222), (254, 18225), (258, 18243), (261, 18264), (265, 18282), (270, 18309), (274, 18330), (281, 18363), (289, 18405), (290, 18411), (291, 18414), (294, 18429), (297, 18456), (298, 18459), (303, 18480), (306, 18492), (310, 18525), (329, 18618), (348, 18726), (351, 18750), (352, 18756), (358, 18774), (359, 18777), (363, 18801), (368, 18831), (372, 18855), (378, 18891), (379, 18897), (380, 18906), (384, 18933), (394, 18996), (397, 19020), (398, 19035), (407, 19077), (415, 19128), (431, 19224), (432, 19239), (434, 19248), (437, 19272), (447, 19335), (453, 19371), (493, 19677), (499, 19722), (508, 19824),

Gene: MaryV_43 Start: 28332, Stop: 30899, Start Num: 51

Candidate Starts for MaryV_43:

(Start: 51 @28332 has 6 MA's), (70, 28401), (110, 28524), (111, 28530), (113, 28533), (117, 28557), (122, 28578), (165, 28734), (167, 28740), (169, 28746), (177, 28776), (179, 28782), (186, 28803), (187, 28812), (196, 28872), (206, 28950), (223, 29049), (229, 29082), (233, 29097), (234, 29100), (242, 29139), (254, 29190), (258, 29208), (261, 29229), (262, 29235), (268, 29262), (271, 29289), (287, 29358), (292, 29382), (295, 29403), (298, 29424), (301, 29433), (306, 29454), (310, 29487), (311, 29490), (320, 29541), (323, 29553), (337, 29619), (342, 29637), (347, 29676), (368, 29793), (375, 29838), (384, 29895), (389, 29919), (391, 29928), (393, 29946), (400, 29991), (407, 30024), (411, 30060), (438, 30234), (439, 30252), (440, 30258), (450, 30315), (494, 30639), (497, 30657), (502, 30708), (509, 30771), (516, 30846),

Gene: Mattes_18 Start: 17397, Stop: 19922, Start Num: 52

Candidate Starts for Mattes_18:

(Start: 52 @17397 has 221 MA's), (59, 17418), (66, 17439), (79, 17478), (104, 17547), (106, 17556), (107, 17559), (111, 17577), (124, 17625), (137, 17673), (168, 17784), (169, 17787), (180, 17820), (186, 17832), (197, 17910), (205, 17976), (211, 18009), (219, 18063), (222, 18075), (233, 18129), (234, 18132), (237, 18141), (243, 18174), (252, 18213), (254, 18216), (257, 18231), (258, 18234), (262, 18261), (263, 18267), (264, 18270), (265, 18273), (270, 18300), (272, 18318), (274, 18321), (289, 18396), (293, 18417), (294, 18420), (297, 18447), (303, 18471), (310, 18516), (311, 18519), (320, 18570), (332, 18633), (334, 18642), (340, 18666), (359, 18771), (361, 18774), (368, 18825), (369, 18831), (370, 18837), (371, 18840), (378, 18885), (380, 18900), (384, 18927), (389, 18951), (397, 19002), (400, 19020), (401, 19023), (402, 19035), (413, 19089), (432, 19212), (440, 19275), (451, 19338), (460, 19413), (490, 19614), (513, 19824), (519, 19863), (520, 19866),

Gene: Maxxinista_27 Start: 21751, Stop: 24147, Start Num: 84

Candidate Starts for Maxxinista_27:

(Start: 84 @21751 has 125 MA's), (133, 21928), (141, 21949), (190, 22096), (217, 22270), (222, 22303), (228, 22339), (248, 22432), (261, 22492), (265, 22510), (291, 22642), (298, 22687), (323, 22819), (331, 22864), (346, 22924), (364, 23038), (368, 23059), (374, 23098), (378, 23119), (380, 23134), (407, 23284), (408, 23290), (409, 23308), (420, 23362), (432, 23446), (447, 23539), (483, 23785), (508, 24001), (517, 24085), (524, 24118),

Gene: Megatron06_31 Start: 26215, Stop: 29058, Start Num: 22

Candidate Starts for Megatron06_31:

(Start: 22 @26215 has 8 MA's), (38, 26347), (40, 26359), (43, 26368), (Start: 54 @26437 has 3 MA's), (Start: 57 @26443 has 2 MA's), (73, 26503), (83, 26524), (93, 26572), (106, 26614), (113, 26638), (118, 26671), (127, 26707), (131, 26719), (157, 26812), (169, 26869), (181, 26908), (203, 27034), (211, 27103), (216, 27133), (223, 27175), (234, 27226), (254, 27316), (258, 27334), (271, 27415), (281, 27454), (286, 27475), (310, 27613), (317, 27652), (330, 27715), (349, 27817), (388, 28042), (445, 28405), (449, 28432), (489, 28675), (493, 28708), (496, 28732), (508, 28852), (518, 28930), (529, 29017), (530, 29032), (531, 29038),

Gene: Melissauren88_18 Start: 17470, Stop: 19965, Start Num: 69

Candidate Starts for Melissauren88_18:

(49, 17416), (Start: 52 @17428 has 221 MA's), (59, 17449), (Start: 69 @17470 has 1 MA's), (78, 17509), (104, 17578), (106, 17587), (107, 17590), (111, 17608), (119, 17641), (124, 17656), (137, 17704), (168, 17815), (169, 17818), (179, 17848), (184, 17860), (186, 17863), (197, 17941), (201, 17965), (210, 18031), (218, 18076), (222, 18106), (223, 18112), (224, 18130), (232, 18154), (234, 18163), (240, 18196), (242, 18202), (248, 18232), (258, 18271), (259, 18283), (261, 18292), (264, 18307), (265, 18310), (287, 18421), (288, 18424), (289, 18433), (290, 18439), (293, 18454), (294, 18457), (296, 18478), (303, 18508), (306, 18520), (310, 18553), (331, 18664), (332, 18667), (339, 18694), (341, 18700), (348, 18754), (349, 18757), (365, 18844), (368, 18859), (370, 18871), (371, 18874), (381, 18940), (386, 18964), (389, 18985), (391, 18994), (400, 19054), (401, 19057), (408, 19093), (409, 19111), (413, 19123), (414, 19132), (419, 19159), (430, 19228), (432, 19246), (434, 19255), (435, 19267), (439, 19303), (444, 19333), (448, 19354), (453, 19378), (458, 19414), (464, 19468), (473, 19528), (479, 19570), (487, 19648), (495, 19705), (499, 19729), (505, 19783), (508, 19831), (514, 19873), (516, 19897), (517, 19900),

Gene: MiaZeal_36 Start: 27554, Stop: 30061, Start Num: 52

Candidate Starts for MiaZeal_36:

(Start: 52 @27554 has 221 MA's), (111, 27749), (119, 27785), (124, 27800), (153, 27887), (161, 27902), (184, 27977), (188, 27989), (193, 28016), (207, 28121), (215, 28160), (218, 28169), (222, 28193), (223, 28199), (224, 28217), (234, 28250), (237, 28259), (238, 28268), (240, 28283), (247, 28310), (248, 28319), (258, 28358), (259, 28370), (261, 28379), (278, 28463), (294, 28544), (298, 28574), (299, 28577), (306, 28607), (309, 28634), (311, 28643), (320, 28694), (321, 28703), (323, 28706), (330, 28742), (334, 28763), (343, 28799), (369, 28952), (378, 29006), (386, 29051), (388, 29069), (389, 29072), (396, 29111), (418, 29258), (420, 29267), (431, 29336), (432, 29351), (458, 29516), (467, 29603), (476, 29651), (483, 29702), (492, 29780), (518, 30002), (520, 30005), (524, 30032),

Gene: MilleniumForce_19 Start: 18211, Stop: 20748, Start Num: 52

Candidate Starts for MilleniumForce_19:

(49, 18199), (Start: 52 @18211 has 221 MA's), (59, 18232), (Start: 69 @18253 has 1 MA's), (78, 18292), (104, 18361), (106, 18370), (107, 18373), (111, 18391), (119, 18424), (124, 18439), (137, 18487), (168, 18598), (169, 18601), (179, 18631), (184, 18643), (186, 18646), (197, 18724), (201, 18748), (210, 18814), (218, 18859), (222, 18889), (223, 18895), (224, 18913), (232, 18937), (234, 18946), (240, 18979), (242, 18985), (248, 19015), (258, 19054), (259, 19066), (261, 19075), (264, 19090), (265, 19093), (287, 19204), (288, 19207), (289, 19216), (290, 19222), (293, 19237), (294, 19240), (296, 19261), (303, 19291), (306, 19303), (310, 19336), (331, 19447), (332, 19450), (339, 19477), (341, 19483), (348, 19537), (349, 19540), (368, 19642), (370, 19654), (371, 19657), (381, 19723), (386, 19747), (389, 19768), (391, 19777), (400, 19837), (401, 19840), (408, 19876), (409, 19894), (413, 19906), (414, 19915), (419, 19942), (430, 20011), (432, 20029), (434, 20038), (435, 20050), (439, 20086), (444, 20116), (448, 20137), (453, 20161), (458, 20197), (464, 20251), (473, 20311), (479, 20353), (487, 20431), (495, 20488), (499, 20512), (505, 20566), (508, 20614), (514, 20656), (516, 20680), (517, 20683),

Gene: Mindy_26 Start: 22062, Stop: 24458, Start Num: 84

Candidate Starts for Mindy_26:

(Start: 84 @22062 has 125 MA's), (133, 22239), (141, 22260), (190, 22407), (211, 22548), (217, 22581), (222, 22614), (228, 22650), (248, 22743), (261, 22803), (265, 22821), (295, 22977), (298, 22998), (320, 23118), (323, 23130), (331, 23175), (368, 23370), (371, 23385), (378, 23430), (380, 23445), (408, 23601), (409, 23619), (412, 23628), (432, 23757), (433, 23760), (463, 23970), (465, 23982), (483, 24096), (508, 24312), (517, 24396), (522, 24420), (524, 24429),

Gene: Minerva_39 Start: 31221, Stop: 33764, Start Num: 52

Candidate Starts for Minerva_39:

(45, 31164), (Start: 52 @31221 has 221 MA's), (110, 31410), (124, 31467), (136, 31512), (168, 31626), (169, 31629), (175, 31650), (180, 31662), (186, 31674), (197, 31752), (205, 31818), (211, 31851), (218, 31887), (221, 31911), (233, 31971), (234, 31974), (238, 31992), (252, 32055), (254, 32058), (258, 32076), (261, 32097), (265, 32115), (270, 32142), (274, 32163), (281, 32196), (290, 32244), (291, 32247), (294, 32262), (297, 32289), (303, 32313), (310, 32358), (334, 32484), (348, 32562), (361, 32616), (368, 32667), (369, 32673), (370, 32679), (371, 32682), (378, 32727), (380, 32742), (384, 32769), (389, 32793), (397, 32844), (400, 32862), (401, 32865), (402, 32877), (413, 32931), (420, 32973), (440, 33117), (449, 33171), (450, 33177), (451, 33180), (456, 33216), (457, 33219), (459, 33228), (460, 33255), (490, 33456), (508, 33627), (513, 33666), (520, 33708),

Gene: MinionDave_19 Start: 18080, Stop: 20617, Start Num: 52

Candidate Starts for MinionDave_19:

(Start: 52 @18080 has 221 MA's), (86, 18170), (104, 18230), (106, 18239), (107, 18242), (111, 18260), (119, 18293), (124, 18308), (137, 18356), (168, 18467), (169, 18470), (179, 18500), (184, 18512), (186, 18515), (197, 18593), (201, 18617), (210, 18683), (218, 18728), (222, 18758), (223, 18764), (224, 18782), (232, 18806), (234, 18815), (240, 18848), (242, 18854), (248, 18884), (258, 18923), (259, 18935), (261, 18944), (264, 18959), (265, 18962), (287, 19073), (288, 19076), (289, 19085), (290, 19091), (293, 19106), (294, 19109), (296, 19130), (303, 19160), (306, 19172), (310, 19205), (331, 19316), (332, 19319), (339, 19346), (341, 19352), (348, 19406), (349, 19409), (365, 19496), (368, 19511), (370, 19523), (371, 19526), (381, 19592), (386, 19616), (389, 19637), (391, 19646), (400, 19706), (401, 19709), (408, 19745), (409, 19763), (413, 19775), (414, 19784), (419, 19811), (430, 19880), (432, 19898), (434, 19907), (435, 19919), (439, 19955), (444, 19985), (448, 20006), (453, 20030), (458, 20066), (464, 20120), (473, 20180), (479, 20222), (487, 20300), (495, 20357), (499, 20381), (505, 20435), (508, 20483), (514, 20525), (516, 20549), (517, 20552),

Gene: Miniwave_26 Start: 22481, Stop: 24877, Start Num: 84

Candidate Starts for Miniwave_26:

(Start: 84 @22481 has 125 MA's), (133, 22658), (141, 22679), (190, 22826), (211, 22967), (217, 23000), (222, 23033), (228, 23069), (248, 23162), (261, 23222), (265, 23240), (291, 23372), (298, 23417), (323, 23549), (331, 23594), (346, 23654), (364, 23768), (368, 23789), (374, 23828), (378, 23849), (380, 23864), (407, 24014), (408, 24020), (409, 24038), (420, 24092), (432, 24176), (447, 24269), (483, 24515), (508, 24731), (517, 24815), (524, 24848),

Gene: Minnie_19 Start: 17940, Stop: 20477, Start Num: 52

Candidate Starts for Minnie_19:

(49, 17928), (Start: 52 @17940 has 221 MA's), (59, 17961), (Start: 69 @17982 has 1 MA's), (78, 18021), (104, 18090), (106, 18099), (107, 18102), (111, 18120), (119, 18153), (124, 18168), (137, 18216), (168, 18327), (169, 18330), (179, 18360), (184, 18372), (186, 18375), (197, 18453), (201, 18477), (210, 18543), (218, 18588), (222, 18618), (223, 18624), (224, 18642), (232, 18666), (234, 18675), (240, 18708), (242, 18714), (248, 18744), (258, 18783), (259, 18795), (261, 18804), (264, 18819), (265, 18822), (287, 18933), (288, 18936), (289, 18945), (290, 18951), (293, 18966), (294, 18969), (296, 18990), (303, 19020), (306, 19032), (310, 19065), (331, 19176), (332, 19179), (339, 19206), (341, 19212), (348, 19266), (349, 19269), (368, 19371), (370, 19383), (371, 19386), (381, 19452), (386, 19476), (389, 19497), (391, 19506), (400, 19566), (401, 19569), (408, 19605), (409,

19623), (413, 19635), (414, 19644), (419, 19671), (430, 19740), (432, 19758), (434, 19767), (435, 19779), (439, 19815), (444, 19845), (448, 19866), (453, 19890), (458, 19926), (464, 19980), (473, 20040), (479, 20082), (487, 20160), (495, 20217), (499, 20241), (505, 20295), (508, 20343), (514, 20385), (516, 20409), (517, 20412),

Gene: Misfit_26 Start: 22371, Stop: 24767, Start Num: 84

Candidate Starts for Misfit_26:

(Start: 84 @22371 has 125 MA's), (133, 22548), (141, 22569), (190, 22716), (211, 22857), (217, 22890), (222, 22923), (228, 22959), (248, 23052), (261, 23112), (265, 23130), (291, 23262), (298, 23307), (323, 23439), (331, 23484), (346, 23544), (364, 23658), (368, 23679), (374, 23718), (378, 23739), (380, 23754), (407, 23904), (408, 23910), (409, 23928), (420, 23982), (432, 24066), (447, 24159), (483, 24405), (508, 24621), (517, 24705), (524, 24738),

Gene: Misha28_19 Start: 17273, Stop: 19798, Start Num: 52

Candidate Starts for Misha28_19:

(Start: 52 @17273 has 221 MA's), (59, 17294), (Start: 69 @17315 has 1 MA's), (78, 17354), (104, 17423), (106, 17432), (107, 17435), (111, 17453), (119, 17486), (124, 17501), (137, 17549), (168, 17660), (169, 17663), (186, 17708), (197, 17786), (201, 17810), (210, 17876), (218, 17921), (222, 17951), (223, 17957), (224, 17975), (232, 17999), (234, 18008), (240, 18041), (242, 18047), (248, 18077), (258, 18116), (259, 18128), (261, 18137), (264, 18152), (265, 18155), (294, 18302), (303, 18353), (322, 18464), (332, 18515), (338, 18539), (352, 18632), (363, 18677), (364, 18686), (368, 18707), (370, 18719), (371, 18722), (378, 18767), (386, 18812), (388, 18830), (389, 18833), (397, 18884), (407, 18935), (408, 18941), (409, 18959), (413, 18971), (414, 18980), (420, 19013), (432, 19094), (441, 19163), (447, 19190), (450, 19217), (459, 19268), (464, 19316), (498, 19559), (508, 19664), (511, 19685), (519, 19739), (523, 19763),

Gene: MisterCuddles_18 Start: 17371, Stop: 19908, Start Num: 52

Candidate Starts for MisterCuddles_18:

(Start: 52 @17371 has 221 MA's), (59, 17392), (Start: 69 @17413 has 1 MA's), (78, 17452), (104, 17521), (106, 17530), (107, 17533), (111, 17551), (119, 17584), (124, 17599), (166, 17752), (169, 17761), (186, 17806), (200, 17905), (201, 17908), (210, 17974), (222, 18049), (223, 18055), (232, 18097), (233, 18103), (234, 18106), (240, 18139), (242, 18145), (248, 18175), (254, 18196), (259, 18226), (261, 18235), (264, 18250), (265, 18253), (287, 18364), (288, 18367), (289, 18376), (290, 18382), (293, 18397), (294, 18400), (296, 18421), (303, 18451), (306, 18463), (310, 18496), (331, 18607), (332, 18610), (339, 18637), (341, 18643), (348, 18697), (349, 18700), (365, 18787), (368, 18802), (370, 18814), (371, 18817), (381, 18883), (386, 18907), (389, 18928), (391, 18937), (397, 18979), (400, 18997), (401, 19000), (407, 19030), (409, 19054), (413, 19066), (414, 19075), (430, 19171), (432, 19189), (434, 19198), (435, 19210), (439, 19246), (444, 19276), (447, 19285), (448, 19297), (458, 19357), (464, 19411), (473, 19471), (479, 19513), (495, 19648), (499, 19672), (505, 19726), (508, 19774), (514, 19816), (516, 19840), (517, 19843),

Gene: Modragons_18 Start: 17634, Stop: 20171, Start Num: 52

Candidate Starts for Modragons_18:

(Start: 52 @17634 has 221 MA's), (59, 17655), (Start: 69 @17676 has 1 MA's), (78, 17715), (104, 17784), (106, 17793), (107, 17796), (111, 17814), (124, 17862), (168, 18021), (169, 18024), (184, 18066), (186, 18069), (197, 18147), (200, 18168), (201, 18171), (210, 18237), (211, 18246), (218, 18282), (222, 18312), (223, 18318), (232, 18360), (233, 18366), (234, 18369), (240, 18402), (242, 18408), (248, 18438), (254, 18459), (259, 18489), (261, 18498), (284, 18606), (286, 18618), (287, 18627), (288, 18630), (289, 18639), (290, 18645), (293, 18660), (294, 18663), (296, 18684), (306, 18726), (310, 18759), (339, 18900), (341, 18906), (348, 18960), (349, 18963), (352, 18990), (368, 19065), (370, 19077), (371, 19080), (381, 19146), (384, 19167), (386, 19170), (389, 19191), (397, 19242), (400, 19260), (401, 19263), (407, 19293), (409, 19317), (413, 19329), (430, 19434), (432, 19452), (434, 19461), (435, 19473), (439, 19509), (444, 19539), (448, 19560), (453, 19584), (458,

19620), (473, 19734), (479, 19776), (487, 19854), (495, 19911), (499, 19935), (505, 19989), (508, 20037), (514, 20079), (516, 20103), (517, 20106),

Gene: Moldemort_27 Start: 22026, Stop: 24422, Start Num: 84

Candidate Starts for Moldemort_27:

(Start: 84 @22026 has 125 MA's), (133, 22203), (141, 22224), (190, 22371), (217, 22545), (222, 22578), (228, 22614), (248, 22707), (261, 22767), (265, 22785), (291, 22917), (298, 22962), (323, 23094), (331, 23139), (346, 23199), (364, 23313), (368, 23334), (374, 23373), (378, 23394), (380, 23409), (407, 23559), (408, 23565), (409, 23583), (420, 23637), (432, 23721), (447, 23814), (483, 24060), (508, 24276), (517, 24360), (524, 24393),

Gene: MontyDev_30 Start: 24302, Stop: 27778, Start Num: 5

Candidate Starts for MontyDev_30:

(Start: 1 @24278 has 8 MA's), (4, 24290), (Start: 5 @24302 has 1 MA's), (8, 24485), (10, 24566), (14, 24665), (15, 24689), (16, 24707), (23, 24866), (25, 24899), (33, 24947), (38, 24986), (62, 25112), (68, 25121), (113, 25307), (156, 25508), (192, 25685), (205, 25784), (211, 25817), (221, 25862), (223, 25874), (232, 25916), (233, 25922), (234, 25925), (247, 25994), (260, 26072), (261, 26078), (269, 26123), (270, 26126), (287, 26210), (300, 26279), (308, 26324), (315, 26369), (325, 26414), (329, 26435), (331, 26453), (332, 26456), (333, 26462), (334, 26465), (356, 26603), (366, 26651), (367, 26657), (380, 26738), (396, 26831), (404, 26891), (407, 26900), (408, 26906), (410, 26927), (436, 27092), (447, 27158), (448, 27170), (451, 27188), (453, 27194), (485, 27428), (488, 27467), (494, 27512), (498, 27542), (507, 27635), (511, 27662),

Gene: MooMoo_18 Start: 17135, Stop: 19570, Start Num: 52

Candidate Starts for MooMoo_18:

(Start: 52 @17135 has 221 MA's), (56, 17147), (63, 17168), (74, 17213), (82, 17231), (87, 17243), (108, 17318), (133, 17414), (143, 17441), (149, 17450), (154, 17468), (156, 17471), (162, 17480), (188, 17555), (189, 17564), (191, 17573), (208, 17651), (222, 17717), (223, 17723), (230, 17759), (231, 17762), (232, 17765), (233, 17771), (237, 17783), (238, 17792), (240, 17807), (250, 17858), (257, 17879), (258, 17882), (261, 17903), (267, 17927), (275, 17972), (287, 18032), (288, 18035), (292, 18056), (295, 18077), (301, 18110), (303, 18119), (310, 18164), (311, 18167), (312, 18173), (318, 18206), (320, 18218), (321, 18227), (323, 18230), (346, 18335), (349, 18368), (370, 18482), (379, 18536), (383, 18569), (384, 18572), (386, 18575), (388, 18593), (396, 18632), (407, 18695), (418, 18773), (421, 18791), (430, 18848), (431, 18851), (433, 18869), (440, 18929), (442, 18944), (453, 18998), (464, 19085), (478, 19190), (484, 19217), (492, 19289), (495, 19313), (508, 19430), (511, 19451), (518, 19511), (520, 19514), (524, 19541), (526, 19550),

Gene: Moonbeam_19 Start: 17889, Stop: 20426, Start Num: 52

Candidate Starts for Moonbeam_19:

(49, 17877), (Start: 52 @17889 has 221 MA's), (59, 17910), (Start: 69 @17931 has 1 MA's), (78, 17970), (104, 18039), (106, 18048), (107, 18051), (111, 18069), (119, 18102), (124, 18117), (137, 18165), (168, 18276), (169, 18279), (179, 18309), (184, 18321), (186, 18324), (197, 18402), (201, 18426), (210, 18492), (218, 18537), (222, 18567), (223, 18573), (224, 18591), (232, 18615), (234, 18624), (240, 18657), (242, 18663), (248, 18693), (258, 18732), (259, 18744), (261, 18753), (264, 18768), (265, 18771), (287, 18882), (288, 18885), (289, 18894), (290, 18900), (293, 18915), (294, 18918), (296, 18939), (303, 18969), (306, 18981), (310, 19014), (331, 19125), (332, 19128), (339, 19155), (341, 19161), (348, 19215), (349, 19218), (365, 19305), (368, 19320), (370, 19332), (371, 19335), (381, 19401), (386, 19425), (389, 19446), (391, 19455), (397, 19497), (400, 19515), (401, 19518), (408, 19554), (409, 19572), (413, 19584), (414, 19593), (419, 19620), (430, 19689), (432, 19707), (434, 19716), (435, 19728), (439, 19764), (444, 19794), (448, 19815), (453, 19839), (458, 19875), (464, 19929), (473, 19989), (479, 20031), (487, 20109), (495, 20166), (499, 20190), (505, 20244), (508, 20292), (514, 20334), (516, 20358), (517, 20361),

Gene: Mopey_30 Start: 24316, Stop: 26586, Start Num: 145

Candidate Starts for Mopey_30:

(Start: 145 @24316 has 21 MA's), (176, 24451), (178, 24460), (205, 24634), (206, 24640), (209, 24652), (236, 24805), (239, 24820), (241, 24835), (314, 25216), (316, 25222), (326, 25267), (343, 25354), (377, 25555), (378, 25561), (385, 25609), (391, 25639), (393, 25663), (422, 25852), (425, 25879), (434, 25927), (443, 25999), (450, 26038), (454, 26059), (455, 26074), (459, 26092), (461, 26122), (475, 26206), (503, 26407), (508, 26449), (527, 26575),

Gene: Mori_58 Start: 36137, Stop: 38647, Start Num: 65

Candidate Starts for Mori_58:

(Start: 65 @36137 has 28 MA's), (72, 36170), (91, 36239), (92, 36242), (100, 36266), (107, 36290), (114, 36314), (119, 36347), (170, 36554), (173, 36566), (174, 36569), (204, 36716), (205, 36746), (210, 36770), (216, 36800), (217, 36803), (222, 36830), (224, 36854), (233, 36884), (245, 36941), (249, 36965), (258, 37001), (259, 37013), (264, 37037), (265, 37040), (271, 37082), (293, 37178), (294, 37181), (344, 37436), (368, 37580), (378, 37640), (388, 37712), (389, 37715), (405, 37811), (432, 37985), (435, 38006), (449, 38099), (452, 38111), (464, 38201), (477, 38276), (486, 38321), (510, 38522), (515, 38576), (520, 38591),

Gene: Mosby_25 Start: 21791, Stop: 24187, Start Num: 84

Candidate Starts for Mosby_25:

(Start: 84 @21791 has 125 MA's), (133, 21968), (141, 21989), (190, 22136), (211, 22277), (217, 22310), (222, 22343), (228, 22379), (248, 22472), (261, 22532), (265, 22550), (291, 22682), (298, 22727), (323, 22859), (331, 22904), (364, 23078), (368, 23099), (374, 23138), (378, 23159), (380, 23174), (408, 23330), (409, 23348), (420, 23402), (432, 23486), (447, 23579), (483, 23825), (508, 24041), (517, 24125), (524, 24158),

Gene: Mova_19 Start: 17248, Stop: 19785, Start Num: 52

Candidate Starts for Mova_19:

(Start: 52 @17248 has 221 MA's), (59, 17269), (Start: 69 @17290 has 1 MA's), (78, 17329), (104, 17398), (106, 17407), (107, 17410), (111, 17428), (119, 17461), (124, 17476), (168, 17635), (169, 17638), (186, 17683), (197, 17761), (201, 17785), (210, 17851), (222, 17926), (223, 17932), (224, 17950), (232, 17974), (234, 17983), (240, 18016), (242, 18022), (248, 18052), (254, 18073), (258, 18091), (261, 18112), (264, 18127), (265, 18130), (284, 18220), (287, 18241), (288, 18244), (289, 18253), (290, 18259), (293, 18274), (294, 18277), (296, 18298), (306, 18340), (310, 18373), (323, 18439), (331, 18484), (332, 18487), (339, 18514), (341, 18520), (348, 18574), (349, 18577), (352, 18604), (365, 18664), (368, 18679), (370, 18691), (371, 18694), (381, 18760), (386, 18784), (391, 18814), (397, 18856), (400, 18874), (401, 18877), (408, 18913), (409, 18931), (413, 18943), (414, 18952), (419, 18979), (430, 19048), (432, 19066), (434, 19075), (435, 19087), (439, 19123), (444, 19153), (448, 19174), (453, 19198), (458, 19234), (464, 19288), (479, 19390), (495, 19525), (499, 19549), (505, 19603), (508, 19651), (514, 19693), (516, 19717), (517, 19720),

Gene: Mozy_19 Start: 17298, Stop: 19835, Start Num: 52

Candidate Starts for Mozy_19:

(Start: 52 @17298 has 221 MA's), (59, 17319), (Start: 69 @17340 has 1 MA's), (78, 17379), (104, 17448), (106, 17457), (107, 17460), (111, 17478), (119, 17511), (124, 17526), (168, 17685), (169, 17688), (179, 17718), (186, 17733), (197, 17811), (200, 17832), (201, 17835), (210, 17901), (222, 17976), (223, 17982), (232, 18024), (233, 18030), (234, 18033), (240, 18066), (242, 18072), (248, 18102), (254, 18123), (259, 18153), (261, 18162), (287, 18291), (288, 18294), (289, 18303), (290, 18309), (293, 18324), (294, 18327), (296, 18348), (303, 18378), (306, 18390), (310, 18423), (311, 18426), (323, 18489), (339, 18564), (341, 18570), (348, 18624), (349, 18627), (352, 18654), (368, 18729), (370, 18741), (371, 18744), (381, 18810), (386, 18834), (391, 18864), (400, 18924), (401, 18927), (408, 18963), (409, 18981), (414, 19002), (430, 19098), (432, 19116), (434, 19125), (435, 19137), (439, 19173), (448, 19224), (458, 19284), (464, 19338), (479, 19440), (487, 19518), (495,

19575), (499, 19599), (505, 19653), (508, 19701), (514, 19743), (516, 19767), (517, 19770),

Gene: MrMiyagi_24 Start: 20573, Stop: 24064, Start Num: 2

Candidate Starts for MrMiyagi_24:

(Start: 2 @20573 has 2 MA's), (9, 20798), (11, 20867), (12, 20900), (21, 21095), (25, 21191), (26, 21194), (27, 21200), (31, 21227), (36, 21245), (134, 21695), (139, 21716), (156, 21782), (183, 21902), (194, 21971), (195, 21977), (214, 22121), (220, 22154), (227, 22196), (244, 22271), (261, 22358), (278, 22445), (279, 22448), (281, 22460), (306, 22586), (310, 22619), (324, 22691), (331, 22730), (386, 23030), (399, 23120), (406, 23156), (504, 23810),

Gene: MulchExplorer_21 Start: 18519, Stop: 21056, Start Num: 52

Candidate Starts for MulchExplorer_21:

(49, 18507), (Start: 52 @18519 has 221 MA's), (59, 18540), (Start: 69 @18561 has 1 MA's), (78, 18600), (104, 18669), (106, 18678), (107, 18681), (111, 18699), (119, 18732), (124, 18747), (137, 18795), (168, 18906), (169, 18909), (179, 18939), (184, 18951), (186, 18954), (197, 19032), (201, 19056), (210, 19122), (218, 19167), (222, 19197), (223, 19203), (224, 19221), (232, 19245), (234, 19254), (240, 19287), (242, 19293), (248, 19323), (258, 19362), (259, 19374), (261, 19383), (264, 19398), (265, 19401), (287, 19512), (288, 19515), (289, 19524), (290, 19530), (293, 19545), (294, 19548), (296, 19569), (303, 19599), (306, 19611), (310, 19644), (331, 19755), (332, 19758), (339, 19785), (341, 19791), (348, 19845), (349, 19848), (365, 19935), (368, 19950), (370, 19962), (371, 19965), (381, 20031), (386, 20055), (389, 20076), (391, 20085), (397, 20127), (400, 20145), (401, 20148), (408, 20184), (409, 20202), (413, 20214), (414, 20223), (419, 20250), (430, 20319), (432, 20337), (434, 20346), (435, 20358), (439, 20394), (444, 20424), (448, 20445), (453, 20469), (458, 20505), (464, 20559), (473, 20619), (479, 20661), (487, 20739), (495, 20796), (499, 20820), (505, 20874), (508, 20922), (514, 20964), (516, 20988), (517, 20991),

Gene: Murai_59 Start: 36318, Stop: 38828, Start Num: 65

Candidate Starts for Murai_59:

(Start: 65 @36318 has 28 MA's), (72, 36351), (91, 36420), (92, 36423), (100, 36447), (107, 36471), (114, 36495), (119, 36528), (170, 36735), (173, 36747), (174, 36750), (204, 36897), (205, 36927), (210, 36951), (216, 36981), (217, 36984), (222, 37011), (224, 37035), (233, 37065), (245, 37122), (258, 37182), (259, 37194), (264, 37218), (265, 37221), (271, 37263), (293, 37359), (294, 37362), (344, 37617), (368, 37761), (378, 37821), (388, 37893), (389, 37896), (405, 37992), (432, 38166), (435, 38187), (449, 38280), (452, 38292), (464, 38382), (477, 38457), (486, 38502), (510, 38703), (515, 38757), (520, 38772),

Gene: Murica_25 Start: 22268, Stop: 24664, Start Num: 84

Candidate Starts for Murica_25:

(Start: 84 @22268 has 125 MA's), (133, 22445), (141, 22466), (190, 22613), (211, 22754), (217, 22787), (222, 22820), (228, 22856), (248, 22949), (261, 23009), (265, 23027), (291, 23159), (298, 23204), (323, 23336), (331, 23381), (346, 23441), (364, 23555), (368, 23576), (374, 23615), (378, 23636), (380, 23651), (407, 23801), (408, 23807), (409, 23825), (420, 23879), (432, 23963), (447, 24056), (483, 24302), (508, 24518), (517, 24602), (524, 24635),

Gene: Murphy_27 Start: 22263, Stop: 24659, Start Num: 84

Candidate Starts for Murphy_27:

(Start: 84 @22263 has 125 MA's), (133, 22440), (141, 22461), (190, 22608), (211, 22749), (217, 22782), (222, 22815), (228, 22851), (248, 22944), (261, 23004), (265, 23022), (291, 23154), (298, 23199), (323, 23331), (331, 23376), (346, 23436), (364, 23550), (368, 23571), (374, 23610), (378, 23631), (380, 23646), (407, 23796), (408, 23802), (409, 23820), (420, 23874), (432, 23958), (447, 24051), (483, 24297), (508, 24513), (517, 24597), (524, 24630),

Gene: Mutaforma13_18 Start: 17444, Stop: 19981, Start Num: 52

Candidate Starts for Mutaforma13_18:

(49, 17432), (Start: 52 @17444 has 221 MA's), (59, 17465), (Start: 69 @17486 has 1 MA's), (77, 17522), (78, 17525), (104, 17594), (106, 17603), (107, 17606), (111, 17624), (119, 17657), (124, 17672), (137, 17720), (166, 17825), (168, 17831), (169, 17834), (179, 17864), (184, 17876), (186, 17879), (201, 17981), (210, 18047), (218, 18092), (222, 18122), (223, 18128), (224, 18146), (232, 18170), (234, 18179), (240, 18212), (242, 18218), (254, 18269), (258, 18287), (259, 18299), (261, 18308), (264, 18323), (266, 18329), (287, 18437), (289, 18449), (290, 18455), (293, 18470), (294, 18473), (296, 18494), (303, 18524), (306, 18536), (310, 18569), (323, 18635), (331, 18680), (332, 18683), (339, 18710), (341, 18716), (348, 18770), (349, 18773), (352, 18800), (368, 18875), (370, 18887), (371, 18890), (381, 18956), (386, 18980), (391, 19010), (397, 19052), (400, 19070), (401, 19073), (408, 19109), (409, 19127), (414, 19148), (419, 19175), (430, 19244), (432, 19262), (434, 19271), (435, 19283), (439, 19319), (448, 19370), (451, 19388), (458, 19430), (464, 19484), (479, 19586), (495, 19721), (499, 19745), (505, 19799), (508, 19847), (514, 19889), (516, 19913), (517, 19916),

Gene: Myrale_26 Start: 22154, Stop: 24550, Start Num: 84

Candidate Starts for Myrale_26:

(Start: 84 @22154 has 125 MA's), (133, 22331), (141, 22352), (190, 22499), (211, 22640), (217, 22673), (222, 22706), (228, 22742), (248, 22835), (261, 22895), (265, 22913), (281, 22994), (323, 23222), (331, 23267), (368, 23462), (369, 23468), (371, 23477), (378, 23522), (380, 23537), (408, 23693), (409, 23711), (412, 23720), (421, 23774), (432, 23849), (433, 23852), (463, 24062), (465, 24074), (483, 24188), (508, 24404), (517, 24488), (522, 24512), (524, 24521),

Gene: Nala_26 Start: 22310, Stop: 24706, Start Num: 84

Candidate Starts for Nala_26:

(Start: 84 @22310 has 125 MA's), (133, 22487), (141, 22508), (190, 22655), (211, 22796), (217, 22829), (222, 22862), (228, 22898), (248, 22991), (261, 23051), (265, 23069), (291, 23201), (298, 23246), (323, 23378), (331, 23423), (346, 23483), (364, 23597), (368, 23618), (374, 23657), (378, 23678), (380, 23693), (407, 23843), (408, 23849), (409, 23867), (420, 23921), (432, 24005), (447, 24098), (483, 24344), (508, 24560), (517, 24644), (524, 24677),

Gene: Nebkiss_22 Start: 19932, Stop: 22502, Start Num: 48

Candidate Starts for Nebkiss_22:

(Start: 48 @19932 has 2 MA's), (61, 19989), (70, 20022), (98, 20100), (99, 20103), (115, 20157), (116, 20169), (132, 20217), (144, 20262), (164, 20334), (169, 20355), (175, 20376), (184, 20397), (186, 20400), (192, 20445), (205, 20544), (215, 20589), (223, 20634), (234, 20685), (238, 20703), (261, 20808), (262, 20814), (264, 20823), (265, 20826), (270, 20853), (274, 20874), (281, 20907), (284, 20916), (287, 20937), (289, 20949), (293, 20970), (303, 21024), (306, 21036), (310, 21069), (325, 21144), (330, 21171), (351, 21294), (359, 21321), (363, 21345), (368, 21375), (372, 21399), (379, 21441), (380, 21450), (398, 21579), (403, 21606), (413, 21657), (431, 21768), (432, 21783), (474, 22074), (495, 22242), (499, 22266), (514, 22410), (517, 22437), (519, 22443), (520, 22446),

Gene: NelitzaMV_26 Start: 22353, Stop: 24749, Start Num: 84

Candidate Starts for NelitzaMV_26:

(Start: 84 @22353 has 125 MA's), (133, 22530), (141, 22551), (190, 22698), (211, 22839), (217, 22872), (222, 22905), (228, 22941), (248, 23034), (261, 23094), (265, 23112), (295, 23268), (298, 23289), (320, 23409), (323, 23421), (331, 23466), (368, 23661), (371, 23676), (378, 23721), (380, 23736), (408, 23892), (409, 23910), (412, 23919), (432, 24048), (433, 24051), (463, 24261), (465, 24273), (483, 24387), (508, 24603), (517, 24687), (522, 24711), (524, 24720),

Gene: NewHope4_19 Start: 17446, Stop: 19983, Start Num: 52

Candidate Starts for NewHope4_19:

(Start: 52 @17446 has 221 MA's), (59, 17467), (Start: 69 @17488 has 1 MA's), (77, 17524), (78, 17527), (104, 17596), (106, 17605), (107, 17608), (111, 17626), (119, 17659), (124, 17674), (137, 17722), (166, 17827), (168, 17833), (169, 17836), (184, 17878), (186, 17881), (201, 17983), (210, 18049), (218, 18094), (222, 18124), (223, 18130), (224, 18148), (232, 18172), (234, 18181), (240, 18214), (242, 18220), (254, 18271), (258, 18289), (259, 18301), (261, 18310), (264, 18325), (266, 18331), (287, 18439), (289, 18451), (290, 18457), (293, 18472), (294, 18475), (296, 18496), (303, 18526), (306, 18538), (310, 18571), (323, 18637), (331, 18682), (332, 18685), (339, 18712), (341, 18718), (348, 18772), (349, 18775), (365, 18862), (368, 18877), (370, 18889), (371, 18892), (381, 18958), (389, 19003), (391, 19012), (400, 19072), (401, 19075), (408, 19111), (409, 19129), (413, 19141), (414, 19150), (419, 19177), (430, 19246), (432, 19264), (434, 19273), (435, 19285), (439, 19321), (444, 19351), (448, 19372), (453, 19396), (458, 19432), (464, 19486), (473, 19546), (479, 19588), (487, 19666), (495, 19723), (499, 19747), (505, 19801), (508, 19849), (514, 19891), (516, 19915), (517, 19918),

Gene: NiebruSaylor_57 Start: 35525, Stop: 38035, Start Num: 65

Candidate Starts for NiebruSaylor_57:

(Start: 65 @35525 has 28 MA's), (72, 35558), (91, 35627), (92, 35630), (100, 35654), (107, 35678), (114, 35702), (119, 35735), (170, 35942), (173, 35954), (174, 35957), (204, 36104), (205, 36134), (210, 36158), (216, 36188), (217, 36191), (222, 36218), (224, 36242), (233, 36272), (245, 36329), (249, 36353), (258, 36389), (259, 36401), (264, 36425), (265, 36428), (271, 36470), (293, 36566), (294, 36569), (344, 36824), (368, 36968), (378, 37028), (388, 37100), (389, 37103), (405, 37199), (432, 37373), (435, 37394), (449, 37487), (452, 37499), (464, 37589), (477, 37664), (486, 37709), (510, 37910), (515, 37964), (520, 37979),

Gene: Nilo_31 Start: 24634, Stop: 28134, Start Num: 1

Candidate Starts for Nilo_31:

(Start: 1 @24634 has 8 MA's), (4, 24646), (Start: 5 @24658 has 1 MA's), (8, 24841), (10, 24922), (14, 25021), (15, 25045), (16, 25063), (23, 25222), (25, 25255), (33, 25303), (38, 25342), (62, 25468), (68, 25477), (113, 25663), (156, 25864), (192, 26041), (205, 26140), (211, 26173), (221, 26218), (223, 26230), (232, 26272), (235, 26284), (247, 26350), (261, 26434), (263, 26449), (269, 26479), (290, 26584), (300, 26635), (308, 26680), (315, 26725), (325, 26770), (329, 26791), (331, 26809), (332, 26812), (333, 26818), (334, 26821), (356, 26959), (366, 27007), (367, 27013), (380, 27094), (396, 27187), (404, 27247), (407, 27256), (408, 27262), (410, 27283), (436, 27448), (447, 27514), (448, 27526), (451, 27544), (453, 27550), (485, 27784), (488, 27823), (494, 27868), (498, 27898), (507, 27991), (511, 28018),

Gene: Nimbo_18 Start: 17400, Stop: 19937, Start Num: 52

Candidate Starts for Nimbo_18:

(Start: 52 @17400 has 221 MA's), (59, 17421), (Start: 69 @17442 has 1 MA's), (78, 17481), (104, 17550), (106, 17559), (107, 17562), (111, 17580), (124, 17628), (137, 17676), (168, 17787), (169, 17790), (186, 17835), (197, 17913), (201, 17937), (210, 18003), (222, 18078), (223, 18084), (224, 18102), (232, 18126), (234, 18135), (240, 18168), (242, 18174), (248, 18204), (254, 18225), (259, 18255), (261, 18264), (284, 18372), (286, 18384), (287, 18393), (288, 18396), (290, 18411), (293, 18426), (294, 18429), (296, 18450), (306, 18492), (310, 18525), (331, 18636), (332, 18639), (339, 18666), (341, 18672), (348, 18726), (349, 18729), (352, 18756), (368, 18831), (370, 18843), (371, 18846), (381, 18912), (384, 18933), (386, 18936), (389, 18957), (391, 18966), (397, 19008), (400, 19026), (401, 19029), (407, 19059), (409, 19083), (413, 19095), (414, 19104), (430, 19200), (432, 19218), (434, 19227), (435, 19239), (439, 19275), (444, 19305), (447, 19314), (448, 19326), (458, 19386), (464, 19440), (473, 19500), (479, 19542), (495, 19677), (499, 19701), (505, 19755), (508, 19803), (514, 19845), (516, 19869), (517, 19872),

Gene: Nimrod_26 Start: 22529, Stop: 24925, Start Num: 84

Candidate Starts for Nimrod_26:

(Start: 84 @22529 has 125 MA's), (133, 22706), (141, 22727), (190, 22874), (211, 23015), (217, 23048), (222, 23081), (228, 23117), (248, 23210), (261, 23270), (265, 23288), (291, 23420), (298, 23465), (323, 23597), (331, 23642), (346, 23702), (364, 23816), (368, 23837), (374, 23876), (378, 23897), (380, 23912), (407, 24062), (408, 24068), (409, 24086), (420, 24140), (432, 24224), (447, 24317), (483, 24563), (508, 24779), (517, 24863), (524, 24896),

Gene: Nitzel_19 Start: 18136, Stop: 20673, Start Num: 52

Candidate Starts for Nitzel_19:

(Start: 52 @18136 has 221 MA's), (59, 18157), (Start: 69 @18178 has 1 MA's), (78, 18217), (104, 18286), (106, 18295), (107, 18298), (111, 18316), (119, 18349), (124, 18364), (137, 18412), (166, 18517), (168, 18523), (169, 18526), (184, 18568), (186, 18571), (201, 18673), (210, 18739), (218, 18784), (222, 18814), (223, 18820), (224, 18838), (232, 18862), (234, 18871), (240, 18904), (242, 18910), (254, 18961), (258, 18979), (259, 18991), (261, 19000), (264, 19015), (266, 19021), (287, 19129), (289, 19141), (290, 19147), (293, 19162), (294, 19165), (296, 19186), (303, 19216), (306, 19228), (310, 19261), (323, 19327), (331, 19372), (332, 19375), (339, 19402), (341, 19408), (348, 19462), (349, 19465), (352, 19492), (368, 19567), (370, 19579), (371, 19582), (381, 19648), (386, 19672), (391, 19702), (397, 19744), (400, 19762), (401, 19765), (408, 19801), (409, 19819), (413, 19831), (414, 19840), (419, 19867), (430, 19936), (432, 19954), (434, 19963), (435, 19975), (439, 20011), (448, 20062), (451, 20080), (458, 20122), (464, 20176), (473, 20236), (479, 20278), (495, 20413), (499, 20437), (505, 20491), (508, 20539), (514, 20581), (516, 20605), (517, 20608),

Gene: Nivrat_18 Start: 17405, Stop: 19930, Start Num: 52

Candidate Starts for Nivrat_18:

(Start: 52 @17405 has 221 MA's), (79, 17486), (104, 17555), (106, 17564), (107, 17567), (111, 17585), (124, 17633), (136, 17678), (168, 17792), (169, 17795), (174, 17807), (180, 17828), (184, 17837), (186, 17840), (193, 17888), (197, 17918), (205, 17984), (211, 18017), (218, 18053), (221, 18077), (233, 18137), (234, 18140), (238, 18158), (252, 18221), (254, 18224), (258, 18242), (261, 18263), (265, 18281), (270, 18308), (274, 18329), (281, 18362), (290, 18410), (291, 18413), (293, 18425), (294, 18428), (297, 18455), (303, 18479), (310, 18524), (334, 18650), (340, 18674), (361, 18782), (368, 18833), (370, 18845), (371, 18848), (378, 18893), (380, 18908), (384, 18935), (389, 18959), (397, 19010), (400, 19028), (401, 19031), (402, 19043), (413, 19097), (420, 19139), (440, 19283), (449, 19337), (450, 19343), (451, 19346), (456, 19382), (457, 19385), (459, 19394), (460, 19421), (490, 19622), (508, 19793), (513, 19832), (519, 19871), (520, 19874),

Gene: NoSleep_27 Start: 22023, Stop: 24419, Start Num: 84

Candidate Starts for NoSleep_27:

(Start: 84 @22023 has 125 MA's), (133, 22200), (141, 22221), (190, 22368), (217, 22542), (222, 22575), (228, 22611), (248, 22704), (261, 22764), (265, 22782), (291, 22914), (298, 22959), (323, 23091), (331, 23136), (346, 23196), (364, 23310), (368, 23331), (374, 23370), (378, 23391), (380, 23406), (407, 23556), (408, 23562), (409, 23580), (420, 23634), (432, 23718), (447, 23811), (483, 24057), (508, 24273), (517, 24357), (524, 24390),

Gene: NormanBulbieJr_18 Start: 17393, Stop: 19945, Start Num: 52

Candidate Starts for NormanBulbieJr_18:

(Start: 52 @17393 has 221 MA's), (79, 17474), (104, 17543), (106, 17552), (107, 17555), (111, 17573), (124, 17621), (136, 17666), (168, 17780), (169, 17783), (174, 17795), (180, 17816), (184, 17825), (186, 17828), (193, 17876), (197, 17906), (205, 17972), (211, 18005), (218, 18041), (221, 18065), (233, 18125), (234, 18128), (238, 18146), (252, 18209), (254, 18212), (258, 18230), (261, 18251), (265, 18269), (270, 18296), (274, 18317), (281, 18350), (289, 18392), (290, 18398), (291, 18401), (294, 18416), (297, 18443), (298, 18446), (303, 18467), (306, 18479), (310, 18512), (329, 18605), (348, 18713), (351, 18737), (352, 18743), (358, 18761), (359, 18764), (363, 18788), (368, 18818), (372, 18842), (378, 18878), (379, 18884), (380, 18893), (384, 18920), (394, 18983), (397, 19007), (398, 19022), (407, 19064), (415, 19115), (431, 19211), (432, 19226), (434, 19235), (437, 19259),

(447, 19322), (453, 19358), (493, 19664), (499, 19709), (508, 19811),

Gene: Nova_30 Start: 24743, Stop: 27013, Start Num: 145

Candidate Starts for Nova_30:

(Start: 145 @24743 has 21 MA's), (176, 24878), (178, 24887), (205, 25061), (206, 25067), (209, 25079), (236, 25232), (239, 25247), (241, 25262), (264, 25376), (314, 25643), (316, 25649), (326, 25694), (343, 25781), (377, 25982), (378, 25988), (385, 26036), (391, 26066), (393, 26090), (422, 26279), (425, 26306), (434, 26354), (443, 26426), (450, 26465), (454, 26486), (455, 26501), (459, 26519), (461, 26549), (503, 26834), (508, 26876), (527, 27002),

Gene: Oaker_29 Start: 25939, Stop: 28782, Start Num: 22

Candidate Starts for Oaker_29:

(Start: 22 @25939 has 8 MA's), (38, 26071), (40, 26083), (43, 26092), (Start: 54 @26161 has 3 MA's), (Start: 57 @26167 has 2 MA's), (73, 26227), (83, 26248), (93, 26296), (106, 26338), (113, 26362), (118, 26395), (127, 26431), (131, 26443), (157, 26536), (169, 26593), (181, 26632), (211, 26827), (216, 26857), (223, 26899), (234, 26950), (254, 27040), (258, 27058), (271, 27139), (281, 27178), (286, 27199), (310, 27337), (317, 27376), (330, 27439), (349, 27541), (388, 27766), (445, 28129), (449, 28156), (489, 28399), (493, 28432), (496, 28456), (508, 28576), (518, 28654), (529, 28741), (530, 28756), (531, 28762),

Gene: Ochi17_18 Start: 17634, Stop: 20171, Start Num: 52

Candidate Starts for Ochi17_18:

(Start: 52 @17634 has 221 MA's), (59, 17655), (Start: 69 @17676 has 1 MA's), (78, 17715), (104, 17784), (106, 17793), (107, 17796), (111, 17814), (124, 17862), (168, 18021), (169, 18024), (184, 18066), (186, 18069), (197, 18147), (200, 18168), (201, 18171), (210, 18237), (211, 18246), (218, 18282), (222, 18312), (223, 18318), (232, 18360), (233, 18366), (234, 18369), (240, 18402), (242, 18408), (248, 18438), (254, 18459), (259, 18489), (261, 18498), (284, 18606), (286, 18618), (287, 18627), (288, 18630), (289, 18639), (290, 18645), (293, 18660), (294, 18663), (296, 18684), (306, 18726), (310, 18759), (339, 18900), (341, 18906), (348, 18960), (349, 18963), (352, 18990), (368, 19065), (370, 19077), (371, 19080), (381, 19146), (384, 19167), (386, 19170), (389, 19191), (397, 19242), (400, 19260), (401, 19263), (407, 19293), (409, 19317), (413, 19329), (430, 19434), (432, 19452), (434, 19461), (435, 19473), (439, 19509), (444, 19539), (448, 19560), (453, 19584), (458, 19620), (473, 19734), (479, 19776), (487, 19854), (495, 19911), (499, 19935), (505, 19989), (508, 20037), (514, 20079), (516, 20103), (517, 20106),

Gene: OfUltron_18 Start: 17634, Stop: 20171, Start Num: 52

Candidate Starts for OfUltron_18:

(Start: 52 @17634 has 221 MA's), (59, 17655), (Start: 69 @17676 has 1 MA's), (78, 17715), (104, 17784), (106, 17793), (107, 17796), (111, 17814), (124, 17862), (168, 18021), (169, 18024), (184, 18066), (186, 18069), (197, 18147), (200, 18168), (201, 18171), (210, 18237), (211, 18246), (218, 18282), (222, 18312), (223, 18318), (232, 18360), (233, 18366), (234, 18369), (240, 18402), (242, 18408), (248, 18438), (254, 18459), (259, 18489), (261, 18498), (284, 18606), (286, 18618), (287, 18627), (288, 18630), (289, 18639), (290, 18645), (293, 18660), (294, 18663), (296, 18684), (306, 18726), (310, 18759), (339, 18900), (341, 18906), (348, 18960), (349, 18963), (352, 18990), (368, 19065), (370, 19077), (371, 19080), (381, 19146), (384, 19167), (386, 19170), (389, 19191), (397, 19242), (400, 19260), (401, 19263), (407, 19293), (409, 19317), (413, 19329), (430, 19434), (432, 19452), (434, 19461), (435, 19473), (439, 19509), (444, 19539), (448, 19560), (453, 19584), (458, 19620), (473, 19734), (479, 19776), (487, 19854), (495, 19911), (499, 19935), (505, 19989), (508, 20037), (514, 20079), (516, 20103), (517, 20106),

Gene: Ogopogo_21 Start: 17660, Stop: 20149, Start Num: 52

Candidate Starts for Ogopogo_21:

(Start: 52 @17660 has 221 MA's), (59, 17681), (Start: 69 @17702 has 1 MA's), (81, 17741), (104, 17810), (106, 17819), (107, 17822), (111, 17840), (124, 17888), (138, 17936), (161, 17990), (169, 18026), (172, 18032), (173, 18035), (179, 18053), (188, 18077), (192, 18101), (203, 18164), (215, 18248), (218, 18257), (222, 18281), (224, 18305), (232, 18329), (233, 18335), (238, 18356), (242, 18377), (248, 18407), (256, 18437), (259, 18458), (278, 18551), (281, 18566), (284, 18575), (287, 18596), (288, 18599), (303, 18683), (304, 18686), (306, 18695), (309, 18722), (311, 18731), (318, 18770), (321, 18791), (323, 18794), (330, 18830), (334, 18851), (348, 18929), (349, 18932), (362, 18986), (370, 19046), (386, 19139), (388, 19157), (389, 19160), (396, 19196), (404, 19250), (407, 19259), (418, 19337), (421, 19355), (425, 19391), (426, 19394), (430, 19412), (431, 19415), (432, 19430), (435, 19451), (439, 19487), (441, 19499), (453, 19562), (458, 19595), (467, 19682), (476, 19730), (478, 19754), (482, 19781), (483, 19790), (486, 19829), (492, 19868), (495, 19892), (498, 19913), (508, 20009), (511, 20030), (520, 20093), (524, 20120), (526, 20129),

Gene: Oksu_19 Start: 17479, Stop: 20016, Start Num: 52

Candidate Starts for Oksu_19:

(Start: 52 @17479 has 221 MA's), (59, 17500), (Start: 69 @17521 has 1 MA's), (78, 17560), (104, 17629), (106, 17638), (107, 17641), (111, 17659), (124, 17707), (166, 17860), (169, 17869), (186, 17914), (200, 18013), (201, 18016), (210, 18082), (222, 18157), (223, 18163), (224, 18181), (232, 18205), (233, 18211), (234, 18214), (240, 18247), (242, 18253), (248, 18283), (254, 18304), (259, 18334), (261, 18343), (264, 18358), (265, 18361), (287, 18472), (288, 18475), (289, 18484), (290, 18490), (293, 18505), (294, 18508), (296, 18529), (306, 18571), (310, 18604), (339, 18745), (341, 18751), (348, 18805), (349, 18808), (352, 18835), (368, 18910), (370, 18922), (371, 18925), (381, 18991), (384, 19012), (386, 19015), (389, 19036), (397, 19087), (400, 19105), (401, 19108), (407, 19138), (409, 19162), (413, 19174), (430, 19279), (432, 19297), (434, 19306), (435, 19318), (439, 19354), (444, 19384), (448, 19405), (453, 19429), (458, 19465), (473, 19579), (479, 19621), (487, 19699), (495, 19756), (499, 19780), (505, 19834), (508, 19882), (514, 19924), (516, 19948), (517, 19951),

Gene: OldBen_18 Start: 17370, Stop: 19907, Start Num: 52

Candidate Starts for OldBen_18:

(49, 17358), (Start: 52 @17370 has 221 MA's), (59, 17391), (Start: 69 @17412 has 1 MA's), (78, 17451), (104, 17520), (106, 17529), (107, 17532), (111, 17550), (124, 17598), (137, 17646), (168, 17757), (169, 17760), (186, 17805), (197, 17883), (201, 17907), (210, 17973), (218, 18018), (222, 18048), (223, 18054), (224, 18072), (232, 18096), (234, 18105), (240, 18138), (242, 18144), (248, 18174), (258, 18213), (259, 18225), (261, 18234), (264, 18249), (265, 18252), (287, 18363), (288, 18366), (289, 18375), (290, 18381), (293, 18396), (294, 18399), (296, 18420), (303, 18450), (306, 18462), (310, 18495), (331, 18606), (332, 18609), (339, 18636), (341, 18642), (348, 18696), (349, 18699), (368, 18801), (370, 18813), (371, 18816), (381, 18882), (386, 18906), (389, 18927), (391, 18936), (400, 18996), (401, 18999), (408, 19035), (409, 19053), (414, 19074), (419, 19101), (430, 19170), (432, 19188), (434, 19197), (435, 19209), (439, 19245), (448, 19296), (451, 19314), (458, 19356), (464, 19410), (479, 19512), (495, 19647), (499, 19671), (505, 19725), (511, 19794), (516, 19839), (517, 19842),

Gene: OlympiaSaint_18 Start: 17593, Stop: 20145, Start Num: 52

Candidate Starts for OlympiaSaint_18:

(Start: 52 @17593 has 221 MA's), (79, 17674), (104, 17743), (106, 17752), (107, 17755), (111, 17773), (124, 17821), (136, 17866), (168, 17980), (169, 17983), (174, 17995), (180, 18016), (184, 18025), (186, 18028), (193, 18076), (197, 18106), (205, 18172), (211, 18205), (218, 18241), (221, 18265), (233, 18325), (234, 18328), (238, 18346), (252, 18409), (254, 18412), (258, 18430), (261, 18451), (265, 18469), (270, 18496), (274, 18517), (281, 18550), (289, 18592), (290, 18598), (291, 18601), (294, 18616), (297, 18643), (298, 18646), (303, 18667), (306, 18679), (310, 18712), (329, 18805), (348, 18913), (351, 18937), (352, 18943), (358, 18961), (359, 18964), (363, 18988), (368, 19018), (372, 19042), (378, 19078), (379, 19084), (380, 19093), (384, 19120), (394, 19183), (397, 19207),

(398, 19222), (407, 19264), (415, 19315), (431, 19411), (432, 19426), (434, 19435), (437, 19459), (447, 19522), (453, 19558), (493, 19864), (499, 19909), (508, 20011),

Gene: Omega_38 Start: 31431, Stop: 33986, Start Num: 52

Candidate Starts for Omega_38:

(Start: 52 @31431 has 221 MA's), (111, 31626), (119, 31662), (124, 31677), (137, 31725), (168, 31836), (169, 31839), (179, 31869), (186, 31884), (197, 31962), (201, 31986), (210, 32052), (218, 32097), (222, 32127), (223, 32133), (224, 32151), (232, 32175), (234, 32184), (240, 32217), (242, 32223), (248, 32253), (258, 32292), (259, 32304), (261, 32313), (264, 32328), (265, 32331), (287, 32442), (288, 32445), (289, 32454), (290, 32460), (293, 32475), (294, 32478), (296, 32499), (303, 32529), (306, 32541), (310, 32574), (323, 32640), (331, 32685), (332, 32688), (339, 32715), (341, 32721), (348, 32775), (349, 32778), (365, 32865), (368, 32880), (370, 32892), (371, 32895), (381, 32961), (389, 33006), (391, 33015), (400, 33075), (401, 33078), (408, 33114), (409, 33132), (413, 33144), (414, 33153), (419, 33180), (430, 33249), (432, 33267), (434, 33276), (435, 33288), (439, 33324), (444, 33354), (448, 33375), (453, 33399), (458, 33435), (464, 33489), (473, 33549), (479, 33591), (495, 33726), (499, 33750), (505, 33804), (508, 33852), (514, 33894), (516, 33918), (517, 33921),

Gene: Optimus_37 Start: 30775, Stop: 33330, Start Num: 52

Candidate Starts for Optimus_37:

(45, 30718), (Start: 52 @30775 has 221 MA's), (111, 30970), (119, 31006), (124, 31021), (137, 31069), (166, 31174), (169, 31183), (186, 31228), (200, 31327), (201, 31330), (210, 31396), (222, 31471), (223, 31477), (224, 31495), (232, 31519), (234, 31528), (240, 31561), (242, 31567), (248, 31597), (258, 31636), (259, 31648), (261, 31657), (287, 31786), (288, 31789), (289, 31798), (290, 31804), (293, 31819), (294, 31822), (296, 31843), (303, 31873), (306, 31885), (310, 31918), (331, 32029), (332, 32032), (339, 32059), (341, 32065), (348, 32119), (349, 32122), (368, 32224), (370, 32236), (371, 32239), (381, 32305), (386, 32329), (389, 32350), (397, 32401), (400, 32419), (401, 32422), (407, 32452), (409, 32476), (413, 32488), (414, 32497), (430, 32593), (432, 32611), (434, 32620), (435, 32632), (444, 32698), (447, 32707), (448, 32719), (458, 32779), (479, 32935), (495, 33070), (499, 33094), (505, 33148), (511, 33217), (516, 33262), (517, 33265),

Gene: OrionPax_27 Start: 22029, Stop: 24425, Start Num: 84

Candidate Starts for OrionPax_27:

(Start: 84 @22029 has 125 MA's), (133, 22206), (141, 22227), (190, 22374), (217, 22548), (222, 22581), (228, 22617), (248, 22710), (261, 22770), (265, 22788), (291, 22920), (298, 22965), (323, 23097), (331, 23142), (346, 23202), (364, 23316), (368, 23337), (374, 23376), (378, 23397), (380, 23412), (407, 23562), (408, 23568), (409, 23586), (420, 23640), (432, 23724), (447, 23817), (483, 24063), (508, 24279), (517, 24363), (524, 24396),

Gene: Ovechkin_18 Start: 17427, Stop: 19964, Start Num: 52

Candidate Starts for Ovechkin_18:

(Start: 52 @17427 has 221 MA's), (59, 17448), (Start: 69 @17469 has 1 MA's), (77, 17505), (78, 17508), (104, 17577), (106, 17586), (107, 17589), (111, 17607), (119, 17640), (124, 17655), (137, 17703), (168, 17814), (169, 17817), (179, 17847), (184, 17859), (186, 17862), (197, 17940), (201, 17964), (210, 18030), (218, 18075), (222, 18105), (223, 18111), (224, 18129), (232, 18153), (234, 18162), (240, 18195), (242, 18201), (248, 18231), (258, 18270), (259, 18282), (261, 18291), (264, 18306), (265, 18309), (287, 18420), (288, 18423), (289, 18432), (290, 18438), (293, 18453), (294, 18456), (296, 18477), (303, 18507), (306, 18519), (310, 18552), (331, 18663), (332, 18666), (339, 18693), (341, 18699), (348, 18753), (349, 18756), (368, 18858), (370, 18870), (371, 18873), (381, 18939), (386, 18963), (389, 18984), (391, 18993), (400, 19053), (401, 19056), (408, 19092), (409, 19110), (413, 19122), (414, 19131), (419, 19158), (430, 19227), (432, 19245), (434, 19254), (435, 19266), (439, 19302), (444, 19332), (448, 19353), (453, 19377), (458, 19413), (464, 19467), (473, 19527), (479, 19569), (487, 19647), (495, 19704), (499, 19728), (505, 19782), (508, 19830), (514,

19872), (516, 19896), (517, 19899),

Gene: OwlsT2W_20 Start: 17765, Stop: 20317, Start Num: 52

Candidate Starts for OwlsT2W_20:

(Start: 52 @17765 has 221 MA's), (86, 17855), (104, 17915), (106, 17924), (107, 17927), (111, 17945), (124, 17993), (136, 18038), (168, 18152), (169, 18155), (174, 18167), (180, 18188), (184, 18197), (186, 18200), (197, 18278), (205, 18344), (211, 18377), (218, 18413), (221, 18437), (233, 18497), (234, 18500), (238, 18518), (252, 18581), (254, 18584), (258, 18602), (261, 18623), (265, 18641), (270, 18668), (274, 18689), (281, 18722), (289, 18764), (290, 18770), (291, 18773), (294, 18788), (297, 18815), (298, 18818), (303, 18839), (306, 18851), (310, 18884), (329, 18977), (348, 19085), (351, 19109), (352, 19115), (358, 19133), (359, 19136), (363, 19160), (368, 19190), (372, 19214), (378, 19250), (379, 19256), (380, 19265), (384, 19292), (394, 19355), (397, 19379), (398, 19394), (407, 19436), (415, 19487), (431, 19583), (432, 19598), (434, 19607), (437, 19631), (447, 19694), (453, 19730), (493, 20036), (499, 20081), (508, 20183),

Gene: PBI1_30 Start: 24247, Stop: 26517, Start Num: 145

Candidate Starts for PBI1_30:

(Start: 145 @24247 has 21 MA's), (176, 24382), (178, 24391), (205, 24565), (206, 24571), (209, 24583), (236, 24736), (239, 24751), (241, 24766), (314, 25147), (316, 25153), (326, 25198), (343, 25285), (377, 25486), (378, 25492), (385, 25540), (391, 25570), (393, 25594), (422, 25783), (425, 25810), (434, 25858), (443, 25930), (450, 25969), (454, 25990), (455, 26005), (459, 26023), (461, 26053), (475, 26137), (503, 26338), (508, 26380), (527, 26506),

Gene: PHappiness_18 Start: 17378, Stop: 19915, Start Num: 52

Candidate Starts for PHappiness_18:

(49, 17366), (Start: 52 @17378 has 221 MA's), (59, 17399), (Start: 69 @17420 has 1 MA's), (78, 17459), (104, 17528), (106, 17537), (107, 17540), (111, 17558), (124, 17606), (137, 17654), (168, 17765), (169, 17768), (186, 17813), (197, 17891), (201, 17915), (210, 17981), (218, 18026), (222, 18056), (223, 18062), (224, 18080), (232, 18104), (234, 18113), (240, 18146), (242, 18152), (248, 18182), (258, 18221), (259, 18233), (261, 18242), (264, 18257), (265, 18260), (287, 18371), (288, 18374), (289, 18383), (290, 18389), (293, 18404), (294, 18407), (296, 18428), (303, 18458), (306, 18470), (310, 18503), (331, 18614), (332, 18617), (339, 18644), (341, 18650), (348, 18704), (349, 18707), (368, 18809), (370, 18821), (371, 18824), (381, 18890), (386, 18914), (389, 18935), (391, 18944), (400, 19004), (401, 19007), (408, 19043), (409, 19061), (414, 19082), (419, 19109), (430, 19178), (432, 19196), (434, 19205), (435, 19217), (439, 19253), (448, 19304), (451, 19322), (458, 19364), (464, 19418), (479, 19520), (495, 19655), (499, 19679), (505, 19733), (511, 19802), (516, 19847), (517, 19850),

Gene: PLOT_31 Start: 24319, Stop: 26589, Start Num: 145

Candidate Starts for PLOT_31:

(Start: 145 @24319 has 21 MA's), (176, 24454), (178, 24463), (205, 24637), (206, 24643), (209, 24655), (236, 24808), (239, 24823), (241, 24838), (314, 25219), (316, 25225), (326, 25270), (343, 25357), (377, 25558), (378, 25564), (385, 25612), (391, 25642), (393, 25666), (422, 25855), (425, 25882), (434, 25930), (443, 26002), (450, 26041), (454, 26062), (455, 26077), (459, 26095), (461, 26125), (475, 26209), (503, 26410), (508, 26452), (527, 26578),

Gene: PMC_18 Start: 17383, Stop: 19920, Start Num: 52

Candidate Starts for PMC_18:

(Start: 52 @17383 has 221 MA's), (86, 17473), (104, 17533), (106, 17542), (107, 17545), (111, 17563), (124, 17611), (137, 17659), (166, 17764), (168, 17770), (169, 17773), (184, 17815), (186, 17818), (201, 17920), (210, 17986), (218, 18031), (222, 18061), (223, 18067), (224, 18085), (232, 18109), (234, 18118), (240, 18151), (242, 18157), (254, 18208), (258, 18226), (259, 18238), (261, 18247), (264, 18262), (266, 18268), (287, 18376), (289, 18388), (290, 18394), (293, 18409), (294, 18412),

(296, 18433), (303, 18463), (306, 18475), (310, 18508), (323, 18574), (331, 18619), (332, 18622), (339, 18649), (341, 18655), (348, 18709), (349, 18712), (352, 18739), (368, 18814), (370, 18826), (371, 18829), (381, 18895), (384, 18916), (386, 18919), (391, 18949), (397, 18991), (400, 19009), (401, 19012), (407, 19042), (409, 19066), (413, 19078), (414, 19087), (430, 19183), (432, 19201), (434, 19210), (435, 19222), (444, 19288), (447, 19297), (448, 19309), (458, 19369), (479, 19525), (495, 19660), (499, 19684), (505, 19738), (511, 19807), (516, 19852), (517, 19855),

Gene: Pacc40_18 Start: 17568, Stop: 20105, Start Num: 52

Candidate Starts for Pacc40_18:

(49, 17556), (Start: 52 @17568 has 221 MA's), (59, 17589), (Start: 69 @17610 has 1 MA's), (78, 17649), (104, 17718), (106, 17727), (107, 17730), (111, 17748), (124, 17796), (137, 17844), (168, 17955), (169, 17958), (186, 18003), (197, 18081), (201, 18105), (210, 18171), (218, 18216), (222, 18246), (223, 18252), (224, 18270), (232, 18294), (234, 18303), (240, 18336), (242, 18342), (248, 18372), (258, 18411), (259, 18423), (261, 18432), (264, 18447), (265, 18450), (287, 18561), (288, 18564), (289, 18573), (290, 18579), (293, 18594), (294, 18597), (296, 18618), (303, 18648), (306, 18660), (310, 18693), (331, 18804), (332, 18807), (339, 18834), (341, 18840), (348, 18894), (349, 18897), (368, 18999), (370, 19011), (371, 19014), (381, 19080), (386, 19104), (389, 19125), (391, 19134), (400, 19194), (401, 19197), (408, 19233), (409, 19251), (414, 19272), (419, 19299), (430, 19368), (432, 19386), (434, 19395), (435, 19407), (439, 19443), (448, 19494), (451, 19512), (458, 19554), (464, 19608), (479, 19710), (495, 19845), (499, 19869), (505, 19923), (511, 19992), (516, 20037), (517, 20040),

Gene: Palpatine_26 Start: 22301, Stop: 24697, Start Num: 84

Candidate Starts for Palpatine_26:

(Start: 84 @22301 has 125 MA's), (133, 22478), (141, 22499), (190, 22646), (211, 22787), (217, 22820), (222, 22853), (228, 22889), (248, 22982), (261, 23042), (265, 23060), (291, 23192), (298, 23237), (323, 23369), (331, 23414), (346, 23474), (364, 23588), (368, 23609), (374, 23648), (378, 23669), (380, 23684), (407, 23834), (408, 23840), (409, 23858), (420, 23912), (432, 23996), (447, 24089), (483, 24335), (508, 24551), (517, 24635), (524, 24668),

Gene: Paperbeatsrock_28 Start: 23264, Stop: 25660, Start Num: 84

Candidate Starts for Paperbeatsrock_28:

(Start: 84 @23264 has 125 MA's), (133, 23441), (141, 23462), (190, 23609), (211, 23750), (217, 23783), (222, 23816), (228, 23852), (248, 23945), (261, 24005), (265, 24023), (291, 24155), (298, 24200), (323, 24332), (331, 24377), (346, 24437), (364, 24551), (368, 24572), (374, 24611), (378, 24632), (380, 24647), (407, 24797), (408, 24803), (409, 24821), (420, 24875), (432, 24959), (447, 25052), (483, 25298), (508, 25514), (517, 25598), (524, 25631),

Gene: Papyrus_30 Start: 24299, Stop: 27793, Start Num: 1

Candidate Starts for Papyrus_30:

(Start: 1 @24299 has 8 MA's), (4, 24311), (Start: 5 @24323 has 1 MA's), (8, 24506), (10, 24587), (14, 24686), (15, 24710), (16, 24728), (23, 24887), (25, 24920), (33, 24968), (38, 25007), (62, 25133), (68, 25142), (113, 25328), (156, 25529), (192, 25706), (205, 25805), (211, 25838), (221, 25883), (234, 25946), (247, 26015), (260, 26093), (261, 26099), (269, 26144), (270, 26147), (287, 26231), (334, 26486), (344, 26525), (366, 26672), (367, 26678), (396, 26852), (401, 26885), (404, 26906), (407, 26915), (410, 26942), (448, 27185), (466, 27329), (494, 27527), (498, 27557), (505, 27614), (507, 27650), (511, 27677), (512, 27689),

Gene: Pat3_25 Start: 21010, Stop: 23406, Start Num: 84

Candidate Starts for Pat3_25:

(Start: 84 @21010 has 125 MA's), (133, 21187), (141, 21208), (190, 21355), (211, 21496), (217, 21529), (222, 21562), (228, 21598), (248, 21691), (261, 21751), (265, 21769), (291, 21901), (298, 21946), (323, 22078), (331, 22123), (364, 22297), (368, 22318), (374, 22357), (378, 22378), (380,

22393), (408, 22549), (409, 22567), (420, 22621), (432, 22705), (481, 23029), (508, 23260), (517, 23344), (524, 23377),

Gene: Penelope2018_30 Start: 24316, Stop: 26586, Start Num: 145

Candidate Starts for Penelope2018_30:

(Start: 145 @24316 has 21 MA's), (176, 24451), (178, 24460), (205, 24634), (206, 24640), (209, 24652), (236, 24805), (239, 24820), (241, 24835), (314, 25216), (316, 25222), (326, 25267), (343, 25354), (378, 25561), (385, 25609), (391, 25639), (393, 25663), (422, 25852), (425, 25879), (434, 25927), (443, 25999), (450, 26038), (454, 26059), (455, 26074), (459, 26092), (461, 26122), (475, 26206), (503, 26407), (508, 26449), (527, 26575),

Gene: Petra64142_28 Start: 22744, Stop: 25140, Start Num: 84

Candidate Starts for Petra64142_28:

(Start: 84 @22744 has 125 MA's), (133, 22921), (141, 22942), (190, 23089), (211, 23230), (217, 23263), (222, 23296), (228, 23332), (248, 23425), (261, 23485), (265, 23503), (291, 23635), (298, 23680), (323, 23812), (331, 23857), (346, 23917), (364, 24031), (368, 24052), (374, 24091), (378, 24112), (380, 24127), (407, 24277), (408, 24283), (409, 24301), (420, 24355), (432, 24439), (447, 24532), (483, 24778), (508, 24994), (517, 25078), (524, 25111),

Gene: Phaja_26 Start: 22460, Stop: 24856, Start Num: 84

Candidate Starts for Phaja_26:

(Start: 84 @22460 has 125 MA's), (133, 22637), (141, 22658), (190, 22805), (211, 22946), (217, 22979), (222, 23012), (228, 23048), (248, 23141), (261, 23201), (265, 23219), (295, 23375), (298, 23396), (320, 23516), (323, 23528), (331, 23573), (368, 23768), (369, 23774), (371, 23783), (378, 23828), (380, 23843), (408, 23999), (409, 24017), (412, 24026), (421, 24080), (432, 24155), (433, 24158), (463, 24368), (465, 24380), (483, 24494), (508, 24710), (517, 24794), (522, 24818), (524, 24827),

Gene: Phalaborwa_30 Start: 24343, Stop: 26613, Start Num: 145

Candidate Starts for Phalaborwa_30:

(Start: 145 @24343 has 21 MA's), (176, 24478), (178, 24487), (205, 24661), (209, 24679), (211, 24694), (236, 24832), (241, 24862), (255, 24928), (256, 24931), (297, 25147), (314, 25243), (316, 25249), (326, 25294), (343, 25381), (360, 25477), (364, 25507), (374, 25567), (377, 25582), (378, 25588), (385, 25636), (393, 25690), (397, 25720), (422, 25879), (425, 25906), (429, 25915), (434, 25954), (443, 26026), (454, 26086), (455, 26101), (459, 26119), (461, 26149), (470, 26203), (475, 26233), (503, 26434), (527, 26602),

Gene: Phalconet_18 Start: 17448, Stop: 19979, Start Num: 52

Candidate Starts for Phalconet_18:

(49, 17436), (Start: 52 @17448 has 221 MA's), (59, 17469), (Start: 69 @17490 has 1 MA's), (78, 17529), (104, 17598), (106, 17607), (107, 17610), (119, 17661), (124, 17676), (137, 17718), (168, 17829), (169, 17832), (179, 17862), (186, 17877), (197, 17955), (210, 18045), (218, 18090), (222, 18120), (223, 18126), (224, 18144), (232, 18168), (234, 18177), (240, 18210), (242, 18216), (248, 18246), (258, 18285), (259, 18297), (261, 18306), (264, 18321), (265, 18324), (287, 18435), (288, 18438), (289, 18447), (290, 18453), (293, 18468), (294, 18471), (296, 18492), (303, 18522), (306, 18534), (310, 18567), (323, 18633), (331, 18678), (332, 18681), (339, 18708), (341, 18714), (348, 18768), (349, 18771), (365, 18858), (368, 18873), (370, 18885), (371, 18888), (381, 18954), (389, 18999), (391, 19008), (400, 19068), (401, 19071), (408, 19107), (409, 19125), (413, 19137), (414, 19146), (419, 19173), (430, 19242), (432, 19260), (434, 19269), (435, 19281), (439, 19317), (444, 19347), (448, 19368), (453, 19392), (458, 19428), (464, 19482), (473, 19542), (479, 19584), (487, 19662), (495, 19719), (499, 19743), (505, 19797), (508, 19845), (514, 19887), (516, 19911), (517, 19914),

Gene: Phanphagia_18 Start: 17450, Stop: 19927, Start Num: 52

Candidate Starts for Phanphagia_18:

(50, 17438), (Start: 52 @17450 has 221 MA's), (59, 17471), (Start: 69 @17492 has 1 MA's), (81, 17531), (104, 17600), (106, 17609), (107, 17612), (111, 17630), (119, 17663), (124, 17678), (153, 17765), (161, 17780), (169, 17816), (172, 17822), (184, 17855), (188, 17867), (215, 18038), (218, 18047), (222, 18071), (233, 18125), (240, 18161), (242, 18167), (248, 18197), (256, 18227), (259, 18248), (261, 18257), (278, 18341), (290, 18404), (294, 18422), (295, 18431), (298, 18452), (299, 18455), (303, 18473), (306, 18485), (309, 18512), (311, 18521), (320, 18572), (321, 18581), (323, 18584), (329, 18611), (330, 18620), (334, 18641), (348, 18719), (349, 18722), (369, 18830), (370, 18836), (378, 18884), (384, 18926), (386, 18929), (389, 18950), (390, 18956), (391, 18959), (396, 18989), (418, 19130), (421, 19148), (424, 19181), (430, 19205), (431, 19208), (432, 19223), (435, 19244), (439, 19280), (440, 19286), (445, 19313), (449, 19340), (467, 19475), (476, 19523), (478, 19547), (480, 19553), (483, 19571), (495, 19670), (498, 19691), (500, 19709), (508, 19787), (511, 19808), (520, 19871), (522, 19889), (526, 19907),

Gene: Pharsalus_27 Start: 23064, Stop: 25460, Start Num: 84

Candidate Starts for Pharsalus_27:

(Start: 84 @23064 has 125 MA's), (133, 23241), (141, 23262), (190, 23409), (211, 23550), (217, 23583), (222, 23616), (228, 23652), (248, 23745), (261, 23805), (265, 23823), (291, 23955), (298, 24000), (323, 24132), (331, 24177), (346, 24237), (364, 24351), (368, 24372), (374, 24411), (378, 24432), (380, 24447), (407, 24597), (408, 24603), (409, 24621), (420, 24675), (432, 24759), (447, 24852), (483, 25098), (508, 25314), (517, 25398), (524, 25431),

Gene: Phasih_19 Start: 17939, Stop: 20476, Start Num: 52

Candidate Starts for Phasih_19:

(Start: 52 @17939 has 221 MA's), (59, 17960), (Start: 69 @17981 has 1 MA's), (78, 18020), (104, 18089), (106, 18098), (107, 18101), (111, 18119), (119, 18152), (124, 18167), (166, 18320), (169, 18329), (186, 18374), (200, 18473), (201, 18476), (210, 18542), (222, 18617), (223, 18623), (232, 18665), (233, 18671), (234, 18674), (240, 18707), (242, 18713), (248, 18743), (254, 18764), (259, 18794), (261, 18803), (264, 18818), (265, 18821), (287, 18932), (288, 18935), (289, 18944), (290, 18950), (293, 18965), (294, 18968), (296, 18989), (303, 19019), (306, 19031), (310, 19064), (331, 19175), (332, 19178), (339, 19205), (341, 19211), (348, 19265), (349, 19268), (365, 19355), (368, 19370), (370, 19382), (371, 19385), (381, 19451), (386, 19475), (389, 19496), (391, 19505), (397, 19547), (400, 19565), (401, 19568), (407, 19598), (409, 19622), (413, 19634), (414, 19643), (430, 19739), (432, 19757), (434, 19766), (435, 19778), (439, 19814), (444, 19844), (447, 19853), (448, 19865), (458, 19925), (464, 19979), (473, 20039), (479, 20081), (495, 20216), (499, 20240), (505, 20294), (508, 20342), (514, 20384), (516, 20408), (517, 20411),

Gene: PhatBacter_26 Start: 22312, Stop: 24708, Start Num: 84

Candidate Starts for PhatBacter_26:

(Start: 84 @22312 has 125 MA's), (133, 22489), (141, 22510), (190, 22657), (211, 22798), (217, 22831), (222, 22864), (228, 22900), (248, 22993), (261, 23053), (265, 23071), (291, 23203), (298, 23248), (323, 23380), (331, 23425), (346, 23485), (364, 23599), (368, 23620), (374, 23659), (378, 23680), (380, 23695), (407, 23845), (408, 23851), (409, 23869), (420, 23923), (432, 24007), (447, 24100), (483, 24346), (508, 24562), (517, 24646), (524, 24679),

Gene: Phatniss_19 Start: 17901, Stop: 20438, Start Num: 52

Candidate Starts for Phatniss_19:

(49, 17889), (Start: 52 @17901 has 221 MA's), (59, 17922), (Start: 69 @17943 has 1 MA's), (78, 17982), (104, 18051), (106, 18060), (107, 18063), (111, 18081), (119, 18114), (124, 18129), (137, 18177), (166, 18282), (169, 18291), (184, 18333), (186, 18336), (197, 18414), (201, 18438), (210, 18504), (218, 18549), (222, 18579), (223, 18585), (224, 18603), (232, 18627), (234, 18636), (240, 18669), (242, 18675), (248, 18705), (258, 18744), (259, 18756), (261, 18765), (264, 18780), (265,

18783), (287, 18894), (289, 18906), (290, 18912), (293, 18927), (294, 18930), (296, 18951), (303, 18981), (306, 18993), (310, 19026), (323, 19092), (331, 19137), (332, 19140), (339, 19167), (341, 19173), (348, 19227), (349, 19230), (352, 19257), (368, 19332), (370, 19344), (371, 19347), (381, 19413), (386, 19437), (391, 19467), (397, 19509), (400, 19527), (401, 19530), (408, 19566), (409, 19584), (414, 19605), (419, 19632), (430, 19701), (432, 19719), (434, 19728), (435, 19740), (439, 19776), (444, 19806), (447, 19815), (448, 19827), (458, 19887), (464, 19941), (473, 20001), (479, 20043), (487, 20121), (495, 20178), (499, 20202), (505, 20256), (508, 20304), (514, 20346), (516, 20370), (517, 20373),

Gene: Phaux_25 Start: 22310, Stop: 24706, Start Num: 84

Candidate Starts for Phaux_25:

(Start: 84 @22310 has 125 MA's), (133, 22487), (141, 22508), (190, 22655), (211, 22796), (217, 22829), (222, 22862), (228, 22898), (248, 22991), (261, 23051), (265, 23069), (291, 23201), (298, 23246), (323, 23378), (331, 23423), (346, 23483), (364, 23597), (368, 23618), (374, 23657), (378, 23678), (380, 23693), (407, 23843), (408, 23849), (409, 23867), (420, 23921), (432, 24005), (447, 24098), (483, 24344), (508, 24560), (517, 24644), (524, 24677),

Gene: PhesterPhotato_18 Start: 17419, Stop: 19956, Start Num: 52

Candidate Starts for PhesterPhotato_18:

(49, 17407), (Start: 52 @17419 has 221 MA's), (59, 17440), (Start: 69 @17461 has 1 MA's), (78, 17500), (104, 17569), (106, 17578), (107, 17581), (111, 17599), (119, 17632), (124, 17647), (137, 17695), (168, 17806), (169, 17809), (179, 17839), (186, 17854), (197, 17932), (201, 17956), (210, 18022), (218, 18067), (222, 18097), (223, 18103), (224, 18121), (232, 18145), (234, 18154), (240, 18187), (242, 18193), (248, 18223), (258, 18262), (259, 18274), (261, 18283), (264, 18298), (265, 18301), (287, 18412), (288, 18415), (289, 18424), (290, 18430), (293, 18445), (294, 18448), (296, 18469), (303, 18499), (306, 18511), (310, 18544), (331, 18655), (332, 18658), (339, 18685), (341, 18691), (348, 18745), (349, 18748), (368, 18850), (370, 18862), (371, 18865), (381, 18931), (386, 18955), (389, 18976), (391, 18985), (400, 19045), (401, 19048), (408, 19084), (409, 19102), (413, 19114), (414, 19123), (419, 19150), (430, 19219), (432, 19237), (434, 19246), (435, 19258), (439, 19294), (444, 19324), (448, 19345), (453, 19369), (458, 19405), (464, 19459), (473, 19519), (479, 19561), (487, 19639), (495, 19696), (499, 19720), (500, 19735), (505, 19774), (508, 19822), (514, 19864), (516, 19888), (517, 19891),

Gene: Philus_18 Start: 17405, Stop: 19942, Start Num: 52

Candidate Starts for Philus_18:

(Start: 52 @17405 has 221 MA's), (59, 17426), (Start: 69 @17447 has 1 MA's), (78, 17486), (104, 17555), (106, 17564), (107, 17567), (111, 17585), (124, 17633), (166, 17786), (169, 17795), (186, 17840), (197, 17918), (201, 17942), (210, 18008), (218, 18053), (222, 18083), (223, 18089), (224, 18107), (232, 18131), (234, 18140), (240, 18173), (242, 18179), (248, 18209), (258, 18248), (261, 18269), (264, 18284), (265, 18287), (288, 18401), (289, 18410), (290, 18416), (294, 18434), (296, 18455), (303, 18485), (306, 18497), (310, 18530), (331, 18641), (332, 18644), (339, 18671), (341, 18677), (348, 18731), (349, 18734), (365, 18821), (368, 18836), (371, 18851), (386, 18941), (389, 18962), (391, 18971), (400, 19031), (401, 19034), (408, 19070), (409, 19088), (413, 19100), (414, 19109), (419, 19136), (430, 19205), (432, 19223), (434, 19232), (435, 19244), (439, 19280), (444, 19310), (448, 19331), (453, 19355), (458, 19391), (464, 19445), (479, 19547), (487, 19625), (495, 19682), (499, 19706), (505, 19760), (508, 19808), (514, 19850), (519, 19883), (520, 19886),

Gene: PhlipPhlop_18 Start: 17352, Stop: 19889, Start Num: 52

Candidate Starts for PhlipPhlop_18:

(Start: 52 @17352 has 221 MA's), (59, 17373), (Start: 69 @17394 has 1 MA's), (78, 17433), (104, 17502), (106, 17511), (107, 17514), (111, 17532), (124, 17580), (166, 17733), (169, 17742), (186, 17787), (200, 17886), (201, 17889), (210, 17955), (222, 18030), (223, 18036), (224, 18054), (232, 18078), (233, 18084), (234, 18087), (240, 18120), (242, 18126), (248, 18156), (254, 18177), (259,

18207), (261, 18216), (264, 18231), (265, 18234), (287, 18345), (288, 18348), (289, 18357), (290, 18363), (293, 18378), (294, 18381), (296, 18402), (303, 18432), (306, 18444), (310, 18477), (331, 18588), (332, 18591), (339, 18618), (341, 18624), (348, 18678), (349, 18681), (368, 18783), (370, 18795), (371, 18798), (381, 18864), (386, 18888), (389, 18909), (391, 18918), (400, 18978), (401, 18981), (408, 19017), (409, 19035), (413, 19047), (414, 19056), (419, 19083), (429, 19140), (430, 19152), (432, 19170), (434, 19179), (435, 19191), (439, 19227), (444, 19257), (447, 19266), (448, 19278), (458, 19338), (464, 19392), (473, 19452), (479, 19494), (495, 19629), (499, 19653), (505, 19707), (508, 19755), (514, 19797), (516, 19821), (517, 19824),

Gene: Phreeze_29 Start: 25682, Stop: 28525, Start Num: 22

Candidate Starts for Phreeze_29:

(Start: 22 @25682 has 8 MA's), (38, 25814), (40, 25826), (43, 25835), (Start: 54 @25904 has 3 MA's), (73, 25970), (83, 25991), (93, 26039), (106, 26081), (113, 26105), (118, 26138), (127, 26174), (131, 26186), (157, 26279), (169, 26336), (181, 26375), (211, 26570), (216, 26600), (223, 26642), (254, 26783), (258, 26801), (271, 26882), (281, 26921), (286, 26942), (310, 27080), (317, 27119), (330, 27182), (349, 27284), (388, 27509), (445, 27872), (449, 27899), (489, 28142), (493, 28175), (496, 28199), (508, 28319), (518, 28397), (529, 28484), (530, 28499), (531, 28505),

Gene: Phrux_26 Start: 22025, Stop: 24421, Start Num: 84

Candidate Starts for Phrux_26:

(Start: 84 @22025 has 125 MA's), (133, 22202), (141, 22223), (190, 22370), (217, 22544), (222, 22577), (228, 22613), (248, 22706), (261, 22766), (265, 22784), (291, 22916), (298, 22961), (323, 23093), (331, 23138), (346, 23198), (364, 23312), (368, 23333), (374, 23372), (378, 23393), (380, 23408), (407, 23558), (408, 23564), (409, 23582), (420, 23636), (432, 23720), (447, 23813), (483, 24059), (508, 24275), (517, 24359), (524, 24392),

Gene: Piper2020_19 Start: 17270, Stop: 19795, Start Num: 52

Candidate Starts for Piper2020_19:

(Start: 52 @17270 has 221 MA's), (59, 17291), (Start: 69 @17312 has 1 MA's), (78, 17351), (104, 17420), (106, 17429), (107, 17432), (111, 17450), (119, 17483), (124, 17498), (137, 17546), (168, 17657), (169, 17660), (186, 17705), (197, 17783), (201, 17807), (210, 17873), (211, 17882), (222, 17948), (223, 17954), (224, 17972), (232, 17996), (233, 18002), (234, 18005), (240, 18038), (242, 18044), (248, 18074), (254, 18095), (261, 18134), (264, 18149), (266, 18155), (294, 18299), (303, 18350), (322, 18461), (332, 18512), (338, 18536), (352, 18629), (363, 18674), (364, 18683), (368, 18704), (370, 18716), (371, 18719), (378, 18764), (386, 18809), (388, 18827), (389, 18830), (397, 18881), (407, 18932), (408, 18938), (409, 18956), (413, 18968), (414, 18977), (420, 19010), (432, 19091), (441, 19160), (447, 19187), (450, 19214), (459, 19265), (464, 19313), (498, 19556), (508, 19661), (511, 19682), (519, 19736), (523, 19760),

Gene: Plumbus_19 Start: 17226, Stop: 19763, Start Num: 52

Candidate Starts for Plumbus_19:

(49, 17214), (Start: 52 @17226 has 221 MA's), (59, 17247), (Start: 69 @17268 has 1 MA's), (78, 17307), (104, 17376), (106, 17385), (107, 17388), (111, 17406), (119, 17439), (124, 17454), (137, 17502), (168, 17613), (169, 17616), (179, 17646), (184, 17658), (186, 17661), (197, 17739), (201, 17763), (210, 17829), (218, 17874), (222, 17904), (223, 17910), (224, 17928), (232, 17952), (234, 17961), (240, 17994), (242, 18000), (248, 18030), (258, 18069), (259, 18081), (261, 18090), (264, 18105), (265, 18108), (287, 18219), (288, 18222), (289, 18231), (290, 18237), (293, 18252), (294, 18255), (296, 18276), (303, 18306), (306, 18318), (310, 18351), (323, 18417), (331, 18462), (332, 18465), (339, 18492), (341, 18498), (348, 18552), (349, 18555), (365, 18642), (368, 18657), (370, 18669), (371, 18672), (381, 18738), (386, 18762), (389, 18783), (391, 18792), (400, 18852), (401, 18855), (408, 18891), (409, 18909), (413, 18921), (414, 18930), (419, 18957), (430, 19026), (432, 19044), (434, 19053), (435, 19065), (439, 19101), (444, 19131), (448, 19152), (453, 19176), (458, 19212), (464, 19266), (473, 19326), (479, 19368), (487, 19446), (495, 19503), (499, 19527), (505,

19581), (508, 19629), (514, 19671), (516, 19695), (517, 19698),

Gene: Poenanya_18 Start: 17534, Stop: 20071, Start Num: 52

Candidate Starts for Poenanya_18:

(Start: 52 @17534 has 221 MA's), (59, 17555), (Start: 69 @17576 has 1 MA's), (78, 17615), (104, 17684), (106, 17693), (107, 17696), (111, 17714), (124, 17762), (168, 17921), (169, 17924), (186, 17969), (197, 18047), (201, 18071), (210, 18137), (222, 18212), (223, 18218), (224, 18236), (232, 18260), (233, 18266), (234, 18269), (240, 18302), (242, 18308), (248, 18338), (254, 18359), (259, 18389), (261, 18398), (284, 18506), (286, 18518), (287, 18527), (288, 18530), (290, 18545), (293, 18560), (294, 18563), (296, 18584), (306, 18626), (310, 18659), (331, 18770), (332, 18773), (339, 18800), (341, 18806), (348, 18860), (349, 18863), (352, 18890), (368, 18965), (370, 18977), (371, 18980), (381, 19046), (384, 19067), (386, 19070), (389, 19091), (391, 19100), (400, 19160), (401, 19163), (408, 19199), (409, 19217), (413, 19229), (414, 19238), (419, 19265), (429, 19322), (430, 19334), (432, 19352), (434, 19361), (435, 19373), (439, 19409), (444, 19439), (447, 19448), (448, 19460), (458, 19520), (464, 19574), (473, 19634), (479, 19676), (495, 19811), (499, 19835), (505, 19889), (508, 19937), (514, 19979), (516, 20003), (517, 20006),

Gene: Policronamos_26 Start: 22312, Stop: 24708, Start Num: 84

Candidate Starts for Policronamos_26:

(Start: 84 @22312 has 125 MA's), (133, 22489), (141, 22510), (190, 22657), (211, 22798), (217, 22831), (222, 22864), (228, 22900), (248, 22993), (261, 23053), (265, 23071), (281, 23152), (323, 23380), (331, 23425), (368, 23620), (369, 23626), (371, 23635), (378, 23680), (380, 23695), (408, 23851), (409, 23869), (412, 23878), (421, 23932), (432, 24007), (463, 24220), (465, 24232), (483, 24346), (508, 24562), (517, 24646), (522, 24670), (524, 24679),

Gene: Polka14_19 Start: 17940, Stop: 20477, Start Num: 52

Candidate Starts for Polka14_19:

(49, 17928), (Start: 52 @17940 has 221 MA's), (59, 17961), (Start: 69 @17982 has 1 MA's), (78, 18021), (104, 18090), (106, 18099), (107, 18102), (111, 18120), (124, 18168), (137, 18216), (168, 18327), (169, 18330), (186, 18375), (197, 18453), (201, 18477), (210, 18543), (218, 18588), (222, 18618), (223, 18624), (224, 18642), (232, 18666), (234, 18675), (240, 18708), (242, 18714), (248, 18744), (258, 18783), (259, 18795), (261, 18804), (264, 18819), (265, 18822), (287, 18933), (288, 18936), (289, 18945), (290, 18951), (293, 18966), (294, 18969), (296, 18990), (303, 19020), (306, 19032), (310, 19065), (331, 19176), (332, 19179), (339, 19206), (341, 19212), (348, 19266), (349, 19269), (368, 19371), (370, 19383), (371, 19386), (381, 19452), (386, 19476), (389, 19497), (391, 19506), (400, 19566), (401, 19569), (408, 19605), (409, 19623), (414, 19644), (419, 19671), (430, 19740), (432, 19758), (434, 19767), (435, 19779), (439, 19815), (448, 19866), (451, 19884), (458, 19926), (464, 19980), (479, 20082), (495, 20217), (499, 20241), (505, 20295), (511, 20364), (516, 20409), (517, 20412),

Gene: Pollywog_21 Start: 18605, Stop: 21094, Start Num: 52

Candidate Starts for Pollywog_21:

(Start: 52 @18605 has 221 MA's), (59, 18626), (Start: 69 @18647 has 1 MA's), (81, 18686), (104, 18755), (106, 18764), (107, 18767), (111, 18785), (124, 18833), (138, 18881), (161, 18935), (169, 18971), (172, 18977), (173, 18980), (179, 18998), (188, 19022), (192, 19046), (203, 19109), (215, 19193), (218, 19202), (222, 19226), (224, 19250), (232, 19274), (233, 19280), (238, 19301), (242, 19322), (248, 19352), (256, 19382), (259, 19403), (278, 19496), (281, 19511), (284, 19520), (287, 19541), (288, 19544), (303, 19628), (304, 19631), (306, 19640), (309, 19667), (311, 19676), (318, 19715), (321, 19736), (323, 19739), (330, 19775), (334, 19796), (348, 19874), (349, 19877), (362, 19931), (370, 19991), (386, 20084), (388, 20102), (389, 20105), (396, 20141), (404, 20195), (407, 20204), (418, 20282), (421, 20300), (425, 20336), (426, 20339), (430, 20357), (431, 20360), (432, 20375), (435, 20396), (439, 20432), (441, 20444), (453, 20507), (458, 20540), (467, 20627), (476, 20675), (478, 20699), (482, 20726), (483, 20735), (486, 20774), (492, 20813), (495, 20837), (498,

20858), (508, 20954), (511, 20975), (520, 21038), (524, 21065), (526, 21074),

Gene: Polo2Bam_20 Start: 17446, Stop: 19983, Start Num: 52

Candidate Starts for Polo2Bam_20:

(Start: 52 @17446 has 221 MA's), (59, 17467), (Start: 69 @17488 has 1 MA's), (77, 17524), (78, 17527), (104, 17596), (106, 17605), (107, 17608), (111, 17626), (119, 17659), (124, 17674), (137, 17722), (166, 17827), (168, 17833), (169, 17836), (184, 17878), (186, 17881), (201, 17983), (210, 18049), (218, 18094), (222, 18124), (223, 18130), (224, 18148), (232, 18172), (234, 18181), (240, 18214), (242, 18220), (254, 18271), (258, 18289), (259, 18301), (261, 18310), (264, 18325), (266, 18331), (287, 18439), (289, 18451), (290, 18457), (293, 18472), (294, 18475), (296, 18496), (303, 18526), (306, 18538), (310, 18571), (323, 18637), (331, 18682), (332, 18685), (339, 18712), (341, 18718), (348, 18772), (349, 18775), (365, 18862), (368, 18877), (370, 18889), (371, 18892), (381, 18958), (389, 19003), (391, 19012), (400, 19072), (401, 19075), (408, 19111), (409, 19129), (413, 19141), (414, 19150), (419, 19177), (430, 19246), (432, 19264), (434, 19273), (435, 19285), (439, 19321), (444, 19351), (448, 19372), (453, 19396), (458, 19432), (464, 19486), (473, 19546), (479, 19588), (487, 19666), (495, 19723), (499, 19747), (505, 19801), (508, 19849), (514, 19891), (516, 19915), (517, 19918),

Gene: PopTart_18 Start: 17445, Stop: 19982, Start Num: 52

Candidate Starts for PopTart_18:

(49, 17433), (Start: 52 @17445 has 221 MA's), (59, 17466), (Start: 69 @17487 has 1 MA's), (78, 17526), (104, 17595), (106, 17604), (107, 17607), (111, 17625), (119, 17658), (124, 17673), (168, 17832), (169, 17835), (186, 17880), (197, 17958), (201, 17982), (210, 18048), (222, 18123), (223, 18129), (224, 18147), (232, 18171), (233, 18177), (234, 18180), (240, 18213), (242, 18219), (248, 18249), (254, 18270), (259, 18300), (261, 18309), (277, 18390), (289, 18450), (290, 18456), (293, 18471), (294, 18474), (296, 18495), (306, 18537), (310, 18570), (311, 18573), (339, 18711), (341, 18717), (348, 18771), (349, 18774), (352, 18801), (368, 18876), (370, 18888), (371, 18891), (381, 18957), (386, 18981), (389, 19002), (391, 19011), (400, 19071), (401, 19074), (408, 19110), (409, 19128), (414, 19149), (430, 19245), (432, 19263), (434, 19272), (435, 19284), (439, 19320), (444, 19350), (458, 19431), (464, 19485), (479, 19587), (495, 19722), (499, 19746), (505, 19800), (508, 19848), (514, 19890), (516, 19914), (517, 19917),

Gene: Porcelain_35 Start: 27554, Stop: 30061, Start Num: 52

Candidate Starts for Porcelain_35:

(Start: 52 @27554 has 221 MA's), (111, 27749), (119, 27785), (124, 27800), (153, 27887), (161, 27902), (184, 27977), (188, 27989), (193, 28016), (207, 28121), (215, 28160), (218, 28169), (222, 28193), (223, 28199), (224, 28217), (230, 28235), (234, 28250), (237, 28259), (238, 28268), (240, 28283), (247, 28310), (248, 28319), (258, 28358), (259, 28370), (261, 28379), (278, 28463), (294, 28544), (298, 28574), (299, 28577), (306, 28607), (309, 28634), (311, 28643), (320, 28694), (321, 28703), (323, 28706), (330, 28742), (334, 28763), (343, 28799), (369, 28952), (378, 29006), (386, 29051), (388, 29069), (389, 29072), (396, 29111), (418, 29258), (420, 29267), (431, 29336), (432, 29351), (458, 29516), (467, 29603), (476, 29651), (483, 29702), (492, 29780), (518, 30002), (520, 30005), (524, 30032),

Gene: Porky_26 Start: 22121, Stop: 24517, Start Num: 84

Candidate Starts for Porky_26:

(Start: 84 @22121 has 125 MA's), (133, 22298), (141, 22319), (190, 22466), (211, 22607), (217, 22640), (222, 22673), (228, 22709), (248, 22802), (261, 22862), (265, 22880), (291, 23012), (298, 23057), (323, 23189), (331, 23234), (346, 23294), (364, 23408), (368, 23429), (374, 23468), (378, 23489), (380, 23504), (407, 23654), (408, 23660), (409, 23678), (420, 23732), (432, 23816), (447, 23909), (483, 24155), (508, 24371), (517, 24455), (524, 24488),

Gene: Prager_30 Start: 24328, Stop: 26598, Start Num: 145

Candidate Starts for Prager_30:

(Start: 145 @24328 has 21 MA's), (176, 24463), (178, 24472), (205, 24646), (206, 24652), (209, 24664), (236, 24817), (239, 24832), (241, 24847), (314, 25228), (316, 25234), (326, 25279), (343, 25366), (377, 25567), (378, 25573), (385, 25621), (391, 25651), (393, 25675), (422, 25864), (425, 25891), (434, 25939), (443, 26011), (450, 26050), (454, 26071), (455, 26086), (459, 26104), (461, 26134), (475, 26218), (503, 26419), (508, 26461), (527, 26587),

Gene: Priscilla_18 Start: 17407, Stop: 19959, Start Num: 52

Candidate Starts for Priscilla_18:

(Start: 52 @17407 has 221 MA's), (79, 17488), (104, 17557), (106, 17566), (107, 17569), (111, 17587), (124, 17635), (136, 17680), (168, 17794), (169, 17797), (174, 17809), (180, 17830), (184, 17839), (186, 17842), (193, 17890), (197, 17920), (205, 17986), (211, 18019), (218, 18055), (221, 18079), (233, 18139), (234, 18142), (238, 18160), (252, 18223), (254, 18226), (258, 18244), (261, 18265), (265, 18283), (270, 18310), (274, 18331), (281, 18364), (289, 18406), (290, 18412), (291, 18415), (294, 18430), (297, 18457), (298, 18460), (303, 18481), (306, 18493), (310, 18526), (329, 18619), (348, 18727), (351, 18751), (352, 18757), (358, 18775), (359, 18778), (363, 18802), (368, 18832), (372, 18856), (378, 18892), (379, 18898), (380, 18907), (384, 18934), (394, 18997), (397, 19021), (398, 19036), (407, 19078), (415, 19129), (431, 19225), (432, 19240), (434, 19249), (437, 19273), (447, 19336), (453, 19372), (493, 19678), (499, 19723), (508, 19825),

Gene: Puissant_28 Start: 26145, Stop: 28988, Start Num: 22

Candidate Starts for Puissant_28:

(Start: 22 @26145 has 8 MA's), (35, 26247), (38, 26277), (40, 26289), (43, 26298), (Start: 57 @26373 has 2 MA's), (71, 26427), (73, 26433), (83, 26454), (88, 26475), (93, 26502), (147, 26715), (152, 26727), (171, 26808), (173, 26817), (193, 26904), (194, 26910), (203, 26964), (221, 27093), (223, 27105), (248, 27225), (254, 27246), (281, 27384), (306, 27510), (349, 27747), (363, 27819), (370, 27861), (372, 27873), (388, 27972), (403, 28068), (439, 28308), (458, 28416), (489, 28608), (493, 28641), (496, 28665), (498, 28683), (508, 28785), (518, 28863), (528, 28920), (529, 28950), (530, 28965),

Gene: Pumpkin_28 Start: 22364, Stop: 24760, Start Num: 84

Candidate Starts for Pumpkin_28:

(Start: 84 @22364 has 125 MA's), (133, 22541), (141, 22562), (190, 22709), (217, 22883), (222, 22916), (228, 22952), (248, 23045), (261, 23105), (265, 23123), (291, 23255), (298, 23300), (323, 23432), (331, 23477), (346, 23537), (364, 23651), (368, 23672), (374, 23711), (378, 23732), (380, 23747), (407, 23897), (408, 23903), (409, 23921), (420, 23975), (432, 24059), (447, 24152), (483, 24398), (508, 24614), (517, 24698), (524, 24731),

Gene: Pygmy_20 Start: 18761, Stop: 21265, Start Num: 60

Candidate Starts for Pygmy_20:

(Start: 60 @18761 has 3 MA's), (62, 18770), (107, 18914), (200, 19319), (204, 19334), (205, 19364), (206, 19370), (210, 19388), (232, 19496), (242, 19547), (265, 19658), (266, 19661), (271, 19700), (281, 19733), (294, 19799), (306, 19859), (309, 19886), (310, 19892), (368, 20198), (378, 20258), (383, 20306), (384, 20309), (388, 20330), (389, 20333), (432, 20594), (451, 20717), (452, 20720), (464, 20810), (472, 20867), (477, 20888), (490, 20948), (512, 21149), (515, 21191),

Gene: Quallification_27 Start: 22490, Stop: 24886, Start Num: 84

Candidate Starts for Quallification_27:

(Start: 84 @22490 has 125 MA's), (133, 22667), (141, 22688), (190, 22835), (211, 22976), (217, 23009), (222, 23042), (228, 23078), (248, 23171), (261, 23231), (265, 23249), (291, 23381), (298, 23426), (323, 23558), (331, 23603), (346, 23663), (364, 23777), (368, 23798), (374, 23837), (378, 23858), (380, 23873), (407, 24023), (408, 24029), (409, 24047), (420, 24101), (432, 24185), (447, 24278), (483, 24524), (508, 24740), (517, 24824), (524, 24857),

Gene: QuickMath_19 Start: 18743, Stop: 21280, Start Num: 52

Candidate Starts for QuickMath_19:

(49, 18731), (Start: 52 @18743 has 221 MA's), (59, 18764), (Start: 69 @18785 has 1 MA's), (78, 18824), (104, 18893), (106, 18902), (107, 18905), (111, 18923), (119, 18956), (124, 18971), (137, 19019), (168, 19130), (169, 19133), (179, 19163), (184, 19175), (186, 19178), (197, 19256), (201, 19280), (210, 19346), (218, 19391), (222, 19421), (223, 19427), (224, 19445), (232, 19469), (234, 19478), (240, 19511), (242, 19517), (248, 19547), (258, 19586), (259, 19598), (261, 19607), (264, 19622), (265, 19625), (287, 19736), (288, 19739), (289, 19748), (290, 19754), (293, 19769), (294, 19772), (296, 19793), (303, 19823), (306, 19835), (310, 19868), (331, 19979), (332, 19982), (339, 20009), (341, 20015), (348, 20069), (349, 20072), (365, 20159), (368, 20174), (370, 20186), (371, 20189), (381, 20255), (386, 20279), (389, 20300), (391, 20309), (397, 20351), (400, 20369), (401, 20372), (408, 20408), (409, 20426), (413, 20438), (414, 20447), (419, 20474), (430, 20543), (432, 20561), (434, 20570), (435, 20582), (439, 20618), (444, 20648), (448, 20669), (453, 20693), (458, 20729), (464, 20783), (473, 20843), (479, 20885), (487, 20963), (495, 21020), (499, 21044), (505, 21098), (508, 21146), (514, 21188), (516, 21212), (517, 21215),

Gene: Quico_19 Start: 17227, Stop: 19764, Start Num: 52

Candidate Starts for Quico_19:

(Start: 52 @17227 has 221 MA's), (59, 17248), (Start: 69 @17269 has 1 MA's), (78, 17308), (104, 17377), (106, 17386), (107, 17389), (111, 17407), (119, 17440), (124, 17455), (137, 17503), (168, 17614), (169, 17617), (179, 17647), (186, 17662), (197, 17740), (201, 17764), (210, 17830), (218, 17875), (222, 17905), (223, 17911), (224, 17929), (232, 17953), (234, 17962), (240, 17995), (242, 18001), (248, 18031), (258, 18070), (261, 18091), (264, 18106), (265, 18109), (288, 18223), (289, 18232), (290, 18238), (294, 18256), (296, 18277), (303, 18307), (306, 18319), (310, 18352), (331, 18463), (332, 18466), (339, 18493), (341, 18499), (348, 18553), (349, 18556), (365, 18643), (368, 18658), (371, 18673), (386, 18763), (389, 18784), (391, 18793), (400, 18853), (401, 18856), (407, 18886), (409, 18910), (414, 18931), (430, 19027), (432, 19045), (434, 19054), (435, 19066), (439, 19102), (444, 19132), (448, 19153), (453, 19177), (458, 19213), (464, 19267), (473, 19327), (479, 19369), (487, 19447), (495, 19504), (499, 19528), (505, 19582), (508, 19630), (514, 19672), (516, 19696), (517, 19699),

Gene: Radiance_18 Start: 17380, Stop: 19917, Start Num: 52

Candidate Starts for Radiance_18:

(49, 17368), (Start: 52 @17380 has 221 MA's), (59, 17401), (Start: 69 @17422 has 1 MA's), (78, 17461), (104, 17530), (106, 17539), (107, 17542), (111, 17560), (119, 17593), (124, 17608), (137, 17656), (166, 17761), (168, 17767), (169, 17770), (184, 17812), (186, 17815), (201, 17917), (210, 17983), (218, 18028), (222, 18058), (223, 18064), (224, 18082), (232, 18106), (234, 18115), (240, 18148), (242, 18154), (248, 18184), (259, 18235), (261, 18244), (284, 18352), (286, 18364), (287, 18373), (288, 18376), (290, 18391), (293, 18406), (294, 18409), (296, 18430), (303, 18460), (306, 18472), (310, 18505), (331, 18616), (332, 18619), (339, 18646), (341, 18652), (348, 18706), (349, 18709), (352, 18736), (368, 18811), (370, 18823), (371, 18826), (381, 18892), (384, 18913), (386, 18916), (389, 18937), (391, 18946), (400, 19006), (401, 19009), (407, 19039), (409, 19063), (413, 19075), (414, 19084), (430, 19180), (432, 19198), (434, 19207), (435, 19219), (444, 19285), (447, 19294), (448, 19306), (453, 19330), (458, 19366), (479, 19522), (495, 19657), (499, 19681), (505, 19735), (511, 19804), (516, 19849), (517, 19852),

Gene: Rakim_27 Start: 22397, Stop: 24793, Start Num: 84

Candidate Starts for Rakim_27:

(Start: 84 @22397 has 125 MA's), (133, 22574), (141, 22595), (190, 22742), (211, 22883), (217, 22916), (222, 22949), (228, 22985), (248, 23078), (261, 23138), (265, 23156), (281, 23237), (323, 23465), (331, 23510), (368, 23705), (369, 23711), (371, 23720), (378, 23765), (380, 23780), (408, 23936), (409, 23954), (412, 23963), (421, 24017), (432, 24092), (433, 24095), (463, 24305), (465,

24317), (483, 24431), (508, 24647), (517, 24731), (522, 24755), (524, 24764),

Gene: Ramsey_19 Start: 17429, Stop: 19966, Start Num: 52

Candidate Starts for Ramsey_19:

(Start: 52 @17429 has 221 MA's), (59, 17450), (Start: 69 @17471 has 1 MA's), (78, 17510), (104, 17579), (106, 17588), (107, 17591), (111, 17609), (124, 17657), (168, 17816), (169, 17819), (186, 17864), (197, 17942), (201, 17966), (210, 18032), (222, 18107), (223, 18113), (224, 18131), (232, 18155), (233, 18161), (234, 18164), (240, 18197), (242, 18203), (248, 18233), (254, 18254), (259, 18284), (261, 18293), (284, 18401), (286, 18413), (287, 18422), (288, 18425), (290, 18440), (293, 18455), (294, 18458), (296, 18479), (306, 18521), (310, 18554), (331, 18665), (332, 18668), (339, 18695), (341, 18701), (348, 18755), (349, 18758), (352, 18785), (368, 18860), (370, 18872), (371, 18875), (381, 18941), (384, 18962), (386, 18965), (389, 18986), (391, 18995), (397, 19037), (400, 19055), (401, 19058), (407, 19088), (409, 19112), (413, 19124), (414, 19133), (430, 19229), (432, 19247), (434, 19256), (435, 19268), (439, 19304), (444, 19334), (447, 19343), (448, 19355), (458, 19415), (464, 19469), (473, 19529), (479, 19571), (495, 19706), (499, 19730), (505, 19784), (508, 19832), (514, 19874), (516, 19898), (517, 19901),

Gene: RedBird_18 Start: 17357, Stop: 19894, Start Num: 52

Candidate Starts for RedBird_18:

(Start: 52 @17357 has 221 MA's), (59, 17378), (Start: 69 @17399 has 1 MA's), (78, 17438), (104, 17507), (106, 17516), (107, 17519), (111, 17537), (124, 17585), (166, 17738), (169, 17747), (186, 17792), (200, 17891), (201, 17894), (210, 17960), (222, 18035), (223, 18041), (224, 18059), (232, 18083), (233, 18089), (234, 18092), (240, 18125), (242, 18131), (248, 18161), (254, 18182), (259, 18212), (261, 18221), (264, 18236), (265, 18239), (287, 18350), (288, 18353), (289, 18362), (290, 18368), (293, 18383), (294, 18386), (296, 18407), (303, 18437), (306, 18449), (310, 18482), (331, 18593), (332, 18596), (339, 18623), (341, 18629), (348, 18683), (349, 18686), (365, 18773), (368, 18788), (370, 18800), (371, 18803), (381, 18869), (386, 18893), (389, 18914), (391, 18923), (400, 18983), (401, 18986), (408, 19022), (409, 19040), (413, 19052), (414, 19061), (419, 19088), (429, 19145), (430, 19157), (432, 19175), (434, 19184), (435, 19196), (439, 19232), (444, 19262), (447, 19271), (448, 19283), (458, 19343), (464, 19397), (473, 19457), (479, 19499), (495, 19634), (499, 19658), (505, 19712), (508, 19760), (514, 19802), (516, 19826), (517, 19829),

Gene: Renaud18_20 Start: 17833, Stop: 20313, Start Num: 54

Candidate Starts for Renaud18_20:

(Start: 54 @17833 has 3 MA's), (58, 17839), (59, 17845), (Start: 84 @17908 has 125 MA's), (85, 17911), (90, 17938), (109, 17992), (111, 18001), (119, 18034), (128, 18067), (138, 18100), (153, 18139), (161, 18154), (169, 18190), (172, 18196), (173, 18199), (179, 18217), (184, 18229), (188, 18241), (192, 18265), (193, 18268), (215, 18412), (218, 18421), (222, 18445), (224, 18469), (232, 18493), (233, 18499), (238, 18520), (242, 18541), (248, 18571), (256, 18601), (259, 18622), (278, 18715), (281, 18730), (284, 18739), (287, 18760), (288, 18763), (295, 18805), (303, 18847), (304, 18850), (306, 18859), (309, 18886), (318, 18934), (321, 18955), (323, 18958), (330, 18994), (334, 19015), (348, 19093), (349, 19096), (362, 19150), (370, 19210), (386, 19303), (389, 19324), (396, 19360), (404, 19414), (407, 19423), (418, 19501), (421, 19519), (425, 19555), (426, 19558), (430, 19576), (431, 19579), (432, 19594), (435, 19615), (439, 19651), (441, 19663), (453, 19726), (458, 19759), (467, 19846), (476, 19894), (478, 19918), (482, 19945), (483, 19954), (486, 19993), (492, 20032), (495, 20056), (498, 20077), (508, 20173), (511, 20194), (520, 20257), (524, 20284), (526, 20293),

Gene: Rialto_20 Start: 17909, Stop: 20446, Start Num: 52

Candidate Starts for Rialto_20:

(Start: 52 @17909 has 221 MA's), (59, 17930), (Start: 69 @17951 has 1 MA's), (78, 17990), (104, 18059), (106, 18068), (107, 18071), (111, 18089), (124, 18137), (166, 18290), (169, 18299), (186, 18344), (200, 18443), (201, 18446), (210, 18512), (222, 18587), (223, 18593), (224, 18611), (232,

18635), (233, 18641), (234, 18644), (240, 18677), (242, 18683), (248, 18713), (254, 18734), (259, 18764), (261, 18773), (264, 18788), (265, 18791), (287, 18902), (288, 18905), (289, 18914), (290, 18920), (293, 18935), (294, 18938), (296, 18959), (303, 18989), (306, 19001), (310, 19034), (331, 19145), (332, 19148), (339, 19175), (341, 19181), (348, 19235), (349, 19238), (368, 19340), (370, 19352), (371, 19355), (381, 19421), (386, 19445), (389, 19466), (391, 19475), (400, 19535), (401, 19538), (408, 19574), (409, 19592), (413, 19604), (414, 19613), (419, 19640), (429, 19697), (430, 19709), (432, 19727), (434, 19736), (435, 19748), (439, 19784), (444, 19814), (447, 19823), (448, 19835), (458, 19895), (464, 19949), (473, 20009), (479, 20051), (495, 20186), (499, 20210), (505, 20264), (508, 20312), (514, 20354), (516, 20378), (517, 20381),

Gene: Rimmer_25 Start: 21850, Stop: 24246, Start Num: 84

Candidate Starts for Rimmer_25:

(Start: 84 @21850 has 125 MA's), (133, 22027), (141, 22048), (190, 22195), (211, 22336), (217, 22369), (222, 22402), (228, 22438), (248, 22531), (261, 22591), (265, 22609), (291, 22741), (298, 22786), (323, 22918), (331, 22963), (364, 23137), (368, 23158), (374, 23197), (378, 23218), (380, 23233), (408, 23389), (409, 23407), (420, 23461), (432, 23545), (447, 23638), (483, 23884), (508, 24100), (517, 24184), (524, 24217),

Gene: Riparian_30 Start: 24095, Stop: 27595, Start Num: 1

Candidate Starts for Riparian_30:

(Start: 1 @24095 has 8 MA's), (4, 24107), (Start: 5 @24119 has 1 MA's), (8, 24302), (10, 24383), (14, 24482), (15, 24506), (16, 24524), (23, 24683), (25, 24716), (33, 24764), (38, 24803), (62, 24929), (68, 24938), (113, 25124), (156, 25325), (192, 25502), (205, 25601), (211, 25634), (221, 25679), (232, 25733), (235, 25745), (247, 25811), (261, 25895), (263, 25910), (269, 25940), (290, 26045), (300, 26096), (308, 26141), (315, 26186), (325, 26231), (329, 26252), (331, 26270), (332, 26273), (333, 26279), (334, 26282), (356, 26420), (366, 26468), (367, 26474), (377, 26534), (380, 26555), (396, 26648), (404, 26708), (407, 26717), (408, 26723), (410, 26744), (436, 26909), (447, 26975), (448, 26987), (451, 27005), (453, 27011), (485, 27245), (488, 27284), (494, 27329), (498, 27359), (507, 27452), (511, 27479),

Gene: Rita_18 Start: 17410, Stop: 19947, Start Num: 52

Candidate Starts for Rita_18:

(Start: 52 @17410 has 221 MA's), (86, 17500), (104, 17560), (106, 17569), (107, 17572), (111, 17590), (124, 17638), (136, 17683), (168, 17797), (169, 17800), (179, 17830), (184, 17842), (186, 17845), (197, 17923), (201, 17947), (210, 18013), (218, 18058), (222, 18088), (223, 18094), (224, 18112), (232, 18136), (234, 18145), (240, 18178), (242, 18184), (248, 18214), (258, 18253), (259, 18265), (261, 18274), (264, 18289), (265, 18292), (287, 18403), (288, 18406), (289, 18415), (290, 18421), (293, 18436), (294, 18439), (296, 18460), (303, 18490), (306, 18502), (310, 18535), (331, 18646), (332, 18649), (339, 18676), (341, 18682), (348, 18736), (349, 18739), (368, 18841), (370, 18853), (371, 18856), (381, 18922), (386, 18946), (389, 18967), (391, 18976), (400, 19036), (401, 19039), (408, 19075), (409, 19093), (413, 19105), (414, 19114), (419, 19141), (430, 19210), (432, 19228), (434, 19237), (435, 19249), (439, 19285), (444, 19315), (448, 19336), (453, 19360), (458, 19396), (464, 19450), (473, 19510), (479, 19552), (487, 19630), (495, 19687), (499, 19711), (505, 19765), (508, 19813), (514, 19855), (516, 19879), (517, 19882),

Gene: RitaG_18 Start: 17539, Stop: 20091, Start Num: 52

Candidate Starts for RitaG_18:

(Start: 52 @17539 has 221 MA's), (59, 17560), (66, 17581), (79, 17620), (104, 17689), (106, 17698), (107, 17701), (111, 17719), (119, 17752), (124, 17767), (137, 17815), (168, 17926), (169, 17929), (180, 17962), (184, 17971), (186, 17974), (197, 18052), (205, 18118), (211, 18151), (219, 18205), (222, 18217), (232, 18265), (234, 18274), (237, 18283), (243, 18316), (254, 18358), (257, 18373), (262, 18403), (263, 18409), (264, 18412), (265, 18415), (270, 18442), (274, 18463), (281, 18496), (289, 18538), (290, 18544), (291, 18547), (293, 18559), (294, 18562), (297, 18589), (303, 18613),

(306, 18625), (310, 18658), (313, 18679), (329, 18751), (332, 18772), (351, 18883), (358, 18907), (359, 18910), (363, 18934), (368, 18964), (372, 18988), (378, 19024), (379, 19030), (380, 19039), (394, 19129), (397, 19153), (398, 19168), (407, 19210), (408, 19216), (415, 19261), (431, 19357), (432, 19372), (434, 19381), (437, 19405), (447, 19468), (464, 19594), (493, 19810), (499, 19855), (508, 19957), (520, 20035),

Gene: RiverMonster_26 Start: 22039, Stop: 24435, Start Num: 84

Candidate Starts for RiverMonster_26:

(Start: 84 @22039 has 125 MA's), (133, 22216), (141, 22237), (190, 22384), (217, 22558), (222, 22591), (228, 22627), (248, 22720), (261, 22780), (265, 22798), (291, 22930), (298, 22975), (323, 23107), (331, 23152), (346, 23212), (364, 23326), (368, 23347), (374, 23386), (378, 23407), (380, 23422), (407, 23572), (408, 23578), (409, 23596), (420, 23650), (432, 23734), (447, 23827), (483, 24073), (508, 24289), (517, 24373), (524, 24406),

Gene: Rockne_18 Start: 17383, Stop: 19920, Start Num: 52

Candidate Starts for Rockne_18:

(Start: 52 @17383 has 221 MA's), (86, 17473), (104, 17533), (106, 17542), (107, 17545), (111, 17563), (124, 17611), (137, 17659), (166, 17764), (168, 17770), (169, 17773), (184, 17815), (186, 17818), (201, 17920), (210, 17986), (218, 18031), (222, 18061), (223, 18067), (224, 18085), (232, 18109), (234, 18118), (240, 18151), (242, 18157), (254, 18208), (258, 18226), (259, 18238), (261, 18247), (264, 18262), (266, 18268), (287, 18376), (289, 18388), (290, 18394), (293, 18409), (294, 18412), (296, 18433), (303, 18463), (306, 18475), (310, 18508), (323, 18574), (331, 18619), (332, 18622), (339, 18649), (341, 18655), (348, 18709), (349, 18712), (352, 18739), (368, 18814), (370, 18826), (371, 18829), (381, 18895), (384, 18916), (386, 18919), (391, 18949), (397, 18991), (400, 19009), (401, 19012), (407, 19042), (409, 19066), (413, 19078), (414, 19087), (430, 19183), (432, 19201), (434, 19210), (435, 19222), (444, 19288), (447, 19297), (448, 19309), (458, 19369), (479, 19525), (495, 19660), (499, 19684), (505, 19738), (511, 19807), (516, 19852), (517, 19855),

Gene: RockyHorror_19 Start: 17258, Stop: 19795, Start Num: 52

Candidate Starts for RockyHorror_19:

(Start: 52 @17258 has 221 MA's), (59, 17279), (Start: 69 @17300 has 1 MA's), (78, 17339), (104, 17408), (106, 17417), (107, 17420), (111, 17438), (124, 17486), (166, 17639), (169, 17648), (186, 17693), (200, 17792), (201, 17795), (210, 17861), (222, 17936), (223, 17942), (224, 17960), (232, 17984), (233, 17990), (234, 17993), (240, 18026), (242, 18032), (248, 18062), (254, 18083), (259, 18113), (261, 18122), (264, 18137), (265, 18140), (287, 18251), (288, 18254), (289, 18263), (290, 18269), (293, 18284), (294, 18287), (296, 18308), (303, 18338), (306, 18350), (310, 18383), (331, 18494), (332, 18497), (339, 18524), (341, 18530), (348, 18584), (349, 18587), (365, 18674), (368, 18689), (370, 18701), (371, 18704), (381, 18770), (386, 18794), (389, 18815), (391, 18824), (400, 18884), (401, 18887), (408, 18923), (409, 18941), (413, 18953), (414, 18962), (419, 18989), (429, 19046), (430, 19058), (432, 19076), (434, 19085), (435, 19097), (439, 19133), (444, 19163), (447, 19172), (448, 19184), (458, 19244), (464, 19298), (473, 19358), (479, 19400), (495, 19535), (499, 19559), (505, 19613), (508, 19661), (514, 19703), (516, 19727), (517, 19730),

Gene: Rope_30 Start: 24281, Stop: 27775, Start Num: 1

Candidate Starts for Rope_30:

(Start: 1 @24281 has 8 MA's), (4, 24293), (Start: 5 @24305 has 1 MA's), (8, 24488), (10, 24569), (14, 24668), (15, 24692), (16, 24710), (23, 24869), (25, 24902), (33, 24950), (38, 24989), (62, 25115), (68, 25124), (113, 25310), (156, 25511), (192, 25688), (205, 25787), (211, 25820), (221, 25865), (223, 25877), (232, 25919), (233, 25925), (234, 25928), (247, 25997), (260, 26075), (261, 26081), (269, 26126), (270, 26129), (287, 26213), (334, 26468), (344, 26507), (366, 26654), (367, 26660), (396, 26834), (401, 26867), (404, 26888), (407, 26897), (410, 26924), (448, 27167), (466, 27311), (494, 27509), (498, 27539), (505, 27596), (507, 27632), (511, 27659), (512, 27671),

Gene: Royals2015_18 Start: 17417, Stop: 19948, Start Num: 52

Candidate Starts for Royals2015_18:

(Start: 52 @17417 has 221 MA's), (59, 17438), (86, 17507), (104, 17567), (106, 17576), (107, 17579), (111, 17597), (119, 17630), (124, 17645), (136, 17690), (168, 17804), (169, 17807), (174, 17819), (182, 17840), (184, 17849), (186, 17852), (197, 17930), (205, 17996), (211, 18029), (218, 18065), (221, 18089), (233, 18149), (234, 18152), (238, 18170), (251, 18233), (253, 18236), (258, 18254), (261, 18275), (265, 18293), (270, 18320), (274, 18341), (281, 18374), (290, 18422), (291, 18425), (293, 18437), (294, 18440), (296, 18461), (303, 18491), (306, 18503), (310, 18536), (323, 18602), (331, 18647), (332, 18650), (339, 18677), (341, 18683), (348, 18737), (349, 18740), (352, 18767), (368, 18842), (370, 18854), (371, 18857), (381, 18923), (386, 18947), (391, 18977), (397, 19019), (400, 19037), (401, 19040), (408, 19076), (409, 19094), (414, 19115), (419, 19142), (430, 19211), (432, 19229), (434, 19238), (435, 19250), (439, 19286), (448, 19337), (451, 19355), (458, 19397), (464, 19451), (479, 19553), (487, 19631), (495, 19688), (499, 19712), (505, 19766), (508, 19814), (516, 19880), (517, 19883),

Gene: Ruby_18 Start: 17371, Stop: 19908, Start Num: 52

Candidate Starts for Ruby_18:

(Start: 52 @17371 has 221 MA's), (59, 17392), (Start: 69 @17413 has 1 MA's), (78, 17452), (104, 17521), (106, 17530), (107, 17533), (111, 17551), (119, 17584), (124, 17599), (166, 17752), (169, 17761), (186, 17806), (200, 17905), (201, 17908), (210, 17974), (222, 18049), (223, 18055), (232, 18097), (233, 18103), (234, 18106), (240, 18139), (242, 18145), (248, 18175), (254, 18196), (259, 18226), (261, 18235), (264, 18250), (265, 18253), (287, 18364), (288, 18367), (289, 18376), (290, 18382), (293, 18397), (294, 18400), (296, 18421), (303, 18451), (306, 18463), (310, 18496), (331, 18607), (332, 18610), (339, 18637), (341, 18643), (348, 18697), (349, 18700), (365, 18787), (368, 18802), (370, 18814), (371, 18817), (381, 18883), (386, 18907), (389, 18928), (391, 18937), (397, 18979), (400, 18997), (401, 19000), (407, 19030), (409, 19054), (413, 19066), (414, 19075), (430, 19171), (432, 19189), (434, 19198), (435, 19210), (439, 19246), (444, 19276), (447, 19285), (448, 19297), (458, 19357), (464, 19411), (473, 19471), (479, 19513), (495, 19648), (499, 19672), (505, 19726), (508, 19774), (514, 19816), (516, 19840), (517, 19843),

Gene: Ryadel_62 Start: 36906, Stop: 39416, Start Num: 65

Candidate Starts for Ryadel_62:

(Start: 65 @36906 has 28 MA's), (72, 36939), (91, 37008), (92, 37011), (100, 37035), (107, 37059), (114, 37083), (119, 37116), (170, 37323), (173, 37335), (174, 37338), (204, 37485), (205, 37515), (210, 37539), (216, 37569), (217, 37572), (222, 37599), (224, 37623), (233, 37653), (245, 37710), (258, 37770), (259, 37782), (264, 37806), (265, 37809), (271, 37851), (293, 37947), (294, 37950), (344, 38205), (368, 38349), (378, 38409), (388, 38481), (389, 38484), (405, 38580), (432, 38754), (434, 38763), (435, 38775), (449, 38868), (452, 38880), (464, 38970), (477, 39045), (486, 39090), (510, 39291), (515, 39345), (520, 39360),

Gene: SG4_18 Start: 17548, Stop: 20085, Start Num: 52

Candidate Starts for SG4_18:

(Start: 52 @17548 has 221 MA's), (59, 17569), (Start: 69 @17590 has 1 MA's), (77, 17626), (78, 17629), (104, 17698), (106, 17707), (107, 17710), (111, 17728), (119, 17761), (124, 17776), (137, 17824), (168, 17935), (169, 17938), (179, 17968), (184, 17980), (186, 17983), (197, 18061), (201, 18085), (210, 18151), (218, 18196), (222, 18226), (223, 18232), (224, 18250), (232, 18274), (234, 18283), (240, 18316), (242, 18322), (254, 18373), (258, 18391), (259, 18403), (261, 18412), (264, 18427), (265, 18430), (287, 18541), (288, 18544), (289, 18553), (290, 18559), (293, 18574), (294, 18577), (296, 18598), (303, 18628), (306, 18640), (310, 18673), (323, 18739), (331, 18784), (332, 18787), (339, 18814), (341, 18820), (348, 18874), (349, 18877), (368, 18979), (370, 18991), (371, 18994), (381, 19060), (386, 19084), (389, 19105), (391, 19114), (400, 19174), (401, 19177), (408, 19213), (409, 19231), (413, 19243), (414, 19252), (419, 19279), (430, 19348), (432, 19366), (434, 19375), (435, 19387), (439, 19423), (444, 19453), (448, 19474), (453, 19498), (458, 19534), (464,

19588), (473, 19648), (479, 19690), (495, 19825), (499, 19849), (505, 19903), (508, 19951), (516, 20017), (517, 20020),

Gene: Saal_18 Start: 17383, Stop: 19920, Start Num: 52

Candidate Starts for Saal_18:

(Start: 52 @17383 has 221 MA's), (59, 17404), (Start: 69 @17425 has 1 MA's), (78, 17464), (104, 17533), (106, 17542), (107, 17545), (111, 17563), (124, 17611), (166, 17764), (169, 17773), (186, 17818), (197, 17896), (201, 17920), (210, 17986), (218, 18031), (222, 18061), (223, 18067), (224, 18085), (232, 18109), (234, 18118), (240, 18151), (242, 18157), (248, 18187), (258, 18226), (261, 18247), (264, 18262), (265, 18265), (288, 18379), (289, 18388), (290, 18394), (294, 18412), (296, 18433), (303, 18463), (306, 18475), (310, 18508), (331, 18619), (332, 18622), (339, 18649), (341, 18655), (348, 18709), (349, 18712), (365, 18799), (368, 18814), (371, 18829), (386, 18919), (389, 18940), (391, 18949), (400, 19009), (401, 19012), (408, 19048), (409, 19066), (413, 19078), (414, 19087), (419, 19114), (430, 19183), (432, 19201), (434, 19210), (435, 19222), (439, 19258), (444, 19288), (448, 19309), (453, 19333), (458, 19369), (464, 19423), (479, 19525), (487, 19603), (495, 19660), (499, 19684), (505, 19738), (508, 19786), (514, 19828), (519, 19861), (520, 19864),

Gene: Sabbb_19 Start: 17625, Stop: 20168, Start Num: 52

Candidate Starts for Sabbb_19:

(Start: 52 @17625 has 221 MA's), (59, 17646), (66, 17667), (79, 17706), (104, 17775), (106, 17784), (107, 17787), (111, 17805), (124, 17853), (137, 17901), (168, 18012), (169, 18015), (180, 18048), (186, 18060), (197, 18138), (205, 18204), (211, 18237), (219, 18291), (222, 18303), (233, 18357), (234, 18360), (237, 18369), (243, 18402), (252, 18441), (254, 18444), (257, 18459), (258, 18462), (262, 18489), (263, 18495), (264, 18498), (265, 18501), (270, 18528), (272, 18546), (274, 18549), (289, 18624), (293, 18645), (294, 18648), (297, 18675), (303, 18699), (310, 18744), (311, 18747), (320, 18798), (332, 18861), (334, 18870), (340, 18894), (359, 18999), (361, 19002), (368, 19053), (369, 19059), (370, 19065), (371, 19068), (378, 19113), (380, 19128), (384, 19155), (389, 19179), (397, 19230), (400, 19248), (401, 19251), (402, 19263), (413, 19317), (432, 19440), (440, 19503), (451, 19566), (460, 19641), (490, 19842), (513, 20070), (519, 20109), (520, 20112),

Gene: Saints25_27 Start: 21945, Stop: 24341, Start Num: 84

Candidate Starts for Saints25_27:

(Start: 84 @21945 has 125 MA's), (133, 22122), (141, 22143), (190, 22290), (211, 22431), (217, 22464), (222, 22497), (228, 22533), (248, 22626), (261, 22686), (265, 22704), (291, 22836), (298, 22881), (323, 23013), (331, 23058), (346, 23118), (364, 23232), (368, 23253), (374, 23292), (378, 23313), (380, 23328), (407, 23478), (408, 23484), (409, 23502), (420, 23556), (432, 23640), (447, 23733), (483, 23979), (508, 24195), (517, 24279), (524, 24312),

Gene: Sandalphon_19 Start: 17954, Stop: 20491, Start Num: 52

Candidate Starts for Sandalphon_19:

(49, 17942), (Start: 52 @17954 has 221 MA's), (59, 17975), (Start: 69 @17996 has 1 MA's), (78, 18035), (104, 18104), (106, 18113), (107, 18116), (119, 18167), (124, 18182), (137, 18230), (168, 18341), (169, 18344), (179, 18374), (184, 18386), (186, 18389), (197, 18467), (201, 18491), (210, 18557), (218, 18602), (222, 18632), (223, 18638), (224, 18656), (232, 18680), (234, 18689), (240, 18722), (242, 18728), (248, 18758), (258, 18797), (259, 18809), (261, 18818), (264, 18833), (265, 18836), (287, 18947), (288, 18950), (289, 18959), (290, 18965), (293, 18980), (294, 18983), (296, 19004), (303, 19034), (306, 19046), (310, 19079), (331, 19190), (332, 19193), (339, 19220), (341, 19226), (348, 19280), (349, 19283), (368, 19385), (370, 19397), (371, 19400), (381, 19466), (386, 19490), (389, 19511), (391, 19520), (400, 19580), (401, 19583), (408, 19619), (409, 19637), (413, 19649), (414, 19658), (419, 19685), (430, 19754), (432, 19772), (434, 19781), (435, 19793), (439, 19829), (444, 19859), (448, 19880), (453, 19904), (458, 19940), (464, 19994), (473, 20054), (479, 20096), (487, 20174), (495, 20231), (499, 20255), (505, 20309), (508, 20357), (514, 20399), (516, 20423), (517, 20426),

Gene: Sassafras_18 Start: 17532, Stop: 20069, Start Num: 52

Candidate Starts for Sassafras_18:

(Start: 52 @17532 has 221 MA's), (59, 17553), (Start: 69 @17574 has 1 MA's), (78, 17613), (104, 17682), (106, 17691), (107, 17694), (111, 17712), (124, 17760), (137, 17808), (168, 17919), (169, 17922), (186, 17967), (197, 18045), (201, 18069), (210, 18135), (222, 18210), (223, 18216), (224, 18234), (232, 18258), (234, 18267), (240, 18300), (242, 18306), (248, 18336), (254, 18357), (259, 18387), (261, 18396), (284, 18504), (286, 18516), (287, 18525), (288, 18528), (290, 18543), (293, 18558), (294, 18561), (296, 18582), (306, 18624), (310, 18657), (331, 18768), (332, 18771), (339, 18798), (341, 18804), (348, 18858), (349, 18861), (352, 18888), (368, 18963), (370, 18975), (371, 18978), (381, 19044), (384, 19065), (386, 19068), (389, 19089), (391, 19098), (397, 19140), (400, 19158), (401, 19161), (407, 19191), (409, 19215), (413, 19227), (414, 19236), (430, 19332), (432, 19350), (434, 19359), (435, 19371), (439, 19407), (444, 19437), (447, 19446), (448, 19458), (458, 19518), (464, 19572), (473, 19632), (479, 19674), (495, 19809), (499, 19833), (505, 19887), (508, 19935), (514, 19977), (516, 20001), (517, 20004),

Gene: Sassay_25 Start: 21788, Stop: 24184, Start Num: 84

Candidate Starts for Sassay_25:

(Start: 84 @21788 has 125 MA's), (133, 21965), (141, 21986), (190, 22133), (211, 22274), (217, 22307), (222, 22340), (228, 22376), (248, 22469), (261, 22529), (265, 22547), (291, 22679), (298, 22724), (323, 22856), (331, 22901), (346, 22961), (364, 23075), (368, 23096), (374, 23135), (378, 23156), (380, 23171), (407, 23321), (408, 23327), (409, 23345), (420, 23399), (432, 23483), (447, 23576), (483, 23822), (508, 24038), (517, 24122), (524, 24155),

Gene: SassyB_18 Start: 17445, Stop: 19982, Start Num: 52

Candidate Starts for SassyB_18:

(49, 17433), (Start: 52 @17445 has 221 MA's), (59, 17466), (Start: 69 @17487 has 1 MA's), (78, 17526), (104, 17595), (106, 17604), (107, 17607), (111, 17625), (119, 17658), (124, 17673), (168, 17832), (169, 17835), (186, 17880), (197, 17958), (201, 17982), (210, 18048), (222, 18123), (223, 18129), (224, 18147), (232, 18171), (233, 18177), (234, 18180), (240, 18213), (242, 18219), (248, 18249), (254, 18270), (259, 18300), (261, 18309), (277, 18390), (289, 18450), (290, 18456), (293, 18471), (294, 18474), (296, 18495), (306, 18537), (310, 18570), (311, 18573), (339, 18711), (341, 18717), (348, 18771), (349, 18774), (352, 18801), (368, 18876), (370, 18888), (371, 18891), (381, 18957), (386, 18981), (389, 19002), (391, 19011), (400, 19071), (401, 19074), (408, 19110), (409, 19128), (414, 19149), (430, 19245), (432, 19263), (434, 19272), (435, 19284), (439, 19320), (444, 19350), (458, 19431), (464, 19485), (479, 19587), (495, 19722), (499, 19746), (505, 19800), (508, 19848), (514, 19890), (516, 19914), (517, 19917),

Gene: SchoolBus_58 Start: 36090, Stop: 38600, Start Num: 65

Candidate Starts for SchoolBus_58:

(Start: 65 @36090 has 28 MA's), (72, 36123), (91, 36192), (92, 36195), (100, 36219), (107, 36243), (114, 36267), (119, 36300), (170, 36507), (173, 36519), (174, 36522), (204, 36669), (205, 36699), (210, 36723), (216, 36753), (217, 36756), (222, 36783), (224, 36807), (233, 36837), (245, 36894), (249, 36918), (258, 36954), (259, 36966), (264, 36990), (265, 36993), (271, 37035), (293, 37131), (294, 37134), (344, 37389), (368, 37533), (378, 37593), (388, 37665), (389, 37668), (405, 37764), (432, 37938), (435, 37959), (449, 38052), (452, 38064), (464, 38154), (477, 38229), (486, 38274), (510, 38475), (515, 38529), (520, 38544),

Gene: Schuy_59 Start: 35881, Stop: 38391, Start Num: 65

Candidate Starts for Schuy_59:

(Start: 65 @35881 has 28 MA's), (72, 35914), (91, 35983), (92, 35986), (100, 36010), (107, 36034), (114, 36058), (119, 36091), (170, 36298), (173, 36310), (174, 36313), (204, 36460), (205, 36490), (210, 36514), (216, 36544), (217, 36547), (222, 36574), (224, 36598), (233, 36628), (245, 36685),

(249, 36709), (258, 36745), (259, 36757), (264, 36781), (265, 36784), (271, 36826), (293, 36922), (294, 36925), (344, 37180), (368, 37324), (378, 37384), (388, 37456), (389, 37459), (405, 37555), (432, 37729), (435, 37750), (449, 37843), (452, 37855), (464, 37945), (477, 38020), (486, 38065), (510, 38266), (515, 38320), (520, 38335),

Gene: Scottish_19 Start: 18701, Stop: 21238, Start Num: 52

Candidate Starts for Scottish_19:

(49, 18689), (Start: 52 @18701 has 221 MA's), (59, 18722), (Start: 69 @18743 has 1 MA's), (78, 18782), (104, 18851), (106, 18860), (107, 18863), (111, 18881), (124, 18929), (137, 18977), (168, 19088), (169, 19091), (186, 19136), (197, 19214), (201, 19238), (210, 19304), (218, 19349), (222, 19379), (223, 19385), (224, 19403), (232, 19427), (234, 19436), (240, 19469), (242, 19475), (248, 19505), (258, 19544), (259, 19556), (261, 19565), (264, 19580), (265, 19583), (287, 19694), (288, 19697), (289, 19706), (290, 19712), (293, 19727), (294, 19730), (296, 19751), (303, 19781), (306, 19793), (310, 19826), (331, 19937), (332, 19940), (339, 19967), (341, 19973), (348, 20027), (349, 20030), (368, 20132), (370, 20144), (371, 20147), (381, 20213), (386, 20237), (389, 20258), (391, 20267), (400, 20327), (401, 20330), (408, 20366), (409, 20384), (414, 20405), (419, 20432), (430, 20501), (432, 20519), (434, 20528), (435, 20540), (439, 20576), (448, 20627), (451, 20645), (458, 20687), (464, 20741), (479, 20843), (495, 20978), (499, 21002), (505, 21056), (511, 21125), (516, 21170), (517, 21173),

Gene: Seabastian_18 Start: 17634, Stop: 20171, Start Num: 52

Candidate Starts for Seabastian_18:

(Start: 52 @17634 has 221 MA's), (59, 17655), (Start: 69 @17676 has 1 MA's), (78, 17715), (104, 17784), (106, 17793), (107, 17796), (111, 17814), (124, 17862), (168, 18021), (169, 18024), (184, 18066), (186, 18069), (197, 18147), (200, 18168), (201, 18171), (210, 18237), (211, 18246), (218, 18282), (222, 18312), (223, 18318), (232, 18360), (233, 18366), (234, 18369), (240, 18402), (242, 18408), (248, 18438), (254, 18459), (259, 18489), (261, 18498), (284, 18606), (286, 18618), (287, 18627), (288, 18630), (289, 18639), (290, 18645), (293, 18660), (294, 18663), (296, 18684), (306, 18726), (310, 18759), (339, 18900), (341, 18906), (348, 18960), (349, 18963), (352, 18990), (368, 19065), (370, 19077), (371, 19080), (381, 19146), (384, 19167), (386, 19170), (389, 19191), (397, 19242), (400, 19260), (401, 19263), (407, 19293), (409, 19317), (413, 19329), (430, 19434), (432, 19452), (434, 19461), (435, 19473), (439, 19509), (444, 19539), (448, 19560), (453, 19584), (458, 19620), (473, 19734), (479, 19776), (487, 19854), (495, 19911), (499, 19935), (505, 19989), (508, 20037), (514, 20079), (516, 20103), (517, 20106),

Gene: Seagreen_19 Start: 17241, Stop: 19778, Start Num: 52

Candidate Starts for Seagreen_19:

(49, 17229), (Start: 52 @17241 has 221 MA's), (59, 17262), (Start: 69 @17283 has 1 MA's), (78, 17322), (104, 17391), (106, 17400), (107, 17403), (111, 17421), (119, 17454), (124, 17469), (137, 17517), (166, 17622), (168, 17628), (169, 17631), (184, 17673), (186, 17676), (197, 17754), (201, 17778), (210, 17844), (218, 17889), (222, 17919), (223, 17925), (224, 17943), (232, 17967), (234, 17976), (240, 18009), (242, 18015), (248, 18045), (258, 18084), (259, 18096), (261, 18105), (264, 18120), (265, 18123), (287, 18234), (288, 18237), (289, 18246), (290, 18252), (293, 18267), (294, 18270), (296, 18291), (303, 18321), (306, 18333), (310, 18366), (331, 18477), (332, 18480), (339, 18507), (341, 18513), (348, 18567), (349, 18570), (368, 18672), (370, 18684), (371, 18687), (381, 18753), (386, 18777), (389, 18798), (391, 18807), (400, 18867), (401, 18870), (408, 18906), (409, 18924), (413, 18936), (414, 18945), (419, 18972), (430, 19041), (432, 19059), (434, 19068), (435, 19080), (439, 19116), (444, 19146), (448, 19167), (453, 19191), (458, 19227), (464, 19281), (473, 19341), (479, 19383), (487, 19461), (495, 19518), (499, 19542), (505, 19596), (508, 19644), (514, 19686), (516, 19710), (517, 19713),

Gene: Send513_30 Start: 24637, Stop: 28131, Start Num: 1

Candidate Starts for Send513_30:

(Start: 1 @24637 has 8 MA's), (4, 24649), (Start: 5 @24661 has 1 MA's), (8, 24844), (10, 24925), (14, 25024), (15, 25048), (16, 25066), (23, 25225), (25, 25258), (33, 25306), (38, 25345), (62, 25471), (68, 25480), (113, 25666), (156, 25867), (192, 26044), (205, 26143), (211, 26176), (221, 26221), (223, 26233), (232, 26275), (233, 26281), (234, 26284), (247, 26353), (260, 26431), (261, 26437), (269, 26482), (270, 26485), (287, 26569), (334, 26824), (344, 26863), (366, 27010), (367, 27016), (396, 27190), (401, 27223), (404, 27244), (407, 27253), (410, 27280), (448, 27523), (466, 27667), (494, 27865), (498, 27895), (505, 27952), (507, 27988), (511, 28015), (512, 28027),

Gene: Shaboozey_30 Start: 25923, Stop: 28418, Start Num: 52

Candidate Starts for Shaboozey_30:

(Start: 52 @25923 has 221 MA's), (111, 26118), (119, 26154), (124, 26169), (153, 26256), (161, 26271), (169, 26307), (172, 26313), (184, 26346), (188, 26358), (215, 26529), (218, 26538), (222, 26562), (233, 26616), (240, 26652), (242, 26658), (248, 26688), (256, 26718), (259, 26739), (261, 26748), (264, 26763), (278, 26832), (294, 26913), (295, 26922), (298, 26943), (299, 26946), (306, 26976), (311, 27012), (320, 27063), (321, 27072), (323, 27075), (329, 27102), (330, 27111), (334, 27132), (348, 27210), (349, 27213), (363, 27285), (369, 27321), (370, 27327), (377, 27369), (378, 27375), (384, 27417), (386, 27420), (389, 27441), (390, 27447), (391, 27450), (396, 27480), (418, 27621), (420, 27630), (421, 27639), (424, 27672), (430, 27696), (431, 27699), (432, 27714), (435, 27735), (439, 27771), (440, 27777), (441, 27783), (445, 27804), (449, 27831), (467, 27966), (478, 28038), (480, 28044), (483, 28062), (495, 28161), (508, 28278), (518, 28359), (520, 28362), (524, 28389),

Gene: ShamWow_26 Start: 22284, Stop: 24680, Start Num: 84

Candidate Starts for ShamWow_26:

(Start: 84 @22284 has 125 MA's), (133, 22461), (141, 22482), (190, 22629), (211, 22770), (217, 22803), (222, 22836), (228, 22872), (248, 22965), (261, 23025), (265, 23043), (295, 23199), (298, 23220), (320, 23340), (323, 23352), (331, 23397), (368, 23592), (371, 23607), (378, 23652), (380, 23667), (408, 23823), (409, 23841), (412, 23850), (432, 23979), (433, 23982), (463, 24192), (465, 24204), (483, 24318), (508, 24534), (517, 24618), (522, 24642), (524, 24651),

Gene: Shauna1_18 Start: 17450, Stop: 19927, Start Num: 52

Candidate Starts for Shauna1_18:

(50, 17438), (Start: 52 @17450 has 221 MA's), (59, 17471), (Start: 69 @17492 has 1 MA's), (81, 17531), (104, 17600), (106, 17609), (107, 17612), (111, 17630), (119, 17663), (124, 17678), (153, 17765), (161, 17780), (169, 17816), (172, 17822), (184, 17855), (188, 17867), (215, 18038), (218, 18047), (222, 18071), (233, 18125), (240, 18161), (242, 18167), (248, 18197), (256, 18227), (259, 18248), (261, 18257), (278, 18341), (290, 18404), (294, 18422), (295, 18431), (298, 18452), (299, 18455), (303, 18473), (306, 18485), (309, 18512), (311, 18521), (320, 18572), (321, 18581), (323, 18584), (329, 18611), (330, 18620), (334, 18641), (348, 18719), (349, 18722), (369, 18830), (370, 18836), (378, 18884), (384, 18926), (386, 18929), (389, 18950), (390, 18956), (391, 18959), (396, 18989), (418, 19130), (421, 19148), (424, 19181), (430, 19205), (431, 19208), (432, 19223), (435, 19244), (439, 19280), (440, 19286), (445, 19313), (449, 19340), (467, 19475), (476, 19523), (478, 19547), (483, 19571), (495, 19670), (498, 19691), (500, 19709), (508, 19787), (511, 19808), (520, 19871), (522, 19889), (526, 19907),

Gene: ShereKhan_28 Start: 23267, Stop: 25663, Start Num: 84

Candidate Starts for ShereKhan_28:

(Start: 84 @23267 has 125 MA's), (133, 23444), (141, 23465), (190, 23612), (211, 23753), (217, 23786), (222, 23819), (228, 23855), (248, 23948), (261, 24008), (265, 24026), (291, 24158), (298, 24203), (323, 24335), (331, 24380), (346, 24440), (364, 24554), (368, 24575), (374, 24614), (378, 24635), (380, 24650), (407, 24800), (408, 24806), (409, 24824), (420, 24878), (432, 24962), (447, 25055), (483, 25301), (508, 25517), (517, 25601), (524, 25634),

Gene: ShiLan_18 Start: 17405, Stop: 19957, Start Num: 52

Candidate Starts for ShiLan_18:

(Start: 52 @17405 has 221 MA's), (79, 17486), (104, 17555), (106, 17564), (107, 17567), (111, 17585), (124, 17633), (136, 17678), (168, 17792), (169, 17795), (174, 17807), (180, 17828), (184, 17837), (186, 17840), (193, 17888), (197, 17918), (205, 17984), (211, 18017), (218, 18053), (221, 18077), (233, 18137), (234, 18140), (238, 18158), (252, 18221), (254, 18224), (258, 18242), (261, 18263), (265, 18281), (270, 18308), (274, 18329), (281, 18362), (289, 18404), (290, 18410), (291, 18413), (294, 18428), (297, 18455), (298, 18458), (303, 18479), (306, 18491), (310, 18524), (329, 18617), (348, 18725), (351, 18749), (352, 18755), (358, 18773), (359, 18776), (363, 18800), (368, 18830), (372, 18854), (378, 18890), (379, 18896), (380, 18905), (384, 18932), (394, 18995), (397, 19019), (398, 19034), (407, 19076), (415, 19127), (431, 19223), (432, 19238), (434, 19247), (437, 19271), (447, 19334), (453, 19370), (493, 19676), (499, 19721), (508, 19823),

Gene: Shida_58 Start: 35788, Stop: 38298, Start Num: 65

Candidate Starts for Shida_58:

(Start: 65 @35788 has 28 MA's), (72, 35821), (91, 35890), (92, 35893), (100, 35917), (107, 35941), (114, 35965), (119, 35998), (170, 36205), (173, 36217), (174, 36220), (204, 36367), (205, 36397), (210, 36421), (216, 36451), (217, 36454), (222, 36481), (224, 36505), (233, 36535), (245, 36592), (258, 36652), (259, 36664), (264, 36688), (265, 36691), (271, 36733), (293, 36829), (294, 36832), (344, 37087), (368, 37231), (378, 37291), (388, 37363), (389, 37366), (405, 37462), (432, 37636), (435, 37657), (449, 37750), (452, 37762), (464, 37852), (477, 37927), (486, 37972), (510, 38173), (515, 38227), (520, 38242),

Gene: Shipwreck_20 Start: 18739, Stop: 21243, Start Num: 60

Candidate Starts for Shipwreck_20:

(Start: 60 @18739 has 3 MA's), (107, 18892), (200, 19297), (204, 19312), (205, 19342), (206, 19348), (210, 19366), (232, 19474), (242, 19525), (265, 19636), (266, 19639), (271, 19678), (281, 19711), (294, 19777), (306, 19837), (309, 19864), (310, 19870), (368, 20176), (378, 20236), (383, 20284), (384, 20287), (388, 20308), (389, 20311), (432, 20572), (451, 20695), (452, 20698), (464, 20788), (472, 20845), (477, 20866), (490, 20926), (512, 21127), (515, 21169),

Gene: ShowerHandel_18 Start: 17406, Stop: 19958, Start Num: 52

Candidate Starts for ShowerHandel_18:

(Start: 52 @17406 has 221 MA's), (79, 17487), (104, 17556), (106, 17565), (107, 17568), (111, 17586), (124, 17634), (136, 17679), (168, 17793), (169, 17796), (174, 17808), (180, 17829), (184, 17838), (186, 17841), (193, 17889), (197, 17919), (205, 17985), (211, 18018), (218, 18054), (221, 18078), (233, 18138), (234, 18141), (238, 18159), (252, 18222), (254, 18225), (258, 18243), (261, 18264), (265, 18282), (270, 18309), (274, 18330), (281, 18363), (289, 18405), (290, 18411), (291, 18414), (294, 18429), (297, 18456), (298, 18459), (303, 18480), (306, 18492), (310, 18525), (329, 18618), (348, 18726), (351, 18750), (352, 18756), (358, 18774), (359, 18777), (363, 18801), (368, 18831), (372, 18855), (378, 18891), (379, 18897), (380, 18906), (384, 18933), (394, 18996), (397, 19020), (398, 19035), (407, 19077), (415, 19128), (431, 19224), (432, 19239), (434, 19248), (437, 19272), (447, 19335), (453, 19371), (493, 19677), (499, 19722), (508, 19824),

Gene: ShroomBoi_18 Start: 17435, Stop: 19912, Start Num: 52

Candidate Starts for ShroomBoi_18:

(Start: 52 @17435 has 221 MA's), (59, 17456), (Start: 69 @17477 has 1 MA's), (81, 17516), (104, 17585), (106, 17594), (107, 17597), (111, 17615), (124, 17663), (153, 17750), (161, 17765), (169, 17801), (172, 17807), (184, 17840), (188, 17852), (215, 18023), (218, 18032), (222, 18056), (233, 18110), (240, 18146), (242, 18152), (248, 18182), (256, 18212), (259, 18233), (261, 18242), (264, 18257), (278, 18326), (294, 18407), (295, 18416), (299, 18440), (306, 18470), (311, 18506), (320, 18557), (321, 18566), (323, 18569), (329, 18596), (330, 18605), (334, 18626), (348, 18704), (369, 18815), (370, 18821), (378, 18869), (384, 18911), (386, 18914), (389, 18935), (390, 18941), (391,

18944), (396, 18974), (418, 19115), (421, 19133), (424, 19166), (430, 19190), (431, 19193), (432, 19208), (435, 19229), (439, 19265), (440, 19271), (441, 19277), (445, 19298), (449, 19325), (467, 19460), (476, 19508), (478, 19532), (480, 19538), (483, 19556), (495, 19655), (508, 19772), (518, 19853), (520, 19856), (524, 19883),

Gene: SiSi_18 Start: 17389, Stop: 19926, Start Num: 52

Candidate Starts for SiSi_18:

(49, 17377), (Start: 52 @17389 has 221 MA's), (59, 17410), (Start: 69 @17431 has 1 MA's), (78, 17470), (104, 17539), (106, 17548), (107, 17551), (111, 17569), (119, 17602), (124, 17617), (137, 17665), (168, 17776), (169, 17779), (179, 17809), (184, 17821), (186, 17824), (197, 17902), (201, 17926), (210, 17992), (218, 18037), (222, 18067), (223, 18073), (224, 18091), (232, 18115), (234, 18124), (240, 18157), (242, 18163), (248, 18193), (258, 18232), (259, 18244), (261, 18253), (264, 18268), (265, 18271), (287, 18382), (289, 18394), (290, 18400), (293, 18415), (294, 18418), (296, 18439), (303, 18469), (306, 18481), (310, 18514), (323, 18580), (331, 18625), (332, 18628), (339, 18655), (341, 18661), (348, 18715), (349, 18718), (352, 18745), (368, 18820), (370, 18832), (371, 18835), (381, 18901), (386, 18925), (391, 18955), (397, 18997), (400, 19015), (401, 19018), (408, 19054), (409, 19072), (414, 19093), (419, 19120), (430, 19189), (432, 19207), (434, 19216), (435, 19228), (439, 19264), (448, 19315), (451, 19333), (458, 19375), (464, 19429), (473, 19489), (479, 19531), (487, 19609), (495, 19666), (499, 19690), (505, 19744), (508, 19792), (516, 19858), (517, 19861),

Gene: SilverChicken_24 Start: 17093, Stop: 19555, Start Num: 80

Candidate Starts for SilverChicken_24:

(76, 17084), (80, 17093), (102, 17153), (112, 17189), (123, 17234), (126, 17246), (140, 17288), (151, 17315), (155, 17333), (159, 17345), (166, 17378), (167, 17381), (186, 17438), (187, 17447), (192, 17483), (200, 17537), (205, 17582), (210, 17606), (211, 17615), (215, 17642), (234, 17738), (238, 17756), (240, 17771), (242, 17777), (246, 17795), (252, 17819), (262, 17867), (264, 17876), (265, 17879), (274, 17927), (277, 17942), (285, 17978), (286, 17981), (290, 18008), (291, 18011), (293, 18023), (296, 18047), (299, 18059), (303, 18077), (306, 18089), (310, 18122), (313, 18143), (329, 18215), (332, 18236), (351, 18347), (352, 18353), (358, 18371), (359, 18374), (363, 18398), (368, 18428), (372, 18452), (378, 18488), (379, 18494), (380, 18503), (384, 18530), (394, 18593), (397, 18617), (398, 18632), (407, 18674), (408, 18680), (415, 18725), (431, 18821), (432, 18836), (434, 18845), (437, 18869), (447, 18932), (453, 18968), (464, 19058), (493, 19274), (498, 19316), (499, 19319), (508, 19421),

Gene: Simpliphy_27 Start: 22029, Stop: 24425, Start Num: 84

Candidate Starts for Simpliphy_27:

(Start: 84 @22029 has 125 MA's), (133, 22206), (141, 22227), (190, 22374), (217, 22548), (222, 22581), (228, 22617), (248, 22710), (261, 22770), (265, 22788), (291, 22920), (298, 22965), (323, 23097), (331, 23142), (346, 23202), (364, 23316), (368, 23337), (374, 23376), (378, 23397), (380, 23412), (407, 23562), (408, 23568), (409, 23586), (420, 23640), (432, 23724), (447, 23817), (483, 24063), (508, 24279), (517, 24363), (524, 24396),

Gene: SimranZ1_19 Start: 17257, Stop: 19794, Start Num: 52

Candidate Starts for SimranZ1_19:

(Start: 52 @17257 has 221 MA's), (59, 17278), (Start: 69 @17299 has 1 MA's), (78, 17338), (104, 17407), (106, 17416), (107, 17419), (111, 17437), (124, 17485), (168, 17644), (169, 17647), (179, 17677), (184, 17689), (186, 17692), (197, 17770), (201, 17794), (210, 17860), (222, 17935), (223, 17941), (224, 17959), (232, 17983), (234, 17992), (240, 18025), (242, 18031), (248, 18061), (254, 18082), (258, 18100), (259, 18112), (261, 18121), (268, 18154), (287, 18250), (288, 18253), (289, 18262), (290, 18268), (293, 18283), (294, 18286), (296, 18307), (306, 18349), (310, 18382), (323, 18448), (331, 18493), (332, 18496), (339, 18523), (341, 18529), (348, 18583), (349, 18586), (352, 18613), (359, 18634), (368, 18688), (370, 18700), (371, 18703), (381, 18769), (386, 18793), (389,

18814), (391, 18823), (397, 18865), (400, 18883), (401, 18886), (408, 18922), (409, 18940), (413, 18952), (414, 18961), (419, 18988), (429, 19045), (430, 19057), (432, 19075), (434, 19084), (435, 19096), (439, 19132), (444, 19162), (448, 19183), (453, 19207), (458, 19243), (479, 19399), (495, 19534), (499, 19558), (505, 19612), (508, 19660), (516, 19726), (517, 19729),

Gene: SirDuracell_25 Start: 20950, Stop: 23346, Start Num: 84

Candidate Starts for SirDuracell_25:

(Start: 84 @20950 has 125 MA's), (133, 21127), (141, 21148), (190, 21295), (211, 21436), (217, 21469), (222, 21502), (228, 21538), (248, 21631), (261, 21691), (265, 21709), (281, 21790), (323, 22018), (331, 22063), (368, 22258), (369, 22264), (371, 22273), (378, 22318), (380, 22333), (408, 22489), (409, 22507), (412, 22516), (432, 22645), (433, 22648), (463, 22858), (465, 22870), (483, 22984), (508, 23200), (517, 23284), (522, 23308), (524, 23317),

Gene: SirHarley_29 Start: 24248, Stop: 26518, Start Num: 145

Candidate Starts for SirHarley_29:

(Start: 145 @24248 has 21 MA's), (176, 24383), (178, 24392), (205, 24566), (206, 24572), (209, 24584), (236, 24737), (239, 24752), (241, 24767), (314, 25148), (316, 25154), (326, 25199), (343, 25286), (364, 25412), (377, 25487), (378, 25493), (385, 25541), (391, 25571), (393, 25595), (422, 25784), (425, 25811), (434, 25859), (443, 25931), (450, 25970), (454, 25991), (455, 26006), (459, 26024), (461, 26054), (475, 26138), (503, 26339), (508, 26381), (527, 26507),

Gene: Slim_20 Start: 17189, Stop: 19726, Start Num: 52

Candidate Starts for Slim_20:

(Start: 52 @17189 has 221 MA's), (59, 17210), (Start: 69 @17231 has 1 MA's), (78, 17270), (104, 17339), (106, 17348), (107, 17351), (111, 17369), (124, 17417), (166, 17570), (169, 17579), (186, 17624), (200, 17723), (201, 17726), (210, 17792), (222, 17867), (223, 17873), (224, 17891), (232, 17915), (233, 17921), (234, 17924), (240, 17957), (242, 17963), (248, 17993), (254, 18014), (259, 18044), (261, 18053), (264, 18068), (265, 18071), (287, 18182), (288, 18185), (289, 18194), (290, 18200), (293, 18215), (294, 18218), (296, 18239), (303, 18269), (306, 18281), (310, 18314), (331, 18425), (332, 18428), (339, 18455), (341, 18461), (348, 18515), (349, 18518), (368, 18620), (370, 18632), (371, 18635), (381, 18701), (386, 18725), (389, 18746), (391, 18755), (400, 18815), (401, 18818), (408, 18854), (409, 18872), (413, 18884), (414, 18893), (419, 18920), (429, 18977), (430, 18989), (432, 19007), (434, 19016), (435, 19028), (439, 19064), (444, 19094), (447, 19103), (448, 19115), (458, 19175), (464, 19229), (473, 19289), (479, 19331), (495, 19466), (499, 19490), (505, 19544), (508, 19592), (514, 19634), (516, 19658), (517, 19661),

Gene: Smooch_61 Start: 37810, Stop: 40320, Start Num: 65

Candidate Starts for Smooch_61:

(Start: 65 @37810 has 28 MA's), (72, 37843), (91, 37912), (92, 37915), (100, 37939), (107, 37963), (114, 37987), (119, 38020), (170, 38227), (173, 38239), (174, 38242), (204, 38389), (205, 38419), (210, 38443), (216, 38473), (217, 38476), (222, 38503), (224, 38527), (233, 38557), (245, 38614), (258, 38674), (259, 38686), (264, 38710), (265, 38713), (271, 38755), (293, 38851), (294, 38854), (331, 39058), (344, 39109), (368, 39253), (378, 39313), (388, 39385), (389, 39388), (405, 39484), (432, 39658), (435, 39679), (449, 39772), (452, 39784), (464, 39874), (477, 39949), (486, 39994), (510, 40195), (515, 40249), (520, 40264),

Gene: SophKB_26 Start: 22283, Stop: 24679, Start Num: 84

Candidate Starts for SophKB_26:

(Start: 84 @22283 has 125 MA's), (133, 22460), (141, 22481), (190, 22628), (211, 22769), (217, 22802), (222, 22835), (228, 22871), (248, 22964), (261, 23024), (265, 23042), (291, 23174), (298, 23219), (323, 23351), (331, 23396), (346, 23456), (364, 23570), (368, 23591), (374, 23630), (378, 23651), (380, 23666), (407, 23816), (408, 23822), (409, 23840), (420, 23894), (432, 23978), (447, 24071), (483, 24317), (508, 24533), (517, 24617), (524, 24650),

Gene: Sotrice96_26 Start: 22239, Stop: 24635, Start Num: 84

Candidate Starts for Sotrice96_26:

(Start: 84 @22239 has 125 MA's), (133, 22416), (141, 22437), (190, 22584), (211, 22725), (217, 22758), (222, 22791), (228, 22827), (248, 22920), (261, 22980), (265, 22998), (281, 23079), (323, 23307), (331, 23352), (368, 23547), (369, 23553), (371, 23562), (378, 23607), (380, 23622), (408, 23778), (409, 23796), (412, 23805), (432, 23934), (433, 23937), (463, 24147), (465, 24159), (483, 24273), (508, 24489), (517, 24573), (522, 24597), (524, 24606),

Gene: Soul22_24 Start: 17091, Stop: 19640, Start Num: 44

Candidate Starts for Soul22_24:

(41, 17082), (Start: 44 @17091 has 7 MA's), (Start: 52 @17151 has 221 MA's), (64, 17187), (97, 17286), (138, 17427), (153, 17466), (161, 17481), (169, 17517), (172, 17523), (173, 17526), (179, 17544), (188, 17568), (192, 17592), (193, 17595), (215, 17739), (218, 17748), (222, 17772), (224, 17796), (232, 17820), (233, 17826), (238, 17847), (242, 17868), (248, 17898), (256, 17928), (259, 17949), (278, 18042), (281, 18057), (284, 18066), (287, 18087), (288, 18090), (295, 18132), (303, 18174), (304, 18177), (306, 18186), (309, 18213), (311, 18222), (318, 18261), (321, 18282), (323, 18285), (330, 18321), (334, 18342), (348, 18420), (349, 18423), (362, 18477), (370, 18537), (383, 18624), (386, 18630), (388, 18648), (389, 18651), (396, 18687), (404, 18741), (407, 18750), (418, 18828), (421, 18846), (425, 18882), (426, 18885), (430, 18903), (431, 18906), (432, 18921), (439, 18978), (441, 18990), (453, 19053), (458, 19086), (467, 19173), (476, 19221), (478, 19245), (482, 19272), (483, 19281), (486, 19320), (492, 19359), (495, 19383), (498, 19404), (508, 19500), (511, 19521), (520, 19584), (524, 19611), (526, 19620),

Gene: Sparkdehlily_18 Start: 17429, Stop: 19966, Start Num: 52

Candidate Starts for Sparkdehlily_18:

(Start: 52 @17429 has 221 MA's), (59, 17450), (Start: 69 @17471 has 1 MA's), (78, 17510), (104, 17579), (106, 17588), (107, 17591), (111, 17609), (124, 17657), (166, 17810), (169, 17819), (186, 17864), (197, 17942), (201, 17966), (210, 18032), (218, 18077), (222, 18107), (223, 18113), (224, 18131), (232, 18155), (234, 18164), (240, 18197), (242, 18203), (248, 18233), (258, 18272), (261, 18293), (264, 18308), (265, 18311), (288, 18425), (289, 18434), (290, 18440), (294, 18458), (296, 18479), (303, 18509), (306, 18521), (310, 18554), (331, 18665), (332, 18668), (339, 18695), (341, 18701), (348, 18755), (349, 18758), (365, 18845), (368, 18860), (371, 18875), (386, 18965), (389, 18986), (391, 18995), (400, 19055), (401, 19058), (408, 19094), (409, 19112), (413, 19124), (414, 19133), (419, 19160), (430, 19229), (432, 19247), (434, 19256), (435, 19268), (439, 19304), (444, 19334), (448, 19355), (453, 19379), (458, 19415), (464, 19469), (479, 19571), (487, 19649), (495, 19706), (499, 19730), (505, 19784), (508, 19832), (514, 19874), (519, 19907), (520, 19910),

Gene: Spartacus_19 Start: 17481, Stop: 20018, Start Num: 52

Candidate Starts for Spartacus_19:

(Start: 52 @17481 has 221 MA's), (86, 17571), (104, 17631), (106, 17640), (107, 17643), (111, 17661), (119, 17694), (124, 17709), (137, 17757), (168, 17868), (169, 17871), (179, 17901), (186, 17916), (197, 17994), (210, 18084), (218, 18129), (222, 18159), (223, 18165), (224, 18183), (232, 18207), (234, 18216), (240, 18249), (242, 18255), (248, 18285), (258, 18324), (259, 18336), (261, 18345), (264, 18360), (265, 18363), (287, 18474), (288, 18477), (289, 18486), (290, 18492), (293, 18507), (294, 18510), (296, 18531), (303, 18561), (306, 18573), (310, 18606), (331, 18717), (332, 18720), (339, 18747), (341, 18753), (348, 18807), (349, 18810), (365, 18897), (368, 18912), (370, 18924), (371, 18927), (381, 18993), (389, 19038), (391, 19047), (400, 19107), (401, 19110), (408, 19146), (409, 19164), (413, 19176), (414, 19185), (419, 19212), (430, 19281), (432, 19299), (434, 19308), (435, 19320), (439, 19356), (444, 19386), (448, 19407), (453, 19431), (458, 19467), (464, 19521), (473, 19581), (479, 19623), (487, 19701), (495, 19758), (499, 19782), (505, 19836), (508, 19884), (514, 19926), (516, 19950), (517, 19953),

Gene: Spikelee_19 Start: 17223, Stop: 19760, Start Num: 52

Candidate Starts for Spikelee_19:

(Start: 52 @17223 has 221 MA's), (59, 17244), (Start: 69 @17265 has 1 MA's), (78, 17304), (104, 17373), (106, 17382), (107, 17385), (111, 17403), (124, 17451), (166, 17604), (169, 17613), (186, 17658), (200, 17757), (201, 17760), (210, 17826), (222, 17901), (223, 17907), (224, 17925), (232, 17949), (233, 17955), (234, 17958), (240, 17991), (242, 17997), (248, 18027), (254, 18048), (259, 18078), (261, 18087), (264, 18102), (265, 18105), (287, 18216), (288, 18219), (289, 18228), (290, 18234), (293, 18249), (294, 18252), (296, 18273), (303, 18303), (306, 18315), (310, 18348), (331, 18459), (332, 18462), (339, 18489), (341, 18495), (348, 18549), (349, 18552), (365, 18639), (368, 18654), (370, 18666), (371, 18669), (381, 18735), (386, 18759), (389, 18780), (391, 18789), (400, 18849), (401, 18852), (408, 18888), (409, 18906), (413, 18918), (414, 18927), (419, 18954), (429, 19011), (430, 19023), (432, 19041), (434, 19050), (435, 19062), (439, 19098), (444, 19128), (447, 19137), (448, 19149), (458, 19209), (464, 19263), (473, 19323), (479, 19365), (495, 19500), (499, 19524), (505, 19578), (508, 19626), (514, 19668), (516, 19692), (517, 19695),

Gene: Spoonbill_18 Start: 17404, Stop: 19956, Start Num: 52

Candidate Starts for Spoonbill_18:

(Start: 52 @17404 has 221 MA's), (79, 17485), (104, 17554), (106, 17563), (107, 17566), (111, 17584), (124, 17632), (136, 17677), (168, 17791), (169, 17794), (174, 17806), (180, 17827), (184, 17836), (186, 17839), (193, 17887), (197, 17917), (205, 17983), (211, 18016), (218, 18052), (221, 18076), (233, 18136), (234, 18139), (238, 18157), (252, 18220), (254, 18223), (258, 18241), (261, 18262), (265, 18280), (270, 18307), (274, 18328), (281, 18361), (289, 18403), (290, 18409), (291, 18412), (294, 18427), (297, 18454), (298, 18457), (303, 18478), (306, 18490), (310, 18523), (329, 18616), (348, 18724), (351, 18748), (352, 18754), (358, 18772), (359, 18775), (363, 18799), (368, 18829), (372, 18853), (378, 18889), (379, 18895), (380, 18904), (384, 18931), (394, 18994), (397, 19018), (398, 19033), (407, 19075), (415, 19126), (431, 19222), (432, 19237), (434, 19246), (437, 19270), (447, 19333), (453, 19369), (493, 19675), (499, 19720), (508, 19822),

Gene: Squint_35 Start: 27671, Stop: 30178, Start Num: 52

Candidate Starts for Squint_35:

(Start: 52 @27671 has 221 MA's), (111, 27866), (119, 27902), (124, 27917), (153, 28004), (161, 28019), (184, 28094), (188, 28106), (193, 28133), (207, 28238), (215, 28277), (218, 28286), (222, 28310), (223, 28316), (224, 28334), (230, 28352), (234, 28367), (237, 28376), (238, 28385), (240, 28400), (247, 28427), (248, 28436), (258, 28475), (259, 28487), (261, 28496), (278, 28580), (294, 28661), (298, 28691), (299, 28694), (306, 28724), (309, 28751), (311, 28760), (320, 28811), (321, 28820), (323, 28823), (330, 28859), (334, 28880), (343, 28916), (369, 29069), (378, 29123), (386, 29168), (388, 29186), (389, 29189), (396, 29228), (418, 29375), (420, 29384), (431, 29453), (432, 29468), (458, 29633), (467, 29720), (476, 29768), (483, 29819), (492, 29897), (518, 30119), (520, 30122), (524, 30149),

Gene: StAnnes_18 Start: 17447, Stop: 19984, Start Num: 52

Candidate Starts for StAnnes_18:

(49, 17435), (Start: 52 @17447 has 221 MA's), (59, 17468), (Start: 69 @17489 has 1 MA's), (78, 17528), (106, 17606), (107, 17609), (111, 17627), (119, 17660), (124, 17675), (137, 17723), (168, 17834), (169, 17837), (179, 17867), (184, 17879), (186, 17882), (197, 17960), (201, 17984), (210, 18050), (218, 18095), (222, 18125), (223, 18131), (224, 18149), (232, 18173), (234, 18182), (240, 18215), (242, 18221), (248, 18251), (259, 18302), (261, 18311), (264, 18326), (265, 18329), (287, 18440), (288, 18443), (289, 18452), (290, 18458), (293, 18473), (294, 18476), (296, 18497), (303, 18527), (306, 18539), (310, 18572), (331, 18683), (332, 18686), (339, 18713), (341, 18719), (348, 18773), (349, 18776), (365, 18863), (368, 18878), (370, 18890), (371, 18893), (381, 18959), (386, 18983), (389, 19004), (391, 19013), (400, 19073), (401, 19076), (408, 19112), (409, 19130), (413, 19142), (414, 19151), (419, 19178), (430, 19247), (432, 19265), (434, 19274), (435, 19286), (439, 19322), (444, 19352), (448, 19373), (453, 19397), (458, 19433), (464, 19487), (473, 19547), (479,

19589), (487, 19667), (495, 19724), (499, 19748), (505, 19802), (508, 19850), (514, 19892), (516, 19916), (517, 19919),

Gene: Stank_29 Start: 22790, Stop: 25186, Start Num: 84

Candidate Starts for Stank_29:

(Start: 84 @22790 has 125 MA's), (133, 22967), (141, 22988), (190, 23135), (211, 23276), (217, 23309), (222, 23342), (228, 23378), (248, 23471), (261, 23531), (265, 23549), (291, 23681), (298, 23726), (323, 23858), (331, 23903), (346, 23963), (364, 24077), (368, 24098), (374, 24137), (378, 24158), (380, 24173), (407, 24323), (408, 24329), (409, 24347), (420, 24401), (432, 24485), (447, 24578), (483, 24824), (508, 25040), (517, 25124), (524, 25157),

Gene: Stap_19 Start: 17430, Stop: 19967, Start Num: 52

Candidate Starts for Stap_19:

(Start: 52 @17430 has 221 MA's), (59, 17451), (Start: 69 @17472 has 1 MA's), (78, 17511), (104, 17580), (106, 17589), (107, 17592), (111, 17610), (119, 17643), (124, 17658), (137, 17706), (166, 17811), (168, 17817), (169, 17820), (184, 17862), (186, 17865), (201, 17967), (210, 18033), (218, 18078), (222, 18108), (223, 18114), (224, 18132), (232, 18156), (234, 18165), (240, 18198), (242, 18204), (248, 18234), (258, 18273), (259, 18285), (261, 18294), (264, 18309), (265, 18312), (287, 18423), (288, 18426), (289, 18435), (290, 18441), (293, 18456), (294, 18459), (296, 18480), (303, 18510), (306, 18522), (310, 18555), (331, 18666), (332, 18669), (339, 18696), (341, 18702), (348, 18756), (349, 18759), (368, 18861), (370, 18873), (371, 18876), (381, 18942), (386, 18966), (389, 18987), (391, 18996), (400, 19056), (401, 19059), (408, 19095), (409, 19113), (413, 19125), (414, 19134), (419, 19161), (430, 19230), (432, 19248), (434, 19257), (435, 19269), (439, 19305), (448, 19356), (451, 19374), (458, 19416), (464, 19470), (473, 19530), (479, 19572), (487, 19650), (495, 19707), (499, 19731), (505, 19785), (508, 19833), (516, 19899), (517, 19902),

Gene: Starcevich_19 Start: 17191, Stop: 19728, Start Num: 52

Candidate Starts for Starcevich_19:

(Start: 52 @17191 has 221 MA's), (59, 17212), (Start: 69 @17233 has 1 MA's), (78, 17272), (104, 17341), (106, 17350), (107, 17353), (111, 17371), (124, 17419), (166, 17572), (169, 17581), (186, 17626), (200, 17725), (201, 17728), (210, 17794), (222, 17869), (223, 17875), (224, 17893), (232, 17917), (233, 17923), (234, 17926), (240, 17959), (242, 17965), (248, 17995), (254, 18016), (259, 18046), (261, 18055), (264, 18070), (265, 18073), (287, 18184), (288, 18187), (289, 18196), (290, 18202), (293, 18217), (294, 18220), (296, 18241), (303, 18271), (306, 18283), (310, 18316), (331, 18427), (332, 18430), (339, 18457), (341, 18463), (348, 18517), (349, 18520), (368, 18622), (370, 18634), (371, 18637), (381, 18703), (386, 18727), (389, 18748), (391, 18757), (400, 18817), (401, 18820), (408, 18856), (409, 18874), (413, 18886), (414, 18895), (419, 18922), (429, 18979), (430, 18991), (432, 19009), (434, 19018), (435, 19030), (439, 19066), (444, 19096), (447, 19105), (448, 19117), (458, 19177), (464, 19231), (473, 19291), (479, 19333), (495, 19468), (499, 19492), (505, 19546), (508, 19594), (514, 19636), (516, 19660), (517, 19663),

Gene: Stark_27 Start: 22042, Stop: 24438, Start Num: 84

Candidate Starts for Stark_27:

(Start: 84 @22042 has 125 MA's), (133, 22219), (141, 22240), (190, 22387), (217, 22561), (222, 22594), (228, 22630), (248, 22723), (261, 22783), (265, 22801), (291, 22933), (298, 22978), (323, 23110), (331, 23155), (346, 23215), (364, 23329), (368, 23350), (374, 23389), (378, 23410), (380, 23425), (407, 23575), (408, 23581), (409, 23599), (420, 23653), (432, 23737), (447, 23830), (483, 24076), (508, 24292), (517, 24376), (524, 24409),

Gene: StellaBean_26 Start: 22283, Stop: 24679, Start Num: 84

Candidate Starts for StellaBean_26:

(Start: 84 @22283 has 125 MA's), (133, 22460), (141, 22481), (190, 22628), (211, 22769), (217, 22802), (222, 22835), (228, 22871), (248, 22964), (261, 23024), (265, 23042), (291, 23174), (298,

23219), (323, 23351), (331, 23396), (346, 23456), (364, 23570), (368, 23591), (374, 23630), (378, 23651), (380, 23666), (407, 23816), (408, 23822), (409, 23840), (420, 23894), (432, 23978), (447, 24071), (483, 24317), (508, 24533), (517, 24617), (524, 24650),

Gene: StolenFromERC_28 Start: 22274, Stop: 24670, Start Num: 84

Candidate Starts for StolenFromERC_28:

(Start: 84 @22274 has 125 MA's), (133, 22451), (141, 22472), (190, 22619), (217, 22793), (222, 22826), (228, 22862), (248, 22955), (261, 23015), (265, 23033), (291, 23165), (298, 23210), (323, 23342), (331, 23387), (346, 23447), (364, 23561), (368, 23582), (374, 23621), (378, 23642), (380, 23657), (407, 23807), (408, 23813), (409, 23831), (420, 23885), (432, 23969), (447, 24062), (483, 24308), (508, 24524), (517, 24608), (524, 24641),

Gene: StormChicken_26 Start: 22458, Stop: 24854, Start Num: 84

Candidate Starts for StormChicken_26:

(Start: 84 @22458 has 125 MA's), (133, 22635), (141, 22656), (190, 22803), (211, 22944), (217, 22977), (222, 23010), (228, 23046), (248, 23139), (261, 23199), (265, 23217), (291, 23349), (298, 23394), (323, 23526), (331, 23571), (346, 23631), (364, 23745), (368, 23766), (374, 23805), (378, 23826), (380, 23841), (407, 23991), (408, 23997), (409, 24015), (420, 24069), (432, 24153), (447, 24246), (483, 24492), (508, 24708), (517, 24792), (524, 24825),

Gene: Strokeseat_18 Start: 17495, Stop: 20032, Start Num: 52

Candidate Starts for Strokeseat_18:

(Start: 52 @17495 has 221 MA's), (59, 17516), (Start: 69 @17537 has 1 MA's), (78, 17576), (104, 17645), (106, 17654), (107, 17657), (111, 17675), (124, 17723), (168, 17882), (169, 17885), (184, 17927), (186, 17930), (197, 18008), (200, 18029), (201, 18032), (210, 18098), (222, 18173), (223, 18179), (232, 18221), (233, 18227), (234, 18230), (240, 18263), (242, 18269), (248, 18299), (254, 18320), (259, 18350), (261, 18359), (284, 18467), (286, 18479), (287, 18488), (288, 18491), (289, 18500), (290, 18506), (293, 18521), (294, 18524), (296, 18545), (306, 18587), (310, 18620), (339, 18761), (341, 18767), (348, 18821), (349, 18824), (352, 18851), (368, 18926), (370, 18938), (371, 18941), (381, 19007), (386, 19031), (389, 19052), (391, 19061), (400, 19121), (401, 19124), (408, 19160), (409, 19178), (414, 19199), (419, 19226), (430, 19295), (432, 19313), (434, 19322), (435, 19334), (439, 19370), (444, 19400), (458, 19481), (473, 19595), (479, 19637), (495, 19772), (499, 19796), (505, 19850), (516, 19964), (517, 19967),

Gene: SuperGrey_19 Start: 18074, Stop: 20611, Start Num: 52

Candidate Starts for SuperGrey_19:

(Start: 52 @18074 has 221 MA's), (59, 18095), (Start: 69 @18116 has 1 MA's), (78, 18155), (104, 18224), (106, 18233), (107, 18236), (111, 18254), (124, 18302), (168, 18461), (169, 18464), (186, 18509), (200, 18608), (201, 18611), (210, 18677), (222, 18752), (223, 18758), (224, 18776), (232, 18800), (233, 18806), (234, 18809), (240, 18842), (242, 18848), (248, 18878), (254, 18899), (259, 18929), (261, 18938), (264, 18953), (265, 18956), (287, 19067), (288, 19070), (289, 19079), (290, 19085), (293, 19100), (294, 19103), (296, 19124), (303, 19154), (306, 19166), (310, 19199), (331, 19310), (332, 19313), (339, 19340), (341, 19346), (348, 19400), (349, 19403), (365, 19490), (368, 19505), (370, 19517), (371, 19520), (381, 19586), (386, 19610), (389, 19631), (391, 19640), (400, 19700), (401, 19703), (408, 19739), (409, 19757), (413, 19769), (414, 19778), (419, 19805), (429, 19862), (430, 19874), (432, 19892), (434, 19901), (435, 19913), (439, 19949), (444, 19979), (447, 19988), (448, 20000), (458, 20060), (464, 20114), (473, 20174), (479, 20216), (487, 20294), (495, 20351), (499, 20375), (505, 20429), (508, 20477), (514, 20519), (516, 20543), (517, 20546),

Gene: Superphikiman_36 Start: 27736, Stop: 30243, Start Num: 52

Candidate Starts for Superphikiman_36:

(Start: 52 @27736 has 221 MA's), (111, 27931), (119, 27967), (124, 27982), (153, 28069), (161, 28084), (184, 28159), (188, 28171), (193, 28198), (207, 28303), (215, 28342), (218, 28351), (222,

28375), (223, 28381), (224, 28399), (230, 28417), (234, 28432), (237, 28441), (238, 28450), (240, 28465), (247, 28492), (248, 28501), (258, 28540), (259, 28552), (261, 28561), (278, 28645), (294, 28726), (298, 28756), (299, 28759), (306, 28789), (309, 28816), (311, 28825), (320, 28876), (321, 28885), (323, 28888), (330, 28924), (334, 28945), (343, 28981), (369, 29134), (378, 29188), (386, 29233), (388, 29251), (389, 29254), (396, 29293), (418, 29440), (420, 29449), (431, 29518), (432, 29533), (458, 29698), (467, 29785), (476, 29833), (483, 29884), (492, 29962), (518, 30184), (520, 30187), (524, 30214),

Gene: SwagPiggett_18 Start: 17406, Stop: 19943, Start Num: 52

Candidate Starts for SwagPiggett_18:

(Start: 52 @17406 has 221 MA's), (59, 17427), (Start: 69 @17448 has 1 MA's), (78, 17487), (104, 17556), (106, 17565), (107, 17568), (111, 17586), (124, 17634), (166, 17787), (169, 17796), (186, 17841), (197, 17919), (201, 17943), (210, 18009), (218, 18054), (222, 18084), (223, 18090), (224, 18108), (232, 18132), (234, 18141), (240, 18174), (242, 18180), (248, 18210), (258, 18249), (261, 18270), (264, 18285), (265, 18288), (288, 18402), (289, 18411), (290, 18417), (294, 18435), (296, 18456), (303, 18486), (306, 18498), (310, 18531), (331, 18642), (332, 18645), (339, 18672), (341, 18678), (348, 18732), (349, 18735), (365, 18822), (368, 18837), (371, 18852), (386, 18942), (389, 18963), (391, 18972), (400, 19032), (401, 19035), (408, 19071), (409, 19089), (413, 19101), (414, 19110), (419, 19137), (430, 19206), (432, 19224), (434, 19233), (435, 19245), (439, 19281), (444, 19311), (448, 19332), (453, 19356), (458, 19392), (464, 19446), (479, 19548), (487, 19626), (495, 19683), (499, 19707), (505, 19761), (508, 19809), (514, 19851), (519, 19884), (520, 19887),

Gene: TBrady12_28 Start: 22274, Stop: 24670, Start Num: 84

Candidate Starts for TBrady12_28:

(Start: 84 @22274 has 125 MA's), (133, 22451), (141, 22472), (190, 22619), (211, 22760), (217, 22793), (222, 22826), (228, 22862), (248, 22955), (261, 23015), (265, 23033), (291, 23165), (298, 23210), (323, 23342), (331, 23387), (346, 23447), (364, 23561), (368, 23582), (374, 23621), (378, 23642), (380, 23657), (407, 23807), (408, 23813), (409, 23831), (420, 23885), (432, 23969), (447, 24062), (483, 24308), (508, 24524), (517, 24608), (524, 24641),

Gene: TDanisky_18 Start: 17429, Stop: 19966, Start Num: 52

Candidate Starts for TDanisky_18:

(Start: 52 @17429 has 221 MA's), (59, 17450), (Start: 69 @17471 has 1 MA's), (78, 17510), (104, 17579), (106, 17588), (107, 17591), (111, 17609), (124, 17657), (166, 17810), (169, 17819), (186, 17864), (197, 17942), (201, 17966), (210, 18032), (218, 18077), (222, 18107), (223, 18113), (224, 18131), (232, 18155), (234, 18164), (240, 18197), (242, 18203), (248, 18233), (258, 18272), (261, 18293), (264, 18308), (265, 18311), (288, 18425), (289, 18434), (290, 18440), (294, 18458), (296, 18479), (303, 18509), (306, 18521), (310, 18554), (331, 18665), (332, 18668), (339, 18695), (341, 18701), (348, 18755), (349, 18758), (365, 18845), (368, 18860), (371, 18875), (386, 18965), (389, 18986), (391, 18995), (400, 19055), (401, 19058), (408, 19094), (409, 19112), (413, 19124), (414, 19133), (419, 19160), (430, 19229), (432, 19247), (434, 19256), (435, 19268), (439, 19304), (444, 19334), (448, 19355), (453, 19379), (458, 19415), (464, 19469), (479, 19571), (487, 19649), (495, 19706), (499, 19730), (505, 19784), (508, 19832), (514, 19874), (519, 19907), (520, 19910),

Gene: Taj_18 Start: 17430, Stop: 19967, Start Num: 52

Candidate Starts for Taj_18:

(49, 17418), (Start: 52 @17430 has 221 MA's), (59, 17451), (Start: 69 @17472 has 1 MA's), (78, 17511), (104, 17580), (106, 17589), (107, 17592), (111, 17610), (119, 17643), (124, 17658), (137, 17706), (166, 17811), (168, 17817), (169, 17820), (184, 17862), (186, 17865), (197, 17943), (210, 18033), (218, 18078), (222, 18108), (223, 18114), (224, 18132), (232, 18156), (234, 18165), (240, 18198), (242, 18204), (248, 18234), (258, 18273), (259, 18285), (261, 18294), (264, 18309), (265, 18312), (287, 18423), (288, 18426), (289, 18435), (290, 18441), (293, 18456), (294, 18459), (296, 18480), (303, 18510), (306, 18522), (310, 18555), (331, 18666), (332, 18669), (339, 18696), (341,

18702), (348, 18756), (349, 18759), (365, 18846), (368, 18861), (370, 18873), (371, 18876), (381, 18942), (386, 18966), (389, 18987), (391, 18996), (400, 19056), (401, 19059), (408, 19095), (409, 19113), (413, 19125), (414, 19134), (419, 19161), (430, 19230), (432, 19248), (434, 19257), (435, 19269), (439, 19305), (444, 19335), (448, 19356), (453, 19380), (458, 19416), (464, 19470), (473, 19530), (479, 19572), (495, 19707), (499, 19731), (505, 19785), (508, 19833), (514, 19875), (516, 19899), (517, 19902),

Gene: Tarkin_28 Start: 23273, Stop: 25669, Start Num: 84

Candidate Starts for Tarkin_28:

(Start: 84 @23273 has 125 MA's), (133, 23450), (141, 23471), (190, 23618), (211, 23759), (217, 23792), (222, 23825), (228, 23861), (248, 23954), (261, 24014), (265, 24032), (291, 24164), (298, 24209), (323, 24341), (331, 24386), (346, 24446), (364, 24560), (368, 24581), (374, 24620), (378, 24641), (380, 24656), (407, 24806), (408, 24812), (409, 24830), (420, 24884), (432, 24968), (447, 25061), (483, 25307), (508, 25523), (517, 25607), (524, 25640),

Gene: Tchotchke_19 Start: 17331, Stop: 19868, Start Num: 52

Candidate Starts for Tchotchke_19:

(Start: 52 @17331 has 221 MA's), (59, 17352), (Start: 69 @17373 has 1 MA's), (78, 17412), (104, 17481), (106, 17490), (107, 17493), (111, 17511), (124, 17559), (166, 17712), (169, 17721), (186, 17766), (200, 17865), (201, 17868), (210, 17934), (222, 18009), (223, 18015), (224, 18033), (232, 18057), (233, 18063), (234, 18066), (240, 18099), (242, 18105), (248, 18135), (254, 18156), (259, 18186), (261, 18195), (264, 18210), (265, 18213), (287, 18324), (288, 18327), (289, 18336), (290, 18342), (293, 18357), (294, 18360), (296, 18381), (303, 18411), (306, 18423), (310, 18456), (331, 18567), (332, 18570), (339, 18597), (341, 18603), (348, 18657), (349, 18660), (368, 18762), (370, 18774), (371, 18777), (381, 18843), (386, 18867), (389, 18888), (391, 18897), (400, 18957), (401, 18960), (408, 18996), (409, 19014), (413, 19026), (414, 19035), (419, 19062), (429, 19119), (430, 19131), (432, 19149), (434, 19158), (435, 19170), (439, 19206), (444, 19236), (447, 19245), (448, 19257), (458, 19317), (464, 19371), (473, 19431), (479, 19473), (495, 19608), (499, 19632), (505, 19686), (508, 19734), (514, 19776), (516, 19800), (517, 19803),

Gene: TeardropMSU_25 Start: 22191, Stop: 24587, Start Num: 84

Candidate Starts for TeardropMSU_25:

(Start: 84 @22191 has 125 MA's), (133, 22368), (141, 22389), (190, 22536), (211, 22677), (217, 22710), (222, 22743), (228, 22779), (248, 22872), (261, 22932), (265, 22950), (281, 23031), (323, 23259), (331, 23304), (368, 23499), (369, 23505), (371, 23514), (378, 23559), (380, 23574), (408, 23730), (409, 23748), (412, 23757), (421, 23811), (432, 23886), (433, 23889), (463, 24099), (465, 24111), (483, 24225), (508, 24441), (517, 24525), (522, 24549), (524, 24558),

Gene: Teaspoon_27 Start: 22237, Stop: 24633, Start Num: 84

Candidate Starts for Teaspoon_27:

(Start: 84 @22237 has 125 MA's), (133, 22414), (141, 22435), (190, 22582), (211, 22723), (217, 22756), (222, 22789), (228, 22825), (248, 22918), (261, 22978), (265, 22996), (291, 23128), (298, 23173), (323, 23305), (331, 23350), (346, 23410), (364, 23524), (368, 23545), (374, 23584), (378, 23605), (380, 23620), (407, 23770), (408, 23776), (409, 23794), (420, 23848), (432, 23932), (447, 24025), (483, 24271), (508, 24487), (517, 24571), (524, 24604),

Gene: TelAviv_55 Start: 36063, Stop: 38573, Start Num: 65

Candidate Starts for TelAviv_55:

(Start: 65 @36063 has 28 MA's), (72, 36096), (91, 36165), (92, 36168), (100, 36192), (107, 36216), (114, 36240), (119, 36273), (170, 36480), (173, 36492), (174, 36495), (204, 36642), (205, 36672), (210, 36696), (216, 36726), (217, 36729), (222, 36756), (224, 36780), (233, 36810), (245, 36867), (249, 36891), (258, 36927), (259, 36939), (264, 36963), (265, 36966), (271, 37008), (293, 37104), (294, 37107), (344, 37362), (368, 37506), (378, 37566), (388, 37638), (389, 37641), (405, 37737),

(432, 37911), (435, 37932), (449, 38025), (452, 38037), (464, 38127), (477, 38202), (486, 38247), (510, 38448), (515, 38502), (520, 38517),

Gene: Terminus_26 Start: 22371, Stop: 24767, Start Num: 84

Candidate Starts for Terminus_26:

(Start: 84 @22371 has 125 MA's), (133, 22548), (141, 22569), (190, 22716), (211, 22857), (217, 22890), (222, 22923), (228, 22959), (248, 23052), (261, 23112), (265, 23130), (291, 23262), (298, 23307), (323, 23439), (331, 23484), (346, 23544), (364, 23658), (368, 23679), (374, 23718), (378, 23739), (380, 23754), (407, 23904), (408, 23910), (409, 23928), (420, 23982), (432, 24066), (447, 24159), (483, 24405), (508, 24621), (517, 24705), (524, 24738),

Gene: ThetaBob_20 Start: 17751, Stop: 20231, Start Num: 54

Candidate Starts for ThetaBob_20:

(Start: 54 @17751 has 3 MA's), (58, 17757), (59, 17763), (Start: 84 @17826 has 125 MA's), (85, 17829), (90, 17856), (109, 17910), (111, 17919), (119, 17952), (128, 17985), (138, 18018), (153, 18057), (161, 18072), (169, 18108), (172, 18114), (173, 18117), (179, 18135), (184, 18147), (188, 18159), (192, 18183), (193, 18186), (215, 18330), (218, 18339), (222, 18363), (224, 18387), (232, 18411), (233, 18417), (238, 18438), (239, 18441), (242, 18459), (248, 18489), (256, 18519), (259, 18540), (278, 18633), (281, 18648), (284, 18657), (287, 18678), (288, 18681), (295, 18723), (303, 18765), (304, 18768), (306, 18777), (309, 18804), (311, 18813), (318, 18852), (321, 18873), (323, 18876), (330, 18912), (334, 18933), (348, 19011), (349, 19014), (362, 19068), (370, 19128), (386, 19221), (389, 19242), (396, 19278), (404, 19332), (407, 19341), (418, 19419), (421, 19437), (425, 19473), (426, 19476), (430, 19494), (431, 19497), (432, 19512), (435, 19533), (439, 19569), (441, 19581), (453, 19644), (458, 19677), (467, 19764), (476, 19812), (478, 19836), (482, 19863), (483, 19872), (486, 19911), (492, 19950), (495, 19974), (498, 19995), (508, 20091), (511, 20112), (520, 20175), (524, 20202), (526, 20211),

Gene: Thimble_26 Start: 21237, Stop: 23633, Start Num: 84

Candidate Starts for Thimble_26:

(Start: 84 @21237 has 125 MA's), (133, 21414), (141, 21435), (190, 21582), (211, 21723), (217, 21756), (222, 21789), (228, 21825), (248, 21918), (261, 21978), (265, 21996), (291, 22128), (298, 22173), (323, 22305), (331, 22350), (346, 22410), (364, 22524), (368, 22545), (374, 22584), (378, 22605), (380, 22620), (407, 22770), (408, 22776), (409, 22794), (420, 22848), (432, 22932), (447, 23025), (483, 23271), (508, 23487), (517, 23571), (524, 23604),

Gene: Thoth_30 Start: 24313, Stop: 26583, Start Num: 145

Candidate Starts for Thoth_30:

(Start: 145 @24313 has 21 MA's), (176, 24448), (178, 24457), (205, 24631), (206, 24637), (209, 24649), (236, 24802), (239, 24817), (241, 24832), (314, 25213), (316, 25219), (326, 25264), (343, 25351), (377, 25552), (378, 25558), (385, 25606), (391, 25636), (393, 25660), (422, 25849), (425, 25876), (434, 25924), (443, 25996), (450, 26035), (454, 26056), (455, 26071), (459, 26089), (461, 26119), (475, 26203), (503, 26404), (508, 26446), (527, 26572),

Gene: Thresher_27 Start: 23038, Stop: 25434, Start Num: 84

Candidate Starts for Thresher_27:

(Start: 84 @23038 has 125 MA's), (133, 23215), (141, 23236), (190, 23383), (217, 23557), (222, 23590), (228, 23626), (248, 23719), (261, 23779), (265, 23797), (291, 23929), (298, 23974), (323, 24106), (331, 24151), (364, 24325), (368, 24346), (374, 24385), (378, 24406), (380, 24421), (407, 24571), (408, 24577), (409, 24595), (420, 24649), (432, 24733), (447, 24826), (483, 25072), (508, 25288), (517, 25372), (524, 25405),

Gene: Thumb_29 Start: 25682, Stop: 28525, Start Num: 22

Candidate Starts for Thumb_29:

(Start: 22 @25682 has 8 MA's), (38, 25814), (40, 25826), (43, 25835), (Start: 54 @25904 has 3 MA's), (73, 25970), (83, 25991), (93, 26039), (106, 26081), (113, 26105), (118, 26138), (127, 26174), (131, 26186), (157, 26279), (169, 26336), (181, 26375), (211, 26570), (216, 26600), (223, 26642), (254, 26783), (258, 26801), (271, 26882), (281, 26921), (286, 26942), (310, 27080), (317, 27119), (349, 27284), (363, 27356), (370, 27398), (372, 27410), (388, 27509), (445, 27872), (489, 28142), (493, 28175), (496, 28199), (508, 28319), (518, 28397), (529, 28484), (530, 28499), (531, 28505),

Gene: Tomaszewski_25 Start: 21884, Stop: 24280, Start Num: 84

Candidate Starts for Tomaszewski_25:

(Start: 84 @21884 has 125 MA's), (133, 22061), (141, 22082), (190, 22229), (211, 22370), (217, 22403), (222, 22436), (228, 22472), (248, 22565), (261, 22625), (265, 22643), (291, 22775), (298, 22820), (323, 22952), (331, 22997), (364, 23171), (368, 23192), (374, 23231), (378, 23252), (380, 23267), (408, 23423), (409, 23441), (420, 23495), (432, 23579), (447, 23672), (483, 23918), (508, 24134), (517, 24218), (524, 24251),

Gene: TootsiePop_19 Start: 17273, Stop: 19798, Start Num: 52

Candidate Starts for TootsiePop_19:

(Start: 52 @17273 has 221 MA's), (59, 17294), (Start: 69 @17315 has 1 MA's), (78, 17354), (104, 17423), (106, 17432), (107, 17435), (111, 17453), (119, 17486), (124, 17501), (137, 17549), (168, 17660), (169, 17663), (186, 17708), (197, 17786), (201, 17810), (210, 17876), (218, 17921), (222, 17951), (223, 17957), (224, 17975), (232, 17999), (234, 18008), (240, 18041), (242, 18047), (248, 18077), (258, 18116), (259, 18128), (261, 18137), (264, 18152), (265, 18155), (294, 18302), (303, 18353), (322, 18464), (332, 18515), (338, 18539), (352, 18632), (363, 18677), (364, 18686), (368, 18707), (370, 18719), (371, 18722), (378, 18767), (386, 18812), (388, 18830), (389, 18833), (397, 18884), (407, 18935), (408, 18941), (409, 18959), (413, 18971), (414, 18980), (420, 19013), (432, 19094), (441, 19163), (447, 19190), (450, 19217), (459, 19268), (464, 19316), (498, 19559), (508, 19664), (511, 19685), (519, 19739), (523, 19763),

Gene: Tootsieroll_19 Start: 17239, Stop: 19776, Start Num: 52

Candidate Starts for Tootsieroll_19:

(49, 17227), (Start: 52 @17239 has 221 MA's), (59, 17260), (Start: 69 @17281 has 1 MA's), (78, 17320), (104, 17389), (106, 17398), (107, 17401), (111, 17419), (119, 17452), (124, 17467), (137, 17515), (166, 17620), (168, 17626), (169, 17629), (184, 17671), (186, 17674), (201, 17776), (210, 17842), (218, 17887), (222, 17917), (223, 17923), (224, 17941), (232, 17965), (234, 17974), (240, 18007), (242, 18013), (248, 18043), (259, 18094), (261, 18103), (284, 18211), (286, 18223), (287, 18232), (288, 18235), (290, 18250), (293, 18265), (294, 18268), (296, 18289), (303, 18319), (306, 18331), (310, 18364), (331, 18475), (332, 18478), (339, 18505), (341, 18511), (348, 18565), (349, 18568), (352, 18595), (368, 18670), (370, 18682), (371, 18685), (381, 18751), (384, 18772), (386, 18775), (389, 18796), (391, 18805), (400, 18865), (401, 18868), (407, 18898), (409, 18922), (413, 18934), (414, 18943), (430, 19039), (432, 19057), (434, 19066), (435, 19078), (444, 19144), (447, 19153), (448, 19165), (453, 19189), (458, 19225), (479, 19381), (495, 19516), (499, 19540), (505, 19594), (511, 19663), (516, 19708), (517, 19711),

Gene: Toron_20 Start: 17872, Stop: 20292, Start Num: 101

Candidate Starts for Toron_20:

(101, 17872), (103, 17878), (105, 17884), (120, 17947), (129, 17971), (130, 17974), (146, 18037), (175, 18145), (177, 18154), (186, 18175), (187, 18184), (200, 18274), (205, 18319), (215, 18379), (234, 18475), (246, 18532), (252, 18556), (262, 18604), (264, 18613), (265, 18616), (274, 18664), (284, 18706), (288, 18730), (289, 18739), (290, 18745), (294, 18763), (296, 18784), (299, 18796), (303, 18814), (306, 18826), (310, 18859), (321, 18922), (323, 18925), (327, 18940), (329, 18952), (348, 19060), (351, 19084), (359, 19111), (362, 19117), (368, 19165), (372, 19189), (378, 19225), (379, 19231), (380, 19240), (397, 19354), (398, 19369), (413, 19447), (431, 19558), (432, 19573), (434, 19582), (447, 19669), (453, 19705), (458, 19741), (464, 19795), (495, 20032), (499, 20056),

(511, 20179), (516, 20224), (523, 20257),

Gene: Totinger_19 Start: 17189, Stop: 19726, Start Num: 52

Candidate Starts for Totinger_19:

(Start: 52 @17189 has 221 MA's), (59, 17210), (Start: 69 @17231 has 1 MA's), (78, 17270), (104, 17339), (106, 17348), (107, 17351), (111, 17369), (124, 17417), (166, 17570), (169, 17579), (186, 17624), (200, 17723), (201, 17726), (210, 17792), (222, 17867), (223, 17873), (224, 17891), (232, 17915), (233, 17921), (234, 17924), (240, 17957), (242, 17963), (248, 17993), (254, 18014), (259, 18044), (261, 18053), (264, 18068), (265, 18071), (287, 18182), (288, 18185), (289, 18194), (290, 18200), (293, 18215), (294, 18218), (296, 18239), (303, 18269), (306, 18281), (310, 18314), (331, 18425), (332, 18428), (339, 18455), (341, 18461), (348, 18515), (349, 18518), (368, 18620), (370, 18632), (371, 18635), (381, 18701), (386, 18725), (389, 18746), (391, 18755), (400, 18815), (401, 18818), (408, 18854), (409, 18872), (413, 18884), (414, 18893), (419, 18920), (429, 18977), (430, 18989), (432, 19007), (434, 19016), (435, 19028), (439, 19064), (444, 19094), (447, 19103), (448, 19115), (458, 19175), (464, 19229), (473, 19289), (479, 19331), (495, 19466), (499, 19490), (505, 19544), (508, 19592), (514, 19634), (516, 19658), (517, 19661),

Gene: Toto_26 Start: 22284, Stop: 24680, Start Num: 84

Candidate Starts for Toto_26:

(Start: 84 @22284 has 125 MA's), (133, 22461), (141, 22482), (190, 22629), (211, 22770), (217, 22803), (222, 22836), (228, 22872), (248, 22965), (261, 23025), (265, 23043), (295, 23199), (298, 23220), (320, 23340), (323, 23352), (331, 23397), (368, 23592), (371, 23607), (378, 23652), (380, 23667), (408, 23823), (409, 23841), (412, 23850), (432, 23979), (433, 23982), (463, 24192), (465, 24204), (483, 24318), (508, 24534), (517, 24618), (522, 24642), (524, 24651),

Gene: Traaww1_24 Start: 21929, Stop: 24325, Start Num: 84

Candidate Starts for Traaww1_24:

(Start: 84 @21929 has 125 MA's), (133, 22106), (141, 22127), (190, 22274), (211, 22415), (217, 22448), (222, 22481), (228, 22517), (248, 22610), (261, 22670), (265, 22688), (281, 22769), (323, 22997), (331, 23042), (368, 23237), (369, 23243), (371, 23252), (378, 23297), (380, 23312), (408, 23468), (409, 23486), (412, 23495), (421, 23549), (432, 23624), (433, 23627), (463, 23837), (465, 23849), (483, 23963), (508, 24179), (517, 24263), (522, 24287), (524, 24296),

Gene: Troll4_30 Start: 24317, Stop: 26587, Start Num: 145

Candidate Starts for Troll4_30:

(Start: 145 @24317 has 21 MA's), (176, 24452), (178, 24461), (205, 24635), (206, 24641), (209, 24653), (236, 24806), (239, 24821), (241, 24836), (314, 25217), (316, 25223), (326, 25268), (343, 25355), (377, 25556), (378, 25562), (385, 25610), (391, 25640), (393, 25664), (422, 25853), (425, 25880), (434, 25928), (443, 26000), (450, 26039), (454, 26060), (455, 26075), (459, 26093), (461, 26123), (475, 26207), (503, 26408), (508, 26450), (527, 26576),

Gene: Tuco_27 Start: 22799, Stop: 25195, Start Num: 84

Candidate Starts for Tuco_27:

(Start: 84 @22799 has 125 MA's), (133, 22976), (141, 22997), (190, 23144), (211, 23285), (217, 23318), (222, 23351), (228, 23387), (248, 23480), (261, 23540), (265, 23558), (281, 23639), (323, 23867), (331, 23912), (368, 24107), (369, 24113), (371, 24122), (378, 24167), (380, 24182), (408, 24338), (409, 24356), (412, 24365), (421, 24419), (432, 24494), (433, 24497), (463, 24707), (465, 24719), (483, 24833), (508, 25049), (517, 25133), (522, 25157), (524, 25166),

Gene: Tweety_18 Start: 17451, Stop: 19988, Start Num: 52

Candidate Starts for Tweety_18:

(49, 17439), (Start: 52 @17451 has 221 MA's), (59, 17472), (Start: 69 @17493 has 1 MA's), (78, 17532), (104, 17601), (106, 17610), (107, 17613), (111, 17631), (119, 17664), (124, 17679), (137,

17727), (168, 17838), (169, 17841), (179, 17871), (186, 17886), (197, 17964), (201, 17988), (210, 18054), (218, 18099), (222, 18129), (223, 18135), (224, 18153), (232, 18177), (234, 18186), (240, 18219), (242, 18225), (248, 18255), (258, 18294), (259, 18306), (261, 18315), (264, 18330), (265, 18333), (287, 18444), (288, 18447), (289, 18456), (290, 18462), (293, 18477), (294, 18480), (296, 18501), (303, 18531), (306, 18543), (310, 18576), (323, 18642), (331, 18687), (332, 18690), (339, 18717), (341, 18723), (348, 18777), (349, 18780), (365, 18867), (368, 18882), (370, 18894), (371, 18897), (381, 18963), (386, 18987), (389, 19008), (391, 19017), (397, 19059), (400, 19077), (401, 19080), (408, 19116), (409, 19134), (413, 19146), (414, 19155), (419, 19182), (430, 19251), (432, 19269), (434, 19278), (435, 19290), (439, 19326), (444, 19356), (448, 19377), (453, 19401), (458, 19437), (464, 19491), (473, 19551), (479, 19593), (495, 19728), (499, 19752), (505, 19806), (508, 19854), (514, 19896), (516, 19920), (517, 19923),

Gene: Ukulele_26 Start: 22042, Stop: 24438, Start Num: 84

Candidate Starts for Ukulele_26:

(Start: 84 @22042 has 125 MA's), (133, 22219), (141, 22240), (190, 22387), (217, 22561), (222, 22594), (228, 22630), (248, 22723), (261, 22783), (265, 22801), (291, 22933), (298, 22978), (323, 23110), (331, 23155), (346, 23215), (364, 23329), (368, 23350), (374, 23389), (378, 23410), (380, 23425), (407, 23575), (408, 23581), (409, 23599), (420, 23653), (432, 23737), (447, 23830), (483, 24076), (508, 24292), (517, 24376), (524, 24409),

Gene: UncleRicky_19 Start: 17219, Stop: 19756, Start Num: 52

Candidate Starts for UncleRicky_19:

(49, 17207), (Start: 52 @17219 has 221 MA's), (59, 17240), (Start: 69 @17261 has 1 MA's), (78, 17300), (104, 17369), (106, 17378), (107, 17381), (111, 17399), (119, 17432), (124, 17447), (137, 17495), (166, 17600), (169, 17609), (184, 17651), (186, 17654), (197, 17732), (201, 17756), (210, 17822), (218, 17867), (222, 17897), (223, 17903), (224, 17921), (232, 17945), (234, 17954), (240, 17987), (242, 17993), (248, 18023), (258, 18062), (259, 18074), (261, 18083), (264, 18098), (265, 18101), (287, 18212), (289, 18224), (290, 18230), (293, 18245), (294, 18248), (296, 18269), (303, 18299), (306, 18311), (310, 18344), (323, 18410), (331, 18455), (332, 18458), (339, 18485), (341, 18491), (348, 18545), (349, 18548), (352, 18575), (368, 18650), (370, 18662), (371, 18665), (381, 18731), (386, 18755), (391, 18785), (397, 18827), (400, 18845), (401, 18848), (408, 18884), (409, 18902), (414, 18923), (419, 18950), (430, 19019), (432, 19037), (434, 19046), (435, 19058), (439, 19094), (444, 19124), (447, 19133), (448, 19145), (458, 19205), (464, 19259), (473, 19319), (479, 19361), (487, 19439), (495, 19496), (499, 19520), (505, 19574), (508, 19622), (514, 19664), (516, 19688), (517, 19691),

Gene: VRedHorse_18 Start: 17564, Stop: 20101, Start Num: 52

Candidate Starts for VRedHorse_18:

(49, 17552), (Start: 52 @17564 has 221 MA's), (59, 17585), (Start: 69 @17606 has 1 MA's), (77, 17642), (78, 17645), (104, 17714), (106, 17723), (107, 17726), (111, 17744), (119, 17777), (124, 17792), (137, 17840), (166, 17945), (168, 17951), (169, 17954), (184, 17996), (186, 17999), (201, 18101), (210, 18167), (218, 18212), (222, 18242), (223, 18248), (224, 18266), (232, 18290), (234, 18299), (240, 18332), (242, 18338), (254, 18389), (258, 18407), (259, 18419), (261, 18428), (264, 18443), (266, 18449), (287, 18557), (289, 18569), (290, 18575), (293, 18590), (294, 18593), (296, 18614), (303, 18644), (306, 18656), (310, 18689), (323, 18755), (331, 18800), (332, 18803), (339, 18830), (341, 18836), (348, 18890), (349, 18893), (368, 18995), (370, 19007), (371, 19010), (381, 19076), (386, 19100), (389, 19121), (391, 19130), (400, 19190), (401, 19193), (408, 19229), (409, 19247), (414, 19268), (419, 19295), (430, 19364), (432, 19382), (434, 19391), (435, 19403), (439, 19439), (448, 19490), (451, 19508), (458, 19550), (464, 19604), (479, 19706), (487, 19784), (495, 19841), (499, 19865), (505, 19919), (508, 19967), (516, 20033), (517, 20036),

Gene: Vagabond_58 Start: 35926, Stop: 38436, Start Num: 65

Candidate Starts for Vagabond_58:

(Start: 65 @35926 has 28 MA's), (72, 35959), (91, 36028), (92, 36031), (100, 36055), (107, 36079), (114, 36103), (119, 36136), (170, 36343), (173, 36355), (174, 36358), (204, 36505), (205, 36535), (210, 36559), (216, 36589), (217, 36592), (222, 36619), (224, 36643), (233, 36673), (245, 36730), (249, 36754), (258, 36790), (259, 36802), (264, 36826), (265, 36829), (271, 36871), (293, 36967), (294, 36970), (344, 37225), (368, 37369), (378, 37429), (388, 37501), (389, 37504), (405, 37600), (432, 37774), (435, 37795), (449, 37888), (452, 37900), (464, 37990), (477, 38065), (486, 38110), (510, 38311), (515, 38365), (520, 38380),

Gene: Veteran_18 Start: 17402, Stop: 19939, Start Num: 52

Candidate Starts for Veteran_18:

(Start: 52 @17402 has 221 MA's), (59, 17423), (Start: 69 @17444 has 1 MA's), (78, 17483), (104, 17552), (106, 17561), (107, 17564), (111, 17582), (119, 17615), (124, 17630), (166, 17783), (169, 17792), (186, 17837), (200, 17936), (201, 17939), (210, 18005), (222, 18080), (223, 18086), (232, 18128), (233, 18134), (234, 18137), (240, 18170), (242, 18176), (248, 18206), (254, 18227), (259, 18257), (261, 18266), (264, 18281), (265, 18284), (287, 18395), (288, 18398), (289, 18407), (290, 18413), (293, 18428), (294, 18431), (296, 18452), (303, 18482), (306, 18494), (310, 18527), (331, 18638), (332, 18641), (339, 18668), (341, 18674), (348, 18728), (349, 18731), (365, 18818), (368, 18833), (370, 18845), (371, 18848), (381, 18914), (386, 18938), (389, 18959), (391, 18968), (397, 19010), (400, 19028), (401, 19031), (407, 19061), (409, 19085), (413, 19097), (414, 19106), (430, 19202), (432, 19220), (434, 19229), (435, 19241), (439, 19277), (444, 19307), (447, 19316), (448, 19328), (458, 19388), (464, 19442), (473, 19502), (479, 19544), (495, 19679), (499, 19703), (505, 19757), (508, 19805), (514, 19847), (516, 19871), (517, 19874),

Gene: Violac_19 Start: 17946, Stop: 20471, Start Num: 52

Candidate Starts for Violac_19:

(Start: 52 @17946 has 221 MA's), (59, 17967), (66, 17988), (79, 18027), (104, 18096), (106, 18105), (107, 18108), (111, 18126), (124, 18174), (137, 18222), (168, 18333), (169, 18336), (180, 18369), (186, 18381), (197, 18459), (205, 18525), (211, 18558), (219, 18612), (222, 18624), (232, 18672), (233, 18678), (234, 18681), (237, 18690), (243, 18723), (252, 18762), (254, 18765), (257, 18780), (258, 18783), (262, 18810), (263, 18816), (264, 18819), (265, 18822), (270, 18849), (272, 18867), (274, 18870), (289, 18945), (293, 18966), (294, 18969), (297, 18996), (303, 19020), (310, 19065), (311, 19068), (320, 19119), (332, 19182), (334, 19191), (340, 19215), (359, 19320), (361, 19323), (368, 19374), (369, 19380), (370, 19386), (371, 19389), (378, 19434), (380, 19449), (384, 19476), (389, 19500), (391, 19509), (400, 19569), (401, 19572), (402, 19584), (409, 19626), (413, 19638), (432, 19761), (440, 19824), (451, 19887), (460, 19962), (490, 20163), (508, 20334), (513, 20373), (519, 20412), (520, 20415),

Gene: Visconti_30 Start: 24326, Stop: 26596, Start Num: 145

Candidate Starts for Visconti_30:

(Start: 145 @24326 has 21 MA's), (176, 24461), (178, 24470), (205, 24644), (206, 24650), (209, 24662), (236, 24815), (239, 24830), (241, 24845), (314, 25226), (316, 25232), (326, 25277), (343, 25364), (377, 25565), (378, 25571), (385, 25619), (391, 25649), (393, 25673), (422, 25862), (425, 25889), (434, 25937), (443, 26009), (450, 26048), (454, 26069), (455, 26084), (459, 26102), (461, 26132), (475, 26216), (503, 26417), (508, 26459), (527, 26585),

Gene: Vivum_18 Start: 17344, Stop: 19881, Start Num: 52

Candidate Starts for Vivum_18:

(Start: 52 @17344 has 221 MA's), (59, 17365), (Start: 69 @17386 has 1 MA's), (78, 17425), (104, 17494), (106, 17503), (107, 17506), (111, 17524), (124, 17572), (166, 17725), (169, 17734), (186, 17779), (200, 17878), (201, 17881), (210, 17947), (222, 18022), (223, 18028), (224, 18046), (232, 18070), (233, 18076), (234, 18079), (240, 18112), (242, 18118), (248, 18148), (254, 18169), (259, 18199), (261, 18208), (264, 18223), (265, 18226), (287, 18337), (288, 18340), (289, 18349), (290, 18355), (293, 18370), (294, 18373), (296, 18394), (303, 18424), (306, 18436), (310, 18469), (331,

18580), (332, 18583), (339, 18610), (341, 18616), (348, 18670), (349, 18673), (368, 18775), (370, 18787), (371, 18790), (381, 18856), (386, 18880), (389, 18901), (391, 18910), (400, 18970), (401, 18973), (408, 19009), (409, 19027), (413, 19039), (414, 19048), (419, 19075), (429, 19132), (430, 19144), (432, 19162), (434, 19171), (435, 19183), (439, 19219), (444, 19249), (447, 19258), (448, 19270), (458, 19330), (464, 19384), (473, 19444), (479, 19486), (495, 19621), (499, 19645), (505, 19699), (508, 19747), (514, 19789), (516, 19813), (517, 19816),

Gene: Vorrps_58 Start: 36138, Stop: 38648, Start Num: 65

Candidate Starts for Vorrps_58:

(Start: 65 @36138 has 28 MA's), (72, 36171), (91, 36240), (92, 36243), (100, 36267), (107, 36291), (114, 36315), (119, 36348), (170, 36555), (173, 36567), (174, 36570), (204, 36717), (205, 36747), (210, 36771), (216, 36801), (217, 36804), (222, 36831), (224, 36855), (233, 36885), (245, 36942), (249, 36966), (258, 37002), (259, 37014), (264, 37038), (265, 37041), (271, 37083), (293, 37179), (294, 37182), (344, 37437), (368, 37581), (378, 37641), (388, 37713), (389, 37716), (405, 37812), (432, 37986), (435, 38007), (449, 38100), (452, 38112), (464, 38202), (477, 38277), (486, 38322), (510, 38523), (515, 38577), (520, 38592),

Gene: Wachhund_18 Start: 17422, Stop: 19959, Start Num: 52

Candidate Starts for Wachhund_18:

(Start: 52 @17422 has 221 MA's), (59, 17443), (Start: 69 @17464 has 1 MA's), (78, 17503), (104, 17572), (106, 17581), (107, 17584), (111, 17602), (124, 17650), (168, 17809), (169, 17812), (186, 17857), (197, 17935), (200, 17956), (201, 17959), (210, 18025), (222, 18100), (223, 18106), (232, 18148), (233, 18154), (234, 18157), (240, 18190), (242, 18196), (248, 18226), (254, 18247), (259, 18277), (261, 18286), (284, 18394), (287, 18415), (288, 18418), (289, 18427), (290, 18433), (293, 18448), (294, 18451), (296, 18472), (303, 18502), (306, 18514), (310, 18547), (331, 18658), (332, 18661), (339, 18688), (341, 18694), (348, 18748), (349, 18751), (365, 18838), (368, 18853), (370, 18865), (371, 18868), (381, 18934), (389, 18979), (391, 18988), (400, 19048), (401, 19051), (408, 19087), (409, 19105), (413, 19117), (414, 19126), (419, 19153), (430, 19222), (432, 19240), (434, 19249), (435, 19261), (439, 19297), (444, 19327), (448, 19348), (453, 19372), (458, 19408), (464, 19462), (473, 19522), (479, 19564), (495, 19699), (499, 19723), (505, 19777), (508, 19825), (514, 19867), (516, 19891), (517, 19894),

Gene: WaldoWhy_31 Start: 24322, Stop: 26592, Start Num: 145

Candidate Starts for WaldoWhy_31:

(Start: 145 @24322 has 21 MA's), (176, 24457), (178, 24466), (205, 24640), (206, 24646), (209, 24658), (236, 24811), (239, 24826), (241, 24841), (314, 25222), (316, 25228), (326, 25273), (343, 25360), (377, 25561), (378, 25567), (385, 25615), (391, 25645), (393, 25669), (422, 25858), (425, 25885), (434, 25933), (443, 26005), (450, 26044), (454, 26065), (455, 26080), (459, 26098), (461, 26128), (475, 26212), (503, 26413), (508, 26455), (527, 26581),

Gene: Wanda_39 Start: 29807, Stop: 32362, Start Num: 52

Candidate Starts for Wanda_39:

(Start: 52 @29807 has 221 MA's), (111, 30002), (119, 30038), (124, 30053), (137, 30101), (168, 30212), (169, 30215), (179, 30245), (186, 30260), (197, 30338), (201, 30362), (210, 30428), (218, 30473), (222, 30503), (223, 30509), (224, 30527), (232, 30551), (234, 30560), (240, 30593), (242, 30599), (248, 30629), (258, 30668), (259, 30680), (261, 30689), (264, 30704), (265, 30707), (287, 30818), (288, 30821), (289, 30830), (290, 30836), (293, 30851), (294, 30854), (296, 30875), (303, 30905), (306, 30917), (310, 30950), (323, 31016), (331, 31061), (332, 31064), (339, 31091), (341, 31097), (348, 31151), (349, 31154), (365, 31241), (368, 31256), (370, 31268), (371, 31271), (381, 31337), (389, 31382), (391, 31391), (400, 31451), (401, 31454), (408, 31490), (409, 31508), (413, 31520), (414, 31529), (419, 31556), (430, 31625), (432, 31643), (434, 31652), (435, 31664), (439, 31700), (444, 31730), (448, 31751), (453, 31775), (458, 31811), (464, 31865), (473, 31925), (479, 31967), (495, 32102), (499, 32126), (505, 32180), (508, 32228), (514, 32270), (516, 32294), (517,

32297),

Gene: Wee_19 Start: 17971, Stop: 20508, Start Num: 52

Candidate Starts for Wee_19:

(49, 17959), (Start: 52 @17971 has 221 MA's), (59, 17992), (Start: 69 @18013 has 1 MA's), (78, 18052), (104, 18121), (106, 18130), (107, 18133), (111, 18151), (119, 18184), (124, 18199), (137, 18247), (166, 18352), (168, 18358), (169, 18361), (184, 18403), (186, 18406), (197, 18484), (210, 18574), (218, 18619), (222, 18649), (223, 18655), (224, 18673), (232, 18697), (234, 18706), (240, 18739), (242, 18745), (248, 18775), (258, 18814), (259, 18826), (261, 18835), (264, 18850), (265, 18853), (287, 18964), (288, 18967), (289, 18976), (290, 18982), (293, 18997), (294, 19000), (296, 19021), (303, 19051), (306, 19063), (310, 19096), (323, 19162), (331, 19207), (332, 19210), (339, 19237), (341, 19243), (348, 19297), (349, 19300), (365, 19387), (368, 19402), (370, 19414), (371, 19417), (381, 19483), (389, 19528), (391, 19537), (400, 19597), (401, 19600), (408, 19636), (409, 19654), (413, 19666), (414, 19675), (419, 19702), (430, 19771), (432, 19789), (434, 19798), (435, 19810), (439, 19846), (444, 19876), (448, 19897), (453, 19921), (458, 19957), (464, 20011), (473, 20071), (479, 20113), (495, 20248), (499, 20272), (505, 20326), (508, 20374), (514, 20416), (516, 20440), (517, 20443),

Gene: Weiss13_30 Start: 24327, Stop: 27827, Start Num: 1

Candidate Starts for Weiss13_30:

(Start: 1 @24327 has 8 MA's), (4, 24339), (Start: 5 @24351 has 1 MA's), (8, 24534), (10, 24615), (14, 24714), (15, 24738), (16, 24756), (23, 24915), (25, 24948), (33, 24996), (37, 25011), (38, 25035), (62, 25161), (68, 25170), (113, 25356), (156, 25557), (192, 25734), (205, 25833), (211, 25866), (221, 25911), (223, 25923), (232, 25965), (235, 25977), (247, 26043), (261, 26127), (263, 26142), (269, 26172), (290, 26277), (300, 26328), (308, 26373), (315, 26418), (325, 26463), (329, 26484), (331, 26502), (332, 26505), (333, 26511), (334, 26514), (356, 26652), (366, 26700), (367, 26706), (377, 26766), (380, 26787), (396, 26880), (404, 26940), (407, 26949), (408, 26955), (410, 26976), (427, 27081), (436, 27141), (447, 27207), (448, 27219), (451, 27237), (453, 27243), (485, 27477), (488, 27516), (494, 27561), (498, 27591), (507, 27684), (511, 27711),

Gene: Whatsapiecost_18 Start: 17447, Stop: 19984, Start Num: 52

Candidate Starts for Whatsapiecost_18:

(49, 17435), (Start: 52 @17447 has 221 MA's), (59, 17468), (Start: 69 @17489 has 1 MA's), (78, 17528), (104, 17597), (106, 17606), (107, 17609), (111, 17627), (119, 17660), (124, 17675), (137, 17723), (168, 17834), (169, 17837), (179, 17867), (184, 17879), (186, 17882), (197, 17960), (201, 17984), (210, 18050), (218, 18095), (222, 18125), (223, 18131), (224, 18149), (232, 18173), (234, 18182), (240, 18215), (242, 18221), (248, 18251), (258, 18290), (259, 18302), (261, 18311), (264, 18326), (265, 18329), (287, 18440), (288, 18443), (289, 18452), (290, 18458), (293, 18473), (294, 18476), (296, 18497), (303, 18527), (306, 18539), (310, 18572), (331, 18683), (332, 18686), (339, 18713), (341, 18719), (348, 18773), (349, 18776), (368, 18878), (370, 18890), (371, 18893), (381, 18959), (386, 18983), (389, 19004), (391, 19013), (400, 19073), (401, 19076), (408, 19112), (409, 19130), (413, 19142), (414, 19151), (419, 19178), (430, 19247), (432, 19265), (434, 19274), (435, 19286), (439, 19322), (444, 19352), (448, 19373), (453, 19397), (458, 19433), (464, 19487), (473, 19547), (479, 19589), (487, 19667), (495, 19724), (499, 19748), (505, 19802), (508, 19850), (514, 19892), (516, 19916), (517, 19919),

Gene: Whouxphf_18 Start: 17504, Stop: 20041, Start Num: 52

Candidate Starts for Whouxphf_18:

(Start: 52 @17504 has 221 MA's), (59, 17525), (Start: 69 @17546 has 1 MA's), (78, 17585), (104, 17654), (106, 17663), (107, 17666), (111, 17684), (124, 17732), (168, 17891), (169, 17894), (186, 17939), (200, 18038), (201, 18041), (222, 18182), (223, 18188), (232, 18230), (233, 18236), (234, 18239), (240, 18272), (242, 18278), (248, 18308), (254, 18329), (259, 18359), (261, 18368), (284, 18476), (286, 18488), (287, 18497), (288, 18500), (289, 18509), (290, 18515), (293, 18530), (294,

18533), (296, 18554), (306, 18596), (310, 18629), (339, 18770), (341, 18776), (348, 18830), (349, 18833), (352, 18860), (368, 18935), (370, 18947), (371, 18950), (381, 19016), (386, 19040), (389, 19061), (391, 19070), (397, 19112), (400, 19130), (401, 19133), (407, 19163), (409, 19187), (414, 19208), (430, 19304), (432, 19322), (434, 19331), (435, 19343), (439, 19379), (444, 19409), (447, 19418), (448, 19430), (458, 19490), (479, 19646), (487, 19724), (495, 19781), (499, 19805), (505, 19859), (508, 19907), (511, 19928), (516, 19973), (517, 19976),

Gene: Wiggin_29 Start: 22788, Stop: 25184, Start Num: 84

Candidate Starts for Wiggin_29:

(Start: 84 @22788 has 125 MA's), (133, 22965), (141, 22986), (190, 23133), (217, 23307), (222, 23340), (228, 23376), (248, 23469), (261, 23529), (265, 23547), (291, 23679), (298, 23724), (323, 23856), (331, 23901), (346, 23961), (364, 24075), (368, 24096), (374, 24135), (378, 24156), (380, 24171), (407, 24321), (408, 24327), (409, 24345), (420, 24399), (432, 24483), (447, 24576), (483, 24822), (508, 25038), (517, 25122), (524, 25155),

Gene: Wildcat_43 Start: 28342, Stop: 30909, Start Num: 51

Candidate Starts for Wildcat_43:

(Start: 51 @28342 has 6 MA's), (70, 28411), (110, 28534), (111, 28540), (113, 28543), (117, 28567), (122, 28588), (165, 28744), (167, 28750), (169, 28756), (177, 28786), (179, 28792), (186, 28813), (187, 28822), (196, 28882), (206, 28960), (223, 29059), (229, 29092), (233, 29107), (234, 29110), (242, 29149), (254, 29200), (258, 29218), (261, 29239), (262, 29245), (268, 29272), (271, 29299), (287, 29368), (292, 29392), (295, 29413), (298, 29434), (301, 29443), (306, 29464), (310, 29497), (311, 29500), (320, 29551), (323, 29563), (337, 29629), (342, 29647), (347, 29686), (368, 29803), (375, 29848), (384, 29905), (389, 29929), (391, 29938), (393, 29956), (400, 30001), (407, 30034), (411, 30070), (438, 30244), (439, 30262), (440, 30268), (450, 30325), (494, 30649), (497, 30667), (502, 30718), (509, 30781), (516, 30856),

Gene: Wildflower_58 Start: 35650, Stop: 38160, Start Num: 65

Candidate Starts for Wildflower_58:

(Start: 65 @35650 has 28 MA's), (72, 35683), (91, 35752), (92, 35755), (100, 35779), (107, 35803), (114, 35827), (119, 35860), (170, 36067), (173, 36079), (174, 36082), (204, 36229), (205, 36259), (210, 36283), (216, 36313), (217, 36316), (222, 36343), (224, 36367), (233, 36397), (245, 36454), (258, 36514), (259, 36526), (264, 36550), (265, 36553), (271, 36595), (293, 36691), (294, 36694), (344, 36949), (368, 37093), (378, 37153), (388, 37225), (389, 37228), (405, 37324), (432, 37498), (435, 37519), (449, 37612), (452, 37624), (464, 37714), (477, 37789), (486, 37834), (510, 38035), (515, 38089), (520, 38104),

Gene: WillSterrel_19 Start: 18757, Stop: 21294, Start Num: 52

Candidate Starts for WillSterrel_19:

(Start: 52 @18757 has 221 MA's), (59, 18778), (Start: 69 @18799 has 1 MA's), (78, 18838), (104, 18907), (106, 18916), (107, 18919), (111, 18937), (124, 18985), (166, 19138), (169, 19147), (186, 19192), (200, 19291), (201, 19294), (210, 19360), (222, 19435), (223, 19441), (224, 19459), (232, 19483), (233, 19489), (234, 19492), (240, 19525), (242, 19531), (248, 19561), (254, 19582), (259, 19612), (261, 19621), (264, 19636), (265, 19639), (287, 19750), (288, 19753), (289, 19762), (290, 19768), (293, 19783), (294, 19786), (296, 19807), (303, 19837), (306, 19849), (310, 19882), (331, 19993), (332, 19996), (339, 20023), (341, 20029), (348, 20083), (349, 20086), (365, 20173), (368, 20188), (370, 20200), (371, 20203), (381, 20269), (386, 20293), (389, 20314), (391, 20323), (400, 20383), (401, 20386), (408, 20422), (409, 20440), (413, 20452), (414, 20461), (419, 20488), (429, 20545), (430, 20557), (432, 20575), (434, 20584), (435, 20596), (439, 20632), (444, 20662), (447, 20671), (448, 20683), (458, 20743), (464, 20797), (473, 20857), (479, 20899), (495, 21034), (499, 21058), (505, 21112), (508, 21160), (514, 21202), (516, 21226), (517, 21229),

Gene: Willez_25 Start: 21788, Stop: 24184, Start Num: 84

Candidate Starts for Willez_25:

(Start: 84 @21788 has 125 MA's), (133, 21965), (141, 21986), (190, 22133), (211, 22274), (217, 22307), (222, 22340), (228, 22376), (248, 22469), (261, 22529), (265, 22547), (291, 22679), (298, 22724), (323, 22856), (331, 22901), (346, 22961), (364, 23075), (368, 23096), (374, 23135), (378, 23156), (380, 23171), (407, 23321), (408, 23327), (409, 23345), (420, 23399), (432, 23483), (447, 23576), (483, 23822), (508, 24038), (517, 24122), (524, 24155),

Gene: Winget_59 Start: 36356, Stop: 38866, Start Num: 65

Candidate Starts for Winget_59:

(Start: 65 @36356 has 28 MA's), (72, 36389), (91, 36458), (92, 36461), (100, 36485), (107, 36509), (114, 36533), (119, 36566), (170, 36773), (173, 36785), (174, 36788), (204, 36935), (205, 36965), (210, 36989), (216, 37019), (217, 37022), (222, 37049), (224, 37073), (233, 37103), (245, 37160), (249, 37184), (258, 37220), (259, 37232), (264, 37256), (265, 37259), (271, 37301), (293, 37397), (294, 37400), (344, 37655), (368, 37799), (378, 37859), (388, 37931), (389, 37934), (405, 38030), (432, 38204), (435, 38225), (449, 38318), (452, 38330), (464, 38420), (477, 38495), (486, 38540), (510, 38741), (515, 38795), (520, 38810),

Gene: Wogge42_57 Start: 35797, Stop: 38307, Start Num: 65

Candidate Starts for Wogge42_57:

(Start: 65 @35797 has 28 MA's), (72, 35830), (91, 35899), (92, 35902), (100, 35926), (107, 35950), (114, 35974), (119, 36007), (170, 36214), (173, 36226), (174, 36229), (204, 36376), (205, 36406), (210, 36430), (216, 36460), (217, 36463), (222, 36490), (224, 36514), (233, 36544), (245, 36601), (249, 36625), (258, 36661), (259, 36673), (264, 36697), (265, 36700), (271, 36742), (293, 36838), (294, 36841), (344, 37096), (368, 37240), (378, 37300), (388, 37372), (389, 37375), (405, 37471), (432, 37645), (435, 37666), (449, 37759), (452, 37771), (464, 37861), (477, 37936), (486, 37981), (510, 38182), (515, 38236), (520, 38251),

Gene: XFactor_18 Start: 17403, Stop: 19940, Start Num: 52

Candidate Starts for XFactor_18:

(49, 17391), (Start: 52 @17403 has 221 MA's), (59, 17424), (Start: 69 @17445 has 1 MA's), (78, 17484), (104, 17553), (106, 17562), (107, 17565), (111, 17583), (119, 17616), (124, 17631), (137, 17679), (168, 17790), (169, 17793), (179, 17823), (186, 17838), (197, 17916), (201, 17940), (210, 18006), (218, 18051), (222, 18081), (223, 18087), (224, 18105), (232, 18129), (234, 18138), (240, 18171), (242, 18177), (248, 18207), (258, 18246), (259, 18258), (261, 18267), (264, 18282), (265, 18285), (287, 18396), (288, 18399), (289, 18408), (290, 18414), (293, 18429), (294, 18432), (296, 18453), (303, 18483), (306, 18495), (310, 18528), (331, 18639), (332, 18642), (339, 18669), (341, 18675), (348, 18729), (349, 18732), (368, 18834), (370, 18846), (371, 18849), (381, 18915), (386, 18939), (389, 18960), (391, 18969), (400, 19029), (401, 19032), (408, 19068), (409, 19086), (413, 19098), (414, 19107), (419, 19134), (430, 19203), (432, 19221), (434, 19230), (435, 19242), (439, 19278), (444, 19308), (448, 19329), (453, 19353), (458, 19389), (464, 19443), (473, 19503), (479, 19545), (487, 19623), (495, 19680), (499, 19704), (505, 19758), (508, 19806), (514, 19848), (516, 19872), (517, 19875),

Gene: Xandras_28 Start: 22274, Stop: 24670, Start Num: 84

Candidate Starts for Xandras_28:

(Start: 84 @22274 has 125 MA's), (133, 22451), (141, 22472), (190, 22619), (217, 22793), (222, 22826), (228, 22862), (248, 22955), (261, 23015), (265, 23033), (291, 23165), (298, 23210), (323, 23342), (331, 23387), (346, 23447), (364, 23561), (368, 23582), (374, 23621), (378, 23642), (380, 23657), (407, 23807), (408, 23813), (409, 23831), (420, 23885), (432, 23969), (447, 24062), (483, 24308), (508, 24524), (517, 24608), (524, 24641),

Gene: YassJohnny_27 Start: 22799, Stop: 25195, Start Num: 84

Candidate Starts for YassJohnny_27:

(Start: 84 @22799 has 125 MA's), (133, 22976), (141, 22997), (190, 23144), (211, 23285), (217, 23318), (222, 23351), (228, 23387), (248, 23480), (261, 23540), (265, 23558), (291, 23690), (298, 23735), (323, 23867), (331, 23912), (364, 24086), (368, 24107), (374, 24146), (378, 24167), (380, 24182), (408, 24338), (409, 24356), (420, 24410), (432, 24494), (447, 24587), (483, 24833), (508, 25049), (517, 25133), (524, 25166),

Gene: Yelo_30 Start: 24620, Stop: 28120, Start Num: 1

Candidate Starts for Yelo_30:

(Start: 1 @24620 has 8 MA's), (4, 24632), (Start: 5 @24644 has 1 MA's), (8, 24827), (10, 24908), (14, 25007), (15, 25031), (16, 25049), (23, 25208), (25, 25241), (33, 25289), (38, 25328), (62, 25454), (68, 25463), (113, 25649), (156, 25850), (192, 26027), (205, 26126), (211, 26159), (221, 26204), (232, 26258), (234, 26267), (235, 26270), (247, 26336), (261, 26420), (263, 26435), (269, 26465), (290, 26570), (300, 26621), (308, 26666), (315, 26711), (325, 26756), (329, 26777), (331, 26795), (332, 26798), (333, 26804), (334, 26807), (356, 26945), (366, 26993), (367, 26999), (377, 27059), (380, 27080), (396, 27173), (404, 27233), (407, 27242), (408, 27248), (410, 27269), (436, 27434), (447, 27500), (448, 27512), (451, 27530), (453, 27536), (485, 27770), (488, 27809), (494, 27854), (498, 27884), (507, 27977), (511, 28004),

Gene: Yorick_18 Start: 17404, Stop: 19956, Start Num: 52

Candidate Starts for Yorick_18:

(Start: 52 @17404 has 221 MA's), (79, 17485), (104, 17554), (106, 17563), (107, 17566), (111, 17584), (124, 17632), (136, 17677), (168, 17791), (169, 17794), (174, 17806), (180, 17827), (184, 17836), (186, 17839), (193, 17887), (197, 17917), (205, 17983), (211, 18016), (218, 18052), (221, 18076), (233, 18136), (234, 18139), (238, 18157), (252, 18220), (254, 18223), (258, 18241), (261, 18262), (265, 18280), (270, 18307), (274, 18328), (281, 18361), (289, 18403), (290, 18409), (291, 18412), (294, 18427), (297, 18454), (298, 18457), (303, 18478), (306, 18490), (310, 18523), (329, 18616), (348, 18724), (351, 18748), (352, 18754), (358, 18772), (359, 18775), (363, 18799), (368, 18829), (372, 18853), (378, 18889), (379, 18895), (380, 18904), (384, 18931), (394, 18994), (397, 19018), (398, 19033), (407, 19075), (415, 19126), (431, 19222), (432, 19237), (434, 19246), (437, 19270), (447, 19333), (453, 19369), (493, 19675), (499, 19720), (508, 19822),

Gene: Yoshi_24 Start: 17092, Stop: 19641, Start Num: 44

Candidate Starts for Yoshi_24:

(41, 17083), (Start: 44 @17092 has 7 MA's), (Start: 52 @17152 has 221 MA's), (63, 17185), (64, 17188), (89, 17257), (97, 17287), (153, 17467), (161, 17482), (169, 17518), (172, 17524), (179, 17545), (188, 17569), (192, 17593), (215, 17740), (218, 17749), (222, 17773), (224, 17797), (232, 17821), (233, 17827), (238, 17848), (242, 17869), (248, 17899), (256, 17929), (259, 17950), (278, 18043), (281, 18058), (284, 18067), (287, 18088), (288, 18091), (303, 18175), (304, 18178), (306, 18187), (311, 18223), (318, 18262), (321, 18283), (323, 18286), (330, 18322), (334, 18343), (348, 18421), (349, 18424), (362, 18478), (370, 18538), (383, 18625), (386, 18631), (388, 18649), (389, 18652), (396, 18688), (404, 18742), (407, 18751), (418, 18829), (421, 18847), (425, 18883), (426, 18886), (430, 18904), (431, 18907), (432, 18922), (439, 18979), (441, 18991), (453, 19054), (458, 19087), (467, 19174), (476, 19222), (478, 19246), (482, 19273), (483, 19282), (486, 19321), (492, 19360), (495, 19384), (498, 19405), (508, 19501), (511, 19522), (520, 19585), (524, 19612), (526, 19621),

Gene: Youngblood_26 Start: 22452, Stop: 24848, Start Num: 84

Candidate Starts for Youngblood_26:

(Start: 84 @22452 has 125 MA's), (133, 22629), (141, 22650), (190, 22797), (211, 22938), (217, 22971), (222, 23004), (228, 23040), (248, 23133), (261, 23193), (265, 23211), (291, 23343), (298, 23388), (323, 23520), (331, 23565), (346, 23625), (364, 23739), (368, 23760), (374, 23799), (378, 23820), (380, 23835), (408, 23991), (409, 24009), (420, 24063), (432, 24147), (447, 24240), (483, 24486), (508, 24702), (517, 24786), (524, 24819),

Gene: YungJamal_63 Start: 37548, Stop: 40058, Start Num: 65

Candidate Starts for YungJamal_63:

(Start: 65 @37548 has 28 MA's), (72, 37581), (91, 37650), (92, 37653), (100, 37677), (107, 37701), (114, 37725), (119, 37758), (170, 37965), (173, 37977), (174, 37980), (204, 38127), (205, 38157), (210, 38181), (216, 38211), (217, 38214), (222, 38241), (224, 38265), (233, 38295), (245, 38352), (258, 38412), (259, 38424), (264, 38448), (265, 38451), (271, 38493), (293, 38589), (294, 38592), (344, 38847), (368, 38991), (378, 39051), (388, 39123), (389, 39126), (405, 39222), (432, 39396), (435, 39417), (449, 39510), (452, 39522), (464, 39612), (477, 39687), (486, 39732), (510, 39933), (515, 39987), (520, 40002),

Gene: Zakhe101_58 Start: 36194, Stop: 38704, Start Num: 65

Candidate Starts for Zakhe101_58:

(Start: 65 @36194 has 28 MA's), (72, 36227), (91, 36296), (92, 36299), (100, 36323), (107, 36347), (114, 36371), (119, 36404), (170, 36611), (173, 36623), (174, 36626), (204, 36773), (205, 36803), (210, 36827), (216, 36857), (217, 36860), (222, 36887), (224, 36911), (233, 36941), (245, 36998), (258, 37058), (259, 37070), (264, 37094), (265, 37097), (271, 37139), (293, 37235), (294, 37238), (344, 37493), (368, 37637), (378, 37697), (388, 37769), (389, 37772), (405, 37868), (432, 38042), (435, 38063), (449, 38156), (452, 38168), (464, 38258), (477, 38333), (486, 38378), (510, 38579), (515, 38633), (520, 38648),

Gene: Zapner_25 Start: 17617, Stop: 20169, Start Num: 44

Candidate Starts for Zapner_25:

(41, 17608), (Start: 44 @17617 has 7 MA's), (Start: 52 @17677 has 221 MA's), (64, 17713), (97, 17812), (138, 17953), (153, 17992), (161, 18007), (169, 18043), (172, 18049), (173, 18052), (179, 18070), (188, 18094), (192, 18118), (193, 18121), (215, 18265), (218, 18274), (222, 18298), (224, 18322), (232, 18346), (233, 18352), (238, 18373), (239, 18376), (242, 18394), (248, 18427), (256, 18457), (259, 18478), (278, 18571), (281, 18586), (284, 18595), (287, 18616), (288, 18619), (295, 18661), (303, 18703), (304, 18706), (306, 18715), (309, 18742), (311, 18751), (318, 18790), (321, 18811), (323, 18814), (330, 18850), (334, 18871), (348, 18949), (349, 18952), (362, 19006), (370, 19066), (383, 19153), (386, 19159), (389, 19180), (396, 19216), (404, 19270), (407, 19279), (418, 19357), (421, 19375), (425, 19411), (426, 19414), (430, 19432), (432, 19450), (439, 19507), (441, 19519), (453, 19582), (458, 19615), (467, 19702), (476, 19750), (478, 19774), (483, 19810), (486, 19849), (492, 19888), (495, 19912), (498, 19933), (508, 20029), (511, 20050), (518, 20110), (520, 20113), (524, 20140),

Gene: Zebo_57 Start: 36132, Stop: 38609, Start Num: 72

Candidate Starts for Zebo_57:

(Start: 65 @36099 has 28 MA's), (72, 36132), (91, 36201), (92, 36204), (100, 36228), (107, 36252), (114, 36276), (119, 36309), (170, 36516), (173, 36528), (174, 36531), (204, 36678), (205, 36708), (210, 36732), (216, 36762), (217, 36765), (222, 36792), (224, 36816), (233, 36846), (245, 36903), (249, 36927), (258, 36963), (259, 36975), (264, 36999), (265, 37002), (271, 37044), (293, 37140), (294, 37143), (344, 37398), (368, 37542), (378, 37602), (388, 37674), (389, 37677), (405, 37773), (432, 37947), (435, 37968), (449, 38061), (452, 38073), (464, 38163), (477, 38238), (486, 38283), (510, 38484), (515, 38538), (520, 38553),

Gene: Zenon_31 Start: 24639, Stop: 28139, Start Num: 1

Candidate Starts for Zenon_31:

(Start: 1 @24639 has 8 MA's), (4, 24651), (Start: 5 @24663 has 1 MA's), (8, 24846), (10, 24927), (14, 25026), (15, 25050), (16, 25068), (23, 25227), (25, 25260), (33, 25308), (38, 25347), (62, 25473), (68, 25482), (113, 25668), (156, 25869), (192, 26046), (205, 26145), (211, 26178), (221, 26223), (223, 26235), (232, 26277), (235, 26289), (247, 26355), (261, 26439), (263, 26454), (269, 26484), (290, 26589), (300, 26640), (308, 26685), (315, 26730), (325, 26775), (329, 26796), (331, 26814), (332,

26817), (333, 26823), (334, 26826), (356, 26964), (366, 27012), (367, 27018), (377, 27078), (380, 27099), (396, 27192), (404, 27252), (407, 27261), (408, 27267), (410, 27288), (436, 27453), (447, 27519), (448, 27531), (451, 27549), (453, 27555), (485, 27789), (488, 27828), (494, 27873), (498, 27903), (507, 27996), (511, 28023),

Gene: Zerg_18 Start: 17367, Stop: 19904, Start Num: 52

Candidate Starts for Zerg_18:

(Start: 52 @17367 has 221 MA's), (86, 17457), (104, 17517), (106, 17526), (107, 17529), (111, 17547), (124, 17595), (166, 17748), (169, 17757), (186, 17802), (200, 17901), (201, 17904), (210, 17970), (222, 18045), (223, 18051), (224, 18069), (232, 18093), (233, 18099), (234, 18102), (240, 18135), (242, 18141), (248, 18171), (254, 18192), (259, 18222), (261, 18231), (264, 18246), (265, 18249), (287, 18360), (288, 18363), (289, 18372), (290, 18378), (293, 18393), (294, 18396), (296, 18417), (303, 18447), (306, 18459), (310, 18492), (331, 18603), (332, 18606), (339, 18633), (341, 18639), (348, 18693), (349, 18696), (365, 18783), (368, 18798), (370, 18810), (371, 18813), (381, 18879), (386, 18903), (389, 18924), (391, 18933), (400, 18993), (401, 18996), (408, 19032), (409, 19050), (413, 19062), (414, 19071), (419, 19098), (429, 19155), (430, 19167), (432, 19185), (434, 19194), (435, 19206), (439, 19242), (444, 19272), (447, 19281), (448, 19293), (458, 19353), (464, 19407), (473, 19467), (479, 19509), (495, 19644), (499, 19668), (505, 19722), (508, 19770), (514, 19812), (516, 19836), (517, 19839),

Gene: Zizzle_18 Start: 17375, Stop: 19900, Start Num: 52

Candidate Starts for Zizzle_18:

(Start: 52 @17375 has 221 MA's), (79, 17456), (104, 17525), (106, 17534), (107, 17537), (111, 17555), (124, 17603), (136, 17648), (168, 17762), (169, 17765), (180, 17798), (186, 17810), (197, 17888), (205, 17954), (211, 17987), (219, 18041), (222, 18053), (233, 18107), (234, 18110), (237, 18119), (243, 18152), (252, 18191), (254, 18194), (257, 18209), (258, 18212), (262, 18239), (263, 18245), (264, 18248), (265, 18251), (270, 18278), (272, 18296), (274, 18299), (289, 18374), (293, 18395), (294, 18398), (297, 18425), (303, 18449), (310, 18494), (311, 18497), (320, 18548), (332, 18611), (334, 18620), (340, 18644), (359, 18749), (361, 18752), (368, 18803), (369, 18809), (370, 18815), (371, 18818), (378, 18863), (380, 18878), (384, 18905), (389, 18929), (397, 18980), (400, 18998), (401, 19001), (402, 19013), (413, 19067), (432, 19190), (440, 19253), (451, 19316), (460, 19391), (490, 19592), (513, 19802), (519, 19841), (520, 19844),

Gene: xkcd_27 Start: 22453, Stop: 24849, Start Num: 84

Candidate Starts for xkcd_27:

(Start: 84 @22453 has 125 MA's), (133, 22630), (141, 22651), (190, 22798), (211, 22939), (217, 22972), (222, 23005), (228, 23041), (248, 23134), (261, 23194), (265, 23212), (291, 23344), (298, 23389), (323, 23521), (331, 23566), (364, 23740), (368, 23761), (374, 23800), (378, 23821), (380, 23836), (408, 23992), (409, 24010), (420, 24064), (432, 24148), (447, 24241), (483, 24487), (508, 24703), (517, 24787), (524, 24820),