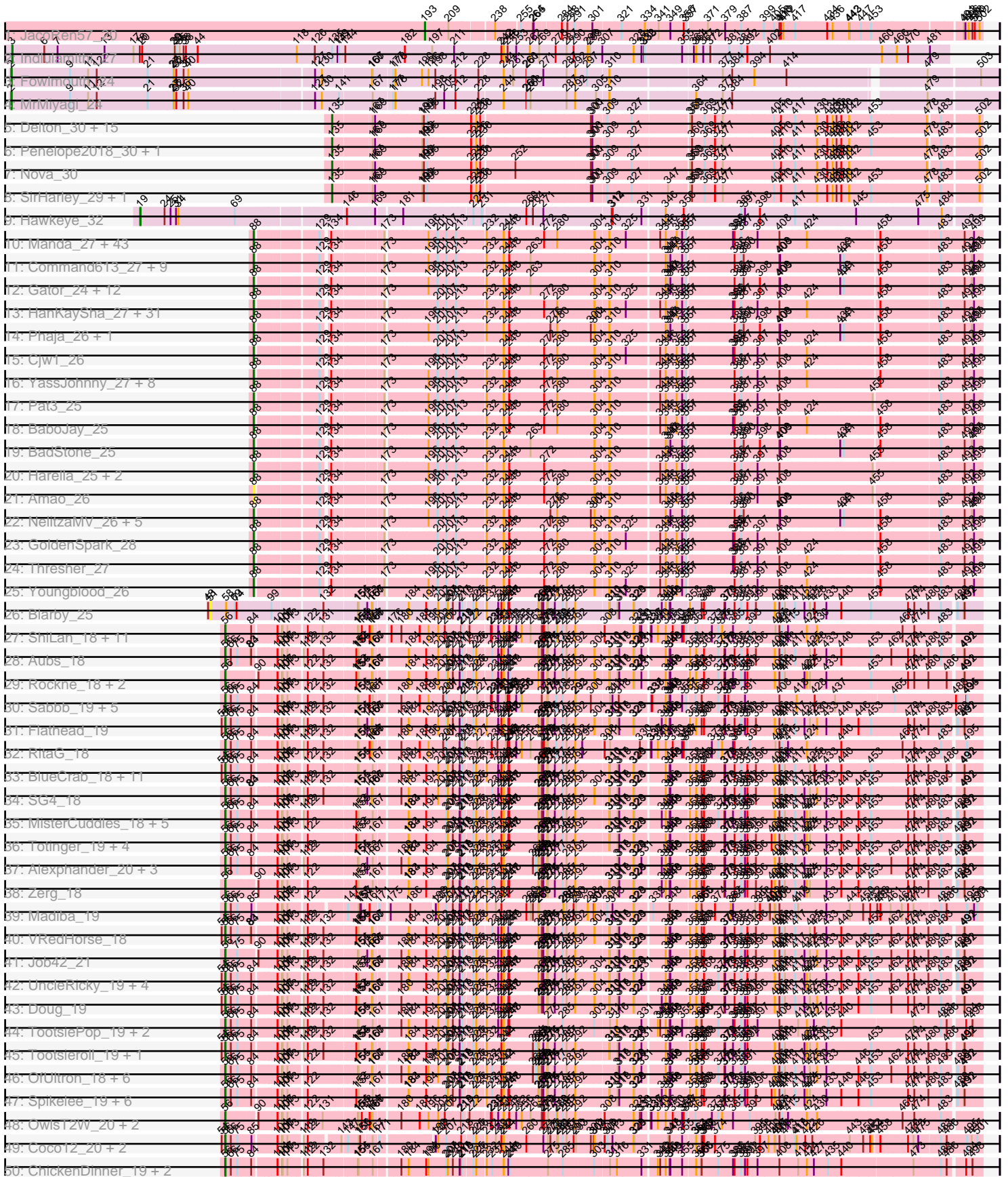


Pham 157481



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 157481 Report

This analysis was run 04/13/24 on database version 558.

Pham number 157481 has 451 members, 42 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 : Penelope2018_30, Helpful_31
- Track 7 : Nova_30
- Track 8 : SirHarley_29, Gumball_29
- Track 9 : Hawkeye_32
- Track 10 : Manda_27, Terminus_26, Goldilocks_27, Murphy_27, Willez_25, Holt_27, Porky_26, Teaspoon_27, Buck_25, Miniwave_26, PhatBacter_26, Cookies_26, Pharsalus_27, Inca_25, Gemini_29, Tarkin_28, HufflyPuff_25, Petra64142_28, FireRed_26, Phaux_25, StellaBean_26, TBrady12_28, AmericanBeauty_29, MPhalcon_25, Misfit_26, Paperbeatsrock_28, Murica_25, Nala_26, Argent26_28, MISSy_25, Nimrod_26, GooberAzure_28, Highbury_27, SophKB_26, Gage_28, Filch_27, Saints25_27, Kimchi_28, ShereKhan_28, Stank_29, Quallification_27, Easy2Say_28, Kanye_28, Sassay_25
- Track 11 : Command613_27, Marshmallow_26, Icee_25, Bask21_26, Sotrice96_26, Kostya_26, CrystalP_26, BilboSwaggins_26, Cactus_27, SirDuracell_25
- Track 12 : 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 13 : HanKaySha_27, Phrux_26, Xandras_28, Wiggin_29, Adnama_29, Lilizi_28, Stark_27, Emmina_27, Czystczon1_27, RiverMonster_26, Elite2014_25, Bench_28, ChosenOne_25, DoctorDiddles_26, DrDrey_27, Simpliphy_27, Lilpickle_25, Pumpkin_28, MadamMonkfish_26, NoSleep_27, Dumbo_26, Ukulele_26, OrionPax_27, Elph10_27, Maxxinista_27, JeTaime_28, Hopey_28, 244_28, StolenFromERC_28, Moldemort_27, Hoonter_28, Lilac_28
- Track 14 : Phaja_26, IHOP_26
- Track 15 : Cjw1_26
- Track 16 : YassJohnny_27, Contagion_25, Mosby_25, Tomaszewski_25, BigBubba_27, Bruin_26, ChotaBhai_26, xkcd_27, Rimmer_25
- Track 17 : Pat3_25
- Track 18 : BaboJay_25
- Track 19 : BadStone_25

- Track 20 : Harella_25, Flypotenuse_24, Glexan_24
- Track 21 : Amao_26
- Track 22 : NelitzaMV_26, Henry_26, ShamWow_26, Daikon_24, Toto_26, Mindy_26
- Track 23 : GoldenSpark_28
- Track 24 : Thresher_27
- Track 25 : Youngblood_26
- Track 26 : Blarby_25
- Track 27 : ShiLan_18, Gandalph_18, Burwell21_18, OlympiaSaint_18, NormanBulbieJr_18, Priscilla_18, Yorick_18, Jarcob_18, Spoonbill_18, Martik_18, Cabrinians_18, ShowerHandel_19
- Track 28 : Aubs_18
- Track 29 : Rockne_18, Llij_18, PMC_18
- Track 30 : Sabbb_19, Mattes_18, BobaPhett_18, Gorge_18, James_18, LilMoolah_18
- Track 31 : Flathead_19
- Track 32 : RitaG_18
- Track 33 : 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 34 : SG4_18
- Track 35 : MisterCuddles_18, GUmbie_18, Girr_18, Veteran_18, Phasih_19, Ruby_18
- Track 36 : Totinger_19, LittleShirley_19, GigiOuiOui_18, Starcevich_19, Rialto_20
- Track 37 : Alexphander_20, ArcusAngelus_18, DaWorst_20, Chevrolet_17
- Track 38 : Zerg_18
- Track 39 : Madiba_19
- Track 40 : VRedHorse_18
- Track 41 : Job42_21
- Track 42 : UncleRicky_19, Phatniss_19, Drago_19, Lorde_19, Enby_19
- Track 43 : Doug_19
- Track 44 : TootsiePop_19, Awesomesauce_19, Misha28_19
- Track 45 : Tootsieroll_19, Radiance_18
- Track 46 : OfUltron_18, Jinglebell_18, Llama_18, Modragons_18, AlpineSix_18, Seabastian_18, Ochi17_18
- Track 47 : Spikelee_19, RedBird_18, BuzzLyseyear_20, WillSterrel_19, RockyHorror_19, IrishSherpFalk_19, Mantra_18
- Track 48 : OwlsT2W_20, Hades_18, DosHalletts_21
- Track 49 : Coco12_20, Phanphagia_18, Kingsley_19
- Track 50 : ChickenDinner_19, DocMcStuffins_19, Piper2020_19
- Track 51 : Shauna1_18
- Track 52 : StAnnes_18
- Track 53 : Firehouse51_19, Minnie_19, Leozinho_19, MilleniumForce_19, Whatsapiecost_18
- Track 54 : Karhdo_18
- Track 55 : Strokeseat_18, Hlubikazi_18, Mandlovu_18
- Track 56 : Dante_18
- Track 57 : Kersh_19
- Track 58 : Mova_19
- Track 59 : Moonbeam_19, Kimberlium_20, Juice456_20, QuickMath_19
- Track 60 : Mozy_19
- Track 61 : SuperGrey_19
- Track 62 : DotProduct_18
- Track 63 : MinionDave_19, CaptainTrips_19

- Track 64 : lbhubesi_18, Harley_18
- Track 65 : Nitzel_19
- Track 66 : Taj_18, DeadP_18
- Track 67 : Nivrat_18, Lizziana_18
- Track 68 : Wee_19
- Track 69 : Boomer_19
- Track 70 : ByChance_18
- Track 71 : PhesterPotato_18
- Track 72 : Chuckly_18
- Track 73 : Ramsey_19
- Track 74 : EleanorGeorge_18, JalFarm20_20, KristaRAM_19, Batiatus_18, Fruitloop_18
- Track 75 : Nimbo_18, Blexus_18, Deb65_18, Geralt_18, Inventum_18, Sassafras_18
- Track 76 : XFactor_18, Galactic_18, Filuzino_18
- Track 77 : Che8_18
- Track 78 : Fancypants_18
- Track 79 : ShroomBoi_18
- Track 80 : SwagPigglett_18, TDanisky_18, Philus_18, DRBy19_18, Saal_18, Sparkdehily_18
- Track 81 : Spartacus_19
- Track 82 : SimranZ1_19
- Track 83 : Whouxphf_18
- Track 84 : Donkeykong_18
- Track 85 : LunaBlu_19
- Track 86 : Bobi_20
- Track 87 : Mutaforma13_18
- Track 88 : Pollywog_21, Ogopogo_21
- Track 89 : Royals2015_18
- Track 90 : Bubbles123_19
- Track 91 : Stap_19
- Track 92 : Wachhund_18
- Track 93 : Phalconet_18
- Track 94 : Oksu_19
- Track 95 : Quico_19, Girafales_19, Florinda_18
- Track 96 : Guppsters_19
- Track 97 : Estave1_18
- Track 98 : Mahavrat_18, Juniper1_18
- Track 99 : Plumbus_19
- Track 100 : Ovechkin_18
- Track 101 : Krakatau_19
- Track 102 : Hegedechwinu_19
- Track 103 : Eish_18
- Track 104 : Hamulus_18
- Track 105 : Empress_19
- Track 106 : Sandalphon_19
- Track 107 : SiSi_18
- Track 108 : Poenanya_18, Doomphist_18
- Track 109 : SassyB_18, PopTart_18
- Track 110 : Seagreen_19
- Track 111 : Cornucopia_19, Marker_19
- Track 112 : Leperchaun_18
- Track 113 : Eradicator_18

- Track 114 : Maravista_18
- Track 115 : Melissauren88_18
- Track 116 : Zizzle_18
- Track 117 : Beakin_19
- Track 118 : Bipolar_18
- Track 119 : Emma_18, Tweety_18
- Track 120 : MadMen_19
- Track 121 : DLane_18
- Track 122 : DillTech15_18
- Track 123 : FreddyB_18
- Track 124 : BodEinwohner17_18
- Track 125 : Byougenkin_18
- Track 126 : DirtMcgirt_19
- Track 127 : Ardmore_18
- Track 128 : Latretium_19
- Track 129 : Frankie_19
- Track 130 : Rita_18
- Track 131 : Kenuha5_18
- Track 132 : Zapner_25, Jabbawokkie_26
- Track 133 : Avani_24
- Track 134 : Soul22_24
- Track 135 : Demsculpinboyz_24
- Track 136 : Che9d_24
- Track 137 : Yoshi_24
- Track 138 : Renaud18_20
- Track 139 : LunaStella_19
- Track 140 : ThetaBob_20
- Track 141 : Cornie_20
- Track 142 : Puissant_28
- Track 143 : Oaker_29
- Track 144 : Damien_29, Cborch11_30, Beckerton_29, Megatron06_32
- Track 145 : Phreeze_29, Konstantine_34
- Track 146 : Thumb_29
- Track 147 : Brujita_21, Island3_21
- Track 148 : Courthouse_36, Squint_35, Porcelain_35, Ariel_36, Superphikiman_36, Lucky2013_36
- Track 149 : LittleE_39
- Track 150 : MiaZeal_36
- Track 151 : Optimus_37
- Track 152 : Wanda_39, BAKA_36, Omega_38
- Track 153 : Minerva_39
- Track 154 : Duke13_36
- Track 155 : Hannaconda_33, KashFlow_30
- Track 156 : DmpstrDiver_37
- Track 157 : Krili_57, SchoolBus_58, Idergollasper_58, Mori_58, Alkhayr_56, NiebruSaylor_57, Schuy_56, Familton_59, FoulBall_55, Winget_59, MadKillah_59, TelAviv_55, Catdawg_58, Blessica_59, JangDynasty_58, Vorrps_58
- Track 158 : YungJamal_63, Wildflower_56, Corndog_61, Shida_58, Dylan_58, Ashwin_59, Murai_59, Zakhe101_58
- Track 159 : Ryadel_62
- Track 160 : Smooch_61, Firecracker_59
- Track 161 : Bora_56
- Track 162 : Shipwreck_20, Bogie_20

- Track 163 : Pygmy_20
- Track 164 : Zenon_31
- Track 165 : Rope_30, Send513_30, Candle_30
- Track 166 : Yelo_30
- Track 167 : Papyrus_30
- Track 168 : Weiss13_30
- Track 169 : MontyDev_30
- Track 170 : Nilo_31
- Track 171 : Riparian_30
- Track 172 : MaryV_43, Wildcat_43
- Track 173 : Cosmo_43
- Track 174 : Azrael100_42
- Track 175 : EniyanLRS_40
- Track 176 : Gaia_21
- Track 177 : Nebkiss_22
- Track 178 : Kumao_30
- Track 179 : 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 56, it was called in 208 of the 409 non-draft genes in the pham.

Genes that call this "Most Annotated" start:

- Alexphander_20, 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, Bubbles123_19, Burwell21_18, BuzzLyseyear_20, ByChance_18, Byougenkin_18, Cabrinians_18, CaptainTrips_19, Che8_18, Chevrolet_17, ChickenDinner_19, Chuckly_18, Coco12_20, 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, DocMcStuffins_19, Donkeykong_18, Doomphist_18, Dorothy_18, DosHalletts_21, DotProduct_18, Doug_19, Drago_19, Duke13_36, Eish_18, EleanorGeorge_18, Emma_18, Empress_19, Enby_19, Eradicator_18, Estave1_18, Fancypants_18, Filuzino_18, Firehouse51_19, Flathead_19, Florinda_18, Frankie_19, FreddyB_18, Fruitloop_18, GUmble_18, Galactic_18, Gandolph_18, Geralt_18, GigiOuiOui_18, Girafales_19, Girr_18, Gorge_18, Guppsters_19, Hades_18, Hamulus_18, Hannaconda_33, Harley_18, Hegedechwinu_19, Hlubikazi_18, IbOuu_18, Ibhubesi_18, Inventum_18, IrishSherpFalk_19, JalFarm20_20, James_18, Jarcob_18, Jinglebell_18, Job42_21, JoeyJr_18, Juice456_20, Juniper1_18, Karhdo_18, KashFlow_30, Kenuha5_18, Kersh_19, Kimberlium_20, 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, Mutaforma13_18, Nimbo_18, Nitzel_19, Nivrat_18, NormanBulbieJr_18, Ochi17_18, OfUltron_18, Ogopogo_21, Oksu_19, OldBen_18, OlympiaSaint_18, Omega_38, Optimus_37,

Ovechkin_18, OwlsT2W_20, PHappiness_18, PMC_18, Pacc40_18, Phalconet_18, Phanphagia_18, Phasih_19, Phatniss_19, PhesterPhotato_18, Philus_18, Piper2020_19, Plumbus_19, Poenanya_18, Polka14_19, Pollywog_21, 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, Shauna1_18, ShiLan_18, ShowerHandel_19, ShroomBoi_18, SiSi_18, SimranZ1_19, Sparkdehlily_18, Spartacus_19, Spikelee_19, Spoonbill_18, Squint_35, StAnnes_18, Stap_19, Starcevich_19, Strokeseat_18, SuperGrey_19, Superphikiman_36, SwagPiggett_18, TDanisky_18, Taj_18, TootsiePop_19, Tootsieroll_19, Totinger_19, Tweety_18, UncleRicky_19, VRedHorse_18, Veteran_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, 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_29, Argent26_28, Ashwin_59, Asriel_25, Azrael100_42, BaboJay_25, BadStone_25, Balomoji_25, Barbarian_25, Bask21_26, Beckerton_29, Bench_28, BigBubba_27, BigMama_28, BilboSwaggins_26, Blarby_25, Blessica_59, Bogie_20, Bora_56, Bruin_26, Brujita_21, Buck_25, 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, Czyszczon1_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, Familton_59, Filch_27, FireRed_26, Firecracker_59, Flypotenuse_24, FoulBall_55, 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, HufflyPuff_25, IHOP_26, Icee_25, Idergollasper_58, Inca_25, Indlulamithi_27, Island3_21, JacoRen57_20, JangDynasty_58, JeTaima_28, KandZ_30, Kanye_28, Kimchi_28, Konstantine_34, Kostya_26, Krili_57, Kumao_30, Lilac_28, Lilizi_28, Lilpickle_25, LunaStella_19, MISSy_25, MPhalcon_25, MadKillah_59, MadamMonkfish_26, Manda_27, Marshmallow_26, MaryV_43, Maxxinista_27, Megatron06_32, 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, Paperbeatsrock_28, Papyrus_30, Pat3_25, Penelope2018_30, Petra64142_28, Phaja_26, Pharsalus_27, PhatBacter_26, Phaux_25, Phreeze_29, Phrux_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_56, Send513_30, ShamWow_26, ShereKhan_28, Shida_58, Shipwreck_20, Simpliphy_27, SirDuracell_25, SirHarley_29, Smooch_61, SophKB_26, Sotrice96_26, Stank_29, Stark_27, StellaBean_26, StolenFromERC_28, TBrady12_28, Tarkin_28, TeardropMSU_25, Teaspoon_27, TelAviv_55, Terminus_26, ThetaBob_20, Thoth_30, Thresher_27, Thumb_29, Tomaszewski_25, Toto_26, Traaww1_24,

Troll4_30, Tuco_27, Ukulele_26, Visconti_30, Vorrps_58, WaldoWhy_31, Weiss13_30, Wiggin_29, Wildcat_43, Wildflower_56, Willez_25, Winget_59, Xandras_28, YassJohnny_27, Yelo_30, Youngblood_26, YungJamal_63, Zakhe101_58, Zenon_31, xkcd_27,

Summary by start number:

Start 1:

- Found in 10 of 451 (2.2%) of genes in pham
- Manual Annotations of this start: 8 of 409
- 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 451 (0.4%) of genes in pham
- Manual Annotations of this start: 2 of 409
- 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 451 (0.2%) of genes in pham
- Manual Annotations of this start: 1 of 409
- Called 100.0% of time when present
- Phage (with cluster) where this start called: Indlulamithi_27 (AC),

Start 5:

- Found in 10 of 451 (2.2%) of genes in pham
- No Manual Annotations of this start.
- Called 10.0% of time when present
- Phage (with cluster) where this start called: MontyDev_30 (R),

Start 19:

- Found in 1 of 451 (0.2%) of genes in pham
- Manual Annotations of this start: 1 of 409
- Called 100.0% of time when present
- Phage (with cluster) where this start called: Hawkeye_32 (D2),

Start 22:

- Found in 9 of 451 (2.0%) of genes in pham
- Manual Annotations of this start: 7 of 409
- 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_32 (H1), Oaker_29 (H1), Phreeze_29 (H1), Puissant_28 (H1), Thumb_29 (H1),

Start 49:

- Found in 7 of 451 (1.6%) of genes in pham
- Manual Annotations of this start: 7 of 409
- 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 51:

- Found in 1 of 451 (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 52:

- Found in 2 of 451 (0.4%) of genes in pham
- Manual Annotations of this start: 2 of 409
- Called 100.0% of time when present
- Phage (with cluster) where this start called: Gaia_21 (X), Nebkiss_22 (X),

Start 56:

- Found in 233 of 451 (51.7%) of genes in pham
- Manual Annotations of this start: 208 of 409
- Called 96.6% of time when present
- Phage (with cluster) where this start called: Alexphander_20 (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), Bubbles123_19 (F1), Burwell21_18 (F1), BuzzLyseyear_20 (F1), ByChance_18 (F1), Byougenkin_18 (F1), Cabrinians_18 (F1), CaptainTrips_19 (F1), Che8_18 (F1), Chevrolet_17 (F1), ChickenDinner_19 (F1), Chuckly_18 (F1), Coco12_20 (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), DocMcStuffins_19 (F1), Donkeykong_18 (F1), Doomphist_18 (F1), Dorothy_18 (F1), DosHalletts_21 (F1), DotProduct_18 (F1), Doug_19 (F1), Drago_19 (F1), Duke13_36 (J), Eish_18 (F1), EleanorGeorge_18 (F1), Emma_18 (F1), Empress_19 (F1), Enby_19 (F1), Eradicator_18 (F1), Estave1_18 (F1), Fancypants_18 (F1), Filuzino_18 (F1), Firehouse51_19 (F1), Flathead_19 (F1), Florinda_18 (F1), Frankie_19 (F1), FreddyB_18 (F1), Fruitloop_18 (F1), GUmbie_18 (F1), Galactic_18 (F1), Gandolph_18 (F1), Geralt_18 (F1), GigiOuiOui_18 (F1), Girfales_19 (F1), Girr_18 (F1), Gorge_18 (F1), Guppsters_19 (F1), Hades_18 (F1), Hamulus_18 (F1), Hannaconda_33 (J), Harley_18 (F1), Hegedechwinu_19 (F1), Hlubikazi_18 (F1), IbOuu_18 (F1), Ibhubesi_18 (F1), Inventum_18 (F1), IrishSherpFalk_19 (F1), JalFarm20_20 (F1), James_18 (F1), Jarcob_18 (F1), Jinglebell_18 (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), 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), Mutaforma13_18 (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), Piper2020_19 (F1), Plumbus_19 (F1), Poenanya_18 (F1), Polka14_19 (F1), Pollywog_21 (F1), PopTart_18 (F1), Porcelain_35 (J), Priscilla_18 (F1), QuickMath_19 (F1), Quico_19 (F1), Radiance_18 (F1), Ramsey_19 (F1), RedBird_18 (F1), Rialto_20 (F1), RitaG_18 (F1), Rita_18 (F1), Rockne_18 (F1), RockyHorror_19 (F1), Royals2015_18 (F1), Ruby_18 (F1), SG4_18 (F1), Saal_18 (F1), Sabbb_19 (F1), Sandalphon_19 (F1), Sassafras_18 (F1), SassyB_18 (F1), Scottish_19 (F1), Sebastian_18 (F1), Seagreen_19 (F1), Shauna1_18 (F1), ShiLan_18 (F1), ShowerHandel_19 (F1), ShroomBoi_18 (F1), SiSi_18 (F1), SimranZ1_19 (F1), Sparkdehlily_18 (F1), Spartacus_19 (F1), Spikelee_19 (F1), Spoonbill_18 (F1), Squint_35 (J), StAnnes_18 (F1), Stap_19 (F1), Starceвич_19 (F1), Strokeseat_18 (F1), SuperGrey_19 (F1), Superphikiman_36 (J), SwagPiggett_18 (F1), TDanisky_18 (F1), Taj_18 (F1), TootsiePop_19 (F1), Tootsieroll_19 (F1), Totinger_19 (F1), Tweety_18 (F1), UncleRicky_19 (F1), VRedHorse_18 (F1), Veteran_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 57:

- Found in 6 of 451 (1.3%) of genes in pham
- Manual Annotations of this start: 6 of 409
- 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 58:

- Found in 2 of 451 (0.4%) of genes in pham
- Manual Annotations of this start: 1 of 409
- Called 50.0% of time when present
- Phage (with cluster) where this start called: Cornie_20 (F5),

Start 59:

- Found in 3 of 451 (0.7%) of genes in pham
- Manual Annotations of this start: 2 of 409
- Called 100.0% of time when present
- Phage (with cluster) where this start called: LunaStella_19 (F4), Renaud18_20 (F4), ThetaBob_20 (F4),

Start 63:

- Found in 2 of 451 (0.4%) of genes in pham
- Manual Annotations of this start: 2 of 409
- Called 100.0% of time when present
- Phage (with cluster) where this start called: Brujita_21 (I1), Island3_21 (I1),

Start 67:

- Found in 3 of 451 (0.7%) of genes in pham
- Manual Annotations of this start: 2 of 409
- Called 100.0% of time when present
- Phage (with cluster) where this start called: Bogie_20 (P1), Pygmy_20 (P1), Shipwreck_20 (P1),

Start 73:

- Found in 28 of 451 (6.2%) of genes in pham
- Manual Annotations of this start: 22 of 409
- Called 100.0% of time when present
- Phage (with cluster) where this start called: Alkhayr_56 (O), Ashwin_59 (O), Blessica_59 (O), Bora_56 (O), Catdawg_58 (O), Corndog_61 (O), Dylan_58 (O), Familton_59 (O), Firecracker_59 (O), FoulBall_55 (O), Idergollasper_58 (O), JangDynasty_58 (O), Krili_57 (O), MadKillah_59 (O), Mori_58 (O), Murai_59 (O), NiebruSaylor_57 (O), Ryadel_62 (O), SchoolBus_58 (O), Schuy_56 (O), Shida_58 (O), Smooch_61 (O), TelAviv_55 (O), Vorrrps_58 (O), Wildflower_56 (O), Winget_59 (O), YungJamal_63 (O), Zakhe101_58 (O),

Start 75:

- Found in 175 of 451 (38.8%) of genes in pham
- Manual Annotations of this start: 1 of 409
- Called 0.6% of time when present
- Phage (with cluster) where this start called: Melissauren88_18 (F1),

Start 88:

- Found in 130 of 451 (28.8%) of genes in pham
- Manual Annotations of this start: 116 of 409
- Called 97.7% of time when present
- Phage (with cluster) where this start called: 244_28 (E), ABCat_25 (E), Adnama_29 (E), Amao_26 (E), AmericanBeauty_29 (E), Argent26_28 (E), Asriel_25 (E), BaboJay_25 (E), BadStone_25 (E), Balomoji_25 (E), Barbarian_25 (E), Bask21_26 (E), Bench_28 (E), BigBubba_27 (E), BilboSwaggins_26 (E), Bruin_26 (E), Buck_25 (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), Czyszczon1_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), Filch_27 (E), FireRed_26 (E), Flypotenuse_24 (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), Paperbeatsrock_28 (E), Pat3_25 (E), Petra64142_28 (E), Phaja_26 (E), Pharsalus_27 (E), PhatBacter_26 (E), Phaux_25 (E), Phrux_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), TBrady12_28 (E), Tarkin_28 (E), TeardropMSU_25 (E), Teaspoon_27 (E), Terminus_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 135:

- Found in 23 of 451 (5.1%) of genes in pham

- Manual Annotations of this start: 20 of 409
- Called 91.3% 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), Prager_30 (D1), SirHarley_29 (D1), Thoth_30 (D1), Troll4_30 (D1), Visconti_30 (D1), WaldoWhy_31 (D1),

Start 193:

- Found in 1 of 451 (0.2%) of genes in pham
- Manual Annotations of this start: 1 of 409
- Called 100.0% of time when present
- Phage (with cluster) where this start called: JacoRen57_20 (AB),

Summary by clusters:

There are 19 clusters represented in this pham: F1, F2, P1, E, F5, F, I1, F4, J, H1, AC, O, R, V, X, singleton, D2, AB, D1,

Info for manual annotations of cluster AB:

- Start number 193 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 135 was manually annotated 20 times for cluster D1.

Info for manual annotations of cluster D2:

- Start number 19 was manually annotated 1 time for cluster D2.

Info for manual annotations of cluster E:

- Start number 88 was manually annotated 116 times for cluster E.

Info for manual annotations of cluster F1:

- Start number 56 was manually annotated 190 times for cluster F1.
- Start number 75 was manually annotated 1 time for cluster F1.

Info for manual annotations of cluster F2:

- Start number 49 was manually annotated 7 times for cluster F2.

Info for manual annotations of cluster F4:

- Start number 59 was manually annotated 2 times for cluster F4.

Info for manual annotations of cluster F5:

- Start number 58 was manually annotated 1 time for cluster F5.

Info for manual annotations of cluster H1:

- Start number 22 was manually annotated 7 times for cluster H1.

Info for manual annotations of cluster I1:

- Start number 63 was manually annotated 2 times for cluster I1.

Info for manual annotations of cluster J:

- Start number 56 was manually annotated 17 times for cluster J.

Info for manual annotations of cluster O:

- Start number 73 was manually annotated 22 times for cluster O.

Info for manual annotations of cluster P1:

- Start number 67 was manually annotated 2 times for cluster P1.

Info for manual annotations of cluster R:

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

Info for manual annotations of cluster V:

- Start number 57 was manually annotated 5 times for cluster V.

Info for manual annotations of cluster X:

- Start number 52 was manually annotated 2 times for cluster X.

Gene Information:

Gene: 244_28 Start: 22564, Stop: 24960, Start Num: 88

Candidate Starts for 244_28:

(Start: 88 @22564 has 116 MA's), (129, 22741), (134, 22762), (173, 22909), (201, 23083), (207, 23116), (213, 23152), (232, 23245), (244, 23305), (248, 23323), (272, 23455), (280, 23500), (304, 23632), (310, 23677), (325, 23737), (342, 23851), (346, 23872), (352, 23911), (355, 23932), (357, 23947), (385, 24097), (386, 24103), (387, 24121), (397, 24175), (408, 24259), (424, 24352), (458, 24598), (483, 24814), (492, 24898), (499, 24931),

Gene: ABCat_25 Start: 22283, Stop: 24679, Start Num: 88

Candidate Starts for ABCat_25:

(Start: 88 @22283 has 116 MA's), (129, 22460), (134, 22481), (173, 22628), (196, 22769), (201, 22802), (207, 22835), (213, 22871), (232, 22964), (244, 23024), (248, 23042), (263, 23123), (304, 23351), (310, 23396), (346, 23591), (347, 23597), (349, 23606), (355, 23651), (357, 23666), (386, 23822), (387, 23840), (390, 23849), (398, 23903), (408, 23978), (409, 23981), (439, 24191), (441, 24203), (458, 24317), (483, 24533), (492, 24617), (497, 24641), (499, 24650),

Gene: Adjutor_31 Start: 24256, Stop: 26526, Start Num: 135

Candidate Starts for Adjutor_31:

(Start: 135 @24256 has 20 MA's), (167, 24391), (169, 24400), (191, 24574), (192, 24580), (195, 24592), (224, 24745), (226, 24760), (230, 24775), (300, 25156), (301, 25162), (309, 25207), (327, 25294), (359, 25495), (360, 25501), (369, 25549), (374, 25579), (377, 25603), (405, 25792), (410, 25819), (417, 25867), (430, 25939), (434, 25978), (436, 25999), (438, 26014), (440, 26032), (442, 26062), (453, 26146), (478, 26347), (483, 26389), (502, 26515),

Gene: Adnama_29 Start: 22791, Stop: 25187, Start Num: 88

Candidate Starts for Adnama_29:

(Start: 88 @22791 has 116 MA's), (129, 22968), (134, 22989), (173, 23136), (201, 23310), (207, 23343), (213, 23379), (232, 23472), (244, 23532), (248, 23550), (272, 23682), (280, 23727), (304,

23859), (310, 23904), (325, 23964), (342, 24078), (346, 24099), (352, 24138), (355, 24159), (357, 24174), (385, 24324), (386, 24330), (387, 24348), (397, 24402), (408, 24486), (424, 24579), (458, 24825), (483, 25041), (492, 25125), (499, 25158),

Gene: Alexphander_20 Start: 17923, Stop: 20460, Start Num: 56

Candidate Starts for Alexphander_20:

(Start: 56 @17923 has 208 MA's), (66, 17944), (Start: 75 @17965 has 1 MA's), (84, 18004), (104, 18073), (106, 18082), (107, 18085), (113, 18103), (119, 18136), (122, 18151), (154, 18310), (155, 18313), (163, 18343), (167, 18358), (180, 18436), (183, 18457), (184, 18460), (194, 18526), (207, 18601), (208, 18607), (217, 18649), (218, 18655), (219, 18658), (225, 18691), (226, 18697), (232, 18727), (237, 18748), (242, 18778), (244, 18787), (264, 18895), (267, 18907), (268, 18916), (269, 18919), (270, 18928), (271, 18934), (274, 18949), (275, 18952), (277, 18973), (287, 19015), (292, 19048), (317, 19189), (319, 19195), (328, 19249), (329, 19252), (331, 19279), (343, 19339), (346, 19354), (348, 19366), (349, 19369), (358, 19435), (364, 19459), (366, 19480), (368, 19489), (378, 19549), (379, 19552), (386, 19588), (387, 19606), (391, 19618), (392, 19627), (396, 19654), (406, 19723), (408, 19741), (411, 19750), (413, 19762), (417, 19798), (421, 19828), (433, 19909), (440, 19963), (446, 20023), (453, 20065), (462, 20143), (470, 20200), (474, 20224), (480, 20278), (483, 20326), (489, 20368), (491, 20392), (492, 20395),

Gene: Alkhayr_56 Start: 35810, Stop: 38320, Start Num: 73

Candidate Starts for Alkhayr_56:

(Start: 73 @35810 has 22 MA's), (79, 35843), (93, 35912), (94, 35915), (102, 35939), (107, 35963), (114, 35987), (119, 36020), (159, 36227), (162, 36239), (163, 36242), (187, 36389), (188, 36419), (194, 36443), (202, 36473), (203, 36476), (207, 36503), (210, 36527), (218, 36557), (229, 36614), (233, 36638), (241, 36674), (242, 36686), (247, 36710), (248, 36713), (254, 36755), (274, 36851), (275, 36854), (323, 37109), (346, 37253), (355, 37313), (365, 37385), (366, 37388), (383, 37484), (408, 37658), (413, 37679), (426, 37772), (429, 37784), (440, 37874), (451, 37949), (461, 37994), (485, 38195), (490, 38249), (495, 38264),

Gene: AlpineSix_18 Start: 17634, Stop: 20171, Start Num: 56

Candidate Starts for AlpineSix_18:

(Start: 56 @17634 has 208 MA's), (66, 17655), (Start: 75 @17676 has 1 MA's), (84, 17715), (104, 17784), (106, 17793), (107, 17796), (113, 17814), (122, 17862), (154, 18021), (155, 18024), (166, 18066), (167, 18069), (180, 18147), (183, 18168), (184, 18171), (194, 18237), (196, 18246), (202, 18282), (207, 18312), (208, 18318), (217, 18360), (218, 18366), (219, 18369), (225, 18402), (226, 18408), (232, 18438), (237, 18459), (242, 18489), (244, 18498), (264, 18606), (267, 18618), (268, 18627), (269, 18630), (270, 18639), (271, 18645), (274, 18660), (275, 18663), (277, 18684), (287, 18726), (292, 18759), (317, 18900), (319, 18906), (328, 18960), (329, 18963), (331, 18990), (346, 19065), (348, 19077), (349, 19080), (358, 19146), (363, 19167), (364, 19170), (366, 19191), (375, 19242), (378, 19260), (379, 19263), (385, 19293), (387, 19317), (391, 19329), (406, 19434), (408, 19452), (411, 19461), (413, 19473), (417, 19509), (421, 19539), (425, 19560), (430, 19584), (433, 19620), (446, 19734), (453, 19776), (462, 19854), (470, 19911), (474, 19935), (480, 19989), (483, 20037), (489, 20079), (491, 20103), (492, 20106),

Gene: Amao_26 Start: 21488, Stop: 23884, Start Num: 88

Candidate Starts for Amao_26:

(Start: 88 @21488 has 116 MA's), (129, 21665), (134, 21686), (173, 21833), (196, 21974), (201, 22007), (213, 22076), (232, 22169), (244, 22229), (248, 22247), (272, 22379), (280, 22424), (304, 22556), (310, 22601), (342, 22775), (346, 22796), (352, 22835), (355, 22856), (357, 22871), (386, 23027), (387, 23045), (397, 23099), (408, 23183), (455, 23507), (483, 23738), (492, 23822), (499, 23855),

Gene: AmericanBeauty_29 Start: 22271, Stop: 24667, Start Num: 88

Candidate Starts for AmericanBeauty_29:

(Start: 88 @22271 has 116 MA's), (129, 22448), (134, 22469), (173, 22616), (196, 22757), (201, 22790), (207, 22823), (213, 22859), (232, 22952), (244, 23012), (248, 23030), (272, 23162), (280, 23207), (304, 23339), (310, 23384), (325, 23444), (342, 23558), (346, 23579), (352, 23618), (355, 23639), (357, 23654), (385, 23804), (386, 23810), (387, 23828), (397, 23882), (408, 23966), (424, 24059), (458, 24305), (483, 24521), (492, 24605), (499, 24638),

Gene: ArcusAngelus_18 Start: 17438, Stop: 19975, Start Num: 56

Candidate Starts for ArcusAngelus_18:

(Start: 56 @17438 has 208 MA's), (66, 17459), (Start: 75 @17480 has 1 MA's), (84, 17519), (104, 17588), (106, 17597), (107, 17600), (113, 17618), (119, 17651), (122, 17666), (154, 17825), (155, 17828), (163, 17858), (167, 17873), (180, 17951), (183, 17972), (184, 17975), (194, 18041), (207, 18116), (208, 18122), (217, 18164), (218, 18170), (219, 18173), (225, 18206), (226, 18212), (232, 18242), (237, 18263), (242, 18293), (244, 18302), (264, 18410), (267, 18422), (268, 18431), (269, 18434), (270, 18443), (271, 18449), (274, 18464), (275, 18467), (277, 18488), (287, 18530), (292, 18563), (317, 18704), (319, 18710), (328, 18764), (329, 18767), (331, 18794), (343, 18854), (346, 18869), (348, 18881), (349, 18884), (358, 18950), (364, 18974), (366, 18995), (368, 19004), (378, 19064), (379, 19067), (386, 19103), (387, 19121), (391, 19133), (392, 19142), (396, 19169), (406, 19238), (408, 19256), (411, 19265), (413, 19277), (417, 19313), (421, 19343), (433, 19424), (440, 19478), (446, 19538), (453, 19580), (462, 19658), (470, 19715), (474, 19739), (480, 19793), (483, 19841), (489, 19883), (491, 19907), (492, 19910),

Gene: Ardmore_18 Start: 17447, Stop: 19984, Start Num: 56

Candidate Starts for Ardmore_18:

(54, 17435), (Start: 56 @17447 has 208 MA's), (66, 17468), (Start: 75 @17489 has 1 MA's), (84, 17528), (104, 17597), (106, 17606), (107, 17609), (113, 17627), (119, 17660), (122, 17675), (132, 17723), (154, 17834), (155, 17837), (163, 17867), (166, 17879), (167, 17882), (180, 17960), (184, 17984), (194, 18050), (202, 18095), (207, 18125), (208, 18131), (210, 18149), (217, 18173), (219, 18182), (225, 18215), (226, 18221), (232, 18251), (241, 18290), (242, 18302), (244, 18311), (247, 18326), (248, 18329), (268, 18440), (269, 18443), (270, 18452), (271, 18458), (274, 18473), (275, 18476), (277, 18497), (285, 18527), (287, 18539), (292, 18572), (310, 18683), (311, 18686), (317, 18713), (319, 18719), (328, 18773), (329, 18776), (346, 18878), (348, 18890), (349, 18893), (358, 18959), (364, 18983), (366, 19004), (368, 19013), (378, 19073), (379, 19076), (386, 19112), (387, 19130), (391, 19142), (392, 19151), (396, 19178), (406, 19247), (408, 19265), (411, 19274), (413, 19286), (417, 19322), (421, 19352), (425, 19373), (433, 19433), (440, 19487), (446, 19547), (453, 19589), (470, 19724), (474, 19748), (480, 19802), (483, 19850), (489, 19892), (491, 19916), (492, 19919),

Gene: Argent26_28 Start: 22274, Stop: 24670, Start Num: 88

Candidate Starts for Argent26_28:

(Start: 88 @22274 has 116 MA's), (129, 22451), (134, 22472), (173, 22619), (196, 22760), (201, 22793), (207, 22826), (213, 22862), (232, 22955), (244, 23015), (248, 23033), (272, 23165), (280, 23210), (304, 23342), (310, 23387), (325, 23447), (342, 23561), (346, 23582), (352, 23621), (355, 23642), (357, 23657), (385, 23807), (386, 23813), (387, 23831), (397, 23885), (408, 23969), (424, 24062), (458, 24308), (483, 24524), (492, 24608), (499, 24641),

Gene: Ariel_36 Start: 27338, Stop: 29845, Start Num: 56

Candidate Starts for Ariel_36:

(Start: 56 @27338 has 208 MA's), (113, 27533), (119, 27569), (122, 27584), (143, 27671), (147, 27686), (167, 27761), (171, 27773), (176, 27800), (190, 27905), (199, 27944), (202, 27953), (207, 27977), (208, 27983), (210, 28001), (215, 28019), (219, 28034), (221, 28043), (222, 28052), (225, 28067), (231, 28094), (232, 28103), (241, 28142), (242, 28154), (244, 28163), (260, 28247), (275, 28328), (280, 28358), (281, 28361), (287, 28391), (290, 28418), (293, 28427), (300, 28478), (302,

28487), (304, 28490), (309, 28526), (313, 28547), (322, 28583), (347, 28736), (355, 28790), (364, 28835), (365, 28853), (366, 28856), (374, 28895), (395, 29042), (397, 29051), (407, 29120), (408, 29135), (433, 29300), (443, 29387), (450, 29435), (458, 29486), (467, 29564), (493, 29786), (495, 29789), (499, 29816),

Gene: Ashwin_59 Start: 36580, Stop: 39090, Start Num: 73

Candidate Starts for Ashwin_59:

(Start: 73 @36580 has 22 MA's), (79, 36613), (93, 36682), (94, 36685), (102, 36709), (107, 36733), (114, 36757), (119, 36790), (159, 36997), (162, 37009), (163, 37012), (187, 37159), (188, 37189), (194, 37213), (202, 37243), (203, 37246), (207, 37273), (210, 37297), (218, 37327), (229, 37384), (241, 37444), (242, 37456), (247, 37480), (248, 37483), (254, 37525), (274, 37621), (275, 37624), (323, 37879), (346, 38023), (355, 38083), (365, 38155), (366, 38158), (383, 38254), (408, 38428), (413, 38449), (426, 38542), (429, 38554), (440, 38644), (451, 38719), (461, 38764), (485, 38965), (490, 39019), (495, 39034),

Gene: Asriel_25 Start: 21152, Stop: 23548, Start Num: 88

Candidate Starts for Asriel_25:

(Start: 88 @21152 has 116 MA's), (129, 21329), (134, 21350), (173, 21497), (196, 21638), (201, 21671), (207, 21704), (213, 21740), (232, 21833), (244, 21893), (248, 21911), (263, 21992), (304, 22220), (310, 22265), (346, 22460), (347, 22466), (349, 22475), (355, 22520), (357, 22535), (386, 22691), (387, 22709), (390, 22718), (398, 22772), (408, 22847), (409, 22850), (439, 23060), (441, 23072), (458, 23186), (483, 23402), (492, 23486), (497, 23510), (499, 23519),

Gene: Aubs_18 Start: 17557, Stop: 20094, Start Num: 56

Candidate Starts for Aubs_18:

(Start: 56 @17557 has 208 MA's), (66, 17578), (Start: 75 @17599 has 1 MA's), (83, 17635), (84, 17638), (104, 17707), (106, 17716), (107, 17719), (113, 17737), (119, 17770), (122, 17785), (132, 17833), (152, 17938), (154, 17944), (155, 17947), (166, 17989), (167, 17992), (184, 18094), (194, 18160), (202, 18205), (207, 18235), (208, 18241), (210, 18259), (217, 18283), (219, 18292), (225, 18325), (226, 18331), (237, 18382), (241, 18400), (242, 18412), (244, 18421), (247, 18436), (249, 18442), (268, 18550), (269, 18553), (270, 18562), (271, 18568), (274, 18583), (275, 18586), (277, 18607), (285, 18637), (287, 18649), (292, 18682), (304, 18748), (310, 18793), (311, 18796), (317, 18823), (319, 18829), (328, 18883), (329, 18886), (331, 18913), (346, 18988), (348, 19000), (349, 19003), (358, 19069), (364, 19093), (368, 19123), (375, 19165), (378, 19183), (379, 19186), (386, 19222), (387, 19240), (392, 19261), (396, 19288), (406, 19357), (408, 19375), (411, 19384), (413, 19396), (417, 19432), (425, 19483), (428, 19501), (433, 19543), (440, 19597), (453, 19699), (462, 19777), (470, 19834), (474, 19858), (480, 19912), (483, 19960), (491, 20026), (492, 20029),

Gene: Avani_24 Start: 17093, Stop: 19642, Start Num: 49

Candidate Starts for Avani_24:

(47, 17084), (Start: 49 @17093 has 7 MA's), (Start: 56 @17153 has 208 MA's), (69, 17186), (72, 17189), (92, 17258), (100, 17288), (143, 17468), (147, 17483), (155, 17519), (156, 17525), (157, 17528), (164, 17546), (167, 17558), (171, 17570), (175, 17594), (176, 17597), (199, 17741), (202, 17750), (207, 17774), (210, 17798), (217, 17822), (218, 17828), (222, 17849), (223, 17852), (226, 17870), (232, 17900), (239, 17930), (242, 17951), (260, 18044), (263, 18059), (264, 18068), (268, 18089), (269, 18092), (276, 18134), (285, 18176), (286, 18179), (287, 18188), (290, 18215), (293, 18224), (298, 18263), (302, 18284), (304, 18287), (309, 18323), (313, 18344), (328, 18422), (329, 18425), (339, 18479), (348, 18539), (362, 18626), (364, 18632), (366, 18653), (374, 18689), (382, 18743), (385, 18752), (395, 18830), (398, 18848), (401, 18884), (402, 18887), (406, 18905), (407, 18908), (408, 18923), (417, 18980), (419, 18992), (433, 19088), (443, 19175), (450, 19223), (452, 19247), (456, 19274), (458, 19283), (461, 19322), (467, 19361), (470, 19385), (473, 19406), (483, 19502), (486, 19523), (493, 19583), (495, 19586), (499, 19613),

Gene: Awesomesauce_19 Start: 17268, Stop: 19793, Start Num: 56

Candidate Starts for Awesomesauce_19:

(Start: 56 @17268 has 208 MA's), (66, 17289), (Start: 75 @17310 has 1 MA's), (84, 17349), (104, 17418), (106, 17427), (107, 17430), (113, 17448), (119, 17481), (122, 17496), (132, 17544), (154, 17655), (155, 17658), (167, 17703), (180, 17781), (184, 17805), (194, 17871), (202, 17916), (207, 17946), (208, 17952), (210, 17970), (217, 17994), (219, 18003), (225, 18036), (226, 18042), (232, 18072), (241, 18111), (242, 18123), (244, 18132), (247, 18147), (248, 18150), (275, 18297), (285, 18348), (303, 18459), (311, 18510), (316, 18534), (331, 18627), (340, 18672), (342, 18681), (346, 18702), (348, 18714), (349, 18717), (355, 18762), (364, 18807), (365, 18825), (366, 18828), (375, 18879), (385, 18930), (386, 18936), (387, 18954), (391, 18966), (392, 18975), (397, 19008), (408, 19089), (419, 19158), (424, 19185), (427, 19212), (435, 19263), (440, 19311), (473, 19554), (483, 19659), (486, 19680), (494, 19734), (498, 19758),

Gene: Azrael100_42 Start: 28340, Stop: 30907, Start Num: 57

Candidate Starts for Azrael100_42:

(Start: 57 @28340 has 6 MA's), (78, 28409), (110, 28532), (112, 28538), (113, 28541), (117, 28565), (121, 28586), (151, 28742), (153, 28748), (155, 28754), (163, 28784), (164, 28790), (169, 28811), (170, 28820), (179, 28880), (189, 28958), (208, 29057), (214, 29090), (218, 29105), (219, 29108), (226, 29147), (237, 29198), (241, 29216), (244, 29237), (245, 29243), (251, 29270), (254, 29297), (268, 29366), (273, 29390), (276, 29411), (280, 29432), (283, 29441), (287, 29462), (292, 29495), (293, 29498), (300, 29549), (315, 29627), (320, 29645), (326, 29684), (346, 29801), (353, 29846), (363, 29903), (366, 29927), (368, 29936), (372, 29954), (378, 29999), (385, 30032), (389, 30068), (416, 30242), (417, 30260), (418, 30266), (427, 30323), (469, 30647), (472, 30665), (477, 30716), (484, 30779), (491, 30854),

Gene: BAKA_36 Start: 29892, Stop: 32447, Start Num: 56

Candidate Starts for BAKA_36:

(Start: 56 @29892 has 208 MA's), (113, 30087), (119, 30123), (122, 30138), (132, 30186), (154, 30297), (155, 30300), (163, 30330), (167, 30345), (180, 30423), (184, 30447), (194, 30513), (202, 30558), (207, 30588), (208, 30594), (210, 30612), (217, 30636), (219, 30645), (225, 30678), (226, 30684), (232, 30714), (241, 30753), (242, 30765), (244, 30774), (247, 30789), (248, 30792), (268, 30903), (269, 30906), (270, 30915), (271, 30921), (274, 30936), (275, 30939), (277, 30960), (285, 30990), (287, 31002), (292, 31035), (304, 31101), (310, 31146), (311, 31149), (317, 31176), (319, 31182), (328, 31236), (329, 31239), (343, 31326), (346, 31341), (348, 31353), (349, 31356), (358, 31422), (366, 31467), (368, 31476), (378, 31536), (379, 31539), (386, 31575), (387, 31593), (391, 31605), (392, 31614), (396, 31641), (406, 31710), (408, 31728), (411, 31737), (413, 31749), (417, 31785), (421, 31815), (425, 31836), (430, 31860), (433, 31896), (440, 31950), (446, 32010), (453, 32052), (470, 32187), (474, 32211), (480, 32265), (483, 32313), (489, 32355), (491, 32379), (492, 32382),

Gene: BaboJay_25 Start: 21834, Stop: 24230, Start Num: 88

Candidate Starts for BaboJay_25:

(Start: 88 @21834 has 116 MA's), (129, 22011), (134, 22032), (173, 22179), (196, 22320), (201, 22353), (207, 22386), (213, 22422), (232, 22515), (244, 22575), (248, 22593), (272, 22725), (280, 22770), (304, 22902), (310, 22947), (342, 23121), (346, 23142), (352, 23181), (355, 23202), (357, 23217), (385, 23367), (386, 23373), (387, 23391), (397, 23445), (408, 23529), (424, 23622), (458, 23868), (483, 24084), (492, 24168), (499, 24201),

Gene: BadStone_25 Start: 22283, Stop: 24679, Start Num: 88

Candidate Starts for BadStone_25:

(Start: 88 @22283 has 116 MA's), (129, 22460), (134, 22481), (173, 22628), (196, 22769), (201, 22802), (207, 22835), (213, 22871), (232, 22964), (244, 23024), (263, 23123), (304, 23351), (310, 23396), (346, 23591), (347, 23597), (349, 23606), (355, 23651), (357, 23666), (386, 23822), (387,

23840), (390, 23849), (398, 23903), (408, 23978), (409, 23981), (439, 24191), (441, 24203), (458, 24317), (483, 24533), (492, 24617), (497, 24641), (499, 24650),

Gene: Balomoji_25 Start: 22017, Stop: 24413, Start Num: 88

Candidate Starts for Balomoji_25:

(Start: 88 @22017 has 116 MA's), (129, 22194), (134, 22215), (173, 22362), (196, 22503), (201, 22536), (207, 22569), (213, 22605), (232, 22698), (244, 22758), (248, 22776), (263, 22857), (304, 23085), (310, 23130), (346, 23325), (347, 23331), (349, 23340), (355, 23385), (357, 23400), (386, 23556), (387, 23574), (390, 23583), (398, 23637), (408, 23712), (409, 23715), (439, 23925), (441, 23937), (458, 24051), (483, 24267), (492, 24351), (497, 24375), (499, 24384),

Gene: Barbarian_25 Start: 21152, Stop: 23548, Start Num: 88

Candidate Starts for Barbarian_25:

(Start: 88 @21152 has 116 MA's), (129, 21329), (134, 21350), (173, 21497), (196, 21638), (201, 21671), (207, 21704), (213, 21740), (232, 21833), (244, 21893), (248, 21911), (263, 21992), (304, 22220), (310, 22265), (346, 22460), (347, 22466), (349, 22475), (355, 22520), (357, 22535), (386, 22691), (387, 22709), (390, 22718), (398, 22772), (408, 22847), (409, 22850), (439, 23060), (441, 23072), (458, 23186), (483, 23402), (492, 23486), (497, 23510), (499, 23519),

Gene: Bask21_26 Start: 21463, Stop: 23859, Start Num: 88

Candidate Starts for Bask21_26:

(Start: 88 @21463 has 116 MA's), (129, 21640), (134, 21661), (173, 21808), (196, 21949), (201, 21982), (207, 22015), (213, 22051), (232, 22144), (244, 22204), (248, 22222), (263, 22303), (304, 22531), (310, 22576), (346, 22771), (347, 22777), (349, 22786), (355, 22831), (357, 22846), (386, 23002), (387, 23020), (390, 23029), (408, 23158), (409, 23161), (439, 23371), (441, 23383), (458, 23497), (483, 23713), (492, 23797), (497, 23821), (499, 23830),

Gene: Batiatus_18 Start: 17448, Stop: 19985, Start Num: 56

Candidate Starts for Batiatus_18:

(54, 17436), (Start: 56 @17448 has 208 MA's), (66, 17469), (Start: 75 @17490 has 1 MA's), (84, 17529), (104, 17598), (106, 17607), (107, 17610), (113, 17628), (119, 17661), (122, 17676), (132, 17724), (154, 17835), (155, 17838), (163, 17868), (166, 17880), (167, 17883), (180, 17961), (184, 17985), (194, 18051), (202, 18096), (207, 18126), (208, 18132), (210, 18150), (217, 18174), (219, 18183), (225, 18216), (226, 18222), (232, 18252), (241, 18291), (242, 18303), (244, 18312), (247, 18327), (248, 18330), (268, 18441), (269, 18444), (270, 18453), (271, 18459), (274, 18474), (275, 18477), (277, 18498), (285, 18528), (287, 18540), (292, 18573), (310, 18684), (311, 18687), (317, 18714), (319, 18720), (328, 18774), (329, 18777), (343, 18864), (346, 18879), (348, 18891), (349, 18894), (358, 18960), (364, 18984), (366, 19005), (368, 19014), (378, 19074), (379, 19077), (386, 19113), (387, 19131), (391, 19143), (392, 19152), (396, 19179), (406, 19248), (408, 19266), (411, 19275), (413, 19287), (417, 19323), (421, 19353), (425, 19374), (430, 19398), (433, 19434), (440, 19488), (446, 19548), (453, 19590), (462, 19668), (470, 19725), (474, 19749), (480, 19803), (483, 19851), (489, 19893), (491, 19917), (492, 19920),

Gene: Beakin_19 Start: 17255, Stop: 19786, Start Num: 56

Candidate Starts for Beakin_19:

(54, 17243), (Start: 56 @17255 has 208 MA's), (66, 17276), (Start: 75 @17297 has 1 MA's), (84, 17336), (104, 17405), (106, 17414), (107, 17417), (113, 17435), (119, 17468), (122, 17483), (132, 17525), (154, 17636), (155, 17639), (163, 17669), (167, 17684), (180, 17762), (184, 17786), (194, 17852), (202, 17897), (207, 17927), (208, 17933), (210, 17951), (217, 17975), (219, 17984), (225, 18017), (226, 18023), (232, 18053), (241, 18092), (242, 18104), (244, 18113), (247, 18128), (248, 18131), (268, 18242), (269, 18245), (270, 18254), (271, 18260), (274, 18275), (275, 18278), (277, 18299), (285, 18329), (287, 18341), (292, 18374), (304, 18440), (310, 18485), (311, 18488), (317, 18515), (319, 18521), (328, 18575), (329, 18578), (343, 18665), (346, 18680), (348, 18692), (349,

18695), (358, 18761), (364, 18785), (366, 18806), (368, 18815), (378, 18875), (379, 18878), (386, 18914), (387, 18932), (392, 18953), (396, 18980), (406, 19049), (408, 19067), (411, 19076), (413, 19088), (417, 19124), (425, 19175), (428, 19193), (433, 19235), (440, 19289), (453, 19391), (462, 19469), (470, 19526), (474, 19550), (480, 19604), (483, 19652), (491, 19718), (492, 19721),

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

Candidate Starts for Beckerton_29:

(Start: 22 @26219 has 7 MA's), (43, 26351), (45, 26363), (46, 26372), (53, 26441), (55, 26447), (77, 26507), (81, 26528), (91, 26576), (98, 26618), (105, 26642), (115, 26675), (120, 26711), (123, 26723), (142, 26816), (155, 26873), (165, 26912), (186, 27038), (196, 27107), (200, 27137), (208, 27179), (219, 27230), (237, 27320), (241, 27338), (254, 27419), (263, 27458), (267, 27479), (292, 27617), (297, 27656), (309, 27719), (329, 27821), (365, 28046), (422, 28409), (426, 28436), (464, 28679), (468, 28712), (471, 28736), (483, 28856), (493, 28934), (504, 29021), (505, 29036), (506, 29042),

Gene: Bench_28 Start: 22144, Stop: 24540, Start Num: 88

Candidate Starts for Bench_28:

(Start: 88 @22144 has 116 MA's), (129, 22321), (134, 22342), (173, 22489), (201, 22663), (207, 22696), (213, 22732), (232, 22825), (244, 22885), (248, 22903), (272, 23035), (280, 23080), (304, 23212), (310, 23257), (325, 23317), (342, 23431), (346, 23452), (352, 23491), (355, 23512), (357, 23527), (385, 23677), (386, 23683), (387, 23701), (397, 23755), (408, 23839), (424, 23932), (458, 24178), (483, 24394), (492, 24478), (499, 24511),

Gene: BigBubba_27 Start: 22047, Stop: 24443, Start Num: 88

Candidate Starts for BigBubba_27:

(Start: 88 @22047 has 116 MA's), (129, 22224), (134, 22245), (173, 22392), (196, 22533), (201, 22566), (207, 22599), (213, 22635), (232, 22728), (244, 22788), (248, 22806), (272, 22938), (280, 22983), (304, 23115), (310, 23160), (342, 23334), (346, 23355), (352, 23394), (355, 23415), (357, 23430), (386, 23586), (387, 23604), (397, 23658), (408, 23742), (424, 23835), (458, 24081), (483, 24297), (492, 24381), (499, 24414),

Gene: BigMama_28 Start: 24332, Stop: 26602, Start Num: 135

Candidate Starts for BigMama_28:

(Start: 135 @24332 has 20 MA's), (167, 24467), (169, 24476), (191, 24650), (192, 24656), (195, 24668), (224, 24821), (226, 24836), (230, 24851), (300, 25232), (301, 25238), (309, 25283), (327, 25370), (359, 25571), (360, 25577), (369, 25625), (374, 25655), (377, 25679), (405, 25868), (410, 25895), (417, 25943), (430, 26015), (434, 26054), (436, 26075), (438, 26090), (440, 26108), (442, 26138), (453, 26222), (478, 26423), (483, 26465), (502, 26591),

Gene: BilboSwaggins_26 Start: 22284, Stop: 24680, Start Num: 88

Candidate Starts for BilboSwaggins_26:

(Start: 88 @22284 has 116 MA's), (129, 22461), (134, 22482), (173, 22629), (196, 22770), (201, 22803), (207, 22836), (213, 22872), (232, 22965), (244, 23025), (248, 23043), (263, 23124), (304, 23352), (310, 23397), (346, 23592), (347, 23598), (349, 23607), (355, 23652), (357, 23667), (386, 23823), (387, 23841), (390, 23850), (408, 23979), (409, 23982), (439, 24192), (441, 24204), (458, 24318), (483, 24534), (492, 24618), (497, 24642), (499, 24651),

Gene: Bipolar_18 Start: 17398, Stop: 19890, Start Num: 56

Candidate Starts for Bipolar_18:

(54, 17386), (Start: 56 @17398 has 208 MA's), (66, 17419), (Start: 75 @17440 has 1 MA's), (85, 17479), (104, 17548), (106, 17557), (107, 17560), (113, 17578), (119, 17611), (125, 17644), (133, 17677), (147, 17731), (155, 17767), (157, 17776), (164, 17794), (171, 17818), (175, 17842), (190, 17950), (196, 17974), (199, 17989), (202, 17998), (207, 18022), (208, 18028), (210, 18046), (213, 18058), (215, 18064), (217, 18070), (218, 18076), (219, 18079), (221, 18088), (222, 18097), (225,

18112), (232, 18148), (241, 18187), (242, 18199), (244, 18208), (260, 18292), (275, 18373), (280, 18403), (281, 18406), (287, 18436), (290, 18463), (293, 18472), (300, 18523), (302, 18532), (304, 18535), (309, 18571), (313, 18592), (322, 18628), (347, 18781), (355, 18835), (364, 18880), (365, 18898), (366, 18901), (374, 18940), (395, 19087), (397, 19096), (407, 19165), (408, 19180), (433, 19345), (443, 19432), (450, 19480), (458, 19531), (467, 19609), (493, 19831), (495, 19834), (499, 19861),

Gene: Blarby_25 Start: 17613, Stop: 20210, Start Num: 51

Candidate Starts for Blarby_25:

(48, 17604), (51, 17613), (Start: 58 @17673 has 1 MA's), (69, 17706), (74, 17709), (99, 17808), (132, 17949), (154, 18060), (155, 18063), (163, 18093), (166, 18105), (167, 18108), (184, 18210), (194, 18276), (202, 18321), (207, 18351), (208, 18357), (210, 18375), (217, 18399), (219, 18408), (225, 18441), (226, 18447), (232, 18477), (241, 18516), (242, 18528), (244, 18537), (247, 18552), (248, 18555), (268, 18666), (269, 18669), (270, 18678), (271, 18684), (274, 18699), (275, 18702), (277, 18723), (285, 18753), (287, 18765), (292, 18798), (310, 18909), (311, 18912), (317, 18939), (319, 18945), (328, 18999), (329, 19002), (343, 19089), (346, 19104), (348, 19116), (349, 19119), (358, 19185), (366, 19230), (368, 19239), (378, 19299), (379, 19302), (386, 19338), (387, 19356), (392, 19377), (396, 19404), (406, 19473), (408, 19491), (411, 19500), (413, 19512), (417, 19548), (421, 19578), (425, 19599), (428, 19617), (433, 19659), (440, 19713), (453, 19815), (470, 19950), (474, 19974), (480, 20028), (483, 20076), (489, 20118), (491, 20142), (492, 20145),

Gene: Blessica_59 Start: 36409, Stop: 38919, Start Num: 73

Candidate Starts for Blessica_59:

(Start: 73 @36409 has 22 MA's), (79, 36442), (93, 36511), (94, 36514), (102, 36538), (107, 36562), (114, 36586), (119, 36619), (159, 36826), (162, 36838), (163, 36841), (187, 36988), (188, 37018), (194, 37042), (202, 37072), (203, 37075), (207, 37102), (210, 37126), (218, 37156), (229, 37213), (233, 37237), (241, 37273), (242, 37285), (247, 37309), (248, 37312), (254, 37354), (274, 37450), (275, 37453), (323, 37708), (346, 37852), (355, 37912), (365, 37984), (366, 37987), (383, 38083), (408, 38257), (413, 38278), (426, 38371), (429, 38383), (440, 38473), (451, 38548), (461, 38593), (485, 38794), (490, 38848), (495, 38863),

Gene: Blexus_18 Start: 17586, Stop: 20123, Start Num: 56

Candidate Starts for Blexus_18:

(Start: 56 @17586 has 208 MA's), (66, 17607), (Start: 75 @17628 has 1 MA's), (84, 17667), (104, 17736), (106, 17745), (107, 17748), (113, 17766), (122, 17814), (132, 17862), (154, 17973), (155, 17976), (167, 18021), (180, 18099), (184, 18123), (194, 18189), (207, 18264), (208, 18270), (210, 18288), (217, 18312), (219, 18321), (225, 18354), (226, 18360), (232, 18390), (237, 18411), (242, 18441), (244, 18450), (264, 18558), (267, 18570), (268, 18579), (269, 18582), (271, 18597), (274, 18612), (275, 18615), (277, 18636), (287, 18678), (292, 18711), (310, 18822), (311, 18825), (317, 18852), (319, 18858), (328, 18912), (329, 18915), (331, 18942), (346, 19017), (348, 19029), (349, 19032), (358, 19098), (363, 19119), (364, 19122), (366, 19143), (368, 19152), (375, 19194), (378, 19212), (379, 19215), (385, 19245), (387, 19269), (391, 19281), (392, 19290), (406, 19386), (408, 19404), (411, 19413), (413, 19425), (417, 19461), (421, 19491), (424, 19500), (425, 19512), (433, 19572), (440, 19626), (446, 19686), (453, 19728), (470, 19863), (474, 19887), (480, 19941), (483, 19989), (489, 20031), (491, 20055), (492, 20058),

Gene: BlueCrab_18 Start: 17568, Stop: 20105, Start Num: 56

Candidate Starts for BlueCrab_18:

(54, 17556), (Start: 56 @17568 has 208 MA's), (66, 17589), (Start: 75 @17610 has 1 MA's), (84, 17649), (104, 17718), (106, 17727), (107, 17730), (113, 17748), (122, 17796), (132, 17844), (154, 17955), (155, 17958), (167, 18003), (180, 18081), (184, 18105), (194, 18171), (202, 18216), (207, 18246), (208, 18252), (210, 18270), (217, 18294), (219, 18303), (225, 18336), (226, 18342), (232, 18372), (241, 18411), (242, 18423), (244, 18432), (247, 18447), (248, 18450), (268, 18561), (269,

18564), (270, 18573), (271, 18579), (274, 18594), (275, 18597), (277, 18618), (285, 18648), (287, 18660), (292, 18693), (310, 18804), (311, 18807), (317, 18834), (319, 18840), (328, 18894), (329, 18897), (346, 18999), (348, 19011), (349, 19014), (358, 19080), (364, 19104), (366, 19125), (368, 19134), (378, 19194), (379, 19197), (386, 19233), (387, 19251), (392, 19272), (396, 19299), (406, 19368), (408, 19386), (411, 19395), (413, 19407), (417, 19443), (425, 19494), (428, 19512), (433, 19554), (440, 19608), (453, 19710), (470, 19845), (474, 19869), (480, 19923), (486, 19992), (491, 20037), (492, 20040),

Gene: BobaPhett_18 Start: 17397, Stop: 19922, Start Num: 56

Candidate Starts for BobaPhett_18:

(Start: 56 @17397 has 208 MA's), (66, 17418), (Start: 75 @17439 has 1 MA's), (84, 17478), (104, 17547), (106, 17556), (107, 17559), (113, 17577), (122, 17625), (132, 17673), (154, 17784), (155, 17787), (164, 17820), (167, 17832), (180, 17910), (188, 17976), (196, 18009), (204, 18063), (207, 18075), (218, 18129), (219, 18132), (221, 18141), (227, 18174), (235, 18213), (236, 18216), (240, 18231), (241, 18234), (245, 18261), (246, 18267), (247, 18270), (248, 18273), (253, 18300), (255, 18318), (256, 18321), (270, 18396), (274, 18417), (275, 18420), (279, 18447), (285, 18471), (292, 18516), (293, 18519), (300, 18570), (311, 18633), (313, 18642), (318, 18666), (337, 18771), (338, 18774), (346, 18825), (347, 18831), (348, 18837), (349, 18840), (355, 18885), (357, 18900), (363, 18927), (366, 18951), (375, 19002), (378, 19020), (379, 19023), (380, 19035), (391, 19089), (408, 19212), (418, 19275), (428, 19338), (437, 19413), (465, 19614), (488, 19824), (494, 19863), (495, 19866),

Gene: Bobi_20 Start: 17987, Stop: 20524, Start Num: 56

Candidate Starts for Bobi_20:

(54, 17975), (Start: 56 @17987 has 208 MA's), (66, 18008), (Start: 75 @18029 has 1 MA's), (84, 18068), (104, 18137), (106, 18146), (107, 18149), (113, 18167), (119, 18200), (122, 18215), (132, 18263), (154, 18374), (155, 18377), (163, 18407), (166, 18419), (167, 18422), (180, 18500), (184, 18524), (194, 18590), (202, 18635), (207, 18665), (208, 18671), (210, 18689), (217, 18713), (219, 18722), (225, 18755), (226, 18761), (232, 18791), (241, 18830), (242, 18842), (244, 18851), (247, 18866), (248, 18869), (268, 18980), (269, 18983), (270, 18992), (271, 18998), (274, 19013), (275, 19016), (285, 19067), (287, 19079), (292, 19112), (304, 19178), (310, 19223), (311, 19226), (317, 19253), (319, 19259), (328, 19313), (329, 19316), (343, 19403), (346, 19418), (348, 19430), (349, 19433), (358, 19499), (366, 19544), (368, 19553), (378, 19613), (379, 19616), (386, 19652), (387, 19670), (391, 19682), (392, 19691), (396, 19718), (406, 19787), (408, 19805), (411, 19814), (413, 19826), (417, 19862), (421, 19892), (425, 19913), (430, 19937), (433, 19973), (440, 20027), (446, 20087), (453, 20129), (470, 20264), (474, 20288), (480, 20342), (483, 20390), (489, 20432), (491, 20456), (492, 20459),

Gene: BodEinwohner17_18 Start: 17569, Stop: 20106, Start Num: 56

Candidate Starts for BodEinwohner17_18:

(Start: 56 @17569 has 208 MA's), (66, 17590), (Start: 75 @17611 has 1 MA's), (84, 17650), (104, 17719), (106, 17728), (107, 17731), (113, 17749), (122, 17797), (152, 17950), (155, 17959), (167, 18004), (183, 18103), (184, 18106), (194, 18172), (207, 18247), (208, 18253), (210, 18271), (217, 18295), (219, 18304), (225, 18337), (226, 18343), (232, 18373), (237, 18394), (242, 18424), (244, 18433), (247, 18448), (248, 18451), (264, 18541), (267, 18553), (268, 18562), (269, 18565), (271, 18580), (274, 18595), (275, 18598), (277, 18619), (287, 18661), (292, 18694), (310, 18805), (311, 18808), (317, 18835), (319, 18841), (328, 18895), (329, 18898), (331, 18925), (346, 19000), (348, 19012), (349, 19015), (358, 19081), (363, 19102), (364, 19105), (366, 19126), (368, 19135), (375, 19177), (378, 19195), (379, 19198), (385, 19228), (387, 19252), (391, 19264), (392, 19273), (406, 19369), (408, 19387), (411, 19396), (413, 19408), (417, 19444), (421, 19474), (424, 19483), (425, 19495), (433, 19555), (440, 19609), (446, 19669), (453, 19711), (470, 19846), (474, 19870), (480, 19924), (483, 19972), (489, 20014), (491, 20038), (492, 20041),

Gene: Bogie_20 Start: 18761, Stop: 21265, Start Num: 67

Candidate Starts for Bogie_20:

(Start: 67 @18761 has 2 MA's), (107, 18914), (183, 19319), (187, 19334), (188, 19364), (189, 19370), (194, 19388), (217, 19496), (226, 19547), (248, 19658), (249, 19661), (254, 19700), (263, 19733), (275, 19799), (287, 19859), (290, 19886), (292, 19892), (346, 20198), (355, 20258), (362, 20306), (363, 20309), (365, 20330), (366, 20333), (408, 20594), (428, 20717), (429, 20720), (440, 20810), (448, 20867), (451, 20888), (465, 20948), (487, 21149), (490, 21191),

Gene: Boomer_19 Start: 17212, Stop: 19749, Start Num: 56

Candidate Starts for Boomer_19:

(Start: 56 @17212 has 208 MA's), (66, 17233), (Start: 75 @17254 has 1 MA's), (84, 17293), (104, 17362), (106, 17371), (107, 17374), (113, 17392), (119, 17425), (122, 17440), (132, 17488), (154, 17599), (155, 17602), (163, 17632), (167, 17647), (180, 17725), (184, 17749), (194, 17815), (202, 17860), (207, 17890), (208, 17896), (210, 17914), (217, 17938), (219, 17947), (225, 17980), (226, 17986), (232, 18016), (237, 18037), (241, 18055), (242, 18067), (244, 18076), (247, 18091), (248, 18094), (262, 18172), (268, 18205), (269, 18208), (270, 18217), (271, 18223), (274, 18238), (275, 18241), (277, 18262), (285, 18292), (287, 18304), (292, 18337), (310, 18448), (311, 18451), (317, 18478), (319, 18484), (328, 18538), (329, 18541), (343, 18628), (346, 18643), (348, 18655), (349, 18658), (358, 18724), (364, 18748), (366, 18769), (368, 18778), (378, 18838), (379, 18841), (385, 18871), (387, 18895), (391, 18907), (392, 18916), (396, 18943), (406, 19012), (408, 19030), (411, 19039), (413, 19051), (417, 19087), (421, 19117), (425, 19138), (430, 19162), (433, 19198), (440, 19252), (446, 19312), (453, 19354), (462, 19432), (470, 19489), (474, 19513), (480, 19567), (483, 19615), (491, 19681), (492, 19684),

Gene: Bora_56 Start: 35766, Stop: 38276, Start Num: 73

Candidate Starts for Bora_56:

(Start: 73 @35766 has 22 MA's), (79, 35799), (93, 35868), (94, 35871), (102, 35895), (107, 35919), (114, 35943), (119, 35976), (148, 36129), (159, 36183), (162, 36195), (163, 36198), (187, 36345), (188, 36375), (194, 36399), (202, 36429), (203, 36432), (207, 36459), (210, 36483), (218, 36513), (229, 36570), (241, 36630), (242, 36642), (247, 36666), (248, 36669), (254, 36711), (274, 36807), (275, 36810), (323, 37065), (346, 37209), (355, 37269), (365, 37341), (366, 37344), (383, 37440), (408, 37614), (411, 37623), (413, 37635), (426, 37728), (429, 37740), (440, 37830), (451, 37905), (461, 37950), (485, 38151), (490, 38205), (495, 38220),

Gene: Bruin_26 Start: 22307, Stop: 24703, Start Num: 88

Candidate Starts for Bruin_26:

(Start: 88 @22307 has 116 MA's), (129, 22484), (134, 22505), (173, 22652), (196, 22793), (201, 22826), (207, 22859), (213, 22895), (232, 22988), (244, 23048), (248, 23066), (272, 23198), (280, 23243), (304, 23375), (310, 23420), (342, 23594), (346, 23615), (352, 23654), (355, 23675), (357, 23690), (386, 23846), (387, 23864), (397, 23918), (408, 24002), (424, 24095), (458, 24341), (483, 24557), (492, 24641), (499, 24674),

Gene: Brujita_21 Start: 19089, Stop: 21620, Start Num: 63

Candidate Starts for Brujita_21:

(Start: 63 @19089 has 2 MA's), (71, 19113), (96, 19224), (100, 19233), (107, 19260), (133, 19407), (183, 19674), (187, 19689), (188, 19719), (189, 19725), (194, 19743), (217, 19851), (226, 19902), (248, 20013), (249, 20016), (254, 20055), (263, 20088), (275, 20154), (287, 20214), (290, 20241), (292, 20247), (346, 20553), (355, 20613), (362, 20661), (363, 20664), (365, 20685), (366, 20688), (408, 20949), (428, 21072), (429, 21075), (440, 21165), (448, 21222), (451, 21243), (465, 21303), (487, 21504), (490, 21546),

Gene: Bubbles123_19 Start: 18112, Stop: 20649, Start Num: 56

Candidate Starts for Bubbles123_19:

(Start: 56 @18112 has 208 MA's), (66, 18133), (Start: 75 @18154 has 1 MA's), (84, 18193), (104, 18262), (106, 18271), (107, 18274), (113, 18292), (119, 18325), (122, 18340), (132, 18388), (154, 18499), (155, 18502), (166, 18544), (167, 18547), (184, 18649), (194, 18715), (202, 18760), (207, 18790), (208, 18796), (210, 18814), (217, 18838), (219, 18847), (225, 18880), (226, 18886), (241, 18955), (242, 18967), (244, 18976), (247, 18991), (249, 18997), (268, 19105), (270, 19117), (271, 19123), (274, 19138), (275, 19141), (277, 19162), (285, 19192), (287, 19204), (292, 19237), (304, 19303), (310, 19348), (311, 19351), (317, 19378), (319, 19384), (328, 19438), (329, 19441), (331, 19468), (346, 19543), (348, 19555), (349, 19558), (358, 19624), (364, 19648), (368, 19678), (375, 19720), (378, 19738), (379, 19741), (386, 19777), (387, 19795), (392, 19816), (396, 19843), (406, 19912), (408, 19930), (411, 19939), (413, 19951), (417, 19987), (425, 20038), (430, 20062), (433, 20098), (440, 20152), (453, 20254), (462, 20332), (470, 20389), (474, 20413), (483, 20515), (489, 20557), (491, 20581), (492, 20584),

Gene: Buck_25 Start: 22240, Stop: 24636, Start Num: 88

Candidate Starts for Buck_25:

(Start: 88 @22240 has 116 MA's), (129, 22417), (134, 22438), (173, 22585), (196, 22726), (201, 22759), (207, 22792), (213, 22828), (232, 22921), (244, 22981), (248, 22999), (272, 23131), (280, 23176), (304, 23308), (310, 23353), (325, 23413), (342, 23527), (346, 23548), (352, 23587), (355, 23608), (357, 23623), (385, 23773), (386, 23779), (387, 23797), (397, 23851), (408, 23935), (424, 24028), (458, 24274), (483, 24490), (492, 24574), (499, 24607),

Gene: Burwell21_18 Start: 17404, Stop: 19956, Start Num: 56

Candidate Starts for Burwell21_18:

(Start: 56 @17404 has 208 MA's), (84, 17485), (104, 17554), (106, 17563), (107, 17566), (113, 17584), (122, 17632), (131, 17677), (154, 17791), (155, 17794), (158, 17806), (164, 17827), (166, 17836), (167, 17839), (176, 17887), (180, 17917), (188, 17983), (196, 18016), (202, 18052), (206, 18076), (218, 18136), (219, 18139), (222, 18157), (235, 18220), (236, 18223), (241, 18241), (244, 18262), (248, 18280), (253, 18307), (256, 18328), (263, 18361), (270, 18403), (271, 18409), (272, 18412), (275, 18427), (279, 18454), (280, 18457), (285, 18478), (287, 18490), (292, 18523), (308, 18616), (328, 18724), (330, 18748), (331, 18754), (336, 18772), (337, 18775), (340, 18799), (346, 18829), (350, 18853), (355, 18889), (356, 18895), (357, 18904), (363, 18931), (373, 18994), (375, 19018), (376, 19033), (385, 19075), (393, 19126), (407, 19222), (408, 19237), (411, 19246), (415, 19270), (424, 19333), (430, 19369), (468, 19675), (474, 19720), (483, 19822),

Gene: Butterscotch_30 Start: 24316, Stop: 26586, Start Num: 135

Candidate Starts for Butterscotch_30:

(Start: 135 @24316 has 20 MA's), (167, 24451), (169, 24460), (191, 24634), (192, 24640), (195, 24652), (224, 24805), (226, 24820), (230, 24835), (300, 25216), (301, 25222), (309, 25267), (327, 25354), (359, 25555), (360, 25561), (369, 25609), (374, 25639), (377, 25663), (405, 25852), (410, 25879), (417, 25927), (430, 25999), (434, 26038), (436, 26059), (438, 26074), (440, 26092), (442, 26122), (453, 26206), (478, 26407), (483, 26449), (502, 26575),

Gene: BuzzLyseyear_20 Start: 17791, Stop: 20328, Start Num: 56

Candidate Starts for BuzzLyseyear_20:

(Start: 56 @17791 has 208 MA's), (66, 17812), (Start: 75 @17833 has 1 MA's), (84, 17872), (104, 17941), (106, 17950), (107, 17953), (113, 17971), (122, 18019), (152, 18172), (155, 18181), (167, 18226), (183, 18325), (184, 18328), (194, 18394), (207, 18469), (208, 18475), (210, 18493), (217, 18517), (218, 18523), (219, 18526), (225, 18559), (226, 18565), (232, 18595), (237, 18616), (242, 18646), (244, 18655), (247, 18670), (248, 18673), (268, 18784), (269, 18787), (270, 18796), (271, 18802), (274, 18817), (275, 18820), (277, 18841), (285, 18871), (287, 18883), (292, 18916), (310, 19027), (311, 19030), (317, 19057), (319, 19063), (328, 19117), (329, 19120), (343, 19207), (346, 19222), (348, 19234), (349, 19237), (358, 19303), (364, 19327), (366, 19348), (368, 19357), (378, 19417), (379, 19420), (386, 19456), (387, 19474), (391, 19486), (392, 19495), (396, 19522), (404,

19579), (406, 19591), (408, 19609), (411, 19618), (413, 19630), (417, 19666), (421, 19696), (424, 19705), (425, 19717), (433, 19777), (440, 19831), (446, 19891), (453, 19933), (470, 20068), (474, 20092), (480, 20146), (483, 20194), (489, 20236), (491, 20260), (492, 20263),

Gene: ByChance_18 Start: 17408, Stop: 19933, Start Num: 56

Candidate Starts for ByChance_18:

(Start: 56 @17408 has 208 MA's), (84, 17489), (104, 17558), (106, 17567), (107, 17570), (113, 17588), (122, 17636), (132, 17684), (154, 17795), (155, 17798), (164, 17831), (167, 17843), (180, 17921), (188, 17987), (196, 18020), (204, 18074), (207, 18086), (218, 18140), (219, 18143), (221, 18152), (227, 18185), (235, 18224), (236, 18227), (240, 18242), (241, 18245), (245, 18272), (246, 18278), (247, 18281), (248, 18284), (253, 18311), (255, 18329), (256, 18332), (270, 18407), (274, 18428), (275, 18431), (279, 18458), (285, 18482), (292, 18527), (293, 18530), (300, 18581), (311, 18644), (313, 18653), (318, 18677), (337, 18782), (338, 18785), (346, 18836), (347, 18842), (348, 18848), (349, 18851), (355, 18896), (357, 18911), (363, 18938), (366, 18962), (375, 19013), (378, 19031), (379, 19034), (380, 19046), (391, 19100), (397, 19142), (418, 19286), (426, 19340), (427, 19346), (428, 19349), (431, 19385), (432, 19388), (435, 19397), (437, 19424), (465, 19625), (483, 19796), (488, 19835), (494, 19874), (495, 19877),

Gene: Byougenkin_18 Start: 17418, Stop: 19949, Start Num: 56

Candidate Starts for Byougenkin_18:

(Start: 56 @17418 has 208 MA's), (90, 17508), (104, 17568), (106, 17577), (107, 17580), (113, 17598), (119, 17631), (122, 17646), (132, 17694), (154, 17805), (155, 17808), (163, 17838), (167, 17853), (180, 17931), (184, 17955), (194, 18021), (202, 18066), (207, 18096), (208, 18102), (210, 18120), (217, 18144), (218, 18150), (219, 18153), (225, 18186), (226, 18192), (241, 18261), (244, 18282), (247, 18297), (248, 18300), (268, 18411), (270, 18423), (271, 18429), (274, 18444), (275, 18447), (277, 18468), (287, 18510), (292, 18543), (310, 18654), (311, 18657), (317, 18684), (319, 18690), (328, 18744), (329, 18747), (343, 18834), (346, 18849), (348, 18861), (349, 18864), (358, 18930), (364, 18954), (366, 18975), (368, 18984), (378, 19044), (379, 19047), (386, 19083), (387, 19101), (391, 19113), (392, 19122), (396, 19149), (406, 19218), (408, 19236), (411, 19245), (413, 19257), (417, 19293), (421, 19323), (425, 19344), (430, 19368), (433, 19404), (440, 19458), (446, 19518), (453, 19560), (462, 19638), (470, 19695), (474, 19719), (480, 19773), (483, 19821), (489, 19857), (491, 19881), (492, 19884),

Gene: Cabrinians_18 Start: 17398, Stop: 19950, Start Num: 56

Candidate Starts for Cabrinians_18:

(Start: 56 @17398 has 208 MA's), (84, 17479), (104, 17548), (106, 17557), (107, 17560), (113, 17578), (122, 17626), (131, 17671), (154, 17785), (155, 17788), (158, 17800), (164, 17821), (166, 17830), (167, 17833), (176, 17881), (180, 17911), (188, 17977), (196, 18010), (202, 18046), (206, 18070), (218, 18130), (219, 18133), (222, 18151), (235, 18214), (236, 18217), (241, 18235), (244, 18256), (248, 18274), (253, 18301), (256, 18322), (263, 18355), (270, 18397), (271, 18403), (272, 18406), (275, 18421), (279, 18448), (280, 18451), (285, 18472), (287, 18484), (292, 18517), (308, 18610), (328, 18718), (330, 18742), (331, 18748), (336, 18766), (337, 18769), (340, 18793), (346, 18823), (350, 18847), (355, 18883), (356, 18889), (357, 18898), (363, 18925), (373, 18988), (375, 19012), (376, 19027), (385, 19069), (393, 19120), (407, 19216), (408, 19231), (411, 19240), (415, 19264), (424, 19327), (430, 19363), (468, 19669), (474, 19714), (483, 19816),

Gene: Cactus_27 Start: 21496, Stop: 23892, Start Num: 88

Candidate Starts for Cactus_27:

(Start: 88 @21496 has 116 MA's), (129, 21673), (134, 21694), (173, 21841), (196, 21982), (201, 22015), (207, 22048), (213, 22084), (232, 22177), (244, 22237), (248, 22255), (263, 22336), (304, 22564), (310, 22609), (346, 22804), (347, 22810), (349, 22819), (355, 22864), (357, 22879), (386, 23035), (387, 23053), (390, 23062), (408, 23191), (409, 23194), (439, 23404), (441, 23416), (458, 23530), (483, 23746), (492, 23830), (497, 23854), (499, 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), (5, 24661), (8, 24844), (10, 24925), (14, 25024), (15, 25048), (16, 25066), (23, 25225), (26, 25258), (37, 25306), (42, 25345), (61, 25471), (65, 25480), (109, 25666), (143, 25867), (175, 26044), (188, 26143), (196, 26176), (206, 26221), (208, 26233), (217, 26275), (218, 26281), (219, 26284), (231, 26353), (243, 26431), (244, 26437), (252, 26482), (253, 26485), (268, 26569), (313, 26824), (323, 26863), (344, 27010), (345, 27016), (374, 27190), (379, 27223), (382, 27244), (385, 27253), (388, 27280), (425, 27523), (442, 27667), (469, 27865), (473, 27895), (480, 27952), (482, 27988), (486, 28015), (487, 28027),

Gene: CaptainTrips_19 Start: 18092, Stop: 20629, Start Num: 56

Candidate Starts for CaptainTrips_19:

(Start: 56 @18092 has 208 MA's), (90, 18182), (104, 18242), (106, 18251), (107, 18254), (113, 18272), (119, 18305), (122, 18320), (132, 18368), (154, 18479), (155, 18482), (163, 18512), (166, 18524), (167, 18527), (180, 18605), (184, 18629), (194, 18695), (202, 18740), (207, 18770), (208, 18776), (210, 18794), (217, 18818), (219, 18827), (225, 18860), (226, 18866), (232, 18896), (241, 18935), (242, 18947), (244, 18956), (247, 18971), (248, 18974), (268, 19085), (269, 19088), (270, 19097), (271, 19103), (274, 19118), (275, 19121), (277, 19142), (285, 19172), (287, 19184), (292, 19217), (310, 19328), (311, 19331), (317, 19358), (319, 19364), (328, 19418), (329, 19421), (343, 19508), (346, 19523), (348, 19535), (349, 19538), (358, 19604), (364, 19628), (366, 19649), (368, 19658), (378, 19718), (379, 19721), (386, 19757), (387, 19775), (391, 19787), (392, 19796), (396, 19823), (406, 19892), (408, 19910), (411, 19919), (413, 19931), (417, 19967), (421, 19997), (425, 20018), (430, 20042), (433, 20078), (440, 20132), (446, 20192), (453, 20234), (462, 20312), (470, 20369), (474, 20393), (480, 20447), (483, 20495), (489, 20537), (491, 20561), (492, 20564),

Gene: Catdawg_58 Start: 36145, Stop: 38655, Start Num: 73

Candidate Starts for Catdawg_58:

(Start: 73 @36145 has 22 MA's), (79, 36178), (93, 36247), (94, 36250), (102, 36274), (107, 36298), (114, 36322), (119, 36355), (159, 36562), (162, 36574), (163, 36577), (187, 36724), (188, 36754), (194, 36778), (202, 36808), (203, 36811), (207, 36838), (210, 36862), (218, 36892), (229, 36949), (233, 36973), (241, 37009), (242, 37021), (247, 37045), (248, 37048), (254, 37090), (274, 37186), (275, 37189), (323, 37444), (346, 37588), (355, 37648), (365, 37720), (366, 37723), (383, 37819), (408, 37993), (413, 38014), (426, 38107), (429, 38119), (440, 38209), (451, 38284), (461, 38329), (485, 38530), (490, 38584), (495, 38599),

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

Candidate Starts for Cborch11_30:

(Start: 22 @25681 has 7 MA's), (43, 25813), (45, 25825), (46, 25834), (53, 25903), (55, 25909), (77, 25969), (81, 25990), (91, 26038), (98, 26080), (105, 26104), (115, 26137), (120, 26173), (123, 26185), (142, 26278), (155, 26335), (165, 26374), (186, 26500), (196, 26569), (200, 26599), (208, 26641), (219, 26692), (237, 26782), (241, 26800), (254, 26881), (263, 26920), (267, 26941), (292, 27079), (297, 27118), (309, 27181), (329, 27283), (365, 27508), (422, 27871), (426, 27898), (464, 28141), (468, 28174), (471, 28198), (483, 28318), (493, 28396), (504, 28483), (505, 28498), (506, 28504),

Gene: Che8_18 Start: 17426, Stop: 19963, Start Num: 56

Candidate Starts for Che8_18:

(Start: 56 @17426 has 208 MA's), (66, 17447), (Start: 75 @17468 has 1 MA's), (84, 17507), (104, 17576), (106, 17585), (107, 17588), (113, 17606), (119, 17639), (122, 17654), (154, 17813), (155, 17816), (163, 17846), (167, 17861), (180, 17939), (184, 17963), (194, 18029), (207, 18104), (208, 18110), (210, 18128), (217, 18152), (218, 18158), (219, 18161), (225, 18194), (226, 18200), (232, 18230), (237, 18251), (242, 18281), (244, 18290), (264, 18398), (267, 18410), (268, 18419), (269, 18422), (270, 18431), (271, 18437), (274, 18452), (275, 18455), (277, 18476), (285, 18506), (287,

18518), (292, 18551), (317, 18692), (319, 18698), (328, 18752), (329, 18755), (331, 18782), (346, 18857), (348, 18869), (349, 18872), (351, 18893), (358, 18938), (364, 18962), (368, 18992), (375, 19034), (378, 19052), (379, 19055), (386, 19091), (387, 19109), (391, 19121), (392, 19130), (396, 19157), (404, 19214), (406, 19226), (408, 19244), (411, 19253), (413, 19265), (417, 19301), (421, 19331), (424, 19340), (425, 19352), (433, 19412), (440, 19466), (453, 19568), (462, 19646), (470, 19703), (474, 19727), (480, 19781), (483, 19829), (486, 19850), (491, 19895), (492, 19898),

Gene: Che9d_24 Start: 17101, Stop: 19650, Start Num: 49

Candidate Starts for Che9d_24:

(47, 17092), (Start: 49 @17101 has 7 MA's), (Start: 56 @17161 has 208 MA's), (72, 17197), (100, 17296), (133, 17437), (143, 17476), (147, 17491), (155, 17527), (156, 17533), (157, 17536), (164, 17554), (171, 17578), (175, 17602), (176, 17605), (199, 17749), (202, 17758), (207, 17782), (210, 17806), (217, 17830), (218, 17836), (222, 17857), (223, 17860), (226, 17878), (232, 17908), (239, 17938), (242, 17959), (260, 18052), (263, 18067), (264, 18076), (268, 18097), (269, 18100), (276, 18142), (285, 18184), (286, 18187), (287, 18196), (290, 18223), (293, 18232), (298, 18271), (302, 18292), (304, 18295), (309, 18331), (313, 18352), (328, 18430), (329, 18433), (339, 18487), (348, 18547), (362, 18634), (364, 18640), (366, 18661), (374, 18697), (382, 18751), (385, 18760), (395, 18838), (398, 18856), (401, 18892), (402, 18895), (406, 18913), (408, 18931), (417, 18988), (419, 19000), (430, 19063), (433, 19096), (443, 19183), (450, 19231), (452, 19255), (456, 19282), (458, 19291), (461, 19330), (467, 19369), (470, 19393), (473, 19414), (483, 19510), (486, 19531), (493, 19591), (495, 19594), (499, 19621),

Gene: Chevrolet_17 Start: 17438, Stop: 19975, Start Num: 56

Candidate Starts for Chevrolet_17:

(Start: 56 @17438 has 208 MA's), (66, 17459), (Start: 75 @17480 has 1 MA's), (84, 17519), (104, 17588), (106, 17597), (107, 17600), (113, 17618), (119, 17651), (122, 17666), (154, 17825), (155, 17828), (163, 17858), (167, 17873), (180, 17951), (183, 17972), (184, 17975), (194, 18041), (207, 18116), (208, 18122), (217, 18164), (218, 18170), (219, 18173), (225, 18206), (226, 18212), (232, 18242), (237, 18263), (242, 18293), (244, 18302), (264, 18410), (267, 18422), (268, 18431), (269, 18434), (270, 18443), (271, 18449), (274, 18464), (275, 18467), (277, 18488), (287, 18530), (292, 18563), (317, 18704), (319, 18710), (328, 18764), (329, 18767), (331, 18794), (343, 18854), (346, 18869), (348, 18881), (349, 18884), (358, 18950), (364, 18974), (366, 18995), (368, 19004), (378, 19064), (379, 19067), (386, 19103), (387, 19121), (391, 19133), (392, 19142), (396, 19169), (406, 19238), (408, 19256), (411, 19265), (413, 19277), (417, 19313), (421, 19343), (433, 19424), (440, 19478), (446, 19538), (453, 19580), (462, 19658), (470, 19715), (474, 19739), (480, 19793), (483, 19841), (489, 19883), (491, 19907), (492, 19910),

Gene: ChickenDinner_19 Start: 17271, Stop: 19796, Start Num: 56

Candidate Starts for ChickenDinner_19:

(Start: 56 @17271 has 208 MA's), (66, 17292), (Start: 75 @17313 has 1 MA's), (84, 17352), (104, 17421), (106, 17430), (107, 17433), (113, 17451), (119, 17484), (122, 17499), (132, 17547), (154, 17658), (155, 17661), (167, 17706), (180, 17784), (184, 17808), (194, 17874), (196, 17883), (207, 17949), (208, 17955), (210, 17973), (217, 17997), (218, 18003), (219, 18006), (225, 18039), (226, 18045), (232, 18075), (237, 18096), (244, 18135), (247, 18150), (249, 18156), (275, 18300), (285, 18351), (303, 18462), (311, 18513), (316, 18537), (331, 18630), (340, 18675), (342, 18684), (346, 18705), (348, 18717), (349, 18720), (355, 18765), (364, 18810), (365, 18828), (366, 18831), (375, 18882), (385, 18933), (386, 18939), (387, 18957), (391, 18969), (392, 18978), (397, 19011), (408, 19092), (419, 19161), (424, 19188), (427, 19215), (435, 19266), (440, 19314), (473, 19557), (483, 19662), (486, 19683), (494, 19737), (498, 19761),

Gene: Chill_31 Start: 24322, Stop: 26592, Start Num: 135

Candidate Starts for Chill_31:

(Start: 135 @24322 has 20 MA's), (167, 24457), (169, 24466), (191, 24640), (192, 24646), (195, 24658), (224, 24811), (226, 24826), (230, 24841), (300, 25222), (301, 25228), (309, 25273), (327, 25360), (359, 25561), (360, 25567), (369, 25615), (374, 25645), (377, 25669), (405, 25858), (410, 25885), (417, 25933), (430, 26005), (434, 26044), (436, 26065), (438, 26080), (440, 26098), (442, 26128), (453, 26212), (478, 26413), (483, 26455), (502, 26581),

Gene: ChosenOne_25 Start: 21491, Stop: 23887, Start Num: 88

Candidate Starts for ChosenOne_25:

(Start: 88 @21491 has 116 MA's), (129, 21668), (134, 21689), (173, 21836), (201, 22010), (207, 22043), (213, 22079), (232, 22172), (244, 22232), (248, 22250), (272, 22382), (280, 22427), (304, 22559), (310, 22604), (325, 22664), (342, 22778), (346, 22799), (352, 22838), (355, 22859), (357, 22874), (385, 23024), (386, 23030), (387, 23048), (397, 23102), (408, 23186), (424, 23279), (458, 23525), (483, 23741), (492, 23825), (499, 23858),

Gene: ChotaBhai_26 Start: 21533, Stop: 23929, Start Num: 88

Candidate Starts for ChotaBhai_26:

(Start: 88 @21533 has 116 MA's), (129, 21710), (134, 21731), (173, 21878), (196, 22019), (201, 22052), (207, 22085), (213, 22121), (232, 22214), (244, 22274), (248, 22292), (272, 22424), (280, 22469), (304, 22601), (310, 22646), (342, 22820), (346, 22841), (352, 22880), (355, 22901), (357, 22916), (386, 23072), (387, 23090), (397, 23144), (408, 23228), (424, 23321), (458, 23567), (483, 23783), (492, 23867), (499, 23900),

Gene: Chuckly_18 Start: 17569, Stop: 20106, Start Num: 56

Candidate Starts for Chuckly_18:

(54, 17557), (Start: 56 @17569 has 208 MA's), (66, 17590), (Start: 75 @17611 has 1 MA's), (84, 17650), (104, 17719), (106, 17728), (107, 17731), (113, 17749), (119, 17782), (122, 17797), (132, 17845), (154, 17956), (155, 17959), (163, 17989), (166, 18001), (167, 18004), (180, 18082), (184, 18106), (194, 18172), (202, 18217), (207, 18247), (208, 18253), (210, 18271), (217, 18295), (219, 18304), (225, 18337), (226, 18343), (232, 18373), (241, 18412), (242, 18424), (244, 18433), (247, 18448), (249, 18454), (268, 18562), (269, 18565), (270, 18574), (271, 18580), (274, 18595), (275, 18598), (277, 18619), (285, 18649), (287, 18661), (292, 18694), (304, 18760), (310, 18805), (311, 18808), (317, 18835), (319, 18841), (328, 18895), (329, 18898), (343, 18985), (346, 19000), (348, 19012), (349, 19015), (358, 19081), (364, 19105), (366, 19126), (368, 19135), (378, 19195), (379, 19198), (386, 19234), (387, 19252), (392, 19273), (396, 19300), (406, 19369), (408, 19387), (411, 19396), (413, 19408), (417, 19444), (421, 19474), (425, 19495), (430, 19519), (433, 19555), (440, 19609), (446, 19669), (453, 19711), (470, 19846), (474, 19870), (480, 19924), (483, 19972), (489, 20014), (491, 20038), (492, 20041),

Gene: Cjw1_26 Start: 23044, Stop: 25440, Start Num: 88

Candidate Starts for Cjw1_26:

(Start: 88 @23044 has 116 MA's), (129, 23221), (134, 23242), (173, 23389), (201, 23563), (207, 23596), (213, 23632), (244, 23785), (248, 23803), (272, 23935), (280, 23980), (304, 24112), (310, 24157), (325, 24217), (342, 24331), (346, 24352), (352, 24391), (355, 24412), (357, 24427), (385, 24577), (386, 24583), (387, 24601), (397, 24655), (408, 24739), (424, 24832), (458, 25078), (483, 25294), (492, 25378), (499, 25411),

Gene: Coco12_20 Start: 17795, Stop: 20272, Start Num: 56

Candidate Starts for Coco12_20:

(54, 17783), (Start: 56 @17795 has 208 MA's), (66, 17816), (Start: 75 @17837 has 1 MA's), (85, 17876), (104, 17945), (106, 17954), (107, 17957), (113, 17975), (119, 18008), (122, 18023), (143, 18110), (147, 18125), (155, 18161), (156, 18167), (167, 18200), (171, 18212), (199, 18383), (202, 18392), (207, 18416), (218, 18470), (225, 18506), (226, 18512), (232, 18542), (239, 18572), (242, 18593), (244, 18602), (260, 18686), (271, 18749), (275, 18767), (276, 18776), (280, 18797), (281,

18800), (285, 18818), (287, 18830), (290, 18857), (293, 18866), (300, 18917), (302, 18926), (304, 18929), (308, 18956), (309, 18965), (313, 18986), (328, 19064), (329, 19067), (347, 19175), (348, 19181), (355, 19229), (363, 19271), (364, 19274), (366, 19295), (367, 19301), (368, 19304), (374, 19334), (395, 19475), (398, 19493), (400, 19526), (406, 19550), (407, 19553), (408, 19568), (413, 19589), (417, 19625), (418, 19631), (422, 19658), (426, 19685), (443, 19820), (450, 19868), (452, 19892), (454, 19898), (458, 19916), (470, 20015), (473, 20036), (475, 20054), (483, 20132), (486, 20153), (495, 20216), (497, 20234), (501, 20252),

Gene: Command613_27 Start: 22552, Stop: 24948, Start Num: 88

Candidate Starts for Command613_27:

(Start: 88 @22552 has 116 MA's), (129, 22729), (134, 22750), (173, 22897), (196, 23038), (201, 23071), (207, 23104), (213, 23140), (232, 23233), (244, 23293), (248, 23311), (263, 23392), (304, 23620), (310, 23665), (346, 23860), (347, 23866), (349, 23875), (355, 23920), (357, 23935), (386, 24091), (387, 24109), (390, 24118), (408, 24247), (409, 24250), (439, 24460), (441, 24472), (458, 24586), (483, 24802), (492, 24886), (497, 24910), (499, 24919),

Gene: Contagion_25 Start: 21791, Stop: 24187, Start Num: 88

Candidate Starts for Contagion_25:

(Start: 88 @21791 has 116 MA's), (129, 21968), (134, 21989), (173, 22136), (196, 22277), (201, 22310), (207, 22343), (213, 22379), (232, 22472), (244, 22532), (248, 22550), (272, 22682), (280, 22727), (304, 22859), (310, 22904), (342, 23078), (346, 23099), (352, 23138), (355, 23159), (357, 23174), (386, 23330), (387, 23348), (397, 23402), (408, 23486), (424, 23579), (458, 23825), (483, 24041), (492, 24125), (499, 24158),

Gene: Cookies_26 Start: 22153, Stop: 24549, Start Num: 88

Candidate Starts for Cookies_26:

(Start: 88 @22153 has 116 MA's), (129, 22330), (134, 22351), (173, 22498), (196, 22639), (201, 22672), (207, 22705), (213, 22741), (232, 22834), (244, 22894), (248, 22912), (272, 23044), (280, 23089), (304, 23221), (310, 23266), (325, 23326), (342, 23440), (346, 23461), (352, 23500), (355, 23521), (357, 23536), (385, 23686), (386, 23692), (387, 23710), (397, 23764), (408, 23848), (424, 23941), (458, 24187), (483, 24403), (492, 24487), (499, 24520),

Gene: Corndog_61 Start: 37139, Stop: 39649, Start Num: 73

Candidate Starts for Corndog_61:

(Start: 73 @37139 has 22 MA's), (79, 37172), (93, 37241), (94, 37244), (102, 37268), (107, 37292), (114, 37316), (119, 37349), (159, 37556), (162, 37568), (163, 37571), (187, 37718), (188, 37748), (194, 37772), (202, 37802), (203, 37805), (207, 37832), (210, 37856), (218, 37886), (229, 37943), (241, 38003), (242, 38015), (247, 38039), (248, 38042), (254, 38084), (274, 38180), (275, 38183), (323, 38438), (346, 38582), (355, 38642), (365, 38714), (366, 38717), (383, 38813), (408, 38987), (413, 39008), (426, 39101), (429, 39113), (440, 39203), (451, 39278), (461, 39323), (485, 39524), (490, 39578), (495, 39593),

Gene: Cornie_20 Start: 18264, Stop: 20744, Start Num: 58

Candidate Starts for Cornie_20:

(Start: 58 @18264 has 1 MA's), (60, 18270), (66, 18276), (Start: 88 @18339 has 116 MA's), (89, 18342), (95, 18369), (110, 18423), (113, 18432), (119, 18465), (125, 18498), (133, 18531), (143, 18570), (147, 18585), (155, 18621), (156, 18627), (157, 18630), (164, 18648), (167, 18660), (171, 18672), (175, 18696), (176, 18699), (190, 18804), (196, 18828), (199, 18843), (202, 18852), (207, 18876), (208, 18882), (210, 18900), (213, 18912), (215, 18918), (217, 18924), (218, 18930), (219, 18933), (221, 18942), (222, 18951), (225, 18966), (232, 19002), (241, 19041), (242, 19053), (244, 19062), (260, 19146), (275, 19227), (276, 19236), (281, 19260), (287, 19290), (293, 19326), (300, 19377), (302, 19386), (304, 19389), (308, 19416), (309, 19425), (313, 19446), (322, 19482), (328, 19524), (329, 19527), (339, 19581), (348, 19641), (362, 19728), (364, 19734), (366, 19755), (374,

19791), (382, 19845), (385, 19854), (395, 19932), (398, 19950), (401, 19986), (402, 19989), (406, 20007), (408, 20025), (417, 20082), (419, 20094), (430, 20157), (433, 20190), (443, 20277), (450, 20325), (452, 20349), (456, 20376), (458, 20385), (461, 20424), (467, 20463), (470, 20487), (473, 20508), (483, 20604), (486, 20625), (493, 20685), (495, 20688), (499, 20715),

Gene: Cornucopia_19 Start: 17435, Stop: 19972, Start Num: 56

Candidate Starts for Cornucopia_19:

(Start: 56 @17435 has 208 MA's), (66, 17456), (Start: 75 @17477 has 1 MA's), (84, 17516), (104, 17585), (106, 17594), (107, 17597), (113, 17615), (122, 17663), (152, 17816), (155, 17825), (167, 17870), (183, 17969), (184, 17972), (194, 18038), (207, 18113), (208, 18119), (210, 18137), (217, 18161), (219, 18170), (225, 18203), (226, 18209), (232, 18239), (237, 18260), (241, 18278), (242, 18290), (244, 18299), (247, 18314), (248, 18317), (268, 18428), (269, 18431), (270, 18440), (271, 18446), (274, 18461), (275, 18464), (277, 18485), (285, 18515), (287, 18527), (292, 18560), (310, 18671), (311, 18674), (317, 18701), (319, 18707), (328, 18761), (329, 18764), (337, 18812), (343, 18851), (346, 18866), (348, 18878), (349, 18881), (351, 18902), (358, 18947), (364, 18971), (368, 19001), (375, 19043), (378, 19061), (379, 19064), (386, 19100), (387, 19118), (391, 19130), (392, 19139), (397, 19172), (406, 19235), (408, 19253), (411, 19262), (413, 19274), (421, 19340), (425, 19361), (430, 19385), (433, 19421), (440, 19475), (446, 19535), (453, 19577), (462, 19655), (470, 19712), (474, 19736), (480, 19790), (483, 19838), (489, 19880), (491, 19904), (492, 19907),

Gene: Cosmo_43 Start: 28347, Stop: 30914, Start Num: 57

Candidate Starts for Cosmo_43:

(Start: 57 @28347 has 6 MA's), (78, 28416), (110, 28539), (112, 28545), (113, 28548), (117, 28572), (121, 28593), (151, 28749), (153, 28755), (155, 28761), (163, 28791), (164, 28797), (169, 28818), (170, 28827), (179, 28887), (185, 28923), (189, 28965), (208, 29064), (214, 29097), (218, 29112), (219, 29115), (226, 29154), (237, 29205), (241, 29223), (244, 29244), (245, 29250), (251, 29277), (254, 29304), (268, 29373), (273, 29397), (276, 29418), (280, 29439), (283, 29448), (287, 29469), (292, 29502), (293, 29505), (300, 29556), (304, 29568), (315, 29634), (320, 29652), (326, 29691), (346, 29808), (353, 29853), (363, 29910), (366, 29934), (368, 29943), (372, 29961), (378, 30006), (385, 30039), (389, 30075), (416, 30249), (417, 30267), (418, 30273), (427, 30330), (469, 30654), (472, 30672), (477, 30723), (484, 30786), (491, 30861),

Gene: Courthouse_36 Start: 27742, Stop: 30249, Start Num: 56

Candidate Starts for Courthouse_36:

(Start: 56 @27742 has 208 MA's), (113, 27937), (119, 27973), (122, 27988), (143, 28075), (147, 28090), (167, 28165), (171, 28177), (176, 28204), (190, 28309), (199, 28348), (202, 28357), (207, 28381), (208, 28387), (210, 28405), (215, 28423), (219, 28438), (221, 28447), (222, 28456), (225, 28471), (231, 28498), (232, 28507), (241, 28546), (242, 28558), (244, 28567), (260, 28651), (275, 28732), (280, 28762), (281, 28765), (287, 28795), (290, 28822), (293, 28831), (300, 28882), (302, 28891), (304, 28894), (309, 28930), (313, 28951), (322, 28987), (347, 29140), (355, 29194), (364, 29239), (365, 29257), (366, 29260), (374, 29299), (395, 29446), (397, 29455), (407, 29524), (408, 29539), (433, 29704), (443, 29791), (450, 29839), (458, 29890), (467, 29968), (493, 30190), (495, 30193), (499, 30220),

Gene: CrystalP_26 Start: 22284, Stop: 24680, Start Num: 88

Candidate Starts for CrystalP_26:

(Start: 88 @22284 has 116 MA's), (129, 22461), (134, 22482), (173, 22629), (196, 22770), (201, 22803), (207, 22836), (213, 22872), (232, 22965), (244, 23025), (248, 23043), (263, 23124), (304, 23352), (310, 23397), (346, 23592), (347, 23598), (349, 23607), (355, 23652), (357, 23667), (386, 23823), (387, 23841), (390, 23850), (408, 23979), (409, 23982), (439, 24192), (441, 24204), (458, 24318), (483, 24534), (492, 24618), (497, 24642), (499, 24651),

Gene: Czyszczone1_27 Start: 22029, Stop: 24425, Start Num: 88

Candidate Starts for Czyszczone1_27:

(Start: 88 @22029 has 116 MA's), (129, 22206), (134, 22227), (173, 22374), (201, 22548), (207, 22581), (213, 22617), (232, 22710), (244, 22770), (248, 22788), (272, 22920), (280, 22965), (304, 23097), (310, 23142), (325, 23202), (342, 23316), (346, 23337), (352, 23376), (355, 23397), (357, 23412), (385, 23562), (386, 23568), (387, 23586), (397, 23640), (408, 23724), (424, 23817), (458, 24063), (483, 24279), (492, 24363), (499, 24396),

Gene: DLane_18 Start: 17386, Stop: 19923, Start Num: 56

Candidate Starts for DLane_18:

(54, 17374), (Start: 56 @17386 has 208 MA's), (66, 17407), (Start: 75 @17428 has 1 MA's), (84, 17467), (104, 17536), (106, 17545), (107, 17548), (113, 17566), (119, 17599), (122, 17614), (132, 17662), (154, 17773), (155, 17776), (163, 17806), (164, 17809), (167, 17821), (180, 17899), (184, 17923), (194, 17989), (202, 18034), (207, 18064), (208, 18070), (210, 18088), (217, 18112), (219, 18121), (225, 18154), (226, 18160), (232, 18190), (242, 18241), (244, 18250), (247, 18265), (248, 18268), (268, 18379), (269, 18382), (270, 18391), (271, 18397), (274, 18412), (275, 18415), (277, 18436), (285, 18466), (287, 18478), (292, 18511), (310, 18622), (311, 18625), (317, 18652), (319, 18658), (328, 18712), (329, 18715), (346, 18817), (348, 18829), (349, 18832), (358, 18898), (364, 18922), (366, 18943), (368, 18952), (378, 19012), (379, 19015), (386, 19051), (387, 19069), (391, 19081), (392, 19090), (396, 19117), (406, 19186), (408, 19204), (411, 19213), (413, 19225), (417, 19261), (421, 19291), (425, 19312), (430, 19336), (433, 19372), (440, 19426), (446, 19486), (453, 19528), (462, 19606), (470, 19663), (474, 19687), (480, 19741), (483, 19789), (489, 19831), (491, 19855), (492, 19858),

Gene: DRBy19_18 Start: 17429, Stop: 19966, Start Num: 56

Candidate Starts for DRBy19_18:

(Start: 56 @17429 has 208 MA's), (66, 17450), (Start: 75 @17471 has 1 MA's), (84, 17510), (104, 17579), (106, 17588), (107, 17591), (113, 17609), (122, 17657), (152, 17810), (155, 17819), (167, 17864), (180, 17942), (184, 17966), (194, 18032), (202, 18077), (207, 18107), (208, 18113), (210, 18131), (217, 18155), (219, 18164), (225, 18197), (226, 18203), (232, 18233), (241, 18272), (244, 18293), (247, 18308), (248, 18311), (269, 18425), (270, 18434), (271, 18440), (275, 18458), (277, 18479), (285, 18509), (287, 18521), (292, 18554), (310, 18665), (311, 18668), (317, 18695), (319, 18701), (328, 18755), (329, 18758), (343, 18845), (346, 18860), (349, 18875), (364, 18965), (366, 18986), (368, 18995), (378, 19055), (379, 19058), (386, 19094), (387, 19112), (391, 19124), (392, 19133), (396, 19160), (406, 19229), (408, 19247), (411, 19256), (413, 19268), (417, 19304), (421, 19334), (425, 19355), (430, 19379), (433, 19415), (440, 19469), (453, 19571), (462, 19649), (470, 19706), (474, 19730), (480, 19784), (483, 19832), (489, 19874), (494, 19907), (495, 19910),

Gene: DaWorst_20 Start: 17930, Stop: 20467, Start Num: 56

Candidate Starts for DaWorst_20:

(Start: 56 @17930 has 208 MA's), (66, 17951), (Start: 75 @17972 has 1 MA's), (84, 18011), (104, 18080), (106, 18089), (107, 18092), (113, 18110), (119, 18143), (122, 18158), (154, 18317), (155, 18320), (163, 18350), (167, 18365), (180, 18443), (183, 18464), (184, 18467), (194, 18533), (207, 18608), (208, 18614), (217, 18656), (218, 18662), (219, 18665), (225, 18698), (226, 18704), (232, 18734), (237, 18755), (242, 18785), (244, 18794), (264, 18902), (267, 18914), (268, 18923), (269, 18926), (270, 18935), (271, 18941), (274, 18956), (275, 18959), (277, 18980), (287, 19022), (292, 19055), (317, 19196), (319, 19202), (328, 19256), (329, 19259), (331, 19286), (343, 19346), (346, 19361), (348, 19373), (349, 19376), (358, 19442), (364, 19466), (366, 19487), (368, 19496), (378, 19556), (379, 19559), (386, 19595), (387, 19613), (391, 19625), (392, 19634), (396, 19661), (406, 19730), (408, 19748), (411, 19757), (413, 19769), (417, 19805), (421, 19835), (433, 19916), (440, 19970), (446, 20030), (453, 20072), (462, 20150), (470, 20207), (474, 20231), (480, 20285), (483, 20333), (489, 20375), (491, 20399), (492, 20402),

Gene: DaddyRickover_18 Start: 17568, Stop: 20105, Start Num: 56

Candidate Starts for DaddyRickover_18:

(54, 17556), (Start: 56 @17568 has 208 MA's), (66, 17589), (Start: 75 @17610 has 1 MA's), (84, 17649), (104, 17718), (106, 17727), (107, 17730), (113, 17748), (122, 17796), (132, 17844), (154, 17955), (155, 17958), (167, 18003), (180, 18081), (184, 18105), (194, 18171), (202, 18216), (207, 18246), (208, 18252), (210, 18270), (217, 18294), (219, 18303), (225, 18336), (226, 18342), (232, 18372), (241, 18411), (242, 18423), (244, 18432), (247, 18447), (248, 18450), (268, 18561), (269, 18564), (270, 18573), (271, 18579), (274, 18594), (275, 18597), (277, 18618), (285, 18648), (287, 18660), (292, 18693), (310, 18804), (311, 18807), (317, 18834), (319, 18840), (328, 18894), (329, 18897), (346, 18999), (348, 19011), (349, 19014), (358, 19080), (364, 19104), (366, 19125), (368, 19134), (378, 19194), (379, 19197), (386, 19233), (387, 19251), (392, 19272), (396, 19299), (406, 19368), (408, 19386), (411, 19395), (413, 19407), (417, 19443), (425, 19494), (428, 19512), (433, 19554), (440, 19608), (453, 19710), (470, 19845), (474, 19869), (480, 19923), (486, 19992), (491, 20037), (492, 20040),

Gene: Daenerys_18 Start: 17400, Stop: 19937, Start Num: 56

Candidate Starts for Daenerys_18:

(54, 17388), (Start: 56 @17400 has 208 MA's), (66, 17421), (Start: 75 @17442 has 1 MA's), (84, 17481), (104, 17550), (106, 17559), (107, 17562), (113, 17580), (122, 17628), (132, 17676), (154, 17787), (155, 17790), (167, 17835), (180, 17913), (184, 17937), (194, 18003), (202, 18048), (207, 18078), (208, 18084), (210, 18102), (217, 18126), (219, 18135), (225, 18168), (226, 18174), (232, 18204), (241, 18243), (242, 18255), (244, 18264), (247, 18279), (248, 18282), (268, 18393), (269, 18396), (270, 18405), (271, 18411), (274, 18426), (275, 18429), (277, 18450), (285, 18480), (287, 18492), (292, 18525), (310, 18636), (311, 18639), (317, 18666), (319, 18672), (328, 18726), (329, 18729), (346, 18831), (348, 18843), (349, 18846), (358, 18912), (364, 18936), (366, 18957), (368, 18966), (378, 19026), (379, 19029), (386, 19065), (387, 19083), (392, 19104), (396, 19131), (406, 19200), (408, 19218), (411, 19227), (413, 19239), (417, 19275), (425, 19326), (428, 19344), (433, 19386), (440, 19440), (453, 19542), (470, 19677), (474, 19701), (480, 19755), (486, 19824), (491, 19869), (492, 19872),

Gene: Daikon_24 Start: 22021, Stop: 24417, Start Num: 88

Candidate Starts for Daikon_24:

(Start: 88 @22021 has 116 MA's), (129, 22198), (134, 22219), (173, 22366), (196, 22507), (201, 22540), (207, 22573), (213, 22609), (232, 22702), (244, 22762), (248, 22780), (276, 22936), (280, 22957), (300, 23077), (304, 23089), (310, 23134), (346, 23329), (349, 23344), (355, 23389), (357, 23404), (386, 23560), (387, 23578), (390, 23587), (408, 23716), (409, 23719), (439, 23929), (441, 23941), (458, 24055), (483, 24271), (492, 24355), (497, 24379), (499, 24388),

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

Candidate Starts for Damien_29:

(Start: 22 @25682 has 7 MA's), (43, 25814), (45, 25826), (46, 25835), (53, 25904), (55, 25910), (77, 25970), (81, 25991), (91, 26039), (98, 26081), (105, 26105), (115, 26138), (120, 26174), (123, 26186), (142, 26279), (155, 26336), (165, 26375), (186, 26501), (196, 26570), (200, 26600), (208, 26642), (219, 26693), (237, 26783), (241, 26801), (254, 26882), (263, 26921), (267, 26942), (292, 27080), (297, 27119), (309, 27182), (329, 27284), (365, 27509), (422, 27872), (426, 27899), (464, 28142), (468, 28175), (471, 28199), (483, 28319), (493, 28397), (504, 28484), (505, 28499), (506, 28505),

Gene: Dante_18 Start: 17416, Stop: 19953, Start Num: 56

Candidate Starts for Dante_18:

(54, 17404), (Start: 56 @17416 has 208 MA's), (66, 17437), (Start: 75 @17458 has 1 MA's), (84, 17497), (104, 17566), (106, 17575), (107, 17578), (113, 17596), (119, 17629), (122, 17644), (132, 17692), (152, 17797), (154, 17803), (155, 17806), (166, 17848), (167, 17851), (180, 17929), (184, 17953), (194, 18019), (202, 18064), (207, 18094), (208, 18100), (210, 18118), (217, 18142), (219, 18151), (225, 18184), (226, 18190), (232, 18220), (241, 18259), (242, 18271), (244, 18280), (247,

18295), (248, 18298), (268, 18409), (269, 18412), (270, 18421), (271, 18427), (274, 18442), (275, 18445), (277, 18466), (285, 18496), (292, 18541), (310, 18652), (311, 18655), (317, 18682), (319, 18688), (328, 18742), (329, 18745), (346, 18847), (348, 18859), (349, 18862), (358, 18928), (364, 18952), (366, 18973), (368, 18982), (378, 19042), (379, 19045), (386, 19081), (387, 19099), (391, 19111), (392, 19120), (396, 19147), (406, 19216), (408, 19234), (411, 19243), (413, 19255), (417, 19291), (421, 19321), (425, 19342), (430, 19366), (433, 19402), (440, 19456), (446, 19516), (453, 19558), (462, 19636), (470, 19693), (474, 19717), (480, 19771), (483, 19819), (489, 19861), (491, 19885), (492, 19888),

Gene: DeadP_18 Start: 17430, Stop: 19967, Start Num: 56

Candidate Starts for DeadP_18:

(54, 17418), (Start: 56 @17430 has 208 MA's), (66, 17451), (Start: 75 @17472 has 1 MA's), (84, 17511), (104, 17580), (106, 17589), (107, 17592), (113, 17610), (119, 17643), (122, 17658), (132, 17706), (152, 17811), (154, 17817), (155, 17820), (166, 17862), (167, 17865), (180, 17943), (194, 18033), (202, 18078), (207, 18108), (208, 18114), (210, 18132), (217, 18156), (219, 18165), (225, 18198), (226, 18204), (232, 18234), (241, 18273), (242, 18285), (244, 18294), (247, 18309), (248, 18312), (268, 18423), (269, 18426), (270, 18435), (271, 18441), (274, 18456), (275, 18459), (277, 18480), (285, 18510), (287, 18522), (292, 18555), (310, 18666), (311, 18669), (317, 18696), (319, 18702), (328, 18756), (329, 18759), (343, 18846), (346, 18861), (348, 18873), (349, 18876), (358, 18942), (364, 18966), (366, 18987), (368, 18996), (378, 19056), (379, 19059), (386, 19095), (387, 19113), (391, 19125), (392, 19134), (396, 19161), (406, 19230), (408, 19248), (411, 19257), (413, 19269), (417, 19305), (421, 19335), (425, 19356), (430, 19380), (433, 19416), (440, 19470), (446, 19530), (453, 19572), (470, 19707), (474, 19731), (480, 19785), (483, 19833), (489, 19875), (491, 19899), (492, 19902),

Gene: Deb65_18 Start: 17397, Stop: 19934, Start Num: 56

Candidate Starts for Deb65_18:

(Start: 56 @17397 has 208 MA's), (66, 17418), (Start: 75 @17439 has 1 MA's), (84, 17478), (104, 17547), (106, 17556), (107, 17559), (113, 17577), (122, 17625), (132, 17673), (154, 17784), (155, 17787), (167, 17832), (180, 17910), (184, 17934), (194, 18000), (207, 18075), (208, 18081), (210, 18099), (217, 18123), (219, 18132), (225, 18165), (226, 18171), (232, 18201), (237, 18222), (242, 18252), (244, 18261), (264, 18369), (267, 18381), (268, 18390), (269, 18393), (271, 18408), (274, 18423), (275, 18426), (277, 18447), (287, 18489), (292, 18522), (310, 18633), (311, 18636), (317, 18663), (319, 18669), (328, 18723), (329, 18726), (331, 18753), (346, 18828), (348, 18840), (349, 18843), (358, 18909), (363, 18930), (364, 18933), (366, 18954), (368, 18963), (375, 19005), (378, 19023), (379, 19026), (385, 19056), (387, 19080), (391, 19092), (392, 19101), (406, 19197), (408, 19215), (411, 19224), (413, 19236), (417, 19272), (421, 19302), (424, 19311), (425, 19323), (433, 19383), (440, 19437), (446, 19497), (453, 19539), (470, 19674), (474, 19698), (480, 19752), (483, 19800), (489, 19842), (491, 19866), (492, 19869),

Gene: Delton_30 Start: 24328, Stop: 26598, Start Num: 135

Candidate Starts for Delton_30:

(Start: 135 @24328 has 20 MA's), (167, 24463), (169, 24472), (191, 24646), (192, 24652), (195, 24664), (224, 24817), (226, 24832), (230, 24847), (300, 25228), (301, 25234), (309, 25279), (327, 25366), (359, 25567), (360, 25573), (369, 25621), (374, 25651), (377, 25675), (405, 25864), (410, 25891), (417, 25939), (430, 26011), (434, 26050), (436, 26071), (438, 26086), (440, 26104), (442, 26134), (453, 26218), (478, 26419), (483, 26461), (502, 26587),

Gene: Demsculpinboyz_24 Start: 17086, Stop: 19635, Start Num: 49

Candidate Starts for Demsculpinboyz_24:

(47, 17077), (Start: 49 @17086 has 7 MA's), (Start: 56 @17146 has 208 MA's), (69, 17179), (72, 17182), (92, 17251), (100, 17281), (143, 17461), (147, 17476), (155, 17512), (156, 17518), (164, 17539), (171, 17563), (175, 17587), (199, 17734), (202, 17743), (207, 17767), (210, 17791), (217,

17815), (218, 17821), (222, 17842), (226, 17863), (232, 17893), (239, 17923), (242, 17944), (260, 18037), (263, 18052), (264, 18061), (266, 18070), (268, 18082), (269, 18085), (285, 18169), (286, 18172), (287, 18181), (290, 18208), (293, 18217), (298, 18256), (302, 18277), (304, 18280), (309, 18316), (313, 18337), (328, 18415), (329, 18418), (348, 18532), (362, 18619), (364, 18625), (366, 18646), (374, 18682), (382, 18736), (385, 18745), (395, 18823), (398, 18841), (401, 18877), (402, 18880), (406, 18898), (408, 18916), (417, 18973), (419, 18985), (430, 19048), (433, 19081), (443, 19168), (450, 19216), (452, 19240), (458, 19276), (461, 19315), (467, 19354), (470, 19378), (473, 19399), (483, 19495), (486, 19516), (493, 19576), (495, 19579), (499, 19606),

Gene: DillTech15_18 Start: 17434, Stop: 19971, Start Num: 56

Candidate Starts for DillTech15_18:

(Start: 56 @17434 has 208 MA's), (66, 17455), (Start: 75 @17476 has 1 MA's), (84, 17515), (104, 17584), (106, 17593), (107, 17596), (113, 17614), (119, 17647), (122, 17662), (152, 17815), (155, 17824), (167, 17869), (183, 17968), (184, 17971), (194, 18037), (202, 18082), (207, 18112), (208, 18118), (210, 18136), (217, 18160), (218, 18166), (219, 18169), (225, 18202), (226, 18208), (232, 18238), (241, 18277), (242, 18289), (244, 18298), (247, 18313), (248, 18316), (268, 18427), (269, 18430), (270, 18439), (271, 18445), (274, 18460), (275, 18463), (277, 18484), (285, 18514), (287, 18526), (292, 18559), (310, 18670), (311, 18673), (317, 18700), (319, 18706), (328, 18760), (329, 18763), (343, 18850), (346, 18865), (348, 18877), (349, 18880), (358, 18946), (364, 18970), (366, 18991), (368, 19000), (378, 19060), (379, 19063), (386, 19099), (387, 19117), (391, 19129), (392, 19138), (396, 19165), (406, 19234), (408, 19252), (411, 19261), (413, 19273), (417, 19309), (421, 19339), (424, 19348), (425, 19360), (430, 19384), (433, 19420), (440, 19474), (446, 19534), (453, 19576), (470, 19711), (474, 19735), (480, 19789), (483, 19837), (489, 19879), (491, 19903), (492, 19906),

Gene: DirtMcgirt_19 Start: 17221, Stop: 19758, Start Num: 56

Candidate Starts for DirtMcgirt_19:

(54, 17209), (Start: 56 @17221 has 208 MA's), (66, 17242), (Start: 75 @17263 has 1 MA's), (84, 17302), (104, 17371), (106, 17380), (107, 17383), (113, 17401), (119, 17434), (122, 17449), (132, 17497), (152, 17602), (155, 17611), (166, 17653), (167, 17656), (180, 17734), (184, 17758), (194, 17824), (202, 17869), (207, 17899), (208, 17905), (210, 17923), (217, 17947), (219, 17956), (225, 17989), (226, 17995), (232, 18025), (241, 18064), (242, 18076), (244, 18085), (247, 18100), (248, 18103), (268, 18214), (270, 18226), (271, 18232), (274, 18247), (275, 18250), (277, 18271), (285, 18301), (287, 18313), (292, 18346), (310, 18457), (311, 18460), (317, 18487), (319, 18493), (328, 18547), (329, 18550), (331, 18577), (346, 18652), (348, 18664), (349, 18667), (358, 18733), (364, 18757), (368, 18787), (375, 18829), (378, 18847), (379, 18850), (386, 18886), (387, 18904), (392, 18925), (396, 18952), (406, 19021), (408, 19039), (411, 19048), (413, 19060), (417, 19096), (421, 19126), (424, 19135), (425, 19147), (433, 19207), (440, 19261), (446, 19321), (453, 19363), (462, 19441), (470, 19498), (474, 19522), (480, 19576), (483, 19624), (489, 19666), (491, 19690), (492, 19693),

Gene: DmpstrDiver_37 Start: 30383, Stop: 32890, Start Num: 56

Candidate Starts for DmpstrDiver_37:

(50, 30326), (Start: 56 @30383 has 208 MA's), (113, 30578), (119, 30614), (122, 30629), (133, 30677), (147, 30731), (155, 30767), (156, 30773), (157, 30776), (164, 30794), (167, 30806), (171, 30818), (176, 30845), (190, 30950), (199, 30989), (202, 30998), (207, 31022), (208, 31028), (210, 31046), (215, 31064), (219, 31079), (221, 31088), (222, 31097), (225, 31112), (231, 31139), (232, 31148), (241, 31187), (242, 31199), (244, 31208), (260, 31292), (275, 31373), (280, 31403), (281, 31406), (287, 31436), (290, 31463), (293, 31472), (300, 31523), (302, 31532), (304, 31535), (309, 31571), (313, 31592), (322, 31628), (347, 31781), (355, 31835), (364, 31880), (365, 31898), (366, 31901), (374, 31940), (395, 32087), (397, 32096), (407, 32165), (408, 32180), (433, 32345), (443, 32432), (450, 32480), (458, 32531), (467, 32609), (493, 32831), (495, 32834), (499, 32861),

Gene: DocMcStuffins_19 Start: 17271, Stop: 19796, Start Num: 56

Candidate Starts for DocMcStuffins_19:

(Start: 56 @17271 has 208 MA's), (66, 17292), (Start: 75 @17313 has 1 MA's), (84, 17352), (104, 17421), (106, 17430), (107, 17433), (113, 17451), (119, 17484), (122, 17499), (132, 17547), (154, 17658), (155, 17661), (167, 17706), (180, 17784), (184, 17808), (194, 17874), (196, 17883), (207, 17949), (208, 17955), (210, 17973), (217, 17997), (218, 18003), (219, 18006), (225, 18039), (226, 18045), (232, 18075), (237, 18096), (244, 18135), (247, 18150), (249, 18156), (275, 18300), (285, 18351), (303, 18462), (311, 18513), (316, 18537), (331, 18630), (340, 18675), (342, 18684), (346, 18705), (348, 18717), (349, 18720), (355, 18765), (364, 18810), (365, 18828), (366, 18831), (375, 18882), (385, 18933), (386, 18939), (387, 18957), (391, 18969), (392, 18978), (397, 19011), (408, 19092), (419, 19161), (424, 19188), (427, 19215), (435, 19266), (440, 19314), (473, 19557), (483, 19662), (486, 19683), (494, 19737), (498, 19761),

Gene: DoctorDiddles_26 Start: 21446, Stop: 23842, Start Num: 88

Candidate Starts for DoctorDiddles_26:

(Start: 88 @21446 has 116 MA's), (129, 21623), (134, 21644), (173, 21791), (201, 21965), (207, 21998), (213, 22034), (232, 22127), (244, 22187), (248, 22205), (272, 22337), (280, 22382), (304, 22514), (310, 22559), (325, 22619), (342, 22733), (346, 22754), (352, 22793), (355, 22814), (357, 22829), (385, 22979), (386, 22985), (387, 23003), (397, 23057), (408, 23141), (424, 23234), (458, 23480), (483, 23696), (492, 23780), (499, 23813),

Gene: Donkeykong_18 Start: 17574, Stop: 20111, Start Num: 56

Candidate Starts for Donkeykong_18:

(54, 17562), (Start: 56 @17574 has 208 MA's), (66, 17595), (Start: 75 @17616 has 1 MA's), (84, 17655), (104, 17724), (106, 17733), (107, 17736), (113, 17754), (119, 17787), (122, 17802), (132, 17850), (154, 17961), (155, 17964), (163, 17994), (166, 18006), (167, 18009), (180, 18087), (184, 18111), (194, 18177), (202, 18222), (207, 18252), (208, 18258), (210, 18276), (217, 18300), (219, 18309), (225, 18342), (226, 18348), (232, 18378), (241, 18417), (242, 18429), (244, 18438), (247, 18453), (248, 18456), (268, 18567), (269, 18570), (270, 18579), (271, 18585), (274, 18600), (275, 18603), (277, 18624), (285, 18654), (287, 18666), (292, 18699), (304, 18765), (310, 18810), (311, 18813), (317, 18840), (319, 18846), (328, 18900), (329, 18903), (346, 19005), (348, 19017), (349, 19020), (358, 19086), (364, 19110), (366, 19131), (368, 19140), (378, 19200), (379, 19203), (386, 19239), (387, 19257), (391, 19269), (392, 19278), (396, 19305), (406, 19374), (408, 19392), (411, 19401), (413, 19413), (417, 19449), (421, 19479), (425, 19500), (430, 19524), (433, 19560), (440, 19614), (446, 19674), (453, 19716), (462, 19794), (470, 19851), (474, 19875), (480, 19929), (483, 19977), (489, 20019), (491, 20043), (492, 20046),

Gene: Doomphist_18 Start: 17534, Stop: 20071, Start Num: 56

Candidate Starts for Doomphist_18:

(Start: 56 @17534 has 208 MA's), (66, 17555), (Start: 75 @17576 has 1 MA's), (84, 17615), (104, 17684), (106, 17693), (107, 17696), (113, 17714), (122, 17762), (154, 17921), (155, 17924), (167, 17969), (180, 18047), (184, 18071), (194, 18137), (207, 18212), (208, 18218), (210, 18236), (217, 18260), (218, 18266), (219, 18269), (225, 18302), (226, 18308), (232, 18338), (237, 18359), (242, 18389), (244, 18398), (264, 18506), (267, 18518), (268, 18527), (269, 18530), (271, 18545), (274, 18560), (275, 18563), (277, 18584), (287, 18626), (292, 18659), (310, 18770), (311, 18773), (317, 18800), (319, 18806), (328, 18860), (329, 18863), (331, 18890), (346, 18965), (348, 18977), (349, 18980), (358, 19046), (363, 19067), (364, 19070), (366, 19091), (368, 19100), (378, 19160), (379, 19163), (386, 19199), (387, 19217), (391, 19229), (392, 19238), (396, 19265), (404, 19322), (406, 19334), (408, 19352), (411, 19361), (413, 19373), (417, 19409), (421, 19439), (424, 19448), (425, 19460), (433, 19520), (440, 19574), (446, 19634), (453, 19676), (470, 19811), (474, 19835), (480, 19889), (483, 19937), (489, 19979), (491, 20003), (492, 20006),

Gene: Dorothy_18 Start: 17358, Stop: 19895, Start Num: 56

Candidate Starts for Dorothy_18:

(54, 17346), (Start: 56 @17358 has 208 MA's), (66, 17379), (Start: 75 @17400 has 1 MA's), (84, 17439), (104, 17508), (106, 17517), (107, 17520), (113, 17538), (122, 17586), (132, 17634), (154, 17745), (155, 17748), (167, 17793), (180, 17871), (184, 17895), (194, 17961), (202, 18006), (207, 18036), (208, 18042), (210, 18060), (217, 18084), (219, 18093), (225, 18126), (226, 18132), (232, 18162), (241, 18201), (242, 18213), (244, 18222), (247, 18237), (248, 18240), (268, 18351), (269, 18354), (270, 18363), (271, 18369), (274, 18384), (275, 18387), (277, 18408), (285, 18438), (287, 18450), (292, 18483), (310, 18594), (311, 18597), (317, 18624), (319, 18630), (328, 18684), (329, 18687), (346, 18789), (348, 18801), (349, 18804), (358, 18870), (364, 18894), (366, 18915), (368, 18924), (378, 18984), (379, 18987), (386, 19023), (387, 19041), (392, 19062), (396, 19089), (406, 19158), (408, 19176), (411, 19185), (413, 19197), (417, 19233), (425, 19284), (428, 19302), (433, 19344), (440, 19398), (453, 19500), (470, 19635), (474, 19659), (480, 19713), (486, 19782), (491, 19827), (492, 19830),

Gene: DosHalletts_21 Start: 17327, Stop: 19879, Start Num: 56

Candidate Starts for DosHalletts_21:

(Start: 56 @17327 has 208 MA's), (90, 17417), (104, 17477), (106, 17486), (107, 17489), (113, 17507), (122, 17555), (131, 17600), (154, 17714), (155, 17717), (158, 17729), (164, 17750), (166, 17759), (167, 17762), (180, 17840), (188, 17906), (196, 17939), (202, 17975), (206, 17999), (218, 18059), (219, 18062), (222, 18080), (235, 18143), (236, 18146), (241, 18164), (244, 18185), (248, 18203), (253, 18230), (256, 18251), (263, 18284), (270, 18326), (271, 18332), (272, 18335), (275, 18350), (279, 18377), (280, 18380), (285, 18401), (287, 18413), (292, 18446), (308, 18539), (328, 18647), (330, 18671), (331, 18677), (336, 18695), (337, 18698), (340, 18722), (346, 18752), (350, 18776), (355, 18812), (356, 18818), (357, 18827), (363, 18854), (373, 18917), (375, 18941), (376, 18956), (385, 18998), (393, 19049), (407, 19145), (408, 19160), (411, 19169), (415, 19193), (424, 19256), (430, 19292), (468, 19598), (474, 19643), (483, 19745),

Gene: DotProduct_18 Start: 17408, Stop: 19939, Start Num: 56

Candidate Starts for DotProduct_18:

(54, 17396), (Start: 56 @17408 has 208 MA's), (66, 17429), (Start: 75 @17450 has 1 MA's), (84, 17489), (104, 17558), (106, 17567), (107, 17570), (113, 17588), (119, 17621), (122, 17636), (132, 17678), (154, 17789), (155, 17792), (164, 17825), (166, 17834), (167, 17837), (180, 17915), (194, 18005), (202, 18050), (207, 18080), (208, 18086), (210, 18104), (217, 18128), (219, 18137), (225, 18170), (226, 18176), (232, 18206), (242, 18257), (244, 18266), (247, 18281), (248, 18284), (268, 18395), (269, 18398), (270, 18407), (271, 18413), (274, 18428), (275, 18431), (277, 18452), (285, 18482), (287, 18494), (292, 18527), (310, 18638), (311, 18641), (319, 18674), (328, 18728), (329, 18731), (346, 18833), (348, 18845), (349, 18848), (358, 18914), (364, 18938), (366, 18959), (368, 18968), (378, 19028), (379, 19031), (386, 19067), (387, 19085), (391, 19097), (392, 19106), (396, 19133), (406, 19202), (408, 19220), (411, 19229), (413, 19241), (417, 19277), (421, 19307), (425, 19328), (430, 19352), (433, 19388), (440, 19442), (446, 19502), (453, 19544), (462, 19622), (470, 19679), (474, 19703), (480, 19757), (483, 19805), (489, 19847), (491, 19871), (492, 19874),

Gene: Doug_19 Start: 17950, Stop: 20487, Start Num: 56

Candidate Starts for Doug_19:

(54, 17938), (Start: 56 @17950 has 208 MA's), (66, 17971), (Start: 75 @17992 has 1 MA's), (84, 18031), (104, 18100), (106, 18109), (107, 18112), (113, 18130), (119, 18163), (122, 18178), (132, 18226), (152, 18331), (154, 18337), (155, 18340), (166, 18382), (167, 18385), (180, 18463), (194, 18553), (202, 18598), (207, 18628), (208, 18634), (210, 18652), (217, 18676), (219, 18685), (225, 18718), (226, 18724), (232, 18754), (241, 18793), (242, 18805), (244, 18814), (247, 18829), (248, 18832), (268, 18943), (269, 18946), (270, 18955), (271, 18961), (274, 18976), (275, 18979), (277, 19000), (285, 19030), (287, 19042), (292, 19075), (304, 19141), (310, 19186), (311, 19189), (317, 19216), (319, 19222), (328, 19276), (329, 19279), (343, 19366), (346, 19381), (348, 19393), (349, 19396), (358, 19462), (364, 19486), (366, 19507), (368, 19516), (378, 19576), (379, 19579), (386,

19615), (387, 19633), (391, 19645), (392, 19654), (396, 19681), (406, 19750), (408, 19768), (411, 19777), (413, 19789), (417, 19825), (421, 19855), (425, 19876), (430, 19900), (433, 19936), (440, 19990), (446, 20050), (453, 20092), (462, 20170), (470, 20227), (474, 20251), (480, 20305), (483, 20353), (491, 20419), (492, 20422),

Gene: DrDrey_27 Start: 22776, Stop: 25172, Start Num: 88

Candidate Starts for DrDrey_27:

(Start: 88 @22776 has 116 MA's), (129, 22953), (134, 22974), (173, 23121), (201, 23295), (207, 23328), (213, 23364), (232, 23457), (244, 23517), (248, 23535), (272, 23667), (280, 23712), (304, 23844), (310, 23889), (325, 23949), (342, 24063), (346, 24084), (352, 24123), (355, 24144), (357, 24159), (385, 24309), (386, 24315), (387, 24333), (397, 24387), (408, 24471), (424, 24564), (458, 24810), (483, 25026), (492, 25110), (499, 25143),

Gene: Drago_19 Start: 17219, Stop: 19756, Start Num: 56

Candidate Starts for Drago_19:

(54, 17207), (Start: 56 @17219 has 208 MA's), (66, 17240), (Start: 75 @17261 has 1 MA's), (84, 17300), (104, 17369), (106, 17378), (107, 17381), (113, 17399), (119, 17432), (122, 17447), (132, 17495), (152, 17600), (155, 17609), (166, 17651), (167, 17654), (180, 17732), (184, 17756), (194, 17822), (202, 17867), (207, 17897), (208, 17903), (210, 17921), (217, 17945), (219, 17954), (225, 17987), (226, 17993), (232, 18023), (241, 18062), (242, 18074), (244, 18083), (247, 18098), (248, 18101), (268, 18212), (270, 18224), (271, 18230), (274, 18245), (275, 18248), (277, 18269), (285, 18299), (287, 18311), (292, 18344), (304, 18410), (310, 18455), (311, 18458), (317, 18485), (319, 18491), (328, 18545), (329, 18548), (331, 18575), (346, 18650), (348, 18662), (349, 18665), (358, 18731), (364, 18755), (368, 18785), (375, 18827), (378, 18845), (379, 18848), (386, 18884), (387, 18902), (392, 18923), (396, 18950), (406, 19019), (408, 19037), (411, 19046), (413, 19058), (417, 19094), (421, 19124), (424, 19133), (425, 19145), (433, 19205), (440, 19259), (446, 19319), (453, 19361), (462, 19439), (470, 19496), (474, 19520), (480, 19574), (483, 19622), (489, 19664), (491, 19688), (492, 19691),

Gene: Duke13_36 Start: 29781, Stop: 32336, Start Num: 56

Candidate Starts for Duke13_36:

(50, 29724), (Start: 56 @29781 has 208 MA's), (113, 29976), (119, 30012), (122, 30027), (132, 30075), (154, 30186), (155, 30189), (167, 30234), (180, 30312), (184, 30336), (194, 30402), (202, 30447), (207, 30477), (208, 30483), (210, 30501), (217, 30525), (219, 30534), (225, 30567), (226, 30573), (232, 30603), (241, 30642), (242, 30654), (244, 30663), (247, 30678), (248, 30681), (268, 30792), (269, 30795), (270, 30804), (271, 30810), (274, 30825), (275, 30828), (277, 30849), (285, 30879), (287, 30891), (292, 30924), (310, 31035), (311, 31038), (317, 31065), (319, 31071), (328, 31125), (329, 31128), (346, 31230), (348, 31242), (349, 31245), (358, 31311), (364, 31335), (366, 31356), (368, 31365), (378, 31425), (379, 31428), (386, 31464), (387, 31482), (392, 31503), (396, 31530), (406, 31599), (408, 31617), (411, 31626), (413, 31638), (417, 31674), (425, 31725), (428, 31743), (433, 31785), (440, 31839), (453, 31941), (470, 32076), (474, 32100), (480, 32154), (486, 32223), (491, 32268), (492, 32271),

Gene: Dumbo_26 Start: 21751, Stop: 24147, Start Num: 88

Candidate Starts for Dumbo_26:

(Start: 88 @21751 has 116 MA's), (129, 21928), (134, 21949), (173, 22096), (201, 22270), (207, 22303), (213, 22339), (232, 22432), (244, 22492), (248, 22510), (272, 22642), (280, 22687), (304, 22819), (310, 22864), (325, 22924), (342, 23038), (346, 23059), (352, 23098), (355, 23119), (357, 23134), (385, 23284), (386, 23290), (387, 23308), (397, 23362), (408, 23446), (424, 23539), (458, 23785), (483, 24001), (492, 24085), (499, 24118),

Gene: Dusk_25 Start: 21943, Stop: 24339, Start Num: 88

Candidate Starts for Dusk_25:

(Start: 88 @21943 has 116 MA's), (129, 22120), (134, 22141), (173, 22288), (196, 22429), (201, 22462), (207, 22495), (213, 22531), (232, 22624), (244, 22684), (248, 22702), (263, 22783), (304, 23011), (310, 23056), (346, 23251), (347, 23257), (349, 23266), (355, 23311), (357, 23326), (386, 23482), (387, 23500), (390, 23509), (398, 23563), (408, 23638), (409, 23641), (439, 23851), (441, 23863), (458, 23977), (483, 24193), (492, 24277), (497, 24301), (499, 24310),

Gene: Dylan_58 Start: 36190, Stop: 38700, Start Num: 73

Candidate Starts for Dylan_58:

(Start: 73 @36190 has 22 MA's), (79, 36223), (93, 36292), (94, 36295), (102, 36319), (107, 36343), (114, 36367), (119, 36400), (159, 36607), (162, 36619), (163, 36622), (187, 36769), (188, 36799), (194, 36823), (202, 36853), (203, 36856), (207, 36883), (210, 36907), (218, 36937), (229, 36994), (241, 37054), (242, 37066), (247, 37090), (248, 37093), (254, 37135), (274, 37231), (275, 37234), (323, 37489), (346, 37633), (355, 37693), (365, 37765), (366, 37768), (383, 37864), (408, 38038), (413, 38059), (426, 38152), (429, 38164), (440, 38254), (451, 38329), (461, 38374), (485, 38575), (490, 38629), (495, 38644),

Gene: Easy2Say_28 Start: 23534, Stop: 25930, Start Num: 88

Candidate Starts for Easy2Say_28:

(Start: 88 @23534 has 116 MA's), (129, 23711), (134, 23732), (173, 23879), (196, 24020), (201, 24053), (207, 24086), (213, 24122), (232, 24215), (244, 24275), (248, 24293), (272, 24425), (280, 24470), (304, 24602), (310, 24647), (325, 24707), (342, 24821), (346, 24842), (352, 24881), (355, 24902), (357, 24917), (385, 25067), (386, 25073), (387, 25091), (397, 25145), (408, 25229), (424, 25322), (458, 25568), (483, 25784), (492, 25868), (499, 25901),

Gene: Eish_18 Start: 17540, Stop: 20077, Start Num: 56

Candidate Starts for Eish_18:

(Start: 56 @17540 has 208 MA's), (66, 17561), (Start: 75 @17582 has 1 MA's), (84, 17621), (104, 17690), (106, 17699), (107, 17702), (113, 17720), (119, 17753), (122, 17768), (132, 17816), (152, 17921), (155, 17930), (167, 17975), (180, 18053), (184, 18077), (194, 18143), (207, 18218), (208, 18224), (210, 18242), (217, 18266), (218, 18272), (219, 18275), (225, 18308), (226, 18314), (232, 18344), (237, 18365), (242, 18395), (244, 18404), (264, 18512), (267, 18524), (268, 18533), (269, 18536), (270, 18545), (271, 18551), (274, 18566), (275, 18569), (277, 18590), (285, 18620), (287, 18632), (292, 18665), (293, 18668), (304, 18731), (317, 18806), (319, 18812), (328, 18866), (329, 18869), (331, 18896), (346, 18971), (348, 18983), (349, 18986), (358, 19052), (366, 19097), (368, 19106), (378, 19166), (379, 19169), (386, 19205), (387, 19223), (392, 19244), (406, 19340), (408, 19358), (411, 19367), (413, 19379), (417, 19415), (421, 19445), (433, 19526), (440, 19580), (453, 19682), (470, 19817), (474, 19841), (480, 19895), (483, 19943), (489, 19985), (491, 20009), (492, 20012),

Gene: EleanorGeorge_18 Start: 17568, Stop: 20105, Start Num: 56

Candidate Starts for EleanorGeorge_18:

(54, 17556), (Start: 56 @17568 has 208 MA's), (66, 17589), (Start: 75 @17610 has 1 MA's), (84, 17649), (104, 17718), (106, 17727), (107, 17730), (113, 17748), (119, 17781), (122, 17796), (132, 17844), (154, 17955), (155, 17958), (163, 17988), (166, 18000), (167, 18003), (180, 18081), (184, 18105), (194, 18171), (202, 18216), (207, 18246), (208, 18252), (210, 18270), (217, 18294), (219, 18303), (225, 18336), (226, 18342), (232, 18372), (241, 18411), (242, 18423), (244, 18432), (247, 18447), (248, 18450), (268, 18561), (269, 18564), (270, 18573), (271, 18579), (274, 18594), (275, 18597), (277, 18618), (285, 18648), (287, 18660), (292, 18693), (310, 18804), (311, 18807), (317, 18834), (319, 18840), (328, 18894), (329, 18897), (343, 18984), (346, 18999), (348, 19011), (349, 19014), (358, 19080), (364, 19104), (366, 19125), (368, 19134), (378, 19194), (379, 19197), (386, 19233), (387, 19251), (391, 19263), (392, 19272), (396, 19299), (406, 19368), (408, 19386), (411, 19395), (413, 19407), (417, 19443), (421, 19473), (425, 19494), (430, 19518), (433, 19554), (440, 19608), (446, 19668), (453, 19710), (462, 19788), (470, 19845), (474, 19869), (480, 19923), (483,

19971), (489, 20013), (491, 20037), (492, 20040),

Gene: Elite2014_25 Start: 21491, Stop: 23887, Start Num: 88

Candidate Starts for Elite2014_25:

(Start: 88 @21491 has 116 MA's), (129, 21668), (134, 21689), (173, 21836), (201, 22010), (207, 22043), (213, 22079), (232, 22172), (244, 22232), (248, 22250), (272, 22382), (280, 22427), (304, 22559), (310, 22604), (325, 22664), (342, 22778), (346, 22799), (352, 22838), (355, 22859), (357, 22874), (385, 23024), (386, 23030), (387, 23048), (397, 23102), (408, 23186), (424, 23279), (458, 23525), (483, 23741), (492, 23825), (499, 23858),

Gene: Elph10_27 Start: 21754, Stop: 24150, Start Num: 88

Candidate Starts for Elph10_27:

(Start: 88 @21754 has 116 MA's), (129, 21931), (134, 21952), (173, 22099), (201, 22273), (207, 22306), (213, 22342), (232, 22435), (244, 22495), (248, 22513), (272, 22645), (280, 22690), (304, 22822), (310, 22867), (325, 22927), (342, 23041), (346, 23062), (352, 23101), (355, 23122), (357, 23137), (385, 23287), (386, 23293), (387, 23311), (397, 23365), (408, 23449), (424, 23542), (458, 23788), (483, 24004), (492, 24088), (499, 24121),

Gene: Emma_18 Start: 17448, Stop: 19985, Start Num: 56

Candidate Starts for Emma_18:

(54, 17436), (Start: 56 @17448 has 208 MA's), (66, 17469), (Start: 75 @17490 has 1 MA's), (84, 17529), (104, 17598), (106, 17607), (107, 17610), (113, 17628), (119, 17661), (122, 17676), (132, 17724), (154, 17835), (155, 17838), (163, 17868), (167, 17883), (180, 17961), (184, 17985), (194, 18051), (202, 18096), (207, 18126), (208, 18132), (210, 18150), (217, 18174), (219, 18183), (225, 18216), (226, 18222), (232, 18252), (241, 18291), (242, 18303), (244, 18312), (247, 18327), (248, 18330), (268, 18441), (269, 18444), (270, 18453), (271, 18459), (274, 18474), (275, 18477), (277, 18498), (285, 18528), (287, 18540), (292, 18573), (304, 18639), (310, 18684), (311, 18687), (317, 18714), (319, 18720), (328, 18774), (329, 18777), (343, 18864), (346, 18879), (348, 18891), (349, 18894), (358, 18960), (364, 18984), (366, 19005), (368, 19014), (375, 19056), (378, 19074), (379, 19077), (386, 19113), (387, 19131), (391, 19143), (392, 19152), (396, 19179), (406, 19248), (408, 19266), (411, 19275), (413, 19287), (417, 19323), (421, 19353), (425, 19374), (430, 19398), (433, 19434), (440, 19488), (446, 19548), (453, 19590), (470, 19725), (474, 19749), (480, 19803), (483, 19851), (489, 19893), (491, 19917), (492, 19920),

Gene: Emmina_27 Start: 22115, Stop: 24511, Start Num: 88

Candidate Starts for Emmina_27:

(Start: 88 @22115 has 116 MA's), (129, 22292), (134, 22313), (173, 22460), (201, 22634), (207, 22667), (213, 22703), (232, 22796), (244, 22856), (248, 22874), (272, 23006), (280, 23051), (304, 23183), (310, 23228), (325, 23288), (342, 23402), (346, 23423), (352, 23462), (355, 23483), (357, 23498), (385, 23648), (386, 23654), (387, 23672), (397, 23726), (408, 23810), (424, 23903), (458, 24149), (483, 24365), (492, 24449), (499, 24482),

Gene: Empress_19 Start: 18749, Stop: 21286, Start Num: 56

Candidate Starts for Empress_19:

(54, 18737), (Start: 56 @18749 has 208 MA's), (66, 18770), (Start: 75 @18791 has 1 MA's), (84, 18830), (104, 18899), (106, 18908), (107, 18911), (113, 18929), (122, 18977), (132, 19025), (154, 19136), (155, 19139), (167, 19184), (180, 19262), (184, 19286), (194, 19352), (202, 19397), (207, 19427), (208, 19433), (210, 19451), (217, 19475), (219, 19484), (225, 19517), (226, 19523), (232, 19553), (241, 19592), (242, 19604), (244, 19613), (247, 19628), (248, 19631), (268, 19742), (269, 19745), (270, 19754), (271, 19760), (274, 19775), (275, 19778), (277, 19799), (285, 19829), (287, 19841), (292, 19874), (310, 19985), (311, 19988), (317, 20015), (319, 20021), (328, 20075), (329, 20078), (346, 20180), (348, 20192), (349, 20195), (358, 20261), (364, 20285), (366, 20306), (368, 20315), (378, 20375), (379, 20378), (386, 20414), (387, 20432), (392, 20453), (396, 20480), (404,

20537), (406, 20549), (408, 20567), (411, 20576), (413, 20588), (417, 20624), (421, 20654), (424, 20663), (425, 20675), (433, 20735), (440, 20789), (446, 20849), (453, 20891), (470, 21026), (474, 21050), (480, 21104), (483, 21152), (486, 21173), (491, 21218), (492, 21221),

Gene: Enby_19 Start: 17219, Stop: 19756, Start Num: 56

Candidate Starts for Enby_19:

(54, 17207), (Start: 56 @17219 has 208 MA's), (66, 17240), (Start: 75 @17261 has 1 MA's), (84, 17300), (104, 17369), (106, 17378), (107, 17381), (113, 17399), (119, 17432), (122, 17447), (132, 17495), (152, 17600), (155, 17609), (166, 17651), (167, 17654), (180, 17732), (184, 17756), (194, 17822), (202, 17867), (207, 17897), (208, 17903), (210, 17921), (217, 17945), (219, 17954), (225, 17987), (226, 17993), (232, 18023), (241, 18062), (242, 18074), (244, 18083), (247, 18098), (248, 18101), (268, 18212), (270, 18224), (271, 18230), (274, 18245), (275, 18248), (277, 18269), (285, 18299), (287, 18311), (292, 18344), (304, 18410), (310, 18455), (311, 18458), (317, 18485), (319, 18491), (328, 18545), (329, 18548), (331, 18575), (346, 18650), (348, 18662), (349, 18665), (358, 18731), (364, 18755), (368, 18785), (375, 18827), (378, 18845), (379, 18848), (386, 18884), (387, 18902), (392, 18923), (396, 18950), (406, 19019), (408, 19037), (411, 19046), (413, 19058), (417, 19094), (421, 19124), (424, 19133), (425, 19145), (433, 19205), (440, 19259), (446, 19319), (453, 19361), (462, 19439), (470, 19496), (474, 19520), (480, 19574), (483, 19622), (489, 19664), (491, 19688), (492, 19691),

Gene: EniyanLRS_40 Start: 28045, Stop: 30612, Start Num: 57

Candidate Starts for EniyanLRS_40:

(Start: 57 @28045 has 6 MA's), (78, 28114), (110, 28237), (112, 28243), (113, 28246), (117, 28270), (121, 28291), (151, 28447), (153, 28453), (155, 28459), (163, 28489), (164, 28495), (169, 28516), (170, 28525), (179, 28585), (189, 28663), (208, 28762), (214, 28795), (218, 28810), (219, 28813), (226, 28852), (237, 28903), (241, 28921), (244, 28942), (245, 28948), (254, 29002), (268, 29071), (273, 29095), (276, 29116), (280, 29137), (283, 29146), (287, 29167), (292, 29200), (293, 29203), (300, 29254), (304, 29266), (315, 29332), (320, 29350), (326, 29389), (346, 29506), (353, 29551), (363, 29608), (366, 29632), (368, 29641), (372, 29659), (378, 29704), (385, 29737), (389, 29773), (416, 29947), (417, 29965), (418, 29971), (427, 30028), (469, 30352), (472, 30370), (477, 30421), (484, 30484), (491, 30559),

Gene: Eradicator_18 Start: 17363, Stop: 19915, Start Num: 56

Candidate Starts for Eradicator_18:

(Start: 56 @17363 has 208 MA's), (66, 17384), (90, 17453), (104, 17513), (106, 17522), (107, 17525), (119, 17576), (122, 17591), (132, 17639), (154, 17750), (155, 17753), (164, 17786), (166, 17795), (167, 17798), (180, 17876), (188, 17942), (196, 17975), (204, 18029), (207, 18041), (217, 18089), (219, 18098), (221, 18107), (227, 18140), (236, 18182), (240, 18197), (245, 18227), (246, 18233), (247, 18236), (248, 18239), (253, 18266), (256, 18287), (263, 18320), (270, 18362), (271, 18368), (272, 18371), (274, 18383), (275, 18386), (279, 18413), (285, 18437), (287, 18449), (292, 18482), (295, 18503), (308, 18575), (311, 18596), (330, 18707), (336, 18731), (337, 18734), (340, 18758), (346, 18788), (350, 18812), (355, 18848), (356, 18854), (357, 18863), (373, 18953), (375, 18977), (376, 18992), (385, 19034), (386, 19040), (393, 19085), (407, 19181), (408, 19196), (411, 19205), (415, 19229), (424, 19292), (440, 19418), (468, 19634), (474, 19679), (483, 19781), (495, 19859),

Gene: Erk16_30 Start: 24319, Stop: 26589, Start Num: 135

Candidate Starts for Erk16_30:

(Start: 135 @24319 has 20 MA's), (167, 24454), (169, 24463), (191, 24637), (192, 24643), (195, 24655), (224, 24808), (226, 24823), (230, 24838), (300, 25219), (301, 25225), (309, 25270), (327, 25357), (359, 25558), (360, 25564), (369, 25612), (374, 25642), (377, 25666), (405, 25855), (410, 25882), (417, 25930), (430, 26002), (434, 26041), (436, 26062), (438, 26077), (440, 26095), (442, 26125), (453, 26209), (478, 26410), (483, 26452), (502, 26578),

Gene: Estave1_18 Start: 17517, Stop: 20006, Start Num: 56

Candidate Starts for Estave1_18:

(Start: 56 @17517 has 208 MA's), (66, 17538), (Start: 75 @17559 has 1 MA's), (85, 17598), (104, 17667), (106, 17676), (107, 17679), (113, 17697), (119, 17730), (122, 17745), (133, 17793), (147, 17847), (155, 17883), (157, 17892), (164, 17910), (167, 17922), (171, 17934), (175, 17958), (176, 17961), (199, 18105), (202, 18114), (207, 18138), (210, 18162), (217, 18186), (218, 18192), (222, 18213), (226, 18234), (232, 18264), (239, 18294), (242, 18315), (260, 18408), (263, 18423), (264, 18432), (268, 18453), (269, 18456), (285, 18540), (286, 18543), (287, 18552), (290, 18579), (293, 18588), (298, 18627), (302, 18648), (304, 18651), (309, 18687), (313, 18708), (328, 18786), (329, 18789), (339, 18843), (348, 18903), (364, 18996), (366, 19017), (374, 19053), (382, 19107), (385, 19116), (395, 19194), (398, 19212), (401, 19248), (402, 19251), (406, 19269), (407, 19272), (408, 19287), (417, 19344), (419, 19356), (433, 19452), (443, 19539), (450, 19587), (452, 19611), (456, 19638), (458, 19647), (461, 19686), (467, 19725), (470, 19749), (473, 19770), (483, 19866), (486, 19887), (495, 19950), (499, 19977), (501, 19986),

Gene: Eureka_26 Start: 22269, Stop: 24665, Start Num: 88

Candidate Starts for Eureka_26:

(Start: 88 @22269 has 116 MA's), (129, 22446), (134, 22467), (173, 22614), (196, 22755), (201, 22788), (207, 22821), (213, 22857), (232, 22950), (244, 23010), (248, 23028), (263, 23109), (304, 23337), (310, 23382), (346, 23577), (347, 23583), (349, 23592), (355, 23637), (357, 23652), (386, 23808), (387, 23826), (390, 23835), (398, 23889), (408, 23964), (409, 23967), (439, 24177), (441, 24189), (458, 24303), (483, 24519), (492, 24603), (497, 24627), (499, 24636),

Gene: Familton_59 Start: 36102, Stop: 38612, Start Num: 73

Candidate Starts for Familton_59:

(Start: 73 @36102 has 22 MA's), (79, 36135), (93, 36204), (94, 36207), (102, 36231), (107, 36255), (114, 36279), (119, 36312), (159, 36519), (162, 36531), (163, 36534), (187, 36681), (188, 36711), (194, 36735), (202, 36765), (203, 36768), (207, 36795), (210, 36819), (218, 36849), (229, 36906), (233, 36930), (241, 36966), (242, 36978), (247, 37002), (248, 37005), (254, 37047), (274, 37143), (275, 37146), (323, 37401), (346, 37545), (355, 37605), (365, 37677), (366, 37680), (383, 37776), (408, 37950), (413, 37971), (426, 38064), (429, 38076), (440, 38166), (451, 38241), (461, 38286), (485, 38487), (490, 38541), (495, 38556),

Gene: Fancypants_18 Start: 17408, Stop: 19945, Start Num: 56

Candidate Starts for Fancypants_18:

(54, 17396), (Start: 56 @17408 has 208 MA's), (66, 17429), (Start: 75 @17450 has 1 MA's), (84, 17489), (104, 17558), (106, 17567), (107, 17570), (113, 17588), (119, 17621), (122, 17636), (132, 17684), (154, 17795), (155, 17798), (163, 17828), (166, 17840), (167, 17843), (180, 17921), (184, 17945), (194, 18011), (202, 18056), (207, 18086), (208, 18092), (210, 18110), (217, 18134), (219, 18143), (225, 18176), (226, 18182), (232, 18212), (241, 18251), (242, 18263), (244, 18272), (247, 18287), (248, 18290), (268, 18401), (269, 18404), (270, 18413), (271, 18419), (274, 18434), (275, 18437), (277, 18458), (285, 18488), (287, 18500), (292, 18533), (310, 18644), (311, 18647), (317, 18674), (319, 18680), (328, 18734), (329, 18737), (346, 18839), (348, 18851), (349, 18854), (358, 18920), (364, 18944), (366, 18965), (368, 18974), (378, 19034), (379, 19037), (380, 19049), (386, 19073), (387, 19091), (391, 19103), (392, 19112), (396, 19139), (406, 19208), (408, 19226), (411, 19235), (413, 19247), (417, 19283), (421, 19313), (425, 19334), (430, 19358), (433, 19394), (440, 19448), (446, 19508), (453, 19550), (462, 19628), (470, 19685), (474, 19709), (480, 19763), (483, 19811), (489, 19853), (491, 19877), (492, 19880),

Gene: Filch_27 Start: 22042, Stop: 24438, Start Num: 88

Candidate Starts for Filch_27:

(Start: 88 @22042 has 116 MA's), (129, 22219), (134, 22240), (173, 22387), (196, 22528), (201, 22561), (207, 22594), (213, 22630), (232, 22723), (244, 22783), (248, 22801), (272, 22933), (280,

22978), (304, 23110), (310, 23155), (325, 23215), (342, 23329), (346, 23350), (352, 23389), (355, 23410), (357, 23425), (385, 23575), (386, 23581), (387, 23599), (397, 23653), (408, 23737), (424, 23830), (458, 24076), (483, 24292), (492, 24376), (499, 24409),

Gene: Filuzino_18 Start: 17390, Stop: 19927, Start Num: 56

Candidate Starts for Filuzino_18:

(54, 17378), (Start: 56 @17390 has 208 MA's), (66, 17411), (Start: 75 @17432 has 1 MA's), (84, 17471), (104, 17540), (106, 17549), (107, 17552), (113, 17570), (119, 17603), (122, 17618), (132, 17666), (154, 17777), (155, 17780), (163, 17810), (167, 17825), (180, 17903), (184, 17927), (194, 17993), (202, 18038), (207, 18068), (208, 18074), (210, 18092), (217, 18116), (219, 18125), (225, 18158), (226, 18164), (232, 18194), (241, 18233), (242, 18245), (244, 18254), (247, 18269), (248, 18272), (268, 18383), (269, 18386), (270, 18395), (271, 18401), (274, 18416), (275, 18419), (277, 18440), (285, 18470), (287, 18482), (292, 18515), (310, 18626), (311, 18629), (317, 18656), (319, 18662), (328, 18716), (329, 18719), (346, 18821), (348, 18833), (349, 18836), (358, 18902), (364, 18926), (366, 18947), (368, 18956), (378, 19016), (379, 19019), (386, 19055), (387, 19073), (391, 19085), (392, 19094), (396, 19121), (406, 19190), (408, 19208), (411, 19217), (413, 19229), (417, 19265), (421, 19295), (425, 19316), (430, 19340), (433, 19376), (440, 19430), (446, 19490), (453, 19532), (462, 19610), (470, 19667), (474, 19691), (480, 19745), (483, 19793), (489, 19835), (491, 19859), (492, 19862),

Gene: FireRed_26 Start: 22312, Stop: 24708, Start Num: 88

Candidate Starts for FireRed_26:

(Start: 88 @22312 has 116 MA's), (129, 22489), (134, 22510), (173, 22657), (196, 22798), (201, 22831), (207, 22864), (213, 22900), (232, 22993), (244, 23053), (248, 23071), (272, 23203), (280, 23248), (304, 23380), (310, 23425), (325, 23485), (342, 23599), (346, 23620), (352, 23659), (355, 23680), (357, 23695), (385, 23845), (386, 23851), (387, 23869), (397, 23923), (408, 24007), (424, 24100), (458, 24346), (483, 24562), (492, 24646), (499, 24679),

Gene: Firecracker_59 Start: 36292, Stop: 38802, Start Num: 73

Candidate Starts for Firecracker_59:

(Start: 73 @36292 has 22 MA's), (79, 36325), (93, 36394), (94, 36397), (102, 36421), (107, 36445), (114, 36469), (119, 36502), (159, 36709), (162, 36721), (163, 36724), (187, 36871), (188, 36901), (194, 36925), (202, 36955), (203, 36958), (207, 36985), (210, 37009), (218, 37039), (229, 37096), (241, 37156), (242, 37168), (247, 37192), (248, 37195), (254, 37237), (274, 37333), (275, 37336), (310, 37540), (323, 37591), (346, 37735), (355, 37795), (365, 37867), (366, 37870), (383, 37966), (408, 38140), (413, 38161), (426, 38254), (429, 38266), (440, 38356), (451, 38431), (461, 38476), (485, 38677), (490, 38731), (495, 38746),

Gene: Firehouse51_19 Start: 17957, Stop: 20494, Start Num: 56

Candidate Starts for Firehouse51_19:

(54, 17945), (Start: 56 @17957 has 208 MA's), (66, 17978), (Start: 75 @17999 has 1 MA's), (84, 18038), (104, 18107), (106, 18116), (107, 18119), (113, 18137), (119, 18170), (122, 18185), (132, 18233), (154, 18344), (155, 18347), (163, 18377), (166, 18389), (167, 18392), (180, 18470), (184, 18494), (194, 18560), (202, 18605), (207, 18635), (208, 18641), (210, 18659), (217, 18683), (219, 18692), (225, 18725), (226, 18731), (232, 18761), (241, 18800), (242, 18812), (244, 18821), (247, 18836), (248, 18839), (268, 18950), (269, 18953), (270, 18962), (271, 18968), (274, 18983), (275, 18986), (277, 19007), (285, 19037), (287, 19049), (292, 19082), (310, 19193), (311, 19196), (317, 19223), (319, 19229), (328, 19283), (329, 19286), (346, 19388), (348, 19400), (349, 19403), (358, 19469), (364, 19493), (366, 19514), (368, 19523), (378, 19583), (379, 19586), (386, 19622), (387, 19640), (391, 19652), (392, 19661), (396, 19688), (406, 19757), (408, 19775), (411, 19784), (413, 19796), (417, 19832), (421, 19862), (425, 19883), (430, 19907), (433, 19943), (440, 19997), (446, 20057), (453, 20099), (462, 20177), (470, 20234), (474, 20258), (480, 20312), (483, 20360), (489, 20402), (491, 20426), (492, 20429),

Gene: Flathead_19 Start: 17265, Stop: 19802, Start Num: 56

Candidate Starts for Flathead_19:

(54, 17253), (Start: 56 @17265 has 208 MA's), (66, 17286), (Start: 75 @17307 has 1 MA's), (84, 17346), (104, 17415), (106, 17424), (107, 17427), (113, 17445), (119, 17478), (122, 17493), (132, 17541), (154, 17652), (155, 17655), (163, 17685), (166, 17697), (167, 17700), (180, 17778), (184, 17802), (194, 17868), (202, 17913), (207, 17943), (208, 17949), (210, 17967), (217, 17991), (219, 18000), (225, 18033), (226, 18039), (232, 18069), (241, 18108), (242, 18120), (244, 18129), (247, 18144), (248, 18147), (268, 18258), (269, 18261), (270, 18270), (271, 18276), (274, 18291), (275, 18294), (277, 18315), (285, 18345), (287, 18357), (292, 18390), (304, 18456), (310, 18501), (311, 18504), (317, 18531), (319, 18537), (328, 18591), (329, 18594), (343, 18681), (346, 18696), (348, 18708), (349, 18711), (358, 18777), (364, 18801), (366, 18822), (368, 18831), (378, 18891), (379, 18894), (386, 18930), (387, 18948), (391, 18960), (392, 18969), (396, 18996), (406, 19065), (408, 19083), (411, 19092), (413, 19104), (417, 19140), (421, 19170), (425, 19191), (430, 19215), (433, 19251), (440, 19305), (446, 19365), (453, 19407), (470, 19542), (474, 19566), (480, 19620), (483, 19668), (489, 19710), (491, 19734), (492, 19737),

Gene: Florinda_18 Start: 17419, Stop: 19956, Start Num: 56

Candidate Starts for Florinda_18:

(Start: 56 @17419 has 208 MA's), (66, 17440), (Start: 75 @17461 has 1 MA's), (84, 17500), (104, 17569), (106, 17578), (107, 17581), (113, 17599), (119, 17632), (122, 17647), (132, 17695), (154, 17806), (155, 17809), (163, 17839), (167, 17854), (180, 17932), (184, 17956), (194, 18022), (202, 18067), (207, 18097), (208, 18103), (210, 18121), (217, 18145), (219, 18154), (225, 18187), (226, 18193), (232, 18223), (241, 18262), (244, 18283), (247, 18298), (248, 18301), (269, 18415), (270, 18424), (271, 18430), (275, 18448), (277, 18469), (285, 18499), (287, 18511), (292, 18544), (310, 18655), (311, 18658), (317, 18685), (319, 18691), (328, 18745), (329, 18748), (343, 18835), (346, 18850), (349, 18865), (364, 18955), (366, 18976), (368, 18985), (378, 19045), (379, 19048), (385, 19078), (387, 19102), (392, 19123), (406, 19219), (408, 19237), (411, 19246), (413, 19258), (417, 19294), (421, 19324), (425, 19345), (430, 19369), (433, 19405), (440, 19459), (446, 19519), (453, 19561), (462, 19639), (470, 19696), (474, 19720), (480, 19774), (483, 19822), (489, 19864), (491, 19888), (492, 19891),

Gene: Flypotenuse_24 Start: 21900, Stop: 24296, Start Num: 88

Candidate Starts for Flypotenuse_24:

(Start: 88 @21900 has 116 MA's), (129, 22077), (134, 22098), (173, 22245), (196, 22386), (201, 22419), (207, 22452), (213, 22488), (232, 22581), (244, 22641), (248, 22659), (272, 22791), (304, 22968), (310, 23013), (342, 23187), (346, 23208), (352, 23247), (355, 23268), (357, 23283), (386, 23439), (387, 23457), (397, 23511), (408, 23595), (455, 23919), (483, 24150), (492, 24234), (499, 24267),

Gene: FoulBall_55 Start: 36096, Stop: 38606, Start Num: 73

Candidate Starts for FoulBall_55:

(Start: 73 @36096 has 22 MA's), (79, 36129), (93, 36198), (94, 36201), (102, 36225), (107, 36249), (114, 36273), (119, 36306), (159, 36513), (162, 36525), (163, 36528), (187, 36675), (188, 36705), (194, 36729), (202, 36759), (203, 36762), (207, 36789), (210, 36813), (218, 36843), (229, 36900), (233, 36924), (241, 36960), (242, 36972), (247, 36996), (248, 36999), (254, 37041), (274, 37137), (275, 37140), (323, 37395), (346, 37539), (355, 37599), (365, 37671), (366, 37674), (383, 37770), (408, 37944), (413, 37965), (426, 38058), (429, 38070), (440, 38160), (451, 38235), (461, 38280), (485, 38481), (490, 38535), (495, 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), (27, 21171), (28, 21174), (32, 21180), (36, 21207), (40, 21225), (127, 21675), (130, 21696), (166, 21879), (167, 21882), (177, 21951), (178, 21957), (190, 22053), (196, 22077), (198, 22101), (212, 22176), (228, 22251), (244, 22338), (251, 22374), (260, 22425), (261, 22428), (271, 22488), (287, 22566), (292, 22599), (297, 22638), (310, 22710), (377, 23100), (384, 23136), (394, 23211), (414, 23334), (479, 23790), (503, 23973),

Gene: Frankie_19 Start: 17503, Stop: 20040, Start Num: 56

Candidate Starts for Frankie_19:

(Start: 56 @17503 has 208 MA's), (66, 17524), (Start: 75 @17545 has 1 MA's), (84, 17584), (104, 17653), (106, 17662), (107, 17665), (113, 17683), (119, 17716), (122, 17731), (132, 17779), (154, 17890), (155, 17893), (163, 17923), (167, 17938), (180, 18016), (184, 18040), (194, 18106), (202, 18151), (207, 18181), (208, 18187), (210, 18205), (217, 18229), (219, 18238), (225, 18271), (226, 18277), (232, 18307), (241, 18346), (244, 18367), (247, 18382), (249, 18388), (275, 18532), (277, 18553), (285, 18583), (287, 18595), (292, 18628), (302, 18691), (304, 18694), (317, 18769), (319, 18775), (328, 18829), (329, 18832), (331, 18859), (333, 18868), (346, 18934), (348, 18946), (349, 18949), (358, 19015), (363, 19036), (364, 19039), (366, 19060), (375, 19111), (378, 19129), (379, 19132), (385, 19162), (387, 19186), (392, 19207), (397, 19240), (406, 19303), (408, 19321), (411, 19330), (413, 19342), (421, 19408), (424, 19417), (425, 19429), (446, 19603), (453, 19645), (462, 19723), (470, 19780), (474, 19804), (480, 19858), (483, 19906), (491, 19972), (492, 19975),

Gene: FreddyB_18 Start: 17407, Stop: 19959, Start Num: 56

Candidate Starts for FreddyB_18:

(Start: 56 @17407 has 208 MA's), (84, 17488), (104, 17557), (106, 17566), (107, 17569), (113, 17587), (122, 17635), (131, 17680), (154, 17794), (155, 17797), (158, 17809), (164, 17830), (166, 17839), (167, 17842), (176, 17890), (180, 17920), (188, 17986), (196, 18019), (202, 18055), (206, 18079), (218, 18139), (219, 18142), (222, 18160), (235, 18223), (236, 18226), (241, 18244), (244, 18265), (248, 18283), (253, 18310), (256, 18331), (263, 18364), (270, 18406), (271, 18412), (272, 18415), (275, 18430), (279, 18457), (285, 18481), (287, 18493), (292, 18526), (308, 18619), (328, 18727), (330, 18751), (336, 18775), (337, 18778), (340, 18802), (346, 18832), (350, 18856), (355, 18892), (356, 18898), (357, 18907), (363, 18934), (373, 18997), (375, 19021), (376, 19036), (385, 19078), (393, 19129), (407, 19225), (408, 19240), (411, 19249), (415, 19273), (424, 19336), (430, 19372), (468, 19678), (474, 19723), (483, 19825),

Gene: Fruitloop_18 Start: 17429, Stop: 19966, Start Num: 56

Candidate Starts for Fruitloop_18:

(54, 17417), (Start: 56 @17429 has 208 MA's), (66, 17450), (Start: 75 @17471 has 1 MA's), (84, 17510), (104, 17579), (106, 17588), (107, 17591), (113, 17609), (119, 17642), (122, 17657), (132, 17705), (154, 17816), (155, 17819), (163, 17849), (166, 17861), (167, 17864), (180, 17942), (184, 17966), (194, 18032), (202, 18077), (207, 18107), (208, 18113), (210, 18131), (217, 18155), (219, 18164), (225, 18197), (226, 18203), (232, 18233), (241, 18272), (242, 18284), (244, 18293), (247, 18308), (248, 18311), (268, 18422), (269, 18425), (270, 18434), (271, 18440), (274, 18455), (275, 18458), (277, 18479), (285, 18509), (287, 18521), (292, 18554), (310, 18665), (311, 18668), (317, 18695), (319, 18701), (328, 18755), (329, 18758), (343, 18845), (346, 18860), (348, 18872), (349, 18875), (358, 18941), (364, 18965), (366, 18986), (368, 18995), (378, 19055), (379, 19058), (386, 19094), (387, 19112), (391, 19124), (392, 19133), (396, 19160), (406, 19229), (408, 19247), (411, 19256), (413, 19268), (417, 19304), (421, 19334), (425, 19355), (430, 19379), (433, 19415), (440, 19469), (446, 19529), (453, 19571), (462, 19649), (470, 19706), (474, 19730), (480, 19784), (483, 19832), (489, 19874), (491, 19898), (492, 19901),

Gene: GUmbie_18 Start: 17402, Stop: 19939, Start Num: 56

Candidate Starts for GUmbie_18:

(Start: 56 @17402 has 208 MA's), (66, 17423), (Start: 75 @17444 has 1 MA's), (84, 17483), (104, 17552), (106, 17561), (107, 17564), (113, 17582), (119, 17615), (122, 17630), (152, 17783), (155, 17792), (167, 17837), (183, 17936), (184, 17939), (194, 18005), (207, 18080), (208, 18086), (217, 18128), (218, 18134), (219, 18137), (225, 18170), (226, 18176), (232, 18206), (237, 18227), (242, 18257), (244, 18266), (247, 18281), (248, 18284), (268, 18395), (269, 18398), (270, 18407), (271, 18413), (274, 18428), (275, 18431), (277, 18452), (285, 18482), (287, 18494), (292, 18527), (310, 18638), (311, 18641), (317, 18668), (319, 18674), (328, 18728), (329, 18731), (343, 18818), (346, 18833), (348, 18845), (349, 18848), (358, 18914), (364, 18938), (366, 18959), (368, 18968), (375, 19010), (378, 19028), (379, 19031), (385, 19061), (387, 19085), (391, 19097), (392, 19106), (406, 19202), (408, 19220), (411, 19229), (413, 19241), (417, 19277), (421, 19307), (424, 19316), (425, 19328), (433, 19388), (440, 19442), (446, 19502), (453, 19544), (470, 19679), (474, 19703), (480, 19757), (483, 19805), (489, 19847), (491, 19871), (492, 19874),

Gene: Gage_28 Start: 22274, Stop: 24670, Start Num: 88

Candidate Starts for Gage_28:

(Start: 88 @22274 has 116 MA's), (129, 22451), (134, 22472), (173, 22619), (196, 22760), (201, 22793), (207, 22826), (213, 22862), (232, 22955), (244, 23015), (248, 23033), (272, 23165), (280, 23210), (304, 23342), (310, 23387), (325, 23447), (342, 23561), (346, 23582), (352, 23621), (355, 23642), (357, 23657), (385, 23807), (386, 23813), (387, 23831), (397, 23885), (408, 23969), (424, 24062), (458, 24308), (483, 24524), (492, 24608), (499, 24641),

Gene: Gaia_21 Start: 19931, Stop: 22501, Start Num: 52

Candidate Starts for Gaia_21:

(Start: 52 @19931 has 2 MA's), (80, 20021), (97, 20090), (101, 20099), (103, 20102), (116, 20156), (118, 20168), (128, 20216), (133, 20261), (150, 20333), (155, 20354), (161, 20375), (166, 20396), (167, 20399), (188, 20543), (196, 20576), (208, 20633), (219, 20684), (222, 20702), (242, 20798), (244, 20807), (245, 20813), (247, 20822), (248, 20825), (253, 20852), (256, 20873), (263, 20906), (264, 20915), (268, 20936), (270, 20948), (274, 20969), (285, 21023), (287, 21035), (292, 21068), (306, 21143), (309, 21170), (330, 21293), (337, 21320), (340, 21344), (346, 21374), (350, 21398), (356, 21440), (357, 21449), (376, 21578), (381, 21605), (391, 21656), (407, 21767), (408, 21782), (449, 22073), (470, 22241), (474, 22265), (489, 22409), (492, 22436), (494, 22442), (495, 22445),

Gene: Galactic_18 Start: 17394, Stop: 19931, Start Num: 56

Candidate Starts for Galactic_18:

(54, 17382), (Start: 56 @17394 has 208 MA's), (66, 17415), (Start: 75 @17436 has 1 MA's), (84, 17475), (104, 17544), (106, 17553), (107, 17556), (113, 17574), (119, 17607), (122, 17622), (132, 17670), (154, 17781), (155, 17784), (163, 17814), (167, 17829), (180, 17907), (184, 17931), (194, 17997), (202, 18042), (207, 18072), (208, 18078), (210, 18096), (217, 18120), (219, 18129), (225, 18162), (226, 18168), (232, 18198), (241, 18237), (242, 18249), (244, 18258), (247, 18273), (248, 18276), (268, 18387), (269, 18390), (270, 18399), (271, 18405), (274, 18420), (275, 18423), (277, 18444), (285, 18474), (287, 18486), (292, 18519), (310, 18630), (311, 18633), (317, 18660), (319, 18666), (328, 18720), (329, 18723), (346, 18825), (348, 18837), (349, 18840), (358, 18906), (364, 18930), (366, 18951), (368, 18960), (378, 19020), (379, 19023), (386, 19059), (387, 19077), (391, 19089), (392, 19098), (396, 19125), (406, 19194), (408, 19212), (411, 19221), (413, 19233), (417, 19269), (421, 19299), (425, 19320), (430, 19344), (433, 19380), (440, 19434), (446, 19494), (453, 19536), (462, 19614), (470, 19671), (474, 19695), (480, 19749), (483, 19797), (489, 19839), (491, 19863), (492, 19866),

Gene: Gandolph_18 Start: 17413, Stop: 19965, Start Num: 56

Candidate Starts for Gandolph_18:

(Start: 56 @17413 has 208 MA's), (84, 17494), (104, 17563), (106, 17572), (107, 17575), (113, 17593), (122, 17641), (131, 17686), (154, 17800), (155, 17803), (158, 17815), (164, 17836), (166, 17845), (167, 17848), (176, 17896), (180, 17926), (188, 17992), (196, 18025), (202, 18061), (206,

18085), (218, 18145), (219, 18148), (222, 18166), (235, 18229), (236, 18232), (241, 18250), (244, 18271), (248, 18289), (253, 18316), (256, 18337), (263, 18370), (270, 18412), (271, 18418), (272, 18421), (275, 18436), (279, 18463), (280, 18466), (285, 18487), (287, 18499), (292, 18532), (308, 18625), (328, 18733), (330, 18757), (331, 18763), (336, 18781), (337, 18784), (340, 18808), (346, 18838), (350, 18862), (355, 18898), (356, 18904), (357, 18913), (363, 18940), (373, 19003), (375, 19027), (376, 19042), (385, 19084), (393, 19135), (407, 19231), (408, 19246), (411, 19255), (415, 19279), (424, 19342), (430, 19378), (468, 19684), (474, 19729), (483, 19831),

Gene: Gator_24 Start: 21899, Stop: 24295, Start Num: 88

Candidate Starts for Gator_24:

(Start: 88 @21899 has 116 MA's), (129, 22076), (134, 22097), (173, 22244), (196, 22385), (201, 22418), (207, 22451), (213, 22487), (232, 22580), (244, 22640), (248, 22658), (263, 22739), (304, 22967), (310, 23012), (346, 23207), (347, 23213), (349, 23222), (355, 23267), (357, 23282), (386, 23438), (387, 23456), (390, 23465), (398, 23519), (408, 23594), (409, 23597), (439, 23807), (441, 23819), (458, 23933), (483, 24149), (492, 24233), (497, 24257), (499, 24266),

Gene: Gemini_29 Start: 22791, Stop: 25187, Start Num: 88

Candidate Starts for Gemini_29:

(Start: 88 @22791 has 116 MA's), (129, 22968), (134, 22989), (173, 23136), (196, 23277), (201, 23310), (207, 23343), (213, 23379), (232, 23472), (244, 23532), (248, 23550), (272, 23682), (280, 23727), (304, 23859), (310, 23904), (325, 23964), (342, 24078), (346, 24099), (352, 24138), (355, 24159), (357, 24174), (385, 24324), (386, 24330), (387, 24348), (397, 24402), (408, 24486), (424, 24579), (458, 24825), (483, 25041), (492, 25125), (499, 25158),

Gene: Geralt_18 Start: 17396, Stop: 19933, Start Num: 56

Candidate Starts for Geralt_18:

(Start: 56 @17396 has 208 MA's), (66, 17417), (Start: 75 @17438 has 1 MA's), (84, 17477), (104, 17546), (106, 17555), (107, 17558), (113, 17576), (122, 17624), (132, 17672), (154, 17783), (155, 17786), (167, 17831), (180, 17909), (184, 17933), (194, 17999), (207, 18074), (208, 18080), (210, 18098), (217, 18122), (219, 18131), (225, 18164), (226, 18170), (232, 18200), (237, 18221), (242, 18251), (244, 18260), (264, 18368), (267, 18380), (268, 18389), (269, 18392), (271, 18407), (274, 18422), (275, 18425), (277, 18446), (287, 18488), (292, 18521), (310, 18632), (311, 18635), (317, 18662), (319, 18668), (328, 18722), (329, 18725), (331, 18752), (346, 18827), (348, 18839), (349, 18842), (358, 18908), (363, 18929), (364, 18932), (366, 18953), (368, 18962), (375, 19004), (378, 19022), (379, 19025), (385, 19055), (387, 19079), (391, 19091), (392, 19100), (406, 19196), (408, 19214), (411, 19223), (413, 19235), (417, 19271), (421, 19301), (424, 19310), (425, 19322), (433, 19382), (440, 19436), (446, 19496), (453, 19538), (470, 19673), (474, 19697), (480, 19751), (483, 19799), (489, 19841), (491, 19865), (492, 19868),

Gene: GigiOuiOui_18 Start: 17527, Stop: 20064, Start Num: 56

Candidate Starts for GigiOuiOui_18:

(Start: 56 @17527 has 208 MA's), (66, 17548), (Start: 75 @17569 has 1 MA's), (84, 17608), (104, 17677), (106, 17686), (107, 17689), (113, 17707), (122, 17755), (152, 17908), (155, 17917), (167, 17962), (183, 18061), (184, 18064), (194, 18130), (207, 18205), (208, 18211), (210, 18229), (217, 18253), (218, 18259), (219, 18262), (225, 18295), (226, 18301), (232, 18331), (237, 18352), (242, 18382), (244, 18391), (247, 18406), (248, 18409), (268, 18520), (269, 18523), (270, 18532), (271, 18538), (274, 18553), (275, 18556), (277, 18577), (285, 18607), (287, 18619), (292, 18652), (310, 18763), (311, 18766), (317, 18793), (319, 18799), (328, 18853), (329, 18856), (346, 18958), (348, 18970), (349, 18973), (358, 19039), (364, 19063), (366, 19084), (368, 19093), (378, 19153), (379, 19156), (386, 19192), (387, 19210), (391, 19222), (392, 19231), (396, 19258), (404, 19315), (406, 19327), (408, 19345), (411, 19354), (413, 19366), (417, 19402), (421, 19432), (424, 19441), (425, 19453), (433, 19513), (440, 19567), (446, 19627), (453, 19669), (470, 19804), (474, 19828), (480, 19882), (483, 19930), (489, 19972), (491, 19996), (492, 19999),

Gene: Girafales_19 Start: 17227, Stop: 19764, Start Num: 56

Candidate Starts for Girafales_19:

(Start: 56 @17227 has 208 MA's), (66, 17248), (Start: 75 @17269 has 1 MA's), (84, 17308), (104, 17377), (106, 17386), (107, 17389), (113, 17407), (119, 17440), (122, 17455), (132, 17503), (154, 17614), (155, 17617), (163, 17647), (167, 17662), (180, 17740), (184, 17764), (194, 17830), (202, 17875), (207, 17905), (208, 17911), (210, 17929), (217, 17953), (219, 17962), (225, 17995), (226, 18001), (232, 18031), (241, 18070), (244, 18091), (247, 18106), (248, 18109), (269, 18223), (270, 18232), (271, 18238), (275, 18256), (277, 18277), (285, 18307), (287, 18319), (292, 18352), (310, 18463), (311, 18466), (317, 18493), (319, 18499), (328, 18553), (329, 18556), (343, 18643), (346, 18658), (349, 18673), (364, 18763), (366, 18784), (368, 18793), (378, 18853), (379, 18856), (385, 18886), (387, 18910), (392, 18931), (406, 19027), (408, 19045), (411, 19054), (413, 19066), (417, 19102), (421, 19132), (425, 19153), (430, 19177), (433, 19213), (440, 19267), (446, 19327), (453, 19369), (462, 19447), (470, 19504), (474, 19528), (480, 19582), (483, 19630), (489, 19672), (491, 19696), (492, 19699),

Gene: Girr_18 Start: 17371, Stop: 19908, Start Num: 56

Candidate Starts for Girr_18:

(Start: 56 @17371 has 208 MA's), (66, 17392), (Start: 75 @17413 has 1 MA's), (84, 17452), (104, 17521), (106, 17530), (107, 17533), (113, 17551), (119, 17584), (122, 17599), (152, 17752), (155, 17761), (167, 17806), (183, 17905), (184, 17908), (194, 17974), (207, 18049), (208, 18055), (217, 18097), (218, 18103), (219, 18106), (225, 18139), (226, 18145), (232, 18175), (237, 18196), (242, 18226), (244, 18235), (247, 18250), (248, 18253), (268, 18364), (269, 18367), (270, 18376), (271, 18382), (274, 18397), (275, 18400), (277, 18421), (285, 18451), (287, 18463), (292, 18496), (310, 18607), (311, 18610), (317, 18637), (319, 18643), (328, 18697), (329, 18700), (343, 18787), (346, 18802), (348, 18814), (349, 18817), (358, 18883), (364, 18907), (366, 18928), (368, 18937), (375, 18979), (378, 18997), (379, 19000), (385, 19030), (387, 19054), (391, 19066), (392, 19075), (406, 19171), (408, 19189), (411, 19198), (413, 19210), (417, 19246), (421, 19276), (424, 19285), (425, 19297), (433, 19357), (440, 19411), (446, 19471), (453, 19513), (470, 19648), (474, 19672), (480, 19726), (483, 19774), (489, 19816), (491, 19840), (492, 19843),

Gene: Giuseppe_30 Start: 24308, Stop: 26578, Start Num: 135

Candidate Starts for Giuseppe_30:

(Start: 135 @24308 has 20 MA's), (167, 24443), (169, 24452), (191, 24626), (192, 24632), (195, 24644), (224, 24797), (226, 24812), (230, 24827), (300, 25208), (301, 25214), (309, 25259), (327, 25346), (359, 25547), (360, 25553), (369, 25601), (374, 25631), (377, 25655), (405, 25844), (410, 25871), (417, 25919), (430, 25991), (434, 26030), (436, 26051), (438, 26066), (440, 26084), (442, 26114), (453, 26198), (478, 26399), (483, 26441), (502, 26567),

Gene: Glexan_24 Start: 21900, Stop: 24296, Start Num: 88

Candidate Starts for Glexan_24:

(Start: 88 @21900 has 116 MA's), (129, 22077), (134, 22098), (173, 22245), (196, 22386), (201, 22419), (207, 22452), (213, 22488), (232, 22581), (244, 22641), (248, 22659), (272, 22791), (304, 22968), (310, 23013), (342, 23187), (346, 23208), (352, 23247), (355, 23268), (357, 23283), (386, 23439), (387, 23457), (397, 23511), (408, 23595), (455, 23919), (483, 24150), (492, 24234), (499, 24267),

Gene: Goku_26 Start: 21998, Stop: 24394, Start Num: 88

Candidate Starts for Goku_26:

(Start: 88 @21998 has 116 MA's), (129, 22175), (134, 22196), (173, 22343), (196, 22484), (201, 22517), (207, 22550), (213, 22586), (232, 22679), (244, 22739), (248, 22757), (263, 22838), (304, 23066), (310, 23111), (346, 23306), (347, 23312), (349, 23321), (355, 23366), (357, 23381), (386, 23537), (387, 23555), (390, 23564), (398, 23618), (408, 23693), (409, 23696), (439, 23906), (441,

23918), (458, 24032), (483, 24248), (492, 24332), (497, 24356), (499, 24365),

Gene: GoldenSpark_28 Start: 22274, Stop: 24670, Start Num: 88

Candidate Starts for GoldenSpark_28:

(Start: 88 @22274 has 116 MA's), (129, 22451), (134, 22472), (173, 22619), (201, 22793), (207, 22826), (213, 22862), (232, 22955), (244, 23015), (248, 23033), (272, 23165), (280, 23210), (304, 23342), (310, 23387), (325, 23447), (342, 23561), (346, 23582), (352, 23621), (355, 23642), (357, 23657), (385, 23807), (386, 23813), (387, 23831), (397, 23885), (408, 23969), (458, 24308), (483, 24524), (492, 24608), (499, 24641),

Gene: Goldilocks_27 Start: 21694, Stop: 24090, Start Num: 88

Candidate Starts for Goldilocks_27:

(Start: 88 @21694 has 116 MA's), (129, 21871), (134, 21892), (173, 22039), (196, 22180), (201, 22213), (207, 22246), (213, 22282), (232, 22375), (244, 22435), (248, 22453), (272, 22585), (280, 22630), (304, 22762), (310, 22807), (325, 22867), (342, 22981), (346, 23002), (352, 23041), (355, 23062), (357, 23077), (385, 23227), (386, 23233), (387, 23251), (397, 23305), (408, 23389), (424, 23482), (458, 23728), (483, 23944), (492, 24028), (499, 24061),

Gene: GooberAzure_28 Start: 22274, Stop: 24670, Start Num: 88

Candidate Starts for GooberAzure_28:

(Start: 88 @22274 has 116 MA's), (129, 22451), (134, 22472), (173, 22619), (196, 22760), (201, 22793), (207, 22826), (213, 22862), (232, 22955), (244, 23015), (248, 23033), (272, 23165), (280, 23210), (304, 23342), (310, 23387), (325, 23447), (342, 23561), (346, 23582), (352, 23621), (355, 23642), (357, 23657), (385, 23807), (386, 23813), (387, 23831), (397, 23885), (408, 23969), (424, 24062), (458, 24308), (483, 24524), (492, 24608), (499, 24641),

Gene: Gorge_18 Start: 17383, Stop: 19926, Start Num: 56

Candidate Starts for Gorge_18:

(Start: 56 @17383 has 208 MA's), (66, 17404), (Start: 75 @17425 has 1 MA's), (84, 17464), (104, 17533), (106, 17542), (107, 17545), (113, 17563), (122, 17611), (132, 17659), (154, 17770), (155, 17773), (164, 17806), (167, 17818), (180, 17896), (188, 17962), (196, 17995), (204, 18049), (207, 18061), (218, 18115), (219, 18118), (221, 18127), (227, 18160), (235, 18199), (236, 18202), (240, 18217), (241, 18220), (245, 18247), (246, 18253), (247, 18256), (248, 18259), (253, 18286), (255, 18304), (256, 18307), (270, 18382), (274, 18403), (275, 18406), (279, 18433), (285, 18457), (292, 18502), (293, 18505), (300, 18556), (311, 18619), (313, 18628), (318, 18652), (337, 18757), (338, 18760), (346, 18811), (347, 18817), (348, 18823), (349, 18826), (355, 18871), (357, 18886), (363, 18913), (366, 18937), (375, 18988), (378, 19006), (379, 19009), (380, 19021), (391, 19075), (408, 19198), (418, 19261), (428, 19324), (437, 19399), (465, 19600), (488, 19828), (494, 19867), (495, 19870),

Gene: Gumball_29 Start: 24266, Stop: 26536, Start Num: 135

Candidate Starts for Gumball_29:

(Start: 135 @24266 has 20 MA's), (167, 24401), (169, 24410), (191, 24584), (192, 24590), (195, 24602), (224, 24755), (226, 24770), (230, 24785), (300, 25166), (301, 25172), (309, 25217), (327, 25304), (347, 25430), (359, 25505), (360, 25511), (369, 25559), (374, 25589), (377, 25613), (405, 25802), (410, 25829), (417, 25877), (430, 25949), (434, 25988), (436, 26009), (438, 26024), (440, 26042), (442, 26072), (453, 26156), (478, 26357), (483, 26399), (502, 26525),

Gene: Guppsters_19 Start: 17584, Stop: 20109, Start Num: 56

Candidate Starts for Guppsters_19:

(Start: 56 @17584 has 208 MA's), (90, 17674), (104, 17734), (106, 17743), (107, 17746), (113, 17764), (122, 17812), (131, 17857), (154, 17971), (155, 17974), (161, 17995), (164, 18007), (167, 18019), (180, 18097), (188, 18163), (196, 18196), (204, 18250), (207, 18262), (218, 18316), (219,

18319), (221, 18328), (227, 18361), (236, 18403), (240, 18418), (245, 18448), (246, 18454), (247, 18457), (248, 18460), (253, 18487), (255, 18505), (256, 18508), (270, 18583), (274, 18604), (275, 18607), (279, 18634), (285, 18658), (287, 18670), (300, 18757), (311, 18820), (313, 18829), (318, 18853), (337, 18958), (338, 18961), (346, 19012), (347, 19018), (348, 19024), (349, 19027), (355, 19072), (357, 19087), (363, 19114), (366, 19138), (368, 19147), (378, 19207), (379, 19210), (380, 19222), (387, 19264), (391, 19276), (408, 19399), (418, 19462), (428, 19525), (437, 19600), (465, 19801), (483, 19972), (488, 20011), (494, 20050), (495, 20053),

Gene: Hades_18 Start: 17406, Stop: 19958, Start Num: 56

Candidate Starts for Hades_18:

(Start: 56 @17406 has 208 MA's), (90, 17496), (104, 17556), (106, 17565), (107, 17568), (113, 17586), (122, 17634), (131, 17679), (154, 17793), (155, 17796), (158, 17808), (164, 17829), (166, 17838), (167, 17841), (180, 17919), (188, 17985), (196, 18018), (202, 18054), (206, 18078), (218, 18138), (219, 18141), (222, 18159), (235, 18222), (236, 18225), (241, 18243), (244, 18264), (248, 18282), (253, 18309), (256, 18330), (263, 18363), (270, 18405), (271, 18411), (272, 18414), (275, 18429), (279, 18456), (280, 18459), (285, 18480), (287, 18492), (292, 18525), (308, 18618), (328, 18726), (330, 18750), (331, 18756), (336, 18774), (337, 18777), (340, 18801), (346, 18831), (350, 18855), (355, 18891), (356, 18897), (357, 18906), (363, 18933), (373, 18996), (375, 19020), (376, 19035), (385, 19077), (393, 19128), (407, 19224), (408, 19239), (411, 19248), (415, 19272), (424, 19335), (430, 19371), (468, 19677), (474, 19722), (483, 19824),

Gene: Hamulus_18 Start: 17403, Stop: 19940, Start Num: 56

Candidate Starts for Hamulus_18:

(54, 17391), (Start: 56 @17403 has 208 MA's), (66, 17424), (Start: 75 @17445 has 1 MA's), (84, 17484), (104, 17553), (106, 17562), (107, 17565), (113, 17583), (119, 17616), (122, 17631), (132, 17679), (152, 17784), (154, 17790), (155, 17793), (163, 17823), (166, 17835), (167, 17838), (180, 17916), (184, 17940), (194, 18006), (207, 18081), (208, 18087), (210, 18105), (217, 18129), (219, 18138), (225, 18171), (226, 18177), (232, 18207), (241, 18246), (242, 18258), (244, 18267), (247, 18282), (248, 18285), (268, 18396), (269, 18399), (270, 18408), (271, 18414), (274, 18429), (275, 18432), (277, 18453), (285, 18483), (287, 18495), (292, 18528), (304, 18594), (310, 18639), (311, 18642), (317, 18669), (319, 18675), (328, 18729), (329, 18732), (343, 18819), (346, 18834), (348, 18846), (349, 18849), (358, 18915), (366, 18960), (368, 18969), (378, 19029), (379, 19032), (386, 19068), (387, 19086), (391, 19098), (392, 19107), (396, 19134), (406, 19203), (408, 19221), (411, 19230), (413, 19242), (417, 19278), (421, 19308), (425, 19329), (430, 19353), (433, 19389), (440, 19443), (446, 19503), (453, 19545), (470, 19680), (474, 19704), (480, 19758), (483, 19806), (489, 19848), (491, 19872), (492, 19875),

Gene: HanKaySha_27 Start: 22026, Stop: 24422, Start Num: 88

Candidate Starts for HanKaySha_27:

(Start: 88 @22026 has 116 MA's), (129, 22203), (134, 22224), (173, 22371), (201, 22545), (207, 22578), (213, 22614), (232, 22707), (244, 22767), (248, 22785), (272, 22917), (280, 22962), (304, 23094), (310, 23139), (325, 23199), (342, 23313), (346, 23334), (352, 23373), (355, 23394), (357, 23409), (385, 23559), (386, 23565), (387, 23583), (397, 23637), (408, 23721), (424, 23814), (458, 24060), (483, 24276), (492, 24360), (499, 24393),

Gene: Hannaconda_33 Start: 26378, Stop: 28873, Start Num: 56

Candidate Starts for Hannaconda_33:

(Start: 56 @26378 has 208 MA's), (113, 26573), (119, 26609), (122, 26624), (143, 26711), (147, 26726), (155, 26762), (156, 26768), (167, 26801), (171, 26813), (199, 26984), (202, 26993), (207, 27017), (218, 27071), (225, 27107), (226, 27113), (232, 27143), (239, 27173), (242, 27194), (244, 27203), (247, 27218), (260, 27287), (275, 27368), (276, 27377), (280, 27398), (281, 27401), (287, 27431), (293, 27467), (300, 27518), (302, 27527), (304, 27530), (308, 27557), (309, 27566), (313, 27587), (328, 27665), (329, 27668), (340, 27740), (347, 27776), (348, 27782), (354, 27824), (355,

27830), (363, 27872), (364, 27875), (366, 27896), (367, 27902), (368, 27905), (374, 27935), (395, 28076), (397, 28085), (398, 28094), (400, 28127), (406, 28151), (407, 28154), (408, 28169), (413, 28190), (417, 28226), (418, 28232), (419, 28238), (422, 28259), (426, 28286), (443, 28421), (452, 28493), (454, 28499), (458, 28517), (470, 28616), (483, 28733), (493, 28814), (495, 28817), (499, 28844),

Gene: Harella_25 Start: 22416, Stop: 24812, Start Num: 88

Candidate Starts for Harella_25:

(Start: 88 @22416 has 116 MA's), (129, 22593), (134, 22614), (173, 22761), (196, 22902), (201, 22935), (207, 22968), (213, 23004), (232, 23097), (244, 23157), (248, 23175), (272, 23307), (304, 23484), (310, 23529), (342, 23703), (346, 23724), (352, 23763), (355, 23784), (357, 23799), (386, 23955), (387, 23973), (397, 24027), (408, 24111), (455, 24435), (483, 24666), (492, 24750), (499, 24783),

Gene: Harley_18 Start: 17393, Stop: 19930, Start Num: 56

Candidate Starts for Harley_18:

(Start: 56 @17393 has 208 MA's), (66, 17414), (Start: 75 @17435 has 1 MA's), (84, 17474), (104, 17543), (106, 17552), (107, 17555), (113, 17573), (122, 17621), (154, 17780), (155, 17783), (167, 17828), (183, 17927), (184, 17930), (194, 17996), (207, 18071), (208, 18077), (210, 18095), (217, 18119), (218, 18125), (219, 18128), (225, 18161), (226, 18167), (232, 18197), (237, 18218), (241, 18236), (244, 18257), (264, 18365), (267, 18377), (268, 18386), (269, 18389), (270, 18398), (271, 18404), (274, 18419), (275, 18422), (277, 18443), (287, 18485), (292, 18518), (293, 18521), (304, 18584), (310, 18629), (311, 18632), (319, 18665), (328, 18719), (329, 18722), (331, 18749), (346, 18824), (348, 18836), (349, 18839), (358, 18905), (363, 18926), (364, 18929), (366, 18950), (375, 19001), (378, 19019), (379, 19022), (385, 19052), (387, 19076), (391, 19088), (392, 19097), (406, 19193), (408, 19211), (411, 19220), (413, 19232), (417, 19268), (421, 19298), (424, 19307), (425, 19319), (430, 19343), (433, 19379), (446, 19493), (453, 19535), (470, 19670), (474, 19694), (480, 19748), (483, 19796), (486, 19817), (491, 19862), (492, 19865),

Gene: Hawkeye_32 Start: 24298, Stop: 27204, Start Num: 19

Candidate Starts for Hawkeye_32:

(Start: 19 @24298 has 1 MA's), (24, 24391), (25, 24412), (31, 24433), (34, 24442), (69, 24658), (146, 25009), (169, 25105), (181, 25180), (225, 25429), (231, 25456), (260, 25609), (264, 25633), (271, 25672), (312, 25903), (314, 25906), (331, 26014), (346, 26089), (356, 26155), (387, 26347), (391, 26359), (398, 26410), (417, 26542), (445, 26761), (475, 26992), (484, 27076),

Gene: Hegedechwinu_19 Start: 17254, Stop: 19785, Start Num: 56

Candidate Starts for Hegedechwinu_19:

(54, 17242), (Start: 56 @17254 has 208 MA's), (66, 17275), (Start: 75 @17296 has 1 MA's), (84, 17335), (104, 17404), (106, 17413), (107, 17416), (113, 17434), (119, 17467), (122, 17482), (132, 17524), (154, 17635), (155, 17638), (163, 17668), (167, 17683), (180, 17761), (194, 17851), (202, 17896), (207, 17926), (208, 17932), (210, 17950), (217, 17974), (219, 17983), (225, 18016), (226, 18022), (232, 18052), (241, 18091), (242, 18103), (244, 18112), (247, 18127), (248, 18130), (268, 18241), (269, 18244), (270, 18253), (271, 18259), (274, 18274), (275, 18277), (277, 18298), (285, 18328), (287, 18340), (292, 18373), (310, 18484), (311, 18487), (317, 18514), (319, 18520), (328, 18574), (329, 18577), (346, 18679), (348, 18691), (349, 18694), (358, 18760), (364, 18784), (366, 18805), (368, 18814), (378, 18874), (379, 18877), (386, 18913), (387, 18931), (391, 18943), (392, 18952), (396, 18979), (406, 19048), (408, 19066), (411, 19075), (413, 19087), (417, 19123), (421, 19153), (425, 19174), (430, 19198), (433, 19234), (440, 19288), (446, 19348), (453, 19390), (462, 19468), (470, 19525), (474, 19549), (480, 19603), (483, 19651), (489, 19693), (491, 19717), (492, 19720),

Gene: Helpful_31 Start: 24316, Stop: 26586, Start Num: 135

Candidate Starts for Helpful_31:

(Start: 135 @24316 has 20 MA's), (167, 24451), (169, 24460), (191, 24634), (192, 24640), (195, 24652), (224, 24805), (226, 24820), (230, 24835), (300, 25216), (301, 25222), (309, 25267), (327, 25354), (360, 25561), (369, 25609), (374, 25639), (377, 25663), (405, 25852), (410, 25879), (417, 25927), (430, 25999), (434, 26038), (436, 26059), (438, 26074), (440, 26092), (442, 26122), (453, 26206), (478, 26407), (483, 26449), (502, 26575),

Gene: Henry_26 Start: 22283, Stop: 24679, Start Num: 88

Candidate Starts for Henry_26:

(Start: 88 @22283 has 116 MA's), (129, 22460), (134, 22481), (173, 22628), (196, 22769), (201, 22802), (207, 22835), (213, 22871), (232, 22964), (244, 23024), (248, 23042), (276, 23198), (280, 23219), (300, 23339), (304, 23351), (310, 23396), (346, 23591), (349, 23606), (355, 23651), (357, 23666), (386, 23822), (387, 23840), (390, 23849), (408, 23978), (409, 23981), (439, 24191), (441, 24203), (458, 24317), (483, 24533), (492, 24617), (497, 24641), (499, 24650),

Gene: Highbury_27 Start: 21945, Stop: 24341, Start Num: 88

Candidate Starts for Highbury_27:

(Start: 88 @21945 has 116 MA's), (129, 22122), (134, 22143), (173, 22290), (196, 22431), (201, 22464), (207, 22497), (213, 22533), (232, 22626), (244, 22686), (248, 22704), (272, 22836), (280, 22881), (304, 23013), (310, 23058), (325, 23118), (342, 23232), (346, 23253), (352, 23292), (355, 23313), (357, 23328), (385, 23478), (386, 23484), (387, 23502), (397, 23556), (408, 23640), (424, 23733), (458, 23979), (483, 24195), (492, 24279), (499, 24312),

Gene: Hlubikazi_18 Start: 17495, Stop: 20032, Start Num: 56

Candidate Starts for Hlubikazi_18:

(Start: 56 @17495 has 208 MA's), (66, 17516), (Start: 75 @17537 has 1 MA's), (84, 17576), (104, 17645), (106, 17654), (107, 17657), (113, 17675), (122, 17723), (154, 17882), (155, 17885), (166, 17927), (167, 17930), (180, 18008), (183, 18029), (184, 18032), (194, 18098), (207, 18173), (208, 18179), (217, 18221), (218, 18227), (219, 18230), (225, 18263), (226, 18269), (232, 18299), (237, 18320), (242, 18350), (244, 18359), (264, 18467), (267, 18479), (268, 18488), (269, 18491), (270, 18500), (271, 18506), (274, 18521), (275, 18524), (277, 18545), (287, 18587), (292, 18620), (317, 18761), (319, 18767), (328, 18821), (329, 18824), (331, 18851), (346, 18926), (348, 18938), (349, 18941), (358, 19007), (364, 19031), (366, 19052), (368, 19061), (378, 19121), (379, 19124), (386, 19160), (387, 19178), (392, 19199), (396, 19226), (406, 19295), (408, 19313), (411, 19322), (413, 19334), (417, 19370), (421, 19400), (433, 19481), (446, 19595), (453, 19637), (470, 19772), (474, 19796), (480, 19850), (491, 19964), (492, 19967),

Gene: Holt_27 Start: 21564, Stop: 23960, Start Num: 88

Candidate Starts for Holt_27:

(Start: 88 @21564 has 116 MA's), (129, 21741), (134, 21762), (173, 21909), (196, 22050), (201, 22083), (207, 22116), (213, 22152), (232, 22245), (244, 22305), (248, 22323), (272, 22455), (280, 22500), (304, 22632), (310, 22677), (325, 22737), (342, 22851), (346, 22872), (352, 22911), (355, 22932), (357, 22947), (385, 23097), (386, 23103), (387, 23121), (397, 23175), (408, 23259), (424, 23352), (458, 23598), (483, 23814), (492, 23898), (499, 23931),

Gene: Hoonter_28 Start: 22274, Stop: 24670, Start Num: 88

Candidate Starts for Hoonter_28:

(Start: 88 @22274 has 116 MA's), (129, 22451), (134, 22472), (173, 22619), (201, 22793), (207, 22826), (213, 22862), (232, 22955), (244, 23015), (248, 23033), (272, 23165), (280, 23210), (304, 23342), (310, 23387), (325, 23447), (342, 23561), (346, 23582), (352, 23621), (355, 23642), (357, 23657), (385, 23807), (386, 23813), (387, 23831), (397, 23885), (408, 23969), (424, 24062), (458, 24308), (483, 24524), (492, 24608), (499, 24641),

Gene: Hopey_28 Start: 22561, Stop: 24957, Start Num: 88

Candidate Starts for Hopey_28:

(Start: 88 @22561 has 116 MA's), (129, 22738), (134, 22759), (173, 22906), (201, 23080), (207, 23113), (213, 23149), (232, 23242), (244, 23302), (248, 23320), (272, 23452), (280, 23497), (304, 23629), (310, 23674), (325, 23734), (342, 23848), (346, 23869), (352, 23908), (355, 23929), (357, 23944), (385, 24094), (386, 24100), (387, 24118), (397, 24172), (408, 24256), (424, 24349), (458, 24595), (483, 24811), (492, 24895), (499, 24928),

Gene: HufflyPuff_25 Start: 22268, Stop: 24664, Start Num: 88

Candidate Starts for HufflyPuff_25:

(Start: 88 @22268 has 116 MA's), (129, 22445), (134, 22466), (173, 22613), (196, 22754), (201, 22787), (207, 22820), (213, 22856), (232, 22949), (244, 23009), (248, 23027), (272, 23159), (280, 23204), (304, 23336), (310, 23381), (325, 23441), (342, 23555), (346, 23576), (352, 23615), (355, 23636), (357, 23651), (385, 23801), (386, 23807), (387, 23825), (397, 23879), (408, 23963), (424, 24056), (458, 24302), (483, 24518), (492, 24602), (499, 24635),

Gene: IHOP_26 Start: 22460, Stop: 24856, Start Num: 88

Candidate Starts for IHOP_26:

(Start: 88 @22460 has 116 MA's), (129, 22637), (134, 22658), (173, 22805), (196, 22946), (201, 22979), (207, 23012), (213, 23048), (232, 23141), (244, 23201), (248, 23219), (276, 23375), (280, 23396), (300, 23516), (304, 23528), (310, 23573), (346, 23768), (347, 23774), (349, 23783), (355, 23828), (357, 23843), (386, 23999), (387, 24017), (390, 24026), (398, 24080), (408, 24155), (409, 24158), (439, 24368), (441, 24380), (458, 24494), (483, 24710), (492, 24794), (497, 24818), (499, 24827),

Gene: lbOuu_18 Start: 17397, Stop: 19934, Start Num: 56

Candidate Starts for lbOuu_18:

(54, 17385), (Start: 56 @17397 has 208 MA's), (66, 17418), (Start: 75 @17439 has 1 MA's), (84, 17478), (104, 17547), (106, 17556), (107, 17559), (113, 17577), (122, 17625), (132, 17673), (154, 17784), (155, 17787), (167, 17832), (180, 17910), (184, 17934), (194, 18000), (202, 18045), (207, 18075), (208, 18081), (210, 18099), (217, 18123), (219, 18132), (225, 18165), (226, 18171), (232, 18201), (241, 18240), (242, 18252), (244, 18261), (247, 18276), (248, 18279), (268, 18390), (269, 18393), (270, 18402), (271, 18408), (274, 18423), (275, 18426), (277, 18447), (285, 18477), (287, 18489), (292, 18522), (310, 18633), (311, 18636), (317, 18663), (319, 18669), (328, 18723), (329, 18726), (346, 18828), (348, 18840), (349, 18843), (358, 18909), (364, 18933), (366, 18954), (368, 18963), (378, 19023), (379, 19026), (386, 19062), (387, 19080), (392, 19101), (396, 19128), (406, 19197), (408, 19215), (411, 19224), (413, 19236), (417, 19272), (425, 19323), (428, 19341), (433, 19383), (440, 19437), (453, 19539), (470, 19674), (474, 19698), (480, 19752), (486, 19821), (491, 19866), (492, 19869),

Gene: lbhubesi_18 Start: 17393, Stop: 19930, Start Num: 56

Candidate Starts for lbhubesi_18:

(Start: 56 @17393 has 208 MA's), (66, 17414), (Start: 75 @17435 has 1 MA's), (84, 17474), (104, 17543), (106, 17552), (107, 17555), (113, 17573), (122, 17621), (154, 17780), (155, 17783), (167, 17828), (183, 17927), (184, 17930), (194, 17996), (207, 18071), (208, 18077), (210, 18095), (217, 18119), (218, 18125), (219, 18128), (225, 18161), (226, 18167), (232, 18197), (237, 18218), (241, 18236), (244, 18257), (264, 18365), (267, 18377), (268, 18386), (269, 18389), (270, 18398), (271, 18404), (274, 18419), (275, 18422), (277, 18443), (287, 18485), (292, 18518), (293, 18521), (304, 18584), (310, 18629), (311, 18632), (319, 18665), (328, 18719), (329, 18722), (331, 18749), (346, 18824), (348, 18836), (349, 18839), (358, 18905), (363, 18926), (364, 18929), (366, 18950), (375, 19001), (378, 19019), (379, 19022), (385, 19052), (387, 19076), (391, 19088), (392, 19097), (406, 19193), (408, 19211), (411, 19220), (413, 19232), (417, 19268), (421, 19298), (424, 19307), (425, 19319), (430, 19343), (433, 19379), (446, 19493), (453, 19535), (470, 19670), (474, 19694), (480,

19748), (483, 19796), (486, 19817), (491, 19862), (492, 19865),

Gene: Icee_25 Start: 21943, Stop: 24339, Start Num: 88

Candidate Starts for Icee_25:

(Start: 88 @21943 has 116 MA's), (129, 22120), (134, 22141), (173, 22288), (196, 22429), (201, 22462), (207, 22495), (213, 22531), (232, 22624), (244, 22684), (248, 22702), (263, 22783), (304, 23011), (310, 23056), (346, 23251), (347, 23257), (349, 23266), (355, 23311), (357, 23326), (386, 23482), (387, 23500), (390, 23509), (408, 23638), (409, 23641), (439, 23851), (441, 23863), (458, 23977), (483, 24193), (492, 24277), (497, 24301), (499, 24310),

Gene: Idergollasper_58 Start: 36096, Stop: 38606, Start Num: 73

Candidate Starts for Idergollasper_58:

(Start: 73 @36096 has 22 MA's), (79, 36129), (93, 36198), (94, 36201), (102, 36225), (107, 36249), (114, 36273), (119, 36306), (159, 36513), (162, 36525), (163, 36528), (187, 36675), (188, 36705), (194, 36729), (202, 36759), (203, 36762), (207, 36789), (210, 36813), (218, 36843), (229, 36900), (233, 36924), (241, 36960), (242, 36972), (247, 36996), (248, 36999), (254, 37041), (274, 37137), (275, 37140), (323, 37395), (346, 37539), (355, 37599), (365, 37671), (366, 37674), (383, 37770), (408, 37944), (413, 37965), (426, 38058), (429, 38070), (440, 38160), (451, 38235), (461, 38280), (485, 38481), (490, 38535), (495, 38550),

Gene: Inca_25 Start: 20963, Stop: 23359, Start Num: 88

Candidate Starts for Inca_25:

(Start: 88 @20963 has 116 MA's), (129, 21140), (134, 21161), (173, 21308), (196, 21449), (201, 21482), (207, 21515), (213, 21551), (232, 21644), (244, 21704), (248, 21722), (272, 21854), (280, 21899), (304, 22031), (310, 22076), (325, 22136), (342, 22250), (346, 22271), (352, 22310), (355, 22331), (357, 22346), (385, 22496), (386, 22502), (387, 22520), (397, 22574), (408, 22658), (424, 22751), (458, 22997), (483, 23213), (492, 23297), (499, 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), (20, 23434), (29, 23551), (30, 23554), (33, 23560), (35, 23572), (36, 23587), (38, 23596), (44, 23641), (118, 24019), (126, 24088), (Start: 135 @24154 has 20 MA's), (139, 24175), (141, 24181), (144, 24205), (182, 24430), (197, 24535), (211, 24619), (242, 24799), (244, 24808), (246, 24820), (253, 24853), (262, 24904), (269, 24940), (278, 25003), (287, 25045), (290, 25072), (298, 25126), (299, 25135), (307, 25180), (328, 25300), (331, 25330), (332, 25339), (333, 25342), (355, 25486), (361, 25522), (364, 25531), (367, 25558), (372, 25579), (381, 25639), (387, 25678), (392, 25702), (402, 25780), (460, 26194), (466, 26251), (470, 26293), (481, 26371),

Gene: Inventum_18 Start: 17532, Stop: 20069, Start Num: 56

Candidate Starts for Inventum_18:

(Start: 56 @17532 has 208 MA's), (66, 17553), (Start: 75 @17574 has 1 MA's), (84, 17613), (104, 17682), (106, 17691), (107, 17694), (113, 17712), (122, 17760), (132, 17808), (154, 17919), (155, 17922), (167, 17967), (180, 18045), (184, 18069), (194, 18135), (207, 18210), (208, 18216), (210, 18234), (217, 18258), (219, 18267), (225, 18300), (226, 18306), (232, 18336), (237, 18357), (242, 18387), (244, 18396), (264, 18504), (267, 18516), (268, 18525), (269, 18528), (271, 18543), (274, 18558), (275, 18561), (277, 18582), (287, 18624), (292, 18657), (310, 18768), (311, 18771), (317, 18798), (319, 18804), (328, 18858), (329, 18861), (331, 18888), (346, 18963), (348, 18975), (349, 18978), (358, 19044), (363, 19065), (364, 19068), (366, 19089), (368, 19098), (375, 19140), (378, 19158), (379, 19161), (385, 19191), (387, 19215), (391, 19227), (392, 19236), (406, 19332), (408, 19350), (411, 19359), (413, 19371), (417, 19407), (421, 19437), (424, 19446), (425, 19458), (433, 19518), (440, 19572), (446, 19632), (453, 19674), (470, 19809), (474, 19833), (480, 19887), (483, 19935), (489, 19977), (491, 20001), (492, 20004),

Gene: IrishSherpFalk_19 Start: 18757, Stop: 21294, Start Num: 56

Candidate Starts for IrishSherpFalk_19:

(Start: 56 @18757 has 208 MA's), (66, 18778), (Start: 75 @18799 has 1 MA's), (84, 18838), (104, 18907), (106, 18916), (107, 18919), (113, 18937), (122, 18985), (152, 19138), (155, 19147), (167, 19192), (183, 19291), (184, 19294), (194, 19360), (207, 19435), (208, 19441), (210, 19459), (217, 19483), (218, 19489), (219, 19492), (225, 19525), (226, 19531), (232, 19561), (237, 19582), (242, 19612), (244, 19621), (247, 19636), (248, 19639), (268, 19750), (269, 19753), (270, 19762), (271, 19768), (274, 19783), (275, 19786), (277, 19807), (285, 19837), (287, 19849), (292, 19882), (310, 19993), (311, 19996), (317, 20023), (319, 20029), (328, 20083), (329, 20086), (343, 20173), (346, 20188), (348, 20200), (349, 20203), (358, 20269), (364, 20293), (366, 20314), (368, 20323), (378, 20383), (379, 20386), (386, 20422), (387, 20440), (391, 20452), (392, 20461), (396, 20488), (404, 20545), (406, 20557), (408, 20575), (411, 20584), (413, 20596), (417, 20632), (421, 20662), (424, 20671), (425, 20683), (433, 20743), (440, 20797), (446, 20857), (453, 20899), (470, 21034), (474, 21058), (480, 21112), (483, 21160), (489, 21202), (491, 21226), (492, 21229),

Gene: Island3_21 Start: 19089, Stop: 21620, Start Num: 63

Candidate Starts for Island3_21:

(Start: 63 @19089 has 2 MA's), (71, 19113), (96, 19224), (100, 19233), (107, 19260), (133, 19407), (183, 19674), (187, 19689), (188, 19719), (189, 19725), (194, 19743), (217, 19851), (226, 19902), (248, 20013), (249, 20016), (254, 20055), (263, 20088), (275, 20154), (287, 20214), (290, 20241), (292, 20247), (346, 20553), (355, 20613), (362, 20661), (363, 20664), (365, 20685), (366, 20688), (408, 20949), (428, 21072), (429, 21075), (440, 21165), (448, 21222), (451, 21243), (465, 21303), (487, 21504), (490, 21546),

Gene: Jabbawokkie_26 Start: 17616, Stop: 20168, Start Num: 49

Candidate Starts for Jabbawokkie_26:

(47, 17607), (Start: 49 @17616 has 7 MA's), (Start: 56 @17676 has 208 MA's), (72, 17712), (100, 17811), (133, 17952), (143, 17991), (147, 18006), (155, 18042), (156, 18048), (157, 18051), (164, 18069), (171, 18093), (175, 18117), (176, 18120), (199, 18264), (202, 18273), (207, 18297), (210, 18321), (217, 18345), (218, 18351), (222, 18372), (223, 18375), (226, 18393), (232, 18426), (239, 18456), (242, 18477), (260, 18570), (263, 18585), (264, 18594), (268, 18615), (269, 18618), (276, 18660), (285, 18702), (286, 18705), (287, 18714), (290, 18741), (293, 18750), (298, 18789), (302, 18810), (304, 18813), (309, 18849), (313, 18870), (328, 18948), (329, 18951), (339, 19005), (348, 19065), (362, 19152), (364, 19158), (366, 19179), (374, 19215), (382, 19269), (385, 19278), (395, 19356), (398, 19374), (401, 19410), (402, 19413), (406, 19431), (408, 19449), (417, 19506), (419, 19518), (430, 19581), (433, 19614), (443, 19701), (450, 19749), (452, 19773), (458, 19809), (461, 19848), (467, 19887), (470, 19911), (473, 19932), (483, 20028), (486, 20049), (493, 20109), (495, 20112), (499, 20139),

Gene: JacoRen57_20 Start: 18844, Stop: 20730, Start Num: 193

Candidate Starts for JacoRen57_20:

(Start: 193 @18844 has 1 MA's), (209, 18928), (238, 19060), (255, 19135), (264, 19171), (265, 19174), (284, 19261), (288, 19279), (291, 19306), (301, 19363), (321, 19462), (334, 19543), (341, 19588), (349, 19633), (356, 19684), (357, 19693), (371, 19762), (379, 19816), (387, 19876), (399, 19960), (405, 19996), (408, 20017), (410, 20023), (412, 20032), (417, 20071), (434, 20182), (436, 20203), (442, 20266), (443, 20269), (447, 20311), (453, 20350), (491, 20665), (493, 20671), (496, 20680), (498, 20695), (500, 20704), (502, 20719),

Gene: JalFarm20_20 Start: 17767, Stop: 20304, Start Num: 56

Candidate Starts for JalFarm20_20:

(54, 17755), (Start: 56 @17767 has 208 MA's), (66, 17788), (Start: 75 @17809 has 1 MA's), (84, 17848), (104, 17917), (106, 17926), (107, 17929), (113, 17947), (119, 17980), (122, 17995), (132,

18043), (154, 18154), (155, 18157), (163, 18187), (166, 18199), (167, 18202), (180, 18280), (184, 18304), (194, 18370), (202, 18415), (207, 18445), (208, 18451), (210, 18469), (217, 18493), (219, 18502), (225, 18535), (226, 18541), (232, 18571), (241, 18610), (242, 18622), (244, 18631), (247, 18646), (248, 18649), (268, 18760), (269, 18763), (270, 18772), (271, 18778), (274, 18793), (275, 18796), (277, 18817), (285, 18847), (287, 18859), (292, 18892), (310, 19003), (311, 19006), (317, 19033), (319, 19039), (328, 19093), (329, 19096), (343, 19183), (346, 19198), (348, 19210), (349, 19213), (358, 19279), (364, 19303), (366, 19324), (368, 19333), (378, 19393), (379, 19396), (386, 19432), (387, 19450), (391, 19462), (392, 19471), (396, 19498), (406, 19567), (408, 19585), (411, 19594), (413, 19606), (417, 19642), (421, 19672), (425, 19693), (430, 19717), (433, 19753), (440, 19807), (446, 19867), (453, 19909), (462, 19987), (470, 20044), (474, 20068), (480, 20122), (483, 20170), (489, 20212), (491, 20236), (492, 20239),

Gene: James_18 Start: 17397, Stop: 19922, Start Num: 56

Candidate Starts for James_18:

(Start: 56 @17397 has 208 MA's), (66, 17418), (Start: 75 @17439 has 1 MA's), (84, 17478), (104, 17547), (106, 17556), (107, 17559), (113, 17577), (122, 17625), (132, 17673), (154, 17784), (155, 17787), (164, 17820), (167, 17832), (180, 17910), (188, 17976), (196, 18009), (204, 18063), (207, 18075), (218, 18129), (219, 18132), (221, 18141), (227, 18174), (235, 18213), (236, 18216), (240, 18231), (241, 18234), (245, 18261), (246, 18267), (247, 18270), (248, 18273), (253, 18300), (255, 18318), (256, 18321), (270, 18396), (274, 18417), (275, 18420), (279, 18447), (285, 18471), (292, 18516), (293, 18519), (300, 18570), (311, 18633), (313, 18642), (318, 18666), (337, 18771), (338, 18774), (346, 18825), (347, 18831), (348, 18837), (349, 18840), (355, 18885), (357, 18900), (363, 18927), (366, 18951), (375, 19002), (378, 19020), (379, 19023), (380, 19035), (391, 19089), (408, 19212), (418, 19275), (428, 19338), (437, 19413), (465, 19614), (488, 19824), (494, 19863), (495, 19866),

Gene: JangDynasty_58 Start: 36182, Stop: 38692, Start Num: 73

Candidate Starts for JangDynasty_58:

(Start: 73 @36182 has 22 MA's), (79, 36215), (93, 36284), (94, 36287), (102, 36311), (107, 36335), (114, 36359), (119, 36392), (159, 36599), (162, 36611), (163, 36614), (187, 36761), (188, 36791), (194, 36815), (202, 36845), (203, 36848), (207, 36875), (210, 36899), (218, 36929), (229, 36986), (233, 37010), (241, 37046), (242, 37058), (247, 37082), (248, 37085), (254, 37127), (274, 37223), (275, 37226), (323, 37481), (346, 37625), (355, 37685), (365, 37757), (366, 37760), (383, 37856), (408, 38030), (413, 38051), (426, 38144), (429, 38156), (440, 38246), (451, 38321), (461, 38366), (485, 38567), (490, 38621), (495, 38636),

Gene: Jacob_18 Start: 17405, Stop: 19957, Start Num: 56

Candidate Starts for Jacob_18:

(Start: 56 @17405 has 208 MA's), (84, 17486), (104, 17555), (106, 17564), (107, 17567), (113, 17585), (122, 17633), (131, 17678), (154, 17792), (155, 17795), (158, 17807), (164, 17828), (166, 17837), (167, 17840), (176, 17888), (180, 17918), (188, 17984), (196, 18017), (202, 18053), (206, 18077), (218, 18137), (219, 18140), (222, 18158), (235, 18221), (236, 18224), (241, 18242), (244, 18263), (248, 18281), (253, 18308), (256, 18329), (263, 18362), (270, 18404), (271, 18410), (272, 18413), (275, 18428), (279, 18455), (280, 18458), (285, 18479), (287, 18491), (292, 18524), (308, 18617), (328, 18725), (330, 18749), (331, 18755), (336, 18773), (337, 18776), (340, 18800), (346, 18830), (350, 18854), (355, 18890), (356, 18896), (357, 18905), (363, 18932), (373, 18995), (375, 19019), (376, 19034), (385, 19076), (393, 19127), (407, 19223), (408, 19238), (411, 19247), (415, 19271), (424, 19334), (430, 19370), (468, 19676), (474, 19721), (483, 19823),

Gene: JeTaime_28 Start: 23085, Stop: 25481, Start Num: 88

Candidate Starts for JeTaime_28:

(Start: 88 @23085 has 116 MA's), (129, 23262), (134, 23283), (173, 23430), (201, 23604), (207, 23637), (213, 23673), (232, 23766), (244, 23826), (248, 23844), (272, 23976), (280, 24021), (304,

24153), (310, 24198), (325, 24258), (342, 24372), (346, 24393), (352, 24432), (355, 24453), (357, 24468), (385, 24618), (386, 24624), (387, 24642), (397, 24696), (408, 24780), (424, 24873), (458, 25119), (483, 25335), (492, 25419), (499, 25452),

Gene: Jinglebell_18 Start: 17634, Stop: 20171, Start Num: 56

Candidate Starts for Jinglebell_18:

(Start: 56 @17634 has 208 MA's), (66, 17655), (Start: 75 @17676 has 1 MA's), (84, 17715), (104, 17784), (106, 17793), (107, 17796), (113, 17814), (122, 17862), (154, 18021), (155, 18024), (166, 18066), (167, 18069), (180, 18147), (183, 18168), (184, 18171), (194, 18237), (196, 18246), (202, 18282), (207, 18312), (208, 18318), (217, 18360), (218, 18366), (219, 18369), (225, 18402), (226, 18408), (232, 18438), (237, 18459), (242, 18489), (244, 18498), (264, 18606), (267, 18618), (268, 18627), (269, 18630), (270, 18639), (271, 18645), (274, 18660), (275, 18663), (277, 18684), (287, 18726), (292, 18759), (317, 18900), (319, 18906), (328, 18960), (329, 18963), (331, 18990), (346, 19065), (348, 19077), (349, 19080), (358, 19146), (363, 19167), (364, 19170), (366, 19191), (375, 19242), (378, 19260), (379, 19263), (385, 19293), (387, 19317), (391, 19329), (406, 19434), (408, 19452), (411, 19461), (413, 19473), (417, 19509), (421, 19539), (425, 19560), (430, 19584), (433, 19620), (446, 19734), (453, 19776), (462, 19854), (470, 19911), (474, 19935), (480, 19989), (483, 20037), (489, 20079), (491, 20103), (492, 20106),

Gene: Job42_21 Start: 19082, Stop: 21619, Start Num: 56

Candidate Starts for Job42_21:

(Start: 56 @19082 has 208 MA's), (Start: 75 @19124 has 1 MA's), (90, 19172), (104, 19232), (106, 19241), (107, 19244), (113, 19262), (119, 19295), (122, 19310), (132, 19358), (154, 19469), (155, 19472), (163, 19502), (166, 19514), (167, 19517), (180, 19595), (184, 19619), (194, 19685), (202, 19730), (207, 19760), (208, 19766), (210, 19784), (217, 19808), (219, 19817), (225, 19850), (226, 19856), (232, 19886), (241, 19925), (242, 19937), (244, 19946), (247, 19961), (248, 19964), (268, 20075), (269, 20078), (270, 20087), (271, 20093), (274, 20108), (275, 20111), (277, 20132), (285, 20162), (287, 20174), (292, 20207), (310, 20318), (311, 20321), (317, 20348), (319, 20354), (328, 20408), (329, 20411), (346, 20513), (348, 20525), (349, 20528), (358, 20594), (364, 20618), (366, 20639), (368, 20648), (378, 20708), (379, 20711), (386, 20747), (387, 20765), (391, 20777), (392, 20786), (396, 20813), (406, 20882), (408, 20900), (411, 20909), (413, 20921), (417, 20957), (421, 20987), (425, 21008), (430, 21032), (433, 21068), (440, 21122), (446, 21182), (453, 21224), (462, 21302), (470, 21359), (474, 21383), (480, 21437), (483, 21485), (489, 21527), (491, 21551), (492, 21554),

Gene: JoeyJr_18 Start: 17568, Stop: 20105, Start Num: 56

Candidate Starts for JoeyJr_18:

(54, 17556), (Start: 56 @17568 has 208 MA's), (66, 17589), (Start: 75 @17610 has 1 MA's), (84, 17649), (104, 17718), (106, 17727), (107, 17730), (113, 17748), (122, 17796), (132, 17844), (154, 17955), (155, 17958), (167, 18003), (180, 18081), (184, 18105), (194, 18171), (202, 18216), (207, 18246), (208, 18252), (210, 18270), (217, 18294), (219, 18303), (225, 18336), (226, 18342), (232, 18372), (241, 18411), (242, 18423), (244, 18432), (247, 18447), (248, 18450), (268, 18561), (269, 18564), (270, 18573), (271, 18579), (274, 18594), (275, 18597), (277, 18618), (285, 18648), (287, 18660), (292, 18693), (310, 18804), (311, 18807), (317, 18834), (319, 18840), (328, 18894), (329, 18897), (346, 18999), (348, 19011), (349, 19014), (358, 19080), (364, 19104), (366, 19125), (368, 19134), (378, 19194), (379, 19197), (386, 19233), (387, 19251), (392, 19272), (396, 19299), (406, 19368), (408, 19386), (411, 19395), (413, 19407), (417, 19443), (425, 19494), (428, 19512), (433, 19554), (440, 19608), (453, 19710), (470, 19845), (474, 19869), (480, 19923), (486, 19992), (491, 20037), (492, 20040),

Gene: Juice456_20 Start: 18519, Stop: 21056, Start Num: 56

Candidate Starts for Juice456_20:

(54, 18507), (Start: 56 @18519 has 208 MA's), (66, 18540), (Start: 75 @18561 has 1 MA's), (84, 18600), (104, 18669), (106, 18678), (107, 18681), (113, 18699), (119, 18732), (122, 18747), (132, 18795), (154, 18906), (155, 18909), (163, 18939), (166, 18951), (167, 18954), (180, 19032), (184, 19056), (194, 19122), (202, 19167), (207, 19197), (208, 19203), (210, 19221), (217, 19245), (219, 19254), (225, 19287), (226, 19293), (232, 19323), (241, 19362), (242, 19374), (244, 19383), (247, 19398), (248, 19401), (268, 19512), (269, 19515), (270, 19524), (271, 19530), (274, 19545), (275, 19548), (277, 19569), (285, 19599), (287, 19611), (292, 19644), (310, 19755), (311, 19758), (317, 19785), (319, 19791), (328, 19845), (329, 19848), (343, 19935), (346, 19950), (348, 19962), (349, 19965), (358, 20031), (364, 20055), (366, 20076), (368, 20085), (375, 20127), (378, 20145), (379, 20148), (386, 20184), (387, 20202), (391, 20214), (392, 20223), (396, 20250), (406, 20319), (408, 20337), (411, 20346), (413, 20358), (417, 20394), (421, 20424), (425, 20445), (430, 20469), (433, 20505), (440, 20559), (446, 20619), (453, 20661), (462, 20739), (470, 20796), (474, 20820), (480, 20874), (483, 20922), (489, 20964), (491, 20988), (492, 20991),

Gene: Juniper1_18 Start: 17394, Stop: 19931, Start Num: 56

Candidate Starts for Juniper1_18:

(Start: 56 @17394 has 208 MA's), (66, 17415), (Start: 75 @17436 has 1 MA's), (84, 17475), (104, 17544), (106, 17553), (107, 17556), (113, 17574), (119, 17607), (122, 17622), (154, 17781), (155, 17784), (167, 17829), (180, 17907), (184, 17931), (194, 17997), (207, 18072), (208, 18078), (217, 18120), (218, 18126), (219, 18129), (225, 18162), (226, 18168), (232, 18198), (237, 18219), (242, 18249), (244, 18258), (264, 18366), (267, 18378), (268, 18387), (269, 18390), (270, 18399), (271, 18405), (274, 18420), (275, 18423), (277, 18444), (287, 18486), (292, 18519), (310, 18630), (311, 18633), (317, 18660), (319, 18666), (328, 18720), (329, 18723), (331, 18750), (333, 18759), (346, 18825), (348, 18837), (349, 18840), (358, 18906), (363, 18927), (364, 18930), (366, 18951), (375, 19002), (378, 19020), (379, 19023), (385, 19053), (387, 19077), (391, 19089), (392, 19098), (406, 19194), (408, 19212), (411, 19221), (413, 19233), (417, 19269), (421, 19299), (425, 19320), (430, 19344), (433, 19380), (446, 19494), (453, 19536), (470, 19671), (474, 19695), (480, 19749), (486, 19818), (491, 19863), (492, 19866), (494, 19872),

Gene: KandZ_30 Start: 24416, Stop: 26686, Start Num: 135

Candidate Starts for KandZ_30:

(Start: 135 @24416 has 20 MA's), (167, 24551), (169, 24560), (191, 24734), (192, 24740), (195, 24752), (224, 24905), (226, 24920), (230, 24935), (300, 25316), (301, 25322), (309, 25367), (327, 25454), (359, 25655), (360, 25661), (369, 25709), (374, 25739), (377, 25763), (405, 25952), (410, 25979), (417, 26027), (430, 26099), (434, 26138), (436, 26159), (438, 26174), (440, 26192), (442, 26222), (453, 26306), (478, 26507), (483, 26549), (502, 26675),

Gene: Kanye_28 Start: 23270, Stop: 25666, Start Num: 88

Candidate Starts for Kanye_28:

(Start: 88 @23270 has 116 MA's), (129, 23447), (134, 23468), (173, 23615), (196, 23756), (201, 23789), (207, 23822), (213, 23858), (232, 23951), (244, 24011), (248, 24029), (272, 24161), (280, 24206), (304, 24338), (310, 24383), (325, 24443), (342, 24557), (346, 24578), (352, 24617), (355, 24638), (357, 24653), (385, 24803), (386, 24809), (387, 24827), (397, 24881), (408, 24965), (424, 25058), (458, 25304), (483, 25520), (492, 25604), (499, 25637),

Gene: Karhdo_18 Start: 17528, Stop: 20065, Start Num: 56

Candidate Starts for Karhdo_18:

(54, 17516), (Start: 56 @17528 has 208 MA's), (66, 17549), (Start: 75 @17570 has 1 MA's), (84, 17609), (104, 17678), (106, 17687), (107, 17690), (113, 17708), (119, 17741), (122, 17756), (132, 17804), (154, 17915), (155, 17918), (163, 17948), (166, 17960), (167, 17963), (180, 18041), (184, 18065), (194, 18131), (202, 18176), (207, 18206), (208, 18212), (210, 18230), (217, 18254), (219, 18263), (225, 18296), (226, 18302), (232, 18332), (241, 18371), (242, 18383), (244, 18392), (247, 18407), (248, 18410), (268, 18521), (269, 18524), (270, 18533), (271, 18539), (274, 18554), (275,

18557), (277, 18578), (285, 18608), (287, 18620), (292, 18653), (310, 18764), (311, 18767), (317, 18794), (319, 18800), (328, 18854), (329, 18857), (343, 18944), (346, 18959), (348, 18971), (349, 18974), (358, 19040), (364, 19064), (366, 19085), (368, 19094), (375, 19136), (378, 19154), (379, 19157), (385, 19187), (387, 19211), (391, 19223), (392, 19232), (406, 19328), (408, 19346), (411, 19355), (413, 19367), (417, 19403), (421, 19433), (424, 19442), (425, 19454), (433, 19514), (440, 19568), (446, 19628), (453, 19670), (470, 19805), (474, 19829), (480, 19883), (483, 19931), (489, 19973), (491, 19997), (492, 20000),

Gene: KashFlow_30 Start: 26008, Stop: 28503, Start Num: 56

Candidate Starts for KashFlow_30:

(Start: 56 @26008 has 208 MA's), (113, 26203), (119, 26239), (122, 26254), (143, 26341), (147, 26356), (155, 26392), (156, 26398), (167, 26431), (171, 26443), (199, 26614), (202, 26623), (207, 26647), (218, 26701), (225, 26737), (226, 26743), (232, 26773), (239, 26803), (242, 26824), (244, 26833), (247, 26848), (260, 26917), (275, 26998), (276, 27007), (280, 27028), (281, 27031), (287, 27061), (293, 27097), (300, 27148), (302, 27157), (304, 27160), (308, 27187), (309, 27196), (313, 27217), (328, 27295), (329, 27298), (340, 27370), (347, 27406), (348, 27412), (354, 27454), (355, 27460), (363, 27502), (364, 27505), (366, 27526), (367, 27532), (368, 27535), (374, 27565), (395, 27706), (397, 27715), (398, 27724), (400, 27757), (406, 27781), (407, 27784), (408, 27799), (413, 27820), (417, 27856), (418, 27862), (419, 27868), (422, 27889), (426, 27916), (443, 28051), (452, 28123), (454, 28129), (458, 28147), (470, 28246), (483, 28363), (493, 28444), (495, 28447), (499, 28474),

Gene: Kenuha5_18 Start: 17523, Stop: 20015, Start Num: 56

Candidate Starts for Kenuha5_18:

(54, 17511), (Start: 56 @17523 has 208 MA's), (66, 17544), (Start: 75 @17565 has 1 MA's), (85, 17604), (104, 17673), (106, 17682), (107, 17685), (113, 17703), (119, 17736), (125, 17769), (133, 17802), (147, 17856), (155, 17892), (156, 17898), (157, 17901), (164, 17919), (167, 17931), (171, 17943), (175, 17967), (186, 18030), (199, 18114), (202, 18123), (207, 18147), (210, 18171), (217, 18195), (218, 18201), (222, 18222), (226, 18243), (232, 18273), (239, 18303), (242, 18324), (260, 18417), (263, 18432), (264, 18441), (268, 18462), (269, 18465), (285, 18549), (286, 18552), (287, 18561), (290, 18588), (293, 18597), (298, 18636), (302, 18657), (304, 18660), (309, 18696), (313, 18717), (328, 18795), (329, 18798), (339, 18852), (348, 18912), (364, 19005), (365, 19023), (366, 19026), (374, 19062), (382, 19116), (385, 19125), (395, 19203), (398, 19221), (401, 19257), (402, 19260), (406, 19278), (407, 19281), (408, 19296), (413, 19317), (417, 19353), (419, 19365), (430, 19428), (433, 19461), (443, 19548), (450, 19596), (452, 19620), (456, 19647), (458, 19656), (461, 19695), (467, 19734), (470, 19758), (473, 19779), (483, 19875), (486, 19896), (495, 19959), (499, 19986), (501, 19995),

Gene: Kersh_19 Start: 17568, Stop: 20060, Start Num: 56

Candidate Starts for Kersh_19:

(Start: 56 @17568 has 208 MA's), (66, 17589), (Start: 75 @17610 has 1 MA's), (85, 17649), (104, 17718), (106, 17727), (107, 17730), (113, 17748), (119, 17781), (125, 17814), (133, 17847), (147, 17901), (155, 17937), (157, 17946), (164, 17964), (171, 17988), (175, 18012), (190, 18120), (196, 18144), (199, 18159), (202, 18168), (207, 18192), (208, 18198), (210, 18216), (213, 18228), (215, 18234), (217, 18240), (218, 18246), (219, 18249), (221, 18258), (222, 18267), (225, 18282), (232, 18318), (241, 18357), (242, 18369), (244, 18378), (260, 18462), (275, 18543), (276, 18552), (281, 18576), (287, 18606), (293, 18642), (300, 18693), (302, 18702), (304, 18705), (309, 18741), (313, 18762), (328, 18840), (329, 18843), (339, 18897), (348, 18957), (362, 19044), (364, 19050), (366, 19071), (374, 19107), (382, 19161), (385, 19170), (395, 19248), (398, 19266), (401, 19302), (402, 19305), (406, 19323), (408, 19341), (417, 19398), (419, 19410), (430, 19473), (433, 19506), (443, 19593), (450, 19641), (452, 19665), (456, 19692), (458, 19701), (461, 19740), (467, 19779), (470, 19803), (473, 19824), (483, 19920), (486, 19941), (493, 20001), (495, 20004), (499, 20031),

Gene: Kimberlium_20 Start: 18519, Stop: 21056, Start Num: 56

Candidate Starts for Kimberlium_20:

(54, 18507), (Start: 56 @18519 has 208 MA's), (66, 18540), (Start: 75 @18561 has 1 MA's), (84, 18600), (104, 18669), (106, 18678), (107, 18681), (113, 18699), (119, 18732), (122, 18747), (132, 18795), (154, 18906), (155, 18909), (163, 18939), (166, 18951), (167, 18954), (180, 19032), (184, 19056), (194, 19122), (202, 19167), (207, 19197), (208, 19203), (210, 19221), (217, 19245), (219, 19254), (225, 19287), (226, 19293), (232, 19323), (241, 19362), (242, 19374), (244, 19383), (247, 19398), (248, 19401), (268, 19512), (269, 19515), (270, 19524), (271, 19530), (274, 19545), (275, 19548), (277, 19569), (285, 19599), (287, 19611), (292, 19644), (310, 19755), (311, 19758), (317, 19785), (319, 19791), (328, 19845), (329, 19848), (343, 19935), (346, 19950), (348, 19962), (349, 19965), (358, 20031), (364, 20055), (366, 20076), (368, 20085), (375, 20127), (378, 20145), (379, 20148), (386, 20184), (387, 20202), (391, 20214), (392, 20223), (396, 20250), (406, 20319), (408, 20337), (411, 20346), (413, 20358), (417, 20394), (421, 20424), (425, 20445), (430, 20469), (433, 20505), (440, 20559), (446, 20619), (453, 20661), (462, 20739), (470, 20796), (474, 20820), (480, 20874), (483, 20922), (489, 20964), (491, 20988), (492, 20991),

Gene: Kimchi_28 Start: 22277, Stop: 24673, Start Num: 88

Candidate Starts for Kimchi_28:

(Start: 88 @22277 has 116 MA's), (129, 22454), (134, 22475), (173, 22622), (196, 22763), (201, 22796), (207, 22829), (213, 22865), (232, 22958), (244, 23018), (248, 23036), (272, 23168), (280, 23213), (304, 23345), (310, 23390), (325, 23450), (342, 23564), (346, 23585), (352, 23624), (355, 23645), (357, 23660), (385, 23810), (386, 23816), (387, 23834), (397, 23888), (408, 23972), (424, 24065), (458, 24311), (483, 24527), (492, 24611), (499, 24644),

Gene: KingMidas_19 Start: 18701, Stop: 21238, Start Num: 56

Candidate Starts for KingMidas_19:

(54, 18689), (Start: 56 @18701 has 208 MA's), (66, 18722), (Start: 75 @18743 has 1 MA's), (84, 18782), (104, 18851), (106, 18860), (107, 18863), (113, 18881), (122, 18929), (132, 18977), (154, 19088), (155, 19091), (167, 19136), (180, 19214), (184, 19238), (194, 19304), (202, 19349), (207, 19379), (208, 19385), (210, 19403), (217, 19427), (219, 19436), (225, 19469), (226, 19475), (232, 19505), (241, 19544), (242, 19556), (244, 19565), (247, 19580), (248, 19583), (268, 19694), (269, 19697), (270, 19706), (271, 19712), (274, 19727), (275, 19730), (277, 19751), (285, 19781), (287, 19793), (292, 19826), (310, 19937), (311, 19940), (317, 19967), (319, 19973), (328, 20027), (329, 20030), (346, 20132), (348, 20144), (349, 20147), (358, 20213), (364, 20237), (366, 20258), (368, 20267), (378, 20327), (379, 20330), (386, 20366), (387, 20384), (392, 20405), (396, 20432), (406, 20501), (408, 20519), (411, 20528), (413, 20540), (417, 20576), (425, 20627), (428, 20645), (433, 20687), (440, 20741), (453, 20843), (470, 20978), (474, 21002), (480, 21056), (486, 21125), (491, 21170), (492, 21173),

Gene: Kingsley_19 Start: 17253, Stop: 19730, Start Num: 56

Candidate Starts for Kingsley_19:

(54, 17241), (Start: 56 @17253 has 208 MA's), (66, 17274), (Start: 75 @17295 has 1 MA's), (85, 17334), (104, 17403), (106, 17412), (107, 17415), (113, 17433), (119, 17466), (122, 17481), (143, 17568), (147, 17583), (155, 17619), (156, 17625), (167, 17658), (171, 17670), (199, 17841), (202, 17850), (207, 17874), (218, 17928), (225, 17964), (226, 17970), (232, 18000), (239, 18030), (242, 18051), (244, 18060), (260, 18144), (271, 18207), (275, 18225), (276, 18234), (280, 18255), (281, 18258), (285, 18276), (287, 18288), (290, 18315), (293, 18324), (300, 18375), (302, 18384), (304, 18387), (308, 18414), (309, 18423), (313, 18444), (328, 18522), (329, 18525), (347, 18633), (348, 18639), (355, 18687), (363, 18729), (364, 18732), (366, 18753), (367, 18759), (368, 18762), (374, 18792), (395, 18933), (398, 18951), (400, 18984), (406, 19008), (407, 19011), (408, 19026), (413, 19047), (417, 19083), (418, 19089), (422, 19116), (426, 19143), (443, 19278), (450, 19326), (452, 19350), (454, 19356), (458, 19374), (470, 19473), (473, 19494), (475, 19512), (483, 19590), (486, 19611), (495, 19674), (497, 19692), (501, 19710),

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

Candidate Starts for Konstantine_34:

(Start: 22 @26883 has 7 MA's), (43, 27015), (45, 27027), (46, 27036), (53, 27105), (77, 27171), (81, 27192), (91, 27240), (98, 27282), (105, 27306), (115, 27339), (120, 27375), (123, 27387), (142, 27480), (155, 27537), (165, 27576), (196, 27771), (200, 27801), (208, 27843), (237, 27984), (241, 28002), (254, 28083), (263, 28122), (267, 28143), (292, 28281), (297, 28320), (309, 28383), (329, 28485), (365, 28710), (422, 29073), (426, 29100), (464, 29343), (468, 29376), (471, 29400), (483, 29520), (493, 29598), (504, 29685), (505, 29700), (506, 29706),

Gene: Kostya_26 Start: 22283, Stop: 24679, Start Num: 88

Candidate Starts for Kostya_26:

(Start: 88 @22283 has 116 MA's), (129, 22460), (134, 22481), (173, 22628), (196, 22769), (201, 22802), (207, 22835), (213, 22871), (232, 22964), (244, 23024), (248, 23042), (263, 23123), (304, 23351), (310, 23396), (346, 23591), (347, 23597), (349, 23606), (355, 23651), (357, 23666), (386, 23822), (387, 23840), (390, 23849), (408, 23978), (409, 23981), (439, 24191), (441, 24203), (458, 24317), (483, 24533), (492, 24617), (497, 24641), (499, 24650),

Gene: Krakatau_19 Start: 18095, Stop: 20632, Start Num: 56

Candidate Starts for Krakatau_19:

(Start: 56 @18095 has 208 MA's), (66, 18116), (Start: 75 @18137 has 1 MA's), (84, 18176), (104, 18245), (106, 18254), (107, 18257), (113, 18275), (119, 18308), (122, 18323), (132, 18371), (154, 18482), (155, 18485), (163, 18515), (166, 18527), (167, 18530), (184, 18632), (194, 18698), (202, 18743), (207, 18773), (208, 18779), (210, 18797), (217, 18821), (219, 18830), (225, 18863), (226, 18869), (232, 18899), (241, 18938), (242, 18950), (244, 18959), (247, 18974), (249, 18980), (268, 19088), (269, 19091), (270, 19100), (271, 19106), (274, 19121), (275, 19124), (277, 19145), (285, 19175), (287, 19187), (292, 19220), (310, 19331), (311, 19334), (317, 19361), (319, 19367), (328, 19421), (329, 19424), (346, 19526), (348, 19538), (349, 19541), (358, 19607), (364, 19631), (366, 19652), (368, 19661), (378, 19721), (379, 19724), (386, 19760), (387, 19778), (391, 19790), (392, 19799), (396, 19826), (406, 19895), (408, 19913), (411, 19922), (413, 19934), (417, 19970), (421, 20000), (425, 20021), (430, 20045), (433, 20081), (440, 20135), (446, 20195), (453, 20237), (462, 20315), (470, 20372), (474, 20396), (480, 20450), (483, 20498), (491, 20564), (492, 20567),

Gene: Krili_57 Start: 35606, Stop: 38116, Start Num: 73

Candidate Starts for Krili_57:

(Start: 73 @35606 has 22 MA's), (79, 35639), (93, 35708), (94, 35711), (102, 35735), (107, 35759), (114, 35783), (119, 35816), (159, 36023), (162, 36035), (163, 36038), (187, 36185), (188, 36215), (194, 36239), (202, 36269), (203, 36272), (207, 36299), (210, 36323), (218, 36353), (229, 36410), (233, 36434), (241, 36470), (242, 36482), (247, 36506), (248, 36509), (254, 36551), (274, 36647), (275, 36650), (323, 36905), (346, 37049), (355, 37109), (365, 37181), (366, 37184), (383, 37280), (408, 37454), (413, 37475), (426, 37568), (429, 37580), (440, 37670), (451, 37745), (461, 37790), (485, 37991), (490, 38045), (495, 38060),

Gene: KristaRAM_19 Start: 18070, Stop: 20607, Start Num: 56

Candidate Starts for KristaRAM_19:

(54, 18058), (Start: 56 @18070 has 208 MA's), (66, 18091), (Start: 75 @18112 has 1 MA's), (84, 18151), (104, 18220), (106, 18229), (107, 18232), (113, 18250), (119, 18283), (122, 18298), (132, 18346), (154, 18457), (155, 18460), (163, 18490), (166, 18502), (167, 18505), (180, 18583), (184, 18607), (194, 18673), (202, 18718), (207, 18748), (208, 18754), (210, 18772), (217, 18796), (219, 18805), (225, 18838), (226, 18844), (232, 18874), (241, 18913), (242, 18925), (244, 18934), (247, 18949), (248, 18952), (268, 19063), (269, 19066), (270, 19075), (271, 19081), (274, 19096), (275, 19099), (277, 19120), (285, 19150), (287, 19162), (292, 19195), (310, 19306), (311, 19309), (317, 19336), (319, 19342), (328, 19396), (329, 19399), (343, 19486), (346, 19501), (348, 19513), (349,

19516), (358, 19582), (364, 19606), (366, 19627), (368, 19636), (378, 19696), (379, 19699), (386, 19735), (387, 19753), (391, 19765), (392, 19774), (396, 19801), (406, 19870), (408, 19888), (411, 19897), (413, 19909), (417, 19945), (421, 19975), (425, 19996), (430, 20020), (433, 20056), (440, 20110), (446, 20170), (453, 20212), (462, 20290), (470, 20347), (474, 20371), (480, 20425), (483, 20473), (489, 20515), (491, 20539), (492, 20542),

Gene: Kumao_30 Start: 23701, Stop: 26268, Start Num: 57

Candidate Starts for Kumao_30:

(Start: 57 @23701 has 6 MA's), (78, 23767), (113, 23899), (117, 23923), (124, 23956), (Start: 135 @24031 has 20 MA's), (140, 24049), (151, 24100), (168, 24166), (199, 24370), (219, 24469), (225, 24502), (234, 24553), (258, 24676), (259, 24679), (292, 24856), (304, 24922), (315, 24988), (320, 25006), (324, 25021), (326, 25045), (344, 25150), (346, 25162), (370, 25300), (385, 25399), (386, 25405), (389, 25435), (395, 25477), (423, 25660), (424, 25663), (426, 25684), (427, 25690), (440, 25789), (444, 25828), (457, 25915), (469, 26014), (476, 26065), (477, 26083), (482, 26137), (491, 26212),

Gene: Latretium_19 Start: 18077, Stop: 20614, Start Num: 56

Candidate Starts for Latretium_19:

(54, 18065), (Start: 56 @18077 has 208 MA's), (66, 18098), (Start: 75 @18119 has 1 MA's), (84, 18158), (104, 18227), (106, 18236), (107, 18239), (113, 18257), (122, 18305), (154, 18464), (155, 18467), (163, 18497), (167, 18512), (180, 18590), (183, 18611), (184, 18614), (194, 18680), (207, 18755), (208, 18761), (210, 18779), (217, 18803), (218, 18809), (219, 18812), (225, 18845), (226, 18851), (232, 18881), (237, 18902), (242, 18932), (244, 18941), (264, 19049), (268, 19070), (269, 19073), (270, 19082), (271, 19088), (274, 19103), (275, 19106), (277, 19127), (287, 19169), (292, 19202), (317, 19343), (319, 19349), (328, 19403), (329, 19406), (331, 19433), (346, 19508), (348, 19520), (349, 19523), (358, 19589), (364, 19613), (366, 19634), (368, 19643), (378, 19703), (379, 19706), (386, 19742), (387, 19760), (392, 19781), (396, 19808), (404, 19865), (406, 19877), (408, 19895), (411, 19904), (413, 19916), (417, 19952), (421, 19982), (433, 20063), (440, 20117), (446, 20177), (453, 20219), (470, 20354), (474, 20378), (480, 20432), (489, 20522), (491, 20546), (492, 20549),

Gene: Leozinho_19 Start: 17243, Stop: 19780, Start Num: 56

Candidate Starts for Leozinho_19:

(54, 17231), (Start: 56 @17243 has 208 MA's), (66, 17264), (Start: 75 @17285 has 1 MA's), (84, 17324), (104, 17393), (106, 17402), (107, 17405), (113, 17423), (119, 17456), (122, 17471), (132, 17519), (154, 17630), (155, 17633), (163, 17663), (166, 17675), (167, 17678), (180, 17756), (184, 17780), (194, 17846), (202, 17891), (207, 17921), (208, 17927), (210, 17945), (217, 17969), (219, 17978), (225, 18011), (226, 18017), (232, 18047), (241, 18086), (242, 18098), (244, 18107), (247, 18122), (248, 18125), (268, 18236), (269, 18239), (270, 18248), (271, 18254), (274, 18269), (275, 18272), (277, 18293), (285, 18323), (287, 18335), (292, 18368), (310, 18479), (311, 18482), (317, 18509), (319, 18515), (328, 18569), (329, 18572), (346, 18674), (348, 18686), (349, 18689), (358, 18755), (364, 18779), (366, 18800), (368, 18809), (378, 18869), (379, 18872), (386, 18908), (387, 18926), (391, 18938), (392, 18947), (396, 18974), (406, 19043), (408, 19061), (411, 19070), (413, 19082), (417, 19118), (421, 19148), (425, 19169), (430, 19193), (433, 19229), (440, 19283), (446, 19343), (453, 19385), (462, 19463), (470, 19520), (474, 19544), (480, 19598), (483, 19646), (489, 19688), (491, 19712), (492, 19715),

Gene: Leperchaun_18 Start: 17387, Stop: 19939, Start Num: 56

Candidate Starts for Leperchaun_18:

(Start: 56 @17387 has 208 MA's), (66, 17408), (Start: 75 @17429 has 1 MA's), (84, 17468), (104, 17537), (106, 17546), (107, 17549), (113, 17567), (119, 17600), (122, 17615), (132, 17663), (154, 17774), (155, 17777), (164, 17810), (166, 17819), (167, 17822), (180, 17900), (188, 17966), (196, 17999), (204, 18053), (207, 18065), (217, 18113), (219, 18122), (221, 18131), (227, 18164), (236,

18206), (240, 18221), (245, 18251), (246, 18257), (247, 18260), (248, 18263), (253, 18290), (256, 18311), (263, 18344), (270, 18386), (271, 18392), (272, 18395), (274, 18407), (275, 18410), (279, 18437), (285, 18461), (287, 18473), (292, 18506), (295, 18527), (308, 18599), (311, 18620), (330, 18731), (336, 18755), (337, 18758), (340, 18782), (346, 18812), (350, 18836), (355, 18872), (356, 18878), (357, 18887), (373, 18977), (375, 19001), (376, 19016), (385, 19058), (386, 19064), (393, 19109), (407, 19205), (408, 19220), (411, 19229), (415, 19253), (424, 19316), (468, 19658), (474, 19703), (483, 19805),

Gene: LilMoolah_18 Start: 17531, Stop: 20056, Start Num: 56

Candidate Starts for LilMoolah_18:

(Start: 56 @17531 has 208 MA's), (66, 17552), (Start: 75 @17573 has 1 MA's), (84, 17612), (104, 17681), (106, 17690), (107, 17693), (113, 17711), (122, 17759), (132, 17807), (154, 17918), (155, 17921), (164, 17954), (167, 17966), (180, 18044), (188, 18110), (196, 18143), (204, 18197), (207, 18209), (218, 18263), (219, 18266), (221, 18275), (227, 18308), (235, 18347), (236, 18350), (240, 18365), (241, 18368), (245, 18395), (246, 18401), (247, 18404), (248, 18407), (253, 18434), (255, 18452), (256, 18455), (270, 18530), (274, 18551), (275, 18554), (279, 18581), (285, 18605), (292, 18650), (293, 18653), (300, 18704), (311, 18767), (313, 18776), (318, 18800), (337, 18905), (338, 18908), (346, 18959), (347, 18965), (348, 18971), (349, 18974), (355, 19019), (357, 19034), (363, 19061), (366, 19085), (375, 19136), (378, 19154), (379, 19157), (380, 19169), (391, 19223), (408, 19346), (418, 19409), (428, 19472), (437, 19547), (465, 19748), (488, 19958), (494, 19997), (495, 20000),

Gene: Lilac_28 Start: 21781, Stop: 24177, Start Num: 88

Candidate Starts for Lilac_28:

(Start: 88 @21781 has 116 MA's), (129, 21958), (134, 21979), (173, 22126), (201, 22300), (207, 22333), (213, 22369), (232, 22462), (244, 22522), (248, 22540), (272, 22672), (280, 22717), (304, 22849), (310, 22894), (325, 22954), (342, 23068), (346, 23089), (352, 23128), (355, 23149), (357, 23164), (385, 23314), (386, 23320), (387, 23338), (397, 23392), (408, 23476), (424, 23569), (458, 23815), (483, 24031), (492, 24115), (499, 24148),

Gene: Lilizi_28 Start: 21989, Stop: 24385, Start Num: 88

Candidate Starts for Lilizi_28:

(Start: 88 @21989 has 116 MA's), (129, 22166), (134, 22187), (173, 22334), (201, 22508), (207, 22541), (213, 22577), (232, 22670), (244, 22730), (248, 22748), (272, 22880), (280, 22925), (304, 23057), (310, 23102), (325, 23162), (342, 23276), (346, 23297), (352, 23336), (355, 23357), (357, 23372), (385, 23522), (386, 23528), (387, 23546), (397, 23600), (408, 23684), (424, 23777), (458, 24023), (483, 24239), (492, 24323), (499, 24356),

Gene: Lilpickle_25 Start: 21491, Stop: 23887, Start Num: 88

Candidate Starts for Lilpickle_25:

(Start: 88 @21491 has 116 MA's), (129, 21668), (134, 21689), (173, 21836), (201, 22010), (207, 22043), (213, 22079), (232, 22172), (244, 22232), (248, 22250), (272, 22382), (280, 22427), (304, 22559), (310, 22604), (325, 22664), (342, 22778), (346, 22799), (352, 22838), (355, 22859), (357, 22874), (385, 23024), (386, 23030), (387, 23048), (397, 23102), (408, 23186), (424, 23279), (458, 23525), (483, 23741), (492, 23825), (499, 23858),

Gene: LittleE_39 Start: 30972, Stop: 33527, Start Num: 56

Candidate Starts for LittleE_39:

(Start: 56 @30972 has 208 MA's), (113, 31167), (119, 31203), (122, 31218), (132, 31266), (154, 31377), (155, 31380), (163, 31410), (167, 31425), (180, 31503), (184, 31527), (194, 31593), (202, 31638), (207, 31668), (208, 31674), (210, 31692), (217, 31716), (219, 31725), (225, 31758), (226, 31764), (232, 31794), (241, 31833), (242, 31845), (244, 31854), (247, 31869), (248, 31872), (268, 31983), (269, 31986), (270, 31995), (271, 32001), (274, 32016), (275, 32019), (285, 32070), (287,

32082), (292, 32115), (304, 32181), (310, 32226), (311, 32229), (317, 32256), (319, 32262), (328, 32316), (329, 32319), (343, 32406), (346, 32421), (348, 32433), (349, 32436), (358, 32502), (366, 32547), (368, 32556), (378, 32616), (379, 32619), (386, 32655), (387, 32673), (391, 32685), (392, 32694), (396, 32721), (406, 32790), (408, 32808), (411, 32817), (413, 32829), (417, 32865), (421, 32895), (425, 32916), (430, 32940), (433, 32976), (440, 33030), (446, 33090), (453, 33132), (470, 33267), (474, 33291), (480, 33345), (483, 33393), (489, 33435), (491, 33459), (492, 33462),

Gene: LittleShirley_19 Start: 17218, Stop: 19755, Start Num: 56

Candidate Starts for LittleShirley_19:

(Start: 56 @17218 has 208 MA's), (66, 17239), (Start: 75 @17260 has 1 MA's), (84, 17299), (104, 17368), (106, 17377), (107, 17380), (113, 17398), (122, 17446), (152, 17599), (155, 17608), (167, 17653), (183, 17752), (184, 17755), (194, 17821), (207, 17896), (208, 17902), (210, 17920), (217, 17944), (218, 17950), (219, 17953), (225, 17986), (226, 17992), (232, 18022), (237, 18043), (242, 18073), (244, 18082), (247, 18097), (248, 18100), (268, 18211), (269, 18214), (270, 18223), (271, 18229), (274, 18244), (275, 18247), (277, 18268), (285, 18298), (287, 18310), (292, 18343), (310, 18454), (311, 18457), (317, 18484), (319, 18490), (328, 18544), (329, 18547), (346, 18649), (348, 18661), (349, 18664), (358, 18730), (364, 18754), (366, 18775), (368, 18784), (378, 18844), (379, 18847), (386, 18883), (387, 18901), (391, 18913), (392, 18922), (396, 18949), (404, 19006), (406, 19018), (408, 19036), (411, 19045), (413, 19057), (417, 19093), (421, 19123), (424, 19132), (425, 19144), (433, 19204), (440, 19258), (446, 19318), (453, 19360), (470, 19495), (474, 19519), (480, 19573), (483, 19621), (489, 19663), (491, 19687), (492, 19690),

Gene: Lizziana_18 Start: 17406, Stop: 19931, Start Num: 56

Candidate Starts for Lizziana_18:

(Start: 56 @17406 has 208 MA's), (84, 17487), (104, 17556), (106, 17565), (107, 17568), (113, 17586), (122, 17634), (131, 17679), (154, 17793), (155, 17796), (158, 17808), (164, 17829), (166, 17838), (167, 17841), (176, 17889), (180, 17919), (188, 17985), (196, 18018), (202, 18054), (206, 18078), (218, 18138), (219, 18141), (222, 18159), (235, 18222), (236, 18225), (241, 18243), (244, 18264), (248, 18282), (253, 18309), (256, 18330), (263, 18363), (271, 18411), (272, 18414), (274, 18426), (275, 18429), (279, 18456), (285, 18480), (292, 18525), (313, 18651), (318, 18675), (338, 18783), (346, 18834), (348, 18846), (349, 18849), (355, 18894), (357, 18909), (363, 18936), (366, 18960), (375, 19011), (378, 19029), (379, 19032), (380, 19044), (391, 19098), (397, 19140), (418, 19284), (426, 19338), (427, 19344), (428, 19347), (431, 19383), (432, 19386), (435, 19395), (437, 19422), (465, 19623), (483, 19794), (488, 19833), (494, 19872), (495, 19875),

Gene: Llama_18 Start: 17634, Stop: 20171, Start Num: 56

Candidate Starts for Llama_18:

(Start: 56 @17634 has 208 MA's), (66, 17655), (Start: 75 @17676 has 1 MA's), (84, 17715), (104, 17784), (106, 17793), (107, 17796), (113, 17814), (122, 17862), (154, 18021), (155, 18024), (166, 18066), (167, 18069), (180, 18147), (183, 18168), (184, 18171), (194, 18237), (196, 18246), (202, 18282), (207, 18312), (208, 18318), (217, 18360), (218, 18366), (219, 18369), (225, 18402), (226, 18408), (232, 18438), (237, 18459), (242, 18489), (244, 18498), (264, 18606), (267, 18618), (268, 18627), (269, 18630), (270, 18639), (271, 18645), (274, 18660), (275, 18663), (277, 18684), (287, 18726), (292, 18759), (317, 18900), (319, 18906), (328, 18960), (329, 18963), (331, 18990), (346, 19065), (348, 19077), (349, 19080), (358, 19146), (363, 19167), (364, 19170), (366, 19191), (375, 19242), (378, 19260), (379, 19263), (385, 19293), (387, 19317), (391, 19329), (406, 19434), (408, 19452), (411, 19461), (413, 19473), (417, 19509), (421, 19539), (425, 19560), (430, 19584), (433, 19620), (446, 19734), (453, 19776), (462, 19854), (470, 19911), (474, 19935), (480, 19989), (483, 20037), (489, 20079), (491, 20103), (492, 20106),

Gene: Llij_18 Start: 17383, Stop: 19920, Start Num: 56

Candidate Starts for Llij_18:

(Start: 56 @17383 has 208 MA's), (90, 17473), (104, 17533), (106, 17542), (107, 17545), (113, 17563), (122, 17611), (132, 17659), (152, 17764), (154, 17770), (155, 17773), (166, 17815), (167, 17818), (184, 17920), (194, 17986), (202, 18031), (207, 18061), (208, 18067), (210, 18085), (217, 18109), (219, 18118), (225, 18151), (226, 18157), (237, 18208), (241, 18226), (242, 18238), (244, 18247), (247, 18262), (249, 18268), (268, 18376), (270, 18388), (271, 18394), (274, 18409), (275, 18412), (277, 18433), (285, 18463), (287, 18475), (292, 18508), (304, 18574), (310, 18619), (311, 18622), (317, 18649), (319, 18655), (328, 18709), (329, 18712), (331, 18739), (346, 18814), (348, 18826), (349, 18829), (358, 18895), (363, 18916), (364, 18919), (368, 18949), (375, 18991), (378, 19009), (379, 19012), (385, 19042), (387, 19066), (391, 19078), (392, 19087), (406, 19183), (408, 19201), (411, 19210), (413, 19222), (421, 19288), (424, 19297), (425, 19309), (433, 19369), (453, 19525), (470, 19660), (474, 19684), (480, 19738), (486, 19807), (491, 19852), (492, 19855),

Gene: Lorde_19 Start: 17219, Stop: 19756, Start Num: 56

Candidate Starts for Lorde_19:

(54, 17207), (Start: 56 @17219 has 208 MA's), (66, 17240), (Start: 75 @17261 has 1 MA's), (84, 17300), (104, 17369), (106, 17378), (107, 17381), (113, 17399), (119, 17432), (122, 17447), (132, 17495), (152, 17600), (155, 17609), (166, 17651), (167, 17654), (180, 17732), (184, 17756), (194, 17822), (202, 17867), (207, 17897), (208, 17903), (210, 17921), (217, 17945), (219, 17954), (225, 17987), (226, 17993), (232, 18023), (241, 18062), (242, 18074), (244, 18083), (247, 18098), (248, 18101), (268, 18212), (270, 18224), (271, 18230), (274, 18245), (275, 18248), (277, 18269), (285, 18299), (287, 18311), (292, 18344), (304, 18410), (310, 18455), (311, 18458), (317, 18485), (319, 18491), (328, 18545), (329, 18548), (331, 18575), (346, 18650), (348, 18662), (349, 18665), (358, 18731), (364, 18755), (368, 18785), (375, 18827), (378, 18845), (379, 18848), (386, 18884), (387, 18902), (392, 18923), (396, 18950), (406, 19019), (408, 19037), (411, 19046), (413, 19058), (417, 19094), (421, 19124), (424, 19133), (425, 19145), (433, 19205), (440, 19259), (446, 19319), (453, 19361), (462, 19439), (470, 19496), (474, 19520), (480, 19574), (483, 19622), (489, 19664), (491, 19688), (492, 19691),

Gene: Lucky2013_36 Start: 27869, Stop: 30376, Start Num: 56

Candidate Starts for Lucky2013_36:

(Start: 56 @27869 has 208 MA's), (113, 28064), (119, 28100), (122, 28115), (143, 28202), (147, 28217), (167, 28292), (171, 28304), (176, 28331), (190, 28436), (199, 28475), (202, 28484), (207, 28508), (208, 28514), (210, 28532), (215, 28550), (219, 28565), (221, 28574), (222, 28583), (225, 28598), (231, 28625), (232, 28634), (241, 28673), (242, 28685), (244, 28694), (260, 28778), (275, 28859), (280, 28889), (281, 28892), (287, 28922), (290, 28949), (293, 28958), (300, 29009), (302, 29018), (304, 29021), (309, 29057), (313, 29078), (322, 29114), (347, 29267), (355, 29321), (364, 29366), (365, 29384), (366, 29387), (374, 29426), (395, 29573), (397, 29582), (407, 29651), (408, 29666), (433, 29831), (443, 29918), (450, 29966), (458, 30017), (467, 30095), (493, 30317), (495, 30320), (499, 30347),

Gene: LunaBlu_19 Start: 17477, Stop: 20014, Start Num: 56

Candidate Starts for LunaBlu_19:

(Start: 56 @17477 has 208 MA's), (90, 17567), (104, 17627), (106, 17636), (107, 17639), (113, 17657), (119, 17690), (122, 17705), (132, 17753), (154, 17864), (155, 17867), (163, 17897), (167, 17912), (180, 17990), (194, 18080), (202, 18125), (207, 18155), (208, 18161), (210, 18179), (217, 18203), (219, 18212), (225, 18245), (226, 18251), (232, 18281), (241, 18320), (242, 18332), (244, 18341), (247, 18356), (248, 18359), (268, 18470), (270, 18482), (271, 18488), (274, 18503), (275, 18506), (277, 18527), (285, 18557), (287, 18569), (292, 18602), (304, 18668), (310, 18713), (311, 18716), (317, 18743), (319, 18749), (328, 18803), (329, 18806), (346, 18908), (348, 18920), (349, 18923), (358, 18989), (364, 19013), (368, 19043), (378, 19103), (379, 19106), (386, 19142), (387, 19160), (391, 19172), (392, 19181), (396, 19208), (406, 19277), (408, 19295), (411, 19304), (413, 19316), (417, 19352), (421, 19382), (425, 19403), (430, 19427), (433, 19463), (440, 19517), (446, 19577), (453, 19619), (462, 19697), (470, 19754), (474, 19778), (480, 19832), (483, 19880), (489,

19922), (491, 19946), (492, 19949),

Gene: LunaStella_19 Start: 17940, Stop: 20417, Start Num: 59

Candidate Starts for LunaStella_19:

(Start: 59 @17940 has 2 MA's), (66, 17952), (89, 18015), (95, 18042), (110, 18096), (113, 18105), (114, 18111), (119, 18138), (125, 18171), (143, 18243), (147, 18258), (155, 18294), (157, 18303), (164, 18321), (171, 18345), (175, 18369), (199, 18516), (202, 18525), (207, 18549), (210, 18573), (217, 18597), (218, 18603), (222, 18624), (226, 18645), (232, 18675), (239, 18705), (242, 18726), (260, 18819), (263, 18834), (264, 18843), (266, 18852), (268, 18864), (269, 18867), (285, 18951), (286, 18954), (287, 18963), (290, 18990), (293, 18999), (298, 19038), (302, 19059), (304, 19062), (309, 19098), (313, 19119), (328, 19197), (329, 19200), (339, 19254), (348, 19314), (362, 19401), (364, 19407), (365, 19425), (366, 19428), (374, 19464), (382, 19518), (385, 19527), (395, 19605), (398, 19623), (401, 19659), (402, 19662), (406, 19680), (407, 19683), (408, 19698), (417, 19755), (419, 19767), (430, 19830), (433, 19863), (443, 19950), (450, 19998), (452, 20022), (456, 20049), (458, 20058), (461, 20097), (467, 20136), (470, 20160), (473, 20181), (483, 20277), (486, 20298), (495, 20361), (499, 20388), (501, 20397),

Gene: MISSy_25 Start: 21796, Stop: 24192, Start Num: 88

Candidate Starts for MISSy_25:

(Start: 88 @21796 has 116 MA's), (129, 21973), (134, 21994), (173, 22141), (196, 22282), (201, 22315), (207, 22348), (213, 22384), (232, 22477), (244, 22537), (248, 22555), (272, 22687), (280, 22732), (304, 22864), (310, 22909), (325, 22969), (342, 23083), (346, 23104), (352, 23143), (355, 23164), (357, 23179), (385, 23329), (386, 23335), (387, 23353), (397, 23407), (408, 23491), (424, 23584), (458, 23830), (483, 24046), (492, 24130), (499, 24163),

Gene: MPhalcon_25 Start: 21790, Stop: 24186, Start Num: 88

Candidate Starts for MPhalcon_25:

(Start: 88 @21790 has 116 MA's), (129, 21967), (134, 21988), (173, 22135), (196, 22276), (201, 22309), (207, 22342), (213, 22378), (232, 22471), (244, 22531), (248, 22549), (272, 22681), (280, 22726), (304, 22858), (310, 22903), (325, 22963), (342, 23077), (346, 23098), (352, 23137), (355, 23158), (357, 23173), (385, 23323), (386, 23329), (387, 23347), (397, 23401), (408, 23485), (424, 23578), (458, 23824), (483, 24040), (492, 24124), (499, 24157),

Gene: MadKillah_59 Start: 35875, Stop: 38385, Start Num: 73

Candidate Starts for MadKillah_59:

(Start: 73 @35875 has 22 MA's), (79, 35908), (93, 35977), (94, 35980), (102, 36004), (107, 36028), (114, 36052), (119, 36085), (159, 36292), (162, 36304), (163, 36307), (187, 36454), (188, 36484), (194, 36508), (202, 36538), (203, 36541), (207, 36568), (210, 36592), (218, 36622), (229, 36679), (233, 36703), (241, 36739), (242, 36751), (247, 36775), (248, 36778), (254, 36820), (274, 36916), (275, 36919), (323, 37174), (346, 37318), (355, 37378), (365, 37450), (366, 37453), (383, 37549), (408, 37723), (413, 37744), (426, 37837), (429, 37849), (440, 37939), (451, 38014), (461, 38059), (485, 38260), (490, 38314), (495, 38329),

Gene: MadMen_19 Start: 17637, Stop: 20129, Start Num: 56

Candidate Starts for MadMen_19:

(Start: 56 @17637 has 208 MA's), (66, 17658), (Start: 75 @17679 has 1 MA's), (85, 17718), (104, 17787), (106, 17796), (107, 17799), (113, 17817), (119, 17850), (125, 17883), (133, 17916), (143, 17955), (147, 17970), (155, 18006), (157, 18015), (164, 18033), (171, 18057), (175, 18081), (199, 18228), (202, 18237), (207, 18261), (210, 18285), (217, 18309), (218, 18315), (222, 18336), (226, 18357), (232, 18387), (239, 18417), (242, 18438), (260, 18531), (263, 18546), (264, 18555), (268, 18576), (269, 18579), (285, 18663), (286, 18666), (287, 18675), (290, 18702), (293, 18711), (298, 18750), (302, 18771), (304, 18774), (309, 18810), (313, 18831), (328, 18909), (329, 18912), (339, 18966), (348, 19026), (364, 19119), (365, 19137), (366, 19140), (374, 19176), (382, 19230), (385,

19239), (395, 19317), (398, 19335), (401, 19371), (402, 19374), (406, 19392), (407, 19395), (408, 19410), (417, 19467), (419, 19479), (433, 19575), (443, 19662), (450, 19710), (452, 19734), (458, 19770), (461, 19809), (467, 19848), (470, 19872), (473, 19893), (483, 19989), (486, 20010), (495, 20073), (499, 20100), (501, 20109),

Gene: MadamMonkfish_26 Start: 21702, Stop: 24098, Start Num: 88

Candidate Starts for MadamMonkfish_26:

(Start: 88 @21702 has 116 MA's), (129, 21879), (134, 21900), (173, 22047), (201, 22221), (207, 22254), (213, 22290), (232, 22383), (244, 22443), (248, 22461), (272, 22593), (280, 22638), (304, 22770), (310, 22815), (325, 22875), (342, 22989), (346, 23010), (352, 23049), (355, 23070), (357, 23085), (385, 23235), (386, 23241), (387, 23259), (397, 23313), (408, 23397), (424, 23490), (458, 23736), (483, 23952), (492, 24036), (499, 24069),

Gene: Madiba_19 Start: 17273, Stop: 19762, Start Num: 56

Candidate Starts for Madiba_19:

(Start: 56 @17273 has 208 MA's), (66, 17294), (Start: 75 @17315 has 1 MA's), (85, 17354), (104, 17423), (106, 17432), (107, 17435), (113, 17453), (122, 17501), (147, 17603), (155, 17639), (156, 17645), (157, 17648), (164, 17666), (171, 17690), (175, 17714), (186, 17777), (199, 17861), (202, 17870), (207, 17894), (210, 17918), (217, 17942), (218, 17948), (222, 17969), (226, 17990), (232, 18020), (239, 18050), (242, 18071), (260, 18164), (263, 18179), (264, 18188), (268, 18209), (269, 18212), (285, 18296), (286, 18299), (287, 18308), (290, 18335), (293, 18344), (298, 18383), (302, 18404), (304, 18407), (309, 18443), (313, 18464), (328, 18542), (329, 18545), (339, 18599), (348, 18659), (364, 18752), (365, 18770), (366, 18773), (374, 18809), (382, 18863), (385, 18872), (395, 18950), (398, 18968), (401, 19004), (402, 19007), (406, 19025), (407, 19028), (408, 19043), (417, 19100), (419, 19112), (433, 19208), (443, 19295), (450, 19343), (452, 19367), (456, 19394), (458, 19403), (461, 19442), (467, 19481), (470, 19505), (473, 19526), (483, 19622), (486, 19643), (495, 19706), (499, 19733), (501, 19742),

Gene: Mahavrat_18 Start: 17394, Stop: 19931, Start Num: 56

Candidate Starts for Mahavrat_18:

(Start: 56 @17394 has 208 MA's), (66, 17415), (Start: 75 @17436 has 1 MA's), (84, 17475), (104, 17544), (106, 17553), (107, 17556), (113, 17574), (119, 17607), (122, 17622), (154, 17781), (155, 17784), (167, 17829), (180, 17907), (184, 17931), (194, 17997), (207, 18072), (208, 18078), (217, 18120), (218, 18126), (219, 18129), (225, 18162), (226, 18168), (232, 18198), (237, 18219), (242, 18249), (244, 18258), (264, 18366), (267, 18378), (268, 18387), (269, 18390), (270, 18399), (271, 18405), (274, 18420), (275, 18423), (277, 18444), (287, 18486), (292, 18519), (310, 18630), (311, 18633), (317, 18660), (319, 18666), (328, 18720), (329, 18723), (331, 18750), (333, 18759), (346, 18825), (348, 18837), (349, 18840), (358, 18906), (363, 18927), (364, 18930), (366, 18951), (375, 19002), (378, 19020), (379, 19023), (385, 19053), (387, 19077), (391, 19089), (392, 19098), (406, 19194), (408, 19212), (411, 19221), (413, 19233), (417, 19269), (421, 19299), (425, 19320), (430, 19344), (433, 19380), (446, 19494), (453, 19536), (470, 19671), (474, 19695), (480, 19749), (486, 19818), (491, 19863), (492, 19866), (494, 19872),

Gene: Manda_27 Start: 22769, Stop: 25165, Start Num: 88

Candidate Starts for Manda_27:

(Start: 88 @22769 has 116 MA's), (129, 22946), (134, 22967), (173, 23114), (196, 23255), (201, 23288), (207, 23321), (213, 23357), (232, 23450), (244, 23510), (248, 23528), (272, 23660), (280, 23705), (304, 23837), (310, 23882), (325, 23942), (342, 24056), (346, 24077), (352, 24116), (355, 24137), (357, 24152), (385, 24302), (386, 24308), (387, 24326), (397, 24380), (408, 24464), (424, 24557), (458, 24803), (483, 25019), (492, 25103), (499, 25136),

Gene: Mandlovu_18 Start: 17495, Stop: 20032, Start Num: 56

Candidate Starts for Mandlovu_18:

(Start: 56 @17495 has 208 MA's), (66, 17516), (Start: 75 @17537 has 1 MA's), (84, 17576), (104, 17645), (106, 17654), (107, 17657), (113, 17675), (122, 17723), (154, 17882), (155, 17885), (166, 17927), (167, 17930), (180, 18008), (183, 18029), (184, 18032), (194, 18098), (207, 18173), (208, 18179), (217, 18221), (218, 18227), (219, 18230), (225, 18263), (226, 18269), (232, 18299), (237, 18320), (242, 18350), (244, 18359), (264, 18467), (267, 18479), (268, 18488), (269, 18491), (270, 18500), (271, 18506), (274, 18521), (275, 18524), (277, 18545), (287, 18587), (292, 18620), (317, 18761), (319, 18767), (328, 18821), (329, 18824), (331, 18851), (346, 18926), (348, 18938), (349, 18941), (358, 19007), (364, 19031), (366, 19052), (368, 19061), (378, 19121), (379, 19124), (386, 19160), (387, 19178), (392, 19199), (396, 19226), (406, 19295), (408, 19313), (411, 19322), (413, 19334), (417, 19370), (421, 19400), (433, 19481), (446, 19595), (453, 19637), (470, 19772), (474, 19796), (480, 19850), (491, 19964), (492, 19967),

Gene: Mantra_18 Start: 17496, Stop: 20033, Start Num: 56

Candidate Starts for Mantra_18:

(Start: 56 @17496 has 208 MA's), (66, 17517), (Start: 75 @17538 has 1 MA's), (84, 17577), (104, 17646), (106, 17655), (107, 17658), (113, 17676), (122, 17724), (152, 17877), (155, 17886), (167, 17931), (183, 18030), (184, 18033), (194, 18099), (207, 18174), (208, 18180), (210, 18198), (217, 18222), (218, 18228), (219, 18231), (225, 18264), (226, 18270), (232, 18300), (237, 18321), (242, 18351), (244, 18360), (247, 18375), (248, 18378), (268, 18489), (269, 18492), (270, 18501), (271, 18507), (274, 18522), (275, 18525), (277, 18546), (285, 18576), (287, 18588), (292, 18621), (310, 18732), (311, 18735), (317, 18762), (319, 18768), (328, 18822), (329, 18825), (343, 18912), (346, 18927), (348, 18939), (349, 18942), (358, 19008), (364, 19032), (366, 19053), (368, 19062), (378, 19122), (379, 19125), (386, 19161), (387, 19179), (391, 19191), (392, 19200), (396, 19227), (404, 19284), (406, 19296), (408, 19314), (411, 19323), (413, 19335), (417, 19371), (421, 19401), (424, 19410), (425, 19422), (433, 19482), (440, 19536), (446, 19596), (453, 19638), (470, 19773), (474, 19797), (480, 19851), (483, 19899), (489, 19941), (491, 19965), (492, 19968),

Gene: Maravista_18 Start: 17343, Stop: 19880, Start Num: 56

Candidate Starts for Maravista_18:

(54, 17331), (Start: 56 @17343 has 208 MA's), (66, 17364), (Start: 75 @17385 has 1 MA's), (84, 17424), (104, 17493), (106, 17502), (107, 17505), (113, 17523), (119, 17556), (122, 17571), (132, 17619), (154, 17730), (155, 17733), (163, 17763), (166, 17775), (167, 17778), (180, 17856), (184, 17880), (194, 17946), (202, 17991), (207, 18021), (208, 18027), (210, 18045), (217, 18069), (219, 18078), (225, 18111), (226, 18117), (232, 18147), (241, 18186), (242, 18198), (244, 18207), (247, 18222), (248, 18225), (268, 18336), (269, 18339), (270, 18348), (271, 18354), (274, 18369), (275, 18372), (277, 18393), (285, 18423), (287, 18435), (292, 18468), (310, 18579), (311, 18582), (317, 18609), (319, 18615), (328, 18669), (329, 18672), (346, 18774), (348, 18786), (349, 18789), (358, 18855), (364, 18879), (366, 18900), (368, 18909), (378, 18969), (379, 18972), (386, 19008), (387, 19026), (391, 19038), (392, 19047), (396, 19074), (406, 19143), (408, 19161), (411, 19170), (413, 19182), (417, 19218), (421, 19248), (425, 19269), (430, 19293), (433, 19329), (440, 19383), (446, 19443), (453, 19485), (470, 19620), (474, 19644), (480, 19698), (483, 19746), (486, 19767), (489, 19788), (491, 19812), (492, 19815),

Gene: Marker_19 Start: 17246, Stop: 19783, Start Num: 56

Candidate Starts for Marker_19:

(Start: 56 @17246 has 208 MA's), (66, 17267), (Start: 75 @17288 has 1 MA's), (84, 17327), (104, 17396), (106, 17405), (107, 17408), (113, 17426), (122, 17474), (152, 17627), (155, 17636), (167, 17681), (183, 17780), (184, 17783), (194, 17849), (207, 17924), (208, 17930), (210, 17948), (217, 17972), (219, 17981), (225, 18014), (226, 18020), (232, 18050), (237, 18071), (241, 18089), (242, 18101), (244, 18110), (247, 18125), (248, 18128), (268, 18239), (269, 18242), (270, 18251), (271, 18257), (274, 18272), (275, 18275), (277, 18296), (285, 18326), (287, 18338), (292, 18371), (310, 18482), (311, 18485), (317, 18512), (319, 18518), (328, 18572), (329, 18575), (337, 18623), (343, 18662), (346, 18677), (348, 18689), (349, 18692), (351, 18713), (358, 18758), (364, 18782), (368,

18812), (375, 18854), (378, 18872), (379, 18875), (386, 18911), (387, 18929), (391, 18941), (392, 18950), (397, 18983), (406, 19046), (408, 19064), (411, 19073), (413, 19085), (421, 19151), (425, 19172), (430, 19196), (433, 19232), (440, 19286), (446, 19346), (453, 19388), (462, 19466), (470, 19523), (474, 19547), (480, 19601), (483, 19649), (489, 19691), (491, 19715), (492, 19718),

Gene: Marshmallow_26 Start: 22283, Stop: 24679, Start Num: 88

Candidate Starts for Marshmallow_26:

(Start: 88 @22283 has 116 MA's), (129, 22460), (134, 22481), (173, 22628), (196, 22769), (201, 22802), (207, 22835), (213, 22871), (232, 22964), (244, 23024), (248, 23042), (263, 23123), (304, 23351), (310, 23396), (346, 23591), (347, 23597), (349, 23606), (355, 23651), (357, 23666), (386, 23822), (387, 23840), (390, 23849), (408, 23978), (409, 23981), (439, 24191), (441, 24203), (458, 24317), (483, 24533), (492, 24617), (497, 24641), (499, 24650),

Gene: Martik_18 Start: 17406, Stop: 19958, Start Num: 56

Candidate Starts for Martik_18:

(Start: 56 @17406 has 208 MA's), (84, 17487), (104, 17556), (106, 17565), (107, 17568), (113, 17586), (122, 17634), (131, 17679), (154, 17793), (155, 17796), (158, 17808), (164, 17829), (166, 17838), (167, 17841), (176, 17889), (180, 17919), (188, 17985), (196, 18018), (202, 18054), (206, 18078), (218, 18138), (219, 18141), (222, 18159), (235, 18222), (236, 18225), (241, 18243), (244, 18264), (248, 18282), (253, 18309), (256, 18330), (263, 18363), (270, 18405), (271, 18411), (272, 18414), (275, 18429), (279, 18456), (280, 18459), (285, 18480), (287, 18492), (292, 18525), (308, 18618), (328, 18726), (330, 18750), (331, 18756), (336, 18774), (337, 18777), (340, 18801), (346, 18831), (350, 18855), (355, 18891), (356, 18897), (357, 18906), (363, 18933), (373, 18996), (375, 19020), (376, 19035), (385, 19077), (393, 19128), (407, 19224), (408, 19239), (411, 19248), (415, 19272), (424, 19335), (430, 19371), (468, 19677), (474, 19722), (483, 19824),

Gene: MaryV_43 Start: 28332, Stop: 30899, Start Num: 57

Candidate Starts for MaryV_43:

(Start: 57 @28332 has 6 MA's), (78, 28401), (110, 28524), (112, 28530), (113, 28533), (117, 28557), (121, 28578), (151, 28734), (153, 28740), (155, 28746), (163, 28776), (164, 28782), (169, 28803), (170, 28812), (179, 28872), (189, 28950), (208, 29049), (214, 29082), (218, 29097), (219, 29100), (226, 29139), (237, 29190), (241, 29208), (244, 29229), (245, 29235), (251, 29262), (254, 29289), (268, 29358), (273, 29382), (276, 29403), (280, 29424), (283, 29433), (287, 29454), (292, 29487), (293, 29490), (300, 29541), (304, 29553), (315, 29619), (320, 29637), (326, 29676), (346, 29793), (353, 29838), (363, 29895), (366, 29919), (368, 29928), (372, 29946), (378, 29991), (385, 30024), (389, 30060), (416, 30234), (417, 30252), (418, 30258), (427, 30315), (469, 30639), (472, 30657), (477, 30708), (484, 30771), (491, 30846),

Gene: Mattes_18 Start: 17397, Stop: 19922, Start Num: 56

Candidate Starts for Mattes_18:

(Start: 56 @17397 has 208 MA's), (66, 17418), (Start: 75 @17439 has 1 MA's), (84, 17478), (104, 17547), (106, 17556), (107, 17559), (113, 17577), (122, 17625), (132, 17673), (154, 17784), (155, 17787), (164, 17820), (167, 17832), (180, 17910), (188, 17976), (196, 18009), (204, 18063), (207, 18075), (218, 18129), (219, 18132), (221, 18141), (227, 18174), (235, 18213), (236, 18216), (240, 18231), (241, 18234), (245, 18261), (246, 18267), (247, 18270), (248, 18273), (253, 18300), (255, 18318), (256, 18321), (270, 18396), (274, 18417), (275, 18420), (279, 18447), (285, 18471), (292, 18516), (293, 18519), (300, 18570), (311, 18633), (313, 18642), (318, 18666), (337, 18771), (338, 18774), (346, 18825), (347, 18831), (348, 18837), (349, 18840), (355, 18885), (357, 18900), (363, 18927), (366, 18951), (375, 19002), (378, 19020), (379, 19023), (380, 19035), (391, 19089), (408, 19212), (418, 19275), (428, 19338), (437, 19413), (465, 19614), (488, 19824), (494, 19863), (495, 19866),

Gene: Maxxinista_27 Start: 21751, Stop: 24147, Start Num: 88

Candidate Starts for Maxxinista_27:

(Start: 88 @21751 has 116 MA's), (129, 21928), (134, 21949), (173, 22096), (201, 22270), (207, 22303), (213, 22339), (232, 22432), (244, 22492), (248, 22510), (272, 22642), (280, 22687), (304, 22819), (310, 22864), (325, 22924), (342, 23038), (346, 23059), (352, 23098), (355, 23119), (357, 23134), (385, 23284), (386, 23290), (387, 23308), (397, 23362), (408, 23446), (424, 23539), (458, 23785), (483, 24001), (492, 24085), (499, 24118),

Gene: Megatron06_32 Start: 26215, Stop: 29058, Start Num: 22

Candidate Starts for Megatron06_32:

(Start: 22 @26215 has 7 MA's), (43, 26347), (45, 26359), (46, 26368), (53, 26437), (55, 26443), (77, 26503), (81, 26524), (91, 26572), (98, 26614), (105, 26638), (115, 26671), (120, 26707), (123, 26719), (142, 26812), (155, 26869), (165, 26908), (186, 27034), (196, 27103), (200, 27133), (208, 27175), (219, 27226), (237, 27316), (241, 27334), (254, 27415), (263, 27454), (267, 27475), (292, 27613), (297, 27652), (309, 27715), (329, 27817), (365, 28042), (422, 28405), (426, 28432), (464, 28675), (468, 28708), (471, 28732), (483, 28852), (493, 28930), (504, 29017), (505, 29032), (506, 29038),

Gene: Melissauren88_18 Start: 17470, Stop: 19965, Start Num: 75

Candidate Starts for Melissauren88_18:

(54, 17416), (Start: 56 @17428 has 208 MA's), (66, 17449), (Start: 75 @17470 has 1 MA's), (84, 17509), (104, 17578), (106, 17587), (107, 17590), (113, 17608), (119, 17641), (122, 17656), (132, 17704), (154, 17815), (155, 17818), (163, 17848), (166, 17860), (167, 17863), (180, 17941), (184, 17965), (194, 18031), (202, 18076), (207, 18106), (208, 18112), (210, 18130), (217, 18154), (219, 18163), (225, 18196), (226, 18202), (232, 18232), (241, 18271), (242, 18283), (244, 18292), (247, 18307), (248, 18310), (268, 18421), (269, 18424), (270, 18433), (271, 18439), (274, 18454), (275, 18457), (277, 18478), (285, 18508), (287, 18520), (292, 18553), (310, 18664), (311, 18667), (317, 18694), (319, 18700), (328, 18754), (329, 18757), (343, 18844), (346, 18859), (348, 18871), (349, 18874), (358, 18940), (364, 18964), (366, 18985), (368, 18994), (378, 19054), (379, 19057), (386, 19093), (387, 19111), (391, 19123), (392, 19132), (396, 19159), (406, 19228), (408, 19246), (411, 19255), (413, 19267), (417, 19303), (421, 19333), (425, 19354), (430, 19378), (433, 19414), (440, 19468), (446, 19528), (453, 19570), (462, 19648), (470, 19705), (474, 19729), (480, 19783), (483, 19831), (489, 19873), (491, 19897), (492, 19900),

Gene: MiaZeal_36 Start: 27554, Stop: 30061, Start Num: 56

Candidate Starts for MiaZeal_36:

(Start: 56 @27554 has 208 MA's), (113, 27749), (119, 27785), (122, 27800), (143, 27887), (147, 27902), (167, 27977), (171, 27989), (176, 28016), (190, 28121), (199, 28160), (202, 28169), (207, 28193), (208, 28199), (210, 28217), (219, 28250), (221, 28259), (222, 28268), (225, 28283), (231, 28310), (232, 28319), (241, 28358), (242, 28370), (244, 28379), (260, 28463), (275, 28544), (280, 28574), (281, 28577), (287, 28607), (290, 28634), (293, 28643), (300, 28694), (302, 28703), (304, 28706), (309, 28742), (313, 28763), (322, 28799), (347, 28952), (355, 29006), (364, 29051), (365, 29069), (366, 29072), (374, 29111), (395, 29258), (397, 29267), (407, 29336), (408, 29351), (433, 29516), (443, 29603), (450, 29651), (458, 29702), (467, 29780), (493, 30002), (495, 30005), (499, 30032),

Gene: MilleniumForce_19 Start: 18211, Stop: 20748, Start Num: 56

Candidate Starts for MilleniumForce_19:

(54, 18199), (Start: 56 @18211 has 208 MA's), (66, 18232), (Start: 75 @18253 has 1 MA's), (84, 18292), (104, 18361), (106, 18370), (107, 18373), (113, 18391), (119, 18424), (122, 18439), (132, 18487), (154, 18598), (155, 18601), (163, 18631), (166, 18643), (167, 18646), (180, 18724), (184, 18748), (194, 18814), (202, 18859), (207, 18889), (208, 18895), (210, 18913), (217, 18937), (219, 18946), (225, 18979), (226, 18985), (232, 19015), (241, 19054), (242, 19066), (244, 19075), (247, 19090), (248, 19093), (268, 19204), (269, 19207), (270, 19216), (271, 19222), (274, 19237), (275, 19240), (277, 19261), (285, 19291), (287, 19303), (292, 19336), (310, 19447), (311, 19450), (317,

19477), (319, 19483), (328, 19537), (329, 19540), (346, 19642), (348, 19654), (349, 19657), (358, 19723), (364, 19747), (366, 19768), (368, 19777), (378, 19837), (379, 19840), (386, 19876), (387, 19894), (391, 19906), (392, 19915), (396, 19942), (406, 20011), (408, 20029), (411, 20038), (413, 20050), (417, 20086), (421, 20116), (425, 20137), (430, 20161), (433, 20197), (440, 20251), (446, 20311), (453, 20353), (462, 20431), (470, 20488), (474, 20512), (480, 20566), (483, 20614), (489, 20656), (491, 20680), (492, 20683),

Gene: Mindy_26 Start: 22062, Stop: 24458, Start Num: 88

Candidate Starts for Mindy_26:

(Start: 88 @22062 has 116 MA's), (129, 22239), (134, 22260), (173, 22407), (196, 22548), (201, 22581), (207, 22614), (213, 22650), (232, 22743), (244, 22803), (248, 22821), (276, 22977), (280, 22998), (300, 23118), (304, 23130), (310, 23175), (346, 23370), (349, 23385), (355, 23430), (357, 23445), (386, 23601), (387, 23619), (390, 23628), (408, 23757), (409, 23760), (439, 23970), (441, 23982), (458, 24096), (483, 24312), (492, 24396), (497, 24420), (499, 24429),

Gene: Minerva_39 Start: 31221, Stop: 33764, Start Num: 56

Candidate Starts for Minerva_39:

(50, 31164), (Start: 56 @31221 has 208 MA's), (111, 31410), (122, 31467), (131, 31512), (154, 31626), (155, 31629), (161, 31650), (164, 31662), (167, 31674), (180, 31752), (188, 31818), (196, 31851), (202, 31887), (206, 31911), (218, 31971), (219, 31974), (222, 31992), (235, 32055), (236, 32058), (241, 32076), (244, 32097), (248, 32115), (253, 32142), (256, 32163), (263, 32196), (271, 32244), (272, 32247), (275, 32262), (279, 32289), (285, 32313), (292, 32358), (313, 32484), (328, 32562), (338, 32616), (346, 32667), (347, 32673), (348, 32679), (349, 32682), (355, 32727), (357, 32742), (363, 32769), (366, 32793), (375, 32844), (378, 32862), (379, 32865), (380, 32877), (391, 32931), (397, 32973), (418, 33117), (426, 33171), (427, 33177), (428, 33180), (431, 33216), (432, 33219), (435, 33228), (437, 33255), (465, 33456), (483, 33627), (488, 33666), (495, 33708),

Gene: MinionDave_19 Start: 18080, Stop: 20617, Start Num: 56

Candidate Starts for MinionDave_19:

(Start: 56 @18080 has 208 MA's), (90, 18170), (104, 18230), (106, 18239), (107, 18242), (113, 18260), (119, 18293), (122, 18308), (132, 18356), (154, 18467), (155, 18470), (163, 18500), (166, 18512), (167, 18515), (180, 18593), (184, 18617), (194, 18683), (202, 18728), (207, 18758), (208, 18764), (210, 18782), (217, 18806), (219, 18815), (225, 18848), (226, 18854), (232, 18884), (241, 18923), (242, 18935), (244, 18944), (247, 18959), (248, 18962), (268, 19073), (269, 19076), (270, 19085), (271, 19091), (274, 19106), (275, 19109), (277, 19130), (285, 19160), (287, 19172), (292, 19205), (310, 19316), (311, 19319), (317, 19346), (319, 19352), (328, 19406), (329, 19409), (343, 19496), (346, 19511), (348, 19523), (349, 19526), (358, 19592), (364, 19616), (366, 19637), (368, 19646), (378, 19706), (379, 19709), (386, 19745), (387, 19763), (391, 19775), (392, 19784), (396, 19811), (406, 19880), (408, 19898), (411, 19907), (413, 19919), (417, 19955), (421, 19985), (425, 20006), (430, 20030), (433, 20066), (440, 20120), (446, 20180), (453, 20222), (462, 20300), (470, 20357), (474, 20381), (480, 20435), (483, 20483), (489, 20525), (491, 20549), (492, 20552),

Gene: Miniwave_26 Start: 22481, Stop: 24877, Start Num: 88

Candidate Starts for Miniwave_26:

(Start: 88 @22481 has 116 MA's), (129, 22658), (134, 22679), (173, 22826), (196, 22967), (201, 23000), (207, 23033), (213, 23069), (232, 23162), (244, 23222), (248, 23240), (272, 23372), (280, 23417), (304, 23549), (310, 23594), (325, 23654), (342, 23768), (346, 23789), (352, 23828), (355, 23849), (357, 23864), (385, 24014), (386, 24020), (387, 24038), (397, 24092), (408, 24176), (424, 24269), (458, 24515), (483, 24731), (492, 24815), (499, 24848),

Gene: Minnie_19 Start: 17940, Stop: 20477, Start Num: 56

Candidate Starts for Minnie_19:

(54, 17928), (Start: 56 @17940 has 208 MA's), (66, 17961), (Start: 75 @17982 has 1 MA's), (84, 18021), (104, 18090), (106, 18099), (107, 18102), (113, 18120), (119, 18153), (122, 18168), (132, 18216), (154, 18327), (155, 18330), (163, 18360), (166, 18372), (167, 18375), (180, 18453), (184, 18477), (194, 18543), (202, 18588), (207, 18618), (208, 18624), (210, 18642), (217, 18666), (219, 18675), (225, 18708), (226, 18714), (232, 18744), (241, 18783), (242, 18795), (244, 18804), (247, 18819), (248, 18822), (268, 18933), (269, 18936), (270, 18945), (271, 18951), (274, 18966), (275, 18969), (277, 18990), (285, 19020), (287, 19032), (292, 19065), (310, 19176), (311, 19179), (317, 19206), (319, 19212), (328, 19266), (329, 19269), (346, 19371), (348, 19383), (349, 19386), (358, 19452), (364, 19476), (366, 19497), (368, 19506), (378, 19566), (379, 19569), (386, 19605), (387, 19623), (391, 19635), (392, 19644), (396, 19671), (406, 19740), (408, 19758), (411, 19767), (413, 19779), (417, 19815), (421, 19845), (425, 19866), (430, 19890), (433, 19926), (440, 19980), (446, 20040), (453, 20082), (462, 20160), (470, 20217), (474, 20241), (480, 20295), (483, 20343), (489, 20385), (491, 20409), (492, 20412),

Gene: Misfit_26 Start: 22371, Stop: 24767, Start Num: 88

Candidate Starts for Misfit_26:

(Start: 88 @22371 has 116 MA's), (129, 22548), (134, 22569), (173, 22716), (196, 22857), (201, 22890), (207, 22923), (213, 22959), (232, 23052), (244, 23112), (248, 23130), (272, 23262), (280, 23307), (304, 23439), (310, 23484), (325, 23544), (342, 23658), (346, 23679), (352, 23718), (355, 23739), (357, 23754), (385, 23904), (386, 23910), (387, 23928), (397, 23982), (408, 24066), (424, 24159), (458, 24405), (483, 24621), (492, 24705), (499, 24738),

Gene: Misha28_19 Start: 17273, Stop: 19798, Start Num: 56

Candidate Starts for Misha28_19:

(Start: 56 @17273 has 208 MA's), (66, 17294), (Start: 75 @17315 has 1 MA's), (84, 17354), (104, 17423), (106, 17432), (107, 17435), (113, 17453), (119, 17486), (122, 17501), (132, 17549), (154, 17660), (155, 17663), (167, 17708), (180, 17786), (184, 17810), (194, 17876), (202, 17921), (207, 17951), (208, 17957), (210, 17975), (217, 17999), (219, 18008), (225, 18041), (226, 18047), (232, 18077), (241, 18116), (242, 18128), (244, 18137), (247, 18152), (248, 18155), (275, 18302), (285, 18353), (303, 18464), (311, 18515), (316, 18539), (331, 18632), (340, 18677), (342, 18686), (346, 18707), (348, 18719), (349, 18722), (355, 18767), (364, 18812), (365, 18830), (366, 18833), (375, 18884), (385, 18935), (386, 18941), (387, 18959), (391, 18971), (392, 18980), (397, 19013), (408, 19094), (419, 19163), (424, 19190), (427, 19217), (435, 19268), (440, 19316), (473, 19559), (483, 19664), (486, 19685), (494, 19739), (498, 19763),

Gene: MisterCuddles_18 Start: 17371, Stop: 19908, Start Num: 56

Candidate Starts for MisterCuddles_18:

(Start: 56 @17371 has 208 MA's), (66, 17392), (Start: 75 @17413 has 1 MA's), (84, 17452), (104, 17521), (106, 17530), (107, 17533), (113, 17551), (119, 17584), (122, 17599), (152, 17752), (155, 17761), (167, 17806), (183, 17905), (184, 17908), (194, 17974), (207, 18049), (208, 18055), (217, 18097), (218, 18103), (219, 18106), (225, 18139), (226, 18145), (232, 18175), (237, 18196), (242, 18226), (244, 18235), (247, 18250), (248, 18253), (268, 18364), (269, 18367), (270, 18376), (271, 18382), (274, 18397), (275, 18400), (277, 18421), (285, 18451), (287, 18463), (292, 18496), (310, 18607), (311, 18610), (317, 18637), (319, 18643), (328, 18697), (329, 18700), (343, 18787), (346, 18802), (348, 18814), (349, 18817), (358, 18883), (364, 18907), (366, 18928), (368, 18937), (375, 18979), (378, 18997), (379, 19000), (385, 19030), (387, 19054), (391, 19066), (392, 19075), (406, 19171), (408, 19189), (411, 19198), (413, 19210), (417, 19246), (421, 19276), (424, 19285), (425, 19297), (433, 19357), (440, 19411), (446, 19471), (453, 19513), (470, 19648), (474, 19672), (480, 19726), (483, 19774), (489, 19816), (491, 19840), (492, 19843),

Gene: Modragons_18 Start: 17634, Stop: 20171, Start Num: 56

Candidate Starts for Modragons_18:

(Start: 56 @17634 has 208 MA's), (66, 17655), (Start: 75 @17676 has 1 MA's), (84, 17715), (104, 17784), (106, 17793), (107, 17796), (113, 17814), (122, 17862), (154, 18021), (155, 18024), (166, 18066), (167, 18069), (180, 18147), (183, 18168), (184, 18171), (194, 18237), (196, 18246), (202, 18282), (207, 18312), (208, 18318), (217, 18360), (218, 18366), (219, 18369), (225, 18402), (226, 18408), (232, 18438), (237, 18459), (242, 18489), (244, 18498), (264, 18606), (267, 18618), (268, 18627), (269, 18630), (270, 18639), (271, 18645), (274, 18660), (275, 18663), (277, 18684), (287, 18726), (292, 18759), (317, 18900), (319, 18906), (328, 18960), (329, 18963), (331, 18990), (346, 19065), (348, 19077), (349, 19080), (358, 19146), (363, 19167), (364, 19170), (366, 19191), (375, 19242), (378, 19260), (379, 19263), (385, 19293), (387, 19317), (391, 19329), (406, 19434), (408, 19452), (411, 19461), (413, 19473), (417, 19509), (421, 19539), (425, 19560), (430, 19584), (433, 19620), (446, 19734), (453, 19776), (462, 19854), (470, 19911), (474, 19935), (480, 19989), (483, 20037), (489, 20079), (491, 20103), (492, 20106),

Gene: Moldemort_27 Start: 22026, Stop: 24422, Start Num: 88

Candidate Starts for Moldemort_27:

(Start: 88 @22026 has 116 MA's), (129, 22203), (134, 22224), (173, 22371), (201, 22545), (207, 22578), (213, 22614), (232, 22707), (244, 22767), (248, 22785), (272, 22917), (280, 22962), (304, 23094), (310, 23139), (325, 23199), (342, 23313), (346, 23334), (352, 23373), (355, 23394), (357, 23409), (385, 23559), (386, 23565), (387, 23583), (397, 23637), (408, 23721), (424, 23814), (458, 24060), (483, 24276), (492, 24360), (499, 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), (5, 24302), (8, 24485), (10, 24566), (14, 24665), (15, 24689), (16, 24707), (23, 24866), (26, 24899), (37, 24947), (42, 24986), (61, 25112), (65, 25121), (109, 25307), (143, 25508), (175, 25685), (188, 25784), (196, 25817), (206, 25862), (208, 25874), (217, 25916), (218, 25922), (219, 25925), (231, 25994), (243, 26072), (244, 26078), (252, 26123), (253, 26126), (268, 26210), (282, 26279), (289, 26324), (296, 26369), (306, 26414), (308, 26435), (310, 26453), (311, 26456), (312, 26462), (313, 26465), (335, 26603), (344, 26651), (345, 26657), (357, 26738), (374, 26831), (382, 26891), (385, 26900), (386, 26906), (388, 26927), (414, 27092), (424, 27158), (425, 27170), (428, 27188), (430, 27194), (460, 27428), (463, 27467), (469, 27512), (473, 27542), (482, 27635), (486, 27662),

Gene: MooMoo_18 Start: 17135, Stop: 19570, Start Num: 56

Candidate Starts for MooMoo_18:

(Start: 56 @17135 has 208 MA's), (62, 17147), (69, 17168), (82, 17213), (87, 17231), (91, 17243), (108, 17318), (129, 17414), (136, 17441), (138, 17450), (144, 17468), (145, 17471), (149, 17480), (171, 17555), (172, 17564), (174, 17573), (191, 17651), (207, 17717), (208, 17723), (215, 17759), (216, 17762), (217, 17765), (218, 17771), (221, 17783), (222, 17792), (225, 17807), (234, 17858), (240, 17879), (241, 17882), (244, 17903), (250, 17927), (257, 17972), (268, 18032), (269, 18035), (273, 18056), (276, 18077), (283, 18110), (285, 18119), (292, 18164), (293, 18167), (294, 18173), (298, 18206), (300, 18218), (302, 18227), (304, 18230), (325, 18335), (329, 18368), (348, 18482), (356, 18536), (362, 18569), (363, 18572), (364, 18575), (365, 18593), (374, 18632), (385, 18695), (395, 18773), (398, 18791), (406, 18848), (407, 18851), (409, 18869), (418, 18929), (420, 18944), (430, 18998), (440, 19085), (452, 19190), (459, 19217), (467, 19289), (470, 19313), (483, 19430), (486, 19451), (493, 19511), (495, 19514), (499, 19541), (501, 19550),

Gene: Moonbeam_19 Start: 17889, Stop: 20426, Start Num: 56

Candidate Starts for Moonbeam_19:

(54, 17877), (Start: 56 @17889 has 208 MA's), (66, 17910), (Start: 75 @17931 has 1 MA's), (84, 17970), (104, 18039), (106, 18048), (107, 18051), (113, 18069), (119, 18102), (122, 18117), (132, 18165), (154, 18276), (155, 18279), (163, 18309), (166, 18321), (167, 18324), (180, 18402), (184, 18426), (194, 18492), (202, 18537), (207, 18567), (208, 18573), (210, 18591), (217, 18615), (219,

18624), (225, 18657), (226, 18663), (232, 18693), (241, 18732), (242, 18744), (244, 18753), (247, 18768), (248, 18771), (268, 18882), (269, 18885), (270, 18894), (271, 18900), (274, 18915), (275, 18918), (277, 18939), (285, 18969), (287, 18981), (292, 19014), (310, 19125), (311, 19128), (317, 19155), (319, 19161), (328, 19215), (329, 19218), (343, 19305), (346, 19320), (348, 19332), (349, 19335), (358, 19401), (364, 19425), (366, 19446), (368, 19455), (375, 19497), (378, 19515), (379, 19518), (386, 19554), (387, 19572), (391, 19584), (392, 19593), (396, 19620), (406, 19689), (408, 19707), (411, 19716), (413, 19728), (417, 19764), (421, 19794), (425, 19815), (430, 19839), (433, 19875), (440, 19929), (446, 19989), (453, 20031), (462, 20109), (470, 20166), (474, 20190), (480, 20244), (483, 20292), (489, 20334), (491, 20358), (492, 20361),

Gene: Mopey_30 Start: 24316, Stop: 26586, Start Num: 135

Candidate Starts for Mopey_30:

(Start: 135 @24316 has 20 MA's), (167, 24451), (169, 24460), (191, 24634), (192, 24640), (195, 24652), (224, 24805), (226, 24820), (230, 24835), (300, 25216), (301, 25222), (309, 25267), (327, 25354), (359, 25555), (360, 25561), (369, 25609), (374, 25639), (377, 25663), (405, 25852), (410, 25879), (417, 25927), (430, 25999), (434, 26038), (436, 26059), (438, 26074), (440, 26092), (442, 26122), (453, 26206), (478, 26407), (483, 26449), (502, 26575),

Gene: Mori_58 Start: 36137, Stop: 38647, Start Num: 73

Candidate Starts for Mori_58:

(Start: 73 @36137 has 22 MA's), (79, 36170), (93, 36239), (94, 36242), (102, 36266), (107, 36290), (114, 36314), (119, 36347), (159, 36554), (162, 36566), (163, 36569), (187, 36716), (188, 36746), (194, 36770), (202, 36800), (203, 36803), (207, 36830), (210, 36854), (218, 36884), (229, 36941), (233, 36965), (241, 37001), (242, 37013), (247, 37037), (248, 37040), (254, 37082), (274, 37178), (275, 37181), (323, 37436), (346, 37580), (355, 37640), (365, 37712), (366, 37715), (383, 37811), (408, 37985), (413, 38006), (426, 38099), (429, 38111), (440, 38201), (451, 38276), (461, 38321), (485, 38522), (490, 38576), (495, 38591),

Gene: Mosby_25 Start: 21791, Stop: 24187, Start Num: 88

Candidate Starts for Mosby_25:

(Start: 88 @21791 has 116 MA's), (129, 21968), (134, 21989), (173, 22136), (196, 22277), (201, 22310), (207, 22343), (213, 22379), (232, 22472), (244, 22532), (248, 22550), (272, 22682), (280, 22727), (304, 22859), (310, 22904), (342, 23078), (346, 23099), (352, 23138), (355, 23159), (357, 23174), (386, 23330), (387, 23348), (397, 23402), (408, 23486), (424, 23579), (458, 23825), (483, 24041), (492, 24125), (499, 24158),

Gene: Mova_19 Start: 17248, Stop: 19785, Start Num: 56

Candidate Starts for Mova_19:

(Start: 56 @17248 has 208 MA's), (66, 17269), (Start: 75 @17290 has 1 MA's), (84, 17329), (104, 17398), (106, 17407), (107, 17410), (113, 17428), (119, 17461), (122, 17476), (154, 17635), (155, 17638), (167, 17683), (180, 17761), (184, 17785), (194, 17851), (207, 17926), (208, 17932), (210, 17950), (217, 17974), (219, 17983), (225, 18016), (226, 18022), (232, 18052), (237, 18073), (241, 18091), (244, 18112), (247, 18127), (248, 18130), (264, 18220), (268, 18241), (269, 18244), (270, 18253), (271, 18259), (274, 18274), (275, 18277), (277, 18298), (287, 18340), (292, 18373), (304, 18439), (310, 18484), (311, 18487), (317, 18514), (319, 18520), (328, 18574), (329, 18577), (331, 18604), (343, 18664), (346, 18679), (348, 18691), (349, 18694), (358, 18760), (364, 18784), (368, 18814), (375, 18856), (378, 18874), (379, 18877), (386, 18913), (387, 18931), (391, 18943), (392, 18952), (396, 18979), (406, 19048), (408, 19066), (411, 19075), (413, 19087), (417, 19123), (421, 19153), (425, 19174), (430, 19198), (433, 19234), (440, 19288), (453, 19390), (470, 19525), (474, 19549), (480, 19603), (483, 19651), (489, 19693), (491, 19717), (492, 19720),

Gene: Mozy_19 Start: 17298, Stop: 19835, Start Num: 56

Candidate Starts for Mozy_19:

(Start: 56 @17298 has 208 MA's), (66, 17319), (Start: 75 @17340 has 1 MA's), (84, 17379), (104, 17448), (106, 17457), (107, 17460), (113, 17478), (119, 17511), (122, 17526), (154, 17685), (155, 17688), (163, 17718), (167, 17733), (180, 17811), (183, 17832), (184, 17835), (194, 17901), (207, 17976), (208, 17982), (217, 18024), (218, 18030), (219, 18033), (225, 18066), (226, 18072), (232, 18102), (237, 18123), (242, 18153), (244, 18162), (268, 18291), (269, 18294), (270, 18303), (271, 18309), (274, 18324), (275, 18327), (277, 18348), (285, 18378), (287, 18390), (292, 18423), (293, 18426), (304, 18489), (317, 18564), (319, 18570), (328, 18624), (329, 18627), (331, 18654), (346, 18729), (348, 18741), (349, 18744), (358, 18810), (364, 18834), (368, 18864), (378, 18924), (379, 18927), (386, 18963), (387, 18981), (392, 19002), (406, 19098), (408, 19116), (411, 19125), (413, 19137), (417, 19173), (425, 19224), (433, 19284), (440, 19338), (453, 19440), (462, 19518), (470, 19575), (474, 19599), (480, 19653), (483, 19701), (489, 19743), (491, 19767), (492, 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), (27, 21191), (28, 21194), (32, 21200), (36, 21227), (40, 21245), (127, 21695), (130, 21716), (141, 21782), (167, 21902), (177, 21971), (178, 21977), (198, 22121), (205, 22154), (212, 22196), (228, 22271), (244, 22358), (260, 22445), (261, 22448), (263, 22460), (287, 22586), (292, 22619), (305, 22691), (310, 22730), (364, 23030), (377, 23120), (384, 23156), (479, 23810),

Gene: Murai_59 Start: 36318, Stop: 38828, Start Num: 73

Candidate Starts for Murai_59:

(Start: 73 @36318 has 22 MA's), (79, 36351), (93, 36420), (94, 36423), (102, 36447), (107, 36471), (114, 36495), (119, 36528), (159, 36735), (162, 36747), (163, 36750), (187, 36897), (188, 36927), (194, 36951), (202, 36981), (203, 36984), (207, 37011), (210, 37035), (218, 37065), (229, 37122), (241, 37182), (242, 37194), (247, 37218), (248, 37221), (254, 37263), (274, 37359), (275, 37362), (323, 37617), (346, 37761), (355, 37821), (365, 37893), (366, 37896), (383, 37992), (408, 38166), (413, 38187), (426, 38280), (429, 38292), (440, 38382), (451, 38457), (461, 38502), (485, 38703), (490, 38757), (495, 38772),

Gene: Murica_25 Start: 22268, Stop: 24664, Start Num: 88

Candidate Starts for Murica_25:

(Start: 88 @22268 has 116 MA's), (129, 22445), (134, 22466), (173, 22613), (196, 22754), (201, 22787), (207, 22820), (213, 22856), (232, 22949), (244, 23009), (248, 23027), (272, 23159), (280, 23204), (304, 23336), (310, 23381), (325, 23441), (342, 23555), (346, 23576), (352, 23615), (355, 23636), (357, 23651), (385, 23801), (386, 23807), (387, 23825), (397, 23879), (408, 23963), (424, 24056), (458, 24302), (483, 24518), (492, 24602), (499, 24635),

Gene: Murphy_27 Start: 22263, Stop: 24659, Start Num: 88

Candidate Starts for Murphy_27:

(Start: 88 @22263 has 116 MA's), (129, 22440), (134, 22461), (173, 22608), (196, 22749), (201, 22782), (207, 22815), (213, 22851), (232, 22944), (244, 23004), (248, 23022), (272, 23154), (280, 23199), (304, 23331), (310, 23376), (325, 23436), (342, 23550), (346, 23571), (352, 23610), (355, 23631), (357, 23646), (385, 23796), (386, 23802), (387, 23820), (397, 23874), (408, 23958), (424, 24051), (458, 24297), (483, 24513), (492, 24597), (499, 24630),

Gene: Mutaforma13_18 Start: 17444, Stop: 19981, Start Num: 56

Candidate Starts for Mutaforma13_18:

(54, 17432), (Start: 56 @17444 has 208 MA's), (66, 17465), (Start: 75 @17486 has 1 MA's), (83, 17522), (84, 17525), (104, 17594), (106, 17603), (107, 17606), (113, 17624), (119, 17657), (122, 17672), (132, 17720), (152, 17825), (154, 17831), (155, 17834), (163, 17864), (166, 17876), (167, 17879), (184, 17981), (194, 18047), (202, 18092), (207, 18122), (208, 18128), (210, 18146), (217, 18170), (219, 18179), (225, 18212), (226, 18218), (237, 18269), (241, 18287), (242, 18299), (244,

18308), (247, 18323), (249, 18329), (268, 18437), (270, 18449), (271, 18455), (274, 18470), (275, 18473), (277, 18494), (285, 18524), (287, 18536), (292, 18569), (304, 18635), (310, 18680), (311, 18683), (317, 18710), (319, 18716), (328, 18770), (329, 18773), (331, 18800), (346, 18875), (348, 18887), (349, 18890), (358, 18956), (364, 18980), (368, 19010), (375, 19052), (378, 19070), (379, 19073), (386, 19109), (387, 19127), (392, 19148), (396, 19175), (406, 19244), (408, 19262), (411, 19271), (413, 19283), (417, 19319), (425, 19370), (428, 19388), (433, 19430), (440, 19484), (453, 19586), (470, 19721), (474, 19745), (480, 19799), (483, 19847), (489, 19889), (491, 19913), (492, 19916),

Gene: Myrale_26 Start: 22154, Stop: 24550, Start Num: 88

Candidate Starts for Myrale_26:

(Start: 88 @22154 has 116 MA's), (129, 22331), (134, 22352), (173, 22499), (196, 22640), (201, 22673), (207, 22706), (213, 22742), (232, 22835), (244, 22895), (248, 22913), (263, 22994), (304, 23222), (310, 23267), (346, 23462), (347, 23468), (349, 23477), (355, 23522), (357, 23537), (386, 23693), (387, 23711), (390, 23720), (398, 23774), (408, 23849), (409, 23852), (439, 24062), (441, 24074), (458, 24188), (483, 24404), (492, 24488), (497, 24512), (499, 24521),

Gene: Nala_26 Start: 22310, Stop: 24706, Start Num: 88

Candidate Starts for Nala_26:

(Start: 88 @22310 has 116 MA's), (129, 22487), (134, 22508), (173, 22655), (196, 22796), (201, 22829), (207, 22862), (213, 22898), (232, 22991), (244, 23051), (248, 23069), (272, 23201), (280, 23246), (304, 23378), (310, 23423), (325, 23483), (342, 23597), (346, 23618), (352, 23657), (355, 23678), (357, 23693), (385, 23843), (386, 23849), (387, 23867), (397, 23921), (408, 24005), (424, 24098), (458, 24344), (483, 24560), (492, 24644), (499, 24677),

Gene: Nebkiss_22 Start: 19932, Stop: 22502, Start Num: 52

Candidate Starts for Nebkiss_22:

(Start: 52 @19932 has 2 MA's), (70, 19989), (80, 20022), (101, 20100), (103, 20103), (116, 20157), (118, 20169), (128, 20217), (133, 20262), (150, 20334), (155, 20355), (161, 20376), (166, 20397), (167, 20400), (175, 20445), (188, 20544), (199, 20589), (208, 20634), (219, 20685), (222, 20703), (244, 20808), (245, 20814), (247, 20823), (248, 20826), (253, 20853), (256, 20874), (263, 20907), (264, 20916), (268, 20937), (270, 20949), (274, 20970), (285, 21024), (287, 21036), (292, 21069), (306, 21144), (309, 21171), (330, 21294), (337, 21321), (340, 21345), (346, 21375), (350, 21399), (356, 21441), (357, 21450), (376, 21579), (381, 21606), (391, 21657), (407, 21768), (408, 21783), (449, 22074), (470, 22242), (474, 22266), (489, 22410), (492, 22437), (494, 22443), (495, 22446),

Gene: NelitzaMV_26 Start: 22353, Stop: 24749, Start Num: 88

Candidate Starts for NelitzaMV_26:

(Start: 88 @22353 has 116 MA's), (129, 22530), (134, 22551), (173, 22698), (196, 22839), (201, 22872), (207, 22905), (213, 22941), (232, 23034), (244, 23094), (248, 23112), (276, 23268), (280, 23289), (300, 23409), (304, 23421), (310, 23466), (346, 23661), (349, 23676), (355, 23721), (357, 23736), (386, 23892), (387, 23910), (390, 23919), (408, 24048), (409, 24051), (439, 24261), (441, 24273), (458, 24387), (483, 24603), (492, 24687), (497, 24711), (499, 24720),

Gene: NiebruSaylor_57 Start: 35525, Stop: 38035, Start Num: 73

Candidate Starts for NiebruSaylor_57:

(Start: 73 @35525 has 22 MA's), (79, 35558), (93, 35627), (94, 35630), (102, 35654), (107, 35678), (114, 35702), (119, 35735), (159, 35942), (162, 35954), (163, 35957), (187, 36104), (188, 36134), (194, 36158), (202, 36188), (203, 36191), (207, 36218), (210, 36242), (218, 36272), (229, 36329), (233, 36353), (241, 36389), (242, 36401), (247, 36425), (248, 36428), (254, 36470), (274, 36566), (275, 36569), (323, 36824), (346, 36968), (355, 37028), (365, 37100), (366, 37103), (383, 37199), (408, 37373), (413, 37394), (426, 37487), (429, 37499), (440, 37589), (451, 37664), (461, 37709), (485, 37910), (490, 37964), (495, 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), (5, 24658), (8, 24841), (10, 24922), (14, 25021), (15, 25045), (16, 25063), (23, 25222), (26, 25255), (37, 25303), (42, 25342), (61, 25468), (65, 25477), (109, 25663), (143, 25864), (175, 26041), (188, 26140), (196, 26173), (206, 26218), (208, 26230), (217, 26272), (220, 26284), (231, 26350), (244, 26434), (246, 26449), (252, 26479), (271, 26584), (282, 26635), (289, 26680), (296, 26725), (306, 26770), (308, 26791), (310, 26809), (311, 26812), (312, 26818), (313, 26821), (335, 26959), (344, 27007), (345, 27013), (357, 27094), (374, 27187), (382, 27247), (385, 27256), (386, 27262), (388, 27283), (414, 27448), (424, 27514), (425, 27526), (428, 27544), (430, 27550), (460, 27784), (463, 27823), (469, 27868), (473, 27898), (482, 27991), (486, 28018),

Gene: Nimbo_18 Start: 17400, Stop: 19937, Start Num: 56

Candidate Starts for Nimbo_18:

(Start: 56 @17400 has 208 MA's), (66, 17421), (Start: 75 @17442 has 1 MA's), (84, 17481), (104, 17550), (106, 17559), (107, 17562), (113, 17580), (122, 17628), (132, 17676), (154, 17787), (155, 17790), (167, 17835), (180, 17913), (184, 17937), (194, 18003), (207, 18078), (208, 18084), (210, 18102), (217, 18126), (219, 18135), (225, 18168), (226, 18174), (232, 18204), (237, 18225), (242, 18255), (244, 18264), (264, 18372), (267, 18384), (268, 18393), (269, 18396), (271, 18411), (274, 18426), (275, 18429), (277, 18450), (287, 18492), (292, 18525), (310, 18636), (311, 18639), (317, 18666), (319, 18672), (328, 18726), (329, 18729), (331, 18756), (346, 18831), (348, 18843), (349, 18846), (358, 18912), (363, 18933), (364, 18936), (366, 18957), (368, 18966), (375, 19008), (378, 19026), (379, 19029), (385, 19059), (387, 19083), (391, 19095), (392, 19104), (406, 19200), (408, 19218), (411, 19227), (413, 19239), (417, 19275), (421, 19305), (424, 19314), (425, 19326), (433, 19386), (440, 19440), (446, 19500), (453, 19542), (470, 19677), (474, 19701), (480, 19755), (483, 19803), (489, 19845), (491, 19869), (492, 19872),

Gene: Nimrod_26 Start: 22529, Stop: 24925, Start Num: 88

Candidate Starts for Nimrod_26:

(Start: 88 @22529 has 116 MA's), (129, 22706), (134, 22727), (173, 22874), (196, 23015), (201, 23048), (207, 23081), (213, 23117), (232, 23210), (244, 23270), (248, 23288), (272, 23420), (280, 23465), (304, 23597), (310, 23642), (325, 23702), (342, 23816), (346, 23837), (352, 23876), (355, 23897), (357, 23912), (385, 24062), (386, 24068), (387, 24086), (397, 24140), (408, 24224), (424, 24317), (458, 24563), (483, 24779), (492, 24863), (499, 24896),

Gene: Nitzel_19 Start: 18136, Stop: 20673, Start Num: 56

Candidate Starts for Nitzel_19:

(Start: 56 @18136 has 208 MA's), (66, 18157), (Start: 75 @18178 has 1 MA's), (84, 18217), (104, 18286), (106, 18295), (107, 18298), (113, 18316), (119, 18349), (122, 18364), (132, 18412), (152, 18517), (154, 18523), (155, 18526), (166, 18568), (167, 18571), (184, 18673), (194, 18739), (202, 18784), (207, 18814), (208, 18820), (210, 18838), (217, 18862), (219, 18871), (225, 18904), (226, 18910), (237, 18961), (241, 18979), (242, 18991), (244, 19000), (247, 19015), (249, 19021), (268, 19129), (270, 19141), (271, 19147), (274, 19162), (275, 19165), (277, 19186), (285, 19216), (287, 19228), (292, 19261), (304, 19327), (310, 19372), (311, 19375), (317, 19402), (319, 19408), (328, 19462), (329, 19465), (331, 19492), (346, 19567), (348, 19579), (349, 19582), (358, 19648), (364, 19672), (368, 19702), (375, 19744), (378, 19762), (379, 19765), (386, 19801), (387, 19819), (391, 19831), (392, 19840), (396, 19867), (406, 19936), (408, 19954), (411, 19963), (413, 19975), (417, 20011), (425, 20062), (428, 20080), (433, 20122), (440, 20176), (446, 20236), (453, 20278), (470, 20413), (474, 20437), (480, 20491), (483, 20539), (489, 20581), (491, 20605), (492, 20608),

Gene: Nivrat_18 Start: 17405, Stop: 19930, Start Num: 56

Candidate Starts for Nivrat_18:

(Start: 56 @17405 has 208 MA's), (84, 17486), (104, 17555), (106, 17564), (107, 17567), (113, 17585), (122, 17633), (131, 17678), (154, 17792), (155, 17795), (158, 17807), (164, 17828), (166, 17837), (167, 17840), (176, 17888), (180, 17918), (188, 17984), (196, 18017), (202, 18053), (206, 18077), (218, 18137), (219, 18140), (222, 18158), (235, 18221), (236, 18224), (241, 18242), (244, 18263), (248, 18281), (253, 18308), (256, 18329), (263, 18362), (271, 18410), (272, 18413), (274, 18425), (275, 18428), (279, 18455), (285, 18479), (292, 18524), (313, 18650), (318, 18674), (338, 18782), (346, 18833), (348, 18845), (349, 18848), (355, 18893), (357, 18908), (363, 18935), (366, 18959), (375, 19010), (378, 19028), (379, 19031), (380, 19043), (391, 19097), (397, 19139), (418, 19283), (426, 19337), (427, 19343), (428, 19346), (431, 19382), (432, 19385), (435, 19394), (437, 19421), (465, 19622), (483, 19793), (488, 19832), (494, 19871), (495, 19874),

Gene: NoSleep_27 Start: 22023, Stop: 24419, Start Num: 88

Candidate Starts for NoSleep_27:

(Start: 88 @22023 has 116 MA's), (129, 22200), (134, 22221), (173, 22368), (201, 22542), (207, 22575), (213, 22611), (232, 22704), (244, 22764), (248, 22782), (272, 22914), (280, 22959), (304, 23091), (310, 23136), (325, 23196), (342, 23310), (346, 23331), (352, 23370), (355, 23391), (357, 23406), (385, 23556), (386, 23562), (387, 23580), (397, 23634), (408, 23718), (424, 23811), (458, 24057), (483, 24273), (492, 24357), (499, 24390),

Gene: NormanBulbieJr_18 Start: 17393, Stop: 19945, Start Num: 56

Candidate Starts for NormanBulbieJr_18:

(Start: 56 @17393 has 208 MA's), (84, 17474), (104, 17543), (106, 17552), (107, 17555), (113, 17573), (122, 17621), (131, 17666), (154, 17780), (155, 17783), (158, 17795), (164, 17816), (166, 17825), (167, 17828), (176, 17876), (180, 17906), (188, 17972), (196, 18005), (202, 18041), (206, 18065), (218, 18125), (219, 18128), (222, 18146), (235, 18209), (236, 18212), (241, 18230), (244, 18251), (248, 18269), (253, 18296), (256, 18317), (263, 18350), (270, 18392), (271, 18398), (272, 18401), (275, 18416), (279, 18443), (280, 18446), (285, 18467), (287, 18479), (292, 18512), (308, 18605), (328, 18713), (330, 18737), (331, 18743), (336, 18761), (337, 18764), (340, 18788), (346, 18818), (350, 18842), (355, 18878), (356, 18884), (357, 18893), (363, 18920), (373, 18983), (375, 19007), (376, 19022), (385, 19064), (393, 19115), (407, 19211), (408, 19226), (411, 19235), (415, 19259), (424, 19322), (430, 19358), (468, 19664), (474, 19709), (483, 19811),

Gene: Nova_30 Start: 24743, Stop: 27013, Start Num: 135

Candidate Starts for Nova_30:

(Start: 135 @24743 has 20 MA's), (167, 24878), (169, 24887), (191, 25061), (192, 25067), (195, 25079), (224, 25232), (226, 25247), (230, 25262), (252, 25376), (300, 25643), (301, 25649), (309, 25694), (327, 25781), (359, 25982), (360, 25988), (369, 26036), (374, 26066), (377, 26090), (405, 26279), (410, 26306), (417, 26354), (430, 26426), (434, 26465), (436, 26486), (438, 26501), (440, 26519), (442, 26549), (478, 26834), (483, 26876), (502, 27002),

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

Candidate Starts for Oaker_29:

(Start: 22 @25939 has 7 MA's), (43, 26071), (45, 26083), (46, 26092), (53, 26161), (55, 26167), (77, 26227), (81, 26248), (91, 26296), (98, 26338), (105, 26362), (115, 26395), (120, 26431), (123, 26443), (142, 26536), (155, 26593), (165, 26632), (196, 26827), (200, 26857), (208, 26899), (219, 26950), (237, 27040), (241, 27058), (254, 27139), (263, 27178), (267, 27199), (292, 27337), (297, 27376), (309, 27439), (329, 27541), (365, 27766), (422, 28129), (426, 28156), (464, 28399), (468, 28432), (471, 28456), (483, 28576), (493, 28654), (504, 28741), (505, 28756), (506, 28762),

Gene: Ochi17_18 Start: 17634, Stop: 20171, Start Num: 56

Candidate Starts for Ochi17_18:

(Start: 56 @17634 has 208 MA's), (66, 17655), (Start: 75 @17676 has 1 MA's), (84, 17715), (104, 17784), (106, 17793), (107, 17796), (113, 17814), (122, 17862), (154, 18021), (155, 18024), (166,

18066), (167, 18069), (180, 18147), (183, 18168), (184, 18171), (194, 18237), (196, 18246), (202, 18282), (207, 18312), (208, 18318), (217, 18360), (218, 18366), (219, 18369), (225, 18402), (226, 18408), (232, 18438), (237, 18459), (242, 18489), (244, 18498), (264, 18606), (267, 18618), (268, 18627), (269, 18630), (270, 18639), (271, 18645), (274, 18660), (275, 18663), (277, 18684), (287, 18726), (292, 18759), (317, 18900), (319, 18906), (328, 18960), (329, 18963), (331, 18990), (346, 19065), (348, 19077), (349, 19080), (358, 19146), (363, 19167), (364, 19170), (366, 19191), (375, 19242), (378, 19260), (379, 19263), (385, 19293), (387, 19317), (391, 19329), (406, 19434), (408, 19452), (411, 19461), (413, 19473), (417, 19509), (421, 19539), (425, 19560), (430, 19584), (433, 19620), (446, 19734), (453, 19776), (462, 19854), (470, 19911), (474, 19935), (480, 19989), (483, 20037), (489, 20079), (491, 20103), (492, 20106),

Gene: OfUltron_18 Start: 17634, Stop: 20171, Start Num: 56

Candidate Starts for OfUltron_18:

(Start: 56 @17634 has 208 MA's), (66, 17655), (Start: 75 @17676 has 1 MA's), (84, 17715), (104, 17784), (106, 17793), (107, 17796), (113, 17814), (122, 17862), (154, 18021), (155, 18024), (166, 18066), (167, 18069), (180, 18147), (183, 18168), (184, 18171), (194, 18237), (196, 18246), (202, 18282), (207, 18312), (208, 18318), (217, 18360), (218, 18366), (219, 18369), (225, 18402), (226, 18408), (232, 18438), (237, 18459), (242, 18489), (244, 18498), (264, 18606), (267, 18618), (268, 18627), (269, 18630), (270, 18639), (271, 18645), (274, 18660), (275, 18663), (277, 18684), (287, 18726), (292, 18759), (317, 18900), (319, 18906), (328, 18960), (329, 18963), (331, 18990), (346, 19065), (348, 19077), (349, 19080), (358, 19146), (363, 19167), (364, 19170), (366, 19191), (375, 19242), (378, 19260), (379, 19263), (385, 19293), (387, 19317), (391, 19329), (406, 19434), (408, 19452), (411, 19461), (413, 19473), (417, 19509), (421, 19539), (425, 19560), (430, 19584), (433, 19620), (446, 19734), (453, 19776), (462, 19854), (470, 19911), (474, 19935), (480, 19989), (483, 20037), (489, 20079), (491, 20103), (492, 20106),

Gene: Ogopogo_21 Start: 17660, Stop: 20149, Start Num: 56

Candidate Starts for Ogopogo_21:

(Start: 56 @17660 has 208 MA's), (66, 17681), (Start: 75 @17702 has 1 MA's), (85, 17741), (104, 17810), (106, 17819), (107, 17822), (113, 17840), (122, 17888), (133, 17936), (147, 17990), (155, 18026), (156, 18032), (157, 18035), (164, 18053), (171, 18077), (175, 18101), (186, 18164), (199, 18248), (202, 18257), (207, 18281), (210, 18305), (217, 18329), (218, 18335), (222, 18356), (226, 18377), (232, 18407), (239, 18437), (242, 18458), (260, 18551), (263, 18566), (264, 18575), (268, 18596), (269, 18599), (285, 18683), (286, 18686), (287, 18695), (290, 18722), (293, 18731), (298, 18770), (302, 18791), (304, 18794), (309, 18830), (313, 18851), (328, 18929), (329, 18932), (339, 18986), (348, 19046), (364, 19139), (365, 19157), (366, 19160), (374, 19196), (382, 19250), (385, 19259), (395, 19337), (398, 19355), (401, 19391), (402, 19394), (406, 19412), (407, 19415), (408, 19430), (413, 19451), (417, 19487), (419, 19499), (430, 19562), (433, 19595), (443, 19682), (450, 19730), (452, 19754), (456, 19781), (458, 19790), (461, 19829), (467, 19868), (470, 19892), (473, 19913), (483, 20009), (486, 20030), (495, 20093), (499, 20120), (501, 20129),

Gene: Oksu_19 Start: 17479, Stop: 20016, Start Num: 56

Candidate Starts for Oksu_19:

(Start: 56 @17479 has 208 MA's), (66, 17500), (Start: 75 @17521 has 1 MA's), (84, 17560), (104, 17629), (106, 17638), (107, 17641), (113, 17659), (122, 17707), (152, 17860), (155, 17869), (167, 17914), (183, 18013), (184, 18016), (194, 18082), (207, 18157), (208, 18163), (210, 18181), (217, 18205), (218, 18211), (219, 18214), (225, 18247), (226, 18253), (232, 18283), (237, 18304), (242, 18334), (244, 18343), (247, 18358), (248, 18361), (268, 18472), (269, 18475), (270, 18484), (271, 18490), (274, 18505), (275, 18508), (277, 18529), (287, 18571), (292, 18604), (317, 18745), (319, 18751), (328, 18805), (329, 18808), (331, 18835), (346, 18910), (348, 18922), (349, 18925), (358, 18991), (363, 19012), (364, 19015), (366, 19036), (375, 19087), (378, 19105), (379, 19108), (385, 19138), (387, 19162), (391, 19174), (406, 19279), (408, 19297), (411, 19306), (413, 19318), (417, 19354), (421, 19384), (425, 19405), (430, 19429), (433, 19465), (446, 19579), (453, 19621), (462,

19699), (470, 19756), (474, 19780), (480, 19834), (483, 19882), (489, 19924), (491, 19948), (492, 19951),

Gene: OldBen_18 Start: 17370, Stop: 19907, Start Num: 56

Candidate Starts for OldBen_18:

(54, 17358), (Start: 56 @17370 has 208 MA's), (66, 17391), (Start: 75 @17412 has 1 MA's), (84, 17451), (104, 17520), (106, 17529), (107, 17532), (113, 17550), (122, 17598), (132, 17646), (154, 17757), (155, 17760), (167, 17805), (180, 17883), (184, 17907), (194, 17973), (202, 18018), (207, 18048), (208, 18054), (210, 18072), (217, 18096), (219, 18105), (225, 18138), (226, 18144), (232, 18174), (241, 18213), (242, 18225), (244, 18234), (247, 18249), (248, 18252), (268, 18363), (269, 18366), (270, 18375), (271, 18381), (274, 18396), (275, 18399), (277, 18420), (285, 18450), (287, 18462), (292, 18495), (310, 18606), (311, 18609), (317, 18636), (319, 18642), (328, 18696), (329, 18699), (346, 18801), (348, 18813), (349, 18816), (358, 18882), (364, 18906), (366, 18927), (368, 18936), (378, 18996), (379, 18999), (386, 19035), (387, 19053), (392, 19074), (396, 19101), (406, 19170), (408, 19188), (411, 19197), (413, 19209), (417, 19245), (425, 19296), (428, 19314), (433, 19356), (440, 19410), (453, 19512), (470, 19647), (474, 19671), (480, 19725), (486, 19794), (491, 19839), (492, 19842),

Gene: OlympiaSaint_18 Start: 17593, Stop: 20145, Start Num: 56

Candidate Starts for OlympiaSaint_18:

(Start: 56 @17593 has 208 MA's), (84, 17674), (104, 17743), (106, 17752), (107, 17755), (113, 17773), (122, 17821), (131, 17866), (154, 17980), (155, 17983), (158, 17995), (164, 18016), (166, 18025), (167, 18028), (176, 18076), (180, 18106), (188, 18172), (196, 18205), (202, 18241), (206, 18265), (218, 18325), (219, 18328), (222, 18346), (235, 18409), (236, 18412), (241, 18430), (244, 18451), (248, 18469), (253, 18496), (256, 18517), (263, 18550), (270, 18592), (271, 18598), (272, 18601), (275, 18616), (279, 18643), (280, 18646), (285, 18667), (287, 18679), (292, 18712), (308, 18805), (328, 18913), (330, 18937), (331, 18943), (336, 18961), (337, 18964), (340, 18988), (346, 19018), (350, 19042), (355, 19078), (356, 19084), (357, 19093), (363, 19120), (373, 19183), (375, 19207), (376, 19222), (385, 19264), (393, 19315), (407, 19411), (408, 19426), (411, 19435), (415, 19459), (424, 19522), (430, 19558), (468, 19864), (474, 19909), (483, 20011),

Gene: Omega_38 Start: 31431, Stop: 33986, Start Num: 56

Candidate Starts for Omega_38:

(Start: 56 @31431 has 208 MA's), (113, 31626), (119, 31662), (122, 31677), (132, 31725), (154, 31836), (155, 31839), (163, 31869), (167, 31884), (180, 31962), (184, 31986), (194, 32052), (202, 32097), (207, 32127), (208, 32133), (210, 32151), (217, 32175), (219, 32184), (225, 32217), (226, 32223), (232, 32253), (241, 32292), (242, 32304), (244, 32313), (247, 32328), (248, 32331), (268, 32442), (269, 32445), (270, 32454), (271, 32460), (274, 32475), (275, 32478), (277, 32499), (285, 32529), (287, 32541), (292, 32574), (304, 32640), (310, 32685), (311, 32688), (317, 32715), (319, 32721), (328, 32775), (329, 32778), (343, 32865), (346, 32880), (348, 32892), (349, 32895), (358, 32961), (366, 33006), (368, 33015), (378, 33075), (379, 33078), (386, 33114), (387, 33132), (391, 33144), (392, 33153), (396, 33180), (406, 33249), (408, 33267), (411, 33276), (413, 33288), (417, 33324), (421, 33354), (425, 33375), (430, 33399), (433, 33435), (440, 33489), (446, 33549), (453, 33591), (470, 33726), (474, 33750), (480, 33804), (483, 33852), (489, 33894), (491, 33918), (492, 33921),

Gene: Optimus_37 Start: 30775, Stop: 33330, Start Num: 56

Candidate Starts for Optimus_37:

(50, 30718), (Start: 56 @30775 has 208 MA's), (113, 30970), (119, 31006), (122, 31021), (132, 31069), (152, 31174), (155, 31183), (167, 31228), (183, 31327), (184, 31330), (194, 31396), (207, 31471), (208, 31477), (210, 31495), (217, 31519), (219, 31528), (225, 31561), (226, 31567), (232, 31597), (241, 31636), (242, 31648), (244, 31657), (268, 31786), (269, 31789), (270, 31798), (271, 31804), (274, 31819), (275, 31822), (277, 31843), (285, 31873), (287, 31885), (292, 31918), (310,

32029), (311, 32032), (317, 32059), (319, 32065), (328, 32119), (329, 32122), (346, 32224), (348, 32236), (349, 32239), (358, 32305), (364, 32329), (366, 32350), (375, 32401), (378, 32419), (379, 32422), (385, 32452), (387, 32476), (391, 32488), (392, 32497), (406, 32593), (408, 32611), (411, 32620), (413, 32632), (421, 32698), (424, 32707), (425, 32719), (433, 32779), (453, 32935), (470, 33070), (474, 33094), (480, 33148), (486, 33217), (491, 33262), (492, 33265),

Gene: OrionPax_27 Start: 22029, Stop: 24425, Start Num: 88

Candidate Starts for OrionPax_27:

(Start: 88 @22029 has 116 MA's), (129, 22206), (134, 22227), (173, 22374), (201, 22548), (207, 22581), (213, 22617), (232, 22710), (244, 22770), (248, 22788), (272, 22920), (280, 22965), (304, 23097), (310, 23142), (325, 23202), (342, 23316), (346, 23337), (352, 23376), (355, 23397), (357, 23412), (385, 23562), (386, 23568), (387, 23586), (397, 23640), (408, 23724), (424, 23817), (458, 24063), (483, 24279), (492, 24363), (499, 24396),

Gene: Ovechkin_18 Start: 17427, Stop: 19964, Start Num: 56

Candidate Starts for Ovechkin_18:

(Start: 56 @17427 has 208 MA's), (66, 17448), (Start: 75 @17469 has 1 MA's), (83, 17505), (84, 17508), (104, 17577), (106, 17586), (107, 17589), (113, 17607), (119, 17640), (122, 17655), (132, 17703), (154, 17814), (155, 17817), (163, 17847), (166, 17859), (167, 17862), (180, 17940), (184, 17964), (194, 18030), (202, 18075), (207, 18105), (208, 18111), (210, 18129), (217, 18153), (219, 18162), (225, 18195), (226, 18201), (232, 18231), (241, 18270), (242, 18282), (244, 18291), (247, 18306), (248, 18309), (268, 18420), (269, 18423), (270, 18432), (271, 18438), (274, 18453), (275, 18456), (277, 18477), (285, 18507), (287, 18519), (292, 18552), (310, 18663), (311, 18666), (317, 18693), (319, 18699), (328, 18753), (329, 18756), (346, 18858), (348, 18870), (349, 18873), (358, 18939), (364, 18963), (366, 18984), (368, 18993), (378, 19053), (379, 19056), (386, 19092), (387, 19110), (391, 19122), (392, 19131), (396, 19158), (406, 19227), (408, 19245), (411, 19254), (413, 19266), (417, 19302), (421, 19332), (425, 19353), (430, 19377), (433, 19413), (440, 19467), (446, 19527), (453, 19569), (462, 19647), (470, 19704), (474, 19728), (480, 19782), (483, 19830), (489, 19872), (491, 19896), (492, 19899),

Gene: OwlsT2W_20 Start: 17765, Stop: 20317, Start Num: 56

Candidate Starts for OwlsT2W_20:

(Start: 56 @17765 has 208 MA's), (90, 17855), (104, 17915), (106, 17924), (107, 17927), (113, 17945), (122, 17993), (131, 18038), (154, 18152), (155, 18155), (158, 18167), (164, 18188), (166, 18197), (167, 18200), (180, 18278), (188, 18344), (196, 18377), (202, 18413), (206, 18437), (218, 18497), (219, 18500), (222, 18518), (235, 18581), (236, 18584), (241, 18602), (244, 18623), (248, 18641), (253, 18668), (256, 18689), (263, 18722), (270, 18764), (271, 18770), (272, 18773), (275, 18788), (279, 18815), (280, 18818), (285, 18839), (287, 18851), (292, 18884), (308, 18977), (328, 19085), (330, 19109), (331, 19115), (336, 19133), (337, 19136), (340, 19160), (346, 19190), (350, 19214), (355, 19250), (356, 19256), (357, 19265), (363, 19292), (373, 19355), (375, 19379), (376, 19394), (385, 19436), (393, 19487), (407, 19583), (408, 19598), (411, 19607), (415, 19631), (424, 19694), (430, 19730), (468, 20036), (474, 20081), (483, 20183),

Gene: PBI1_30 Start: 24247, Stop: 26517, Start Num: 135

Candidate Starts for PBI1_30:

(Start: 135 @24247 has 20 MA's), (167, 24382), (169, 24391), (191, 24565), (192, 24571), (195, 24583), (224, 24736), (226, 24751), (230, 24766), (300, 25147), (301, 25153), (309, 25198), (327, 25285), (359, 25486), (360, 25492), (369, 25540), (374, 25570), (377, 25594), (405, 25783), (410, 25810), (417, 25858), (430, 25930), (434, 25969), (436, 25990), (438, 26005), (440, 26023), (442, 26053), (453, 26137), (478, 26338), (483, 26380), (502, 26506),

Gene: PHappiness_18 Start: 17378, Stop: 19915, Start Num: 56

Candidate Starts for PHappiness_18:

(54, 17366), (Start: 56 @17378 has 208 MA's), (66, 17399), (Start: 75 @17420 has 1 MA's), (84, 17459), (104, 17528), (106, 17537), (107, 17540), (113, 17558), (122, 17606), (132, 17654), (154, 17765), (155, 17768), (167, 17813), (180, 17891), (184, 17915), (194, 17981), (202, 18026), (207, 18056), (208, 18062), (210, 18080), (217, 18104), (219, 18113), (225, 18146), (226, 18152), (232, 18182), (241, 18221), (242, 18233), (244, 18242), (247, 18257), (248, 18260), (268, 18371), (269, 18374), (270, 18383), (271, 18389), (274, 18404), (275, 18407), (277, 18428), (285, 18458), (287, 18470), (292, 18503), (310, 18614), (311, 18617), (317, 18644), (319, 18650), (328, 18704), (329, 18707), (346, 18809), (348, 18821), (349, 18824), (358, 18890), (364, 18914), (366, 18935), (368, 18944), (378, 19004), (379, 19007), (386, 19043), (387, 19061), (392, 19082), (396, 19109), (406, 19178), (408, 19196), (411, 19205), (413, 19217), (417, 19253), (425, 19304), (428, 19322), (433, 19364), (440, 19418), (453, 19520), (470, 19655), (474, 19679), (480, 19733), (486, 19802), (491, 19847), (492, 19850),

Gene: PLOT_31 Start: 24319, Stop: 26589, Start Num: 135

Candidate Starts for PLOT_31:

(Start: 135 @24319 has 20 MA's), (167, 24454), (169, 24463), (191, 24637), (192, 24643), (195, 24655), (224, 24808), (226, 24823), (230, 24838), (300, 25219), (301, 25225), (309, 25270), (327, 25357), (359, 25558), (360, 25564), (369, 25612), (374, 25642), (377, 25666), (405, 25855), (410, 25882), (417, 25930), (430, 26002), (434, 26041), (436, 26062), (438, 26077), (440, 26095), (442, 26125), (453, 26209), (478, 26410), (483, 26452), (502, 26578),

Gene: PMC_18 Start: 17383, Stop: 19920, Start Num: 56

Candidate Starts for PMC_18:

(Start: 56 @17383 has 208 MA's), (90, 17473), (104, 17533), (106, 17542), (107, 17545), (113, 17563), (122, 17611), (132, 17659), (152, 17764), (154, 17770), (155, 17773), (166, 17815), (167, 17818), (184, 17920), (194, 17986), (202, 18031), (207, 18061), (208, 18067), (210, 18085), (217, 18109), (219, 18118), (225, 18151), (226, 18157), (237, 18208), (241, 18226), (242, 18238), (244, 18247), (247, 18262), (249, 18268), (268, 18376), (270, 18388), (271, 18394), (274, 18409), (275, 18412), (277, 18433), (285, 18463), (287, 18475), (292, 18508), (304, 18574), (310, 18619), (311, 18622), (317, 18649), (319, 18655), (328, 18709), (329, 18712), (331, 18739), (346, 18814), (348, 18826), (349, 18829), (358, 18895), (363, 18916), (364, 18919), (368, 18949), (375, 18991), (378, 19009), (379, 19012), (385, 19042), (387, 19066), (391, 19078), (392, 19087), (406, 19183), (408, 19201), (411, 19210), (413, 19222), (421, 19288), (424, 19297), (425, 19309), (433, 19369), (453, 19525), (470, 19660), (474, 19684), (480, 19738), (486, 19807), (491, 19852), (492, 19855),

Gene: Pacc40_18 Start: 17568, Stop: 20105, Start Num: 56

Candidate Starts for Pacc40_18:

(54, 17556), (Start: 56 @17568 has 208 MA's), (66, 17589), (Start: 75 @17610 has 1 MA's), (84, 17649), (104, 17718), (106, 17727), (107, 17730), (113, 17748), (122, 17796), (132, 17844), (154, 17955), (155, 17958), (167, 18003), (180, 18081), (184, 18105), (194, 18171), (202, 18216), (207, 18246), (208, 18252), (210, 18270), (217, 18294), (219, 18303), (225, 18336), (226, 18342), (232, 18372), (241, 18411), (242, 18423), (244, 18432), (247, 18447), (248, 18450), (268, 18561), (269, 18564), (270, 18573), (271, 18579), (274, 18594), (275, 18597), (277, 18618), (285, 18648), (287, 18660), (292, 18693), (310, 18804), (311, 18807), (317, 18834), (319, 18840), (328, 18894), (329, 18897), (346, 18999), (348, 19011), (349, 19014), (358, 19080), (364, 19104), (366, 19125), (368, 19134), (378, 19194), (379, 19197), (386, 19233), (387, 19251), (392, 19272), (396, 19299), (406, 19368), (408, 19386), (411, 19395), (413, 19407), (417, 19443), (425, 19494), (428, 19512), (433, 19554), (440, 19608), (453, 19710), (470, 19845), (474, 19869), (480, 19923), (486, 19992), (491, 20037), (492, 20040),

Gene: Paperbeatsrock_28 Start: 23264, Stop: 25660, Start Num: 88

Candidate Starts for Paperbeatsrock_28:

(Start: 88 @23264 has 116 MA's), (129, 23441), (134, 23462), (173, 23609), (196, 23750), (201, 23783), (207, 23816), (213, 23852), (232, 23945), (244, 24005), (248, 24023), (272, 24155), (280, 24200), (304, 24332), (310, 24377), (325, 24437), (342, 24551), (346, 24572), (352, 24611), (355, 24632), (357, 24647), (385, 24797), (386, 24803), (387, 24821), (397, 24875), (408, 24959), (424, 25052), (458, 25298), (483, 25514), (492, 25598), (499, 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), (5, 24323), (8, 24506), (10, 24587), (14, 24686), (15, 24710), (16, 24728), (23, 24887), (26, 24920), (37, 24968), (42, 25007), (61, 25133), (65, 25142), (109, 25328), (143, 25529), (175, 25706), (188, 25805), (196, 25838), (206, 25883), (219, 25946), (231, 26015), (243, 26093), (244, 26099), (252, 26144), (253, 26147), (268, 26231), (313, 26486), (323, 26525), (344, 26672), (345, 26678), (374, 26852), (379, 26885), (382, 26906), (385, 26915), (388, 26942), (425, 27185), (442, 27329), (469, 27527), (473, 27557), (480, 27614), (482, 27650), (486, 27677), (487, 27689),

Gene: Pat3_25 Start: 21010, Stop: 23406, Start Num: 88

Candidate Starts for Pat3_25:

(Start: 88 @21010 has 116 MA's), (129, 21187), (134, 21208), (173, 21355), (196, 21496), (201, 21529), (207, 21562), (213, 21598), (232, 21691), (244, 21751), (248, 21769), (272, 21901), (280, 21946), (304, 22078), (310, 22123), (342, 22297), (346, 22318), (352, 22357), (355, 22378), (357, 22393), (386, 22549), (387, 22567), (397, 22621), (408, 22705), (455, 23029), (483, 23260), (492, 23344), (499, 23377),

Gene: Penelope2018_30 Start: 24316, Stop: 26586, Start Num: 135

Candidate Starts for Penelope2018_30:

(Start: 135 @24316 has 20 MA's), (167, 24451), (169, 24460), (191, 24634), (192, 24640), (195, 24652), (224, 24805), (226, 24820), (230, 24835), (300, 25216), (301, 25222), (309, 25267), (327, 25354), (360, 25561), (369, 25609), (374, 25639), (377, 25663), (405, 25852), (410, 25879), (417, 25927), (430, 25999), (434, 26038), (436, 26059), (438, 26074), (440, 26092), (442, 26122), (453, 26206), (478, 26407), (483, 26449), (502, 26575),

Gene: Petra64142_28 Start: 22744, Stop: 25140, Start Num: 88

Candidate Starts for Petra64142_28:

(Start: 88 @22744 has 116 MA's), (129, 22921), (134, 22942), (173, 23089), (196, 23230), (201, 23263), (207, 23296), (213, 23332), (232, 23425), (244, 23485), (248, 23503), (272, 23635), (280, 23680), (304, 23812), (310, 23857), (325, 23917), (342, 24031), (346, 24052), (352, 24091), (355, 24112), (357, 24127), (385, 24277), (386, 24283), (387, 24301), (397, 24355), (408, 24439), (424, 24532), (458, 24778), (483, 24994), (492, 25078), (499, 25111),

Gene: Phaja_26 Start: 22460, Stop: 24856, Start Num: 88

Candidate Starts for Phaja_26:

(Start: 88 @22460 has 116 MA's), (129, 22637), (134, 22658), (173, 22805), (196, 22946), (201, 22979), (207, 23012), (213, 23048), (232, 23141), (244, 23201), (248, 23219), (276, 23375), (280, 23396), (300, 23516), (304, 23528), (310, 23573), (346, 23768), (347, 23774), (349, 23783), (355, 23828), (357, 23843), (386, 23999), (387, 24017), (390, 24026), (398, 24080), (408, 24155), (409, 24158), (439, 24368), (441, 24380), (458, 24494), (483, 24710), (492, 24794), (497, 24818), (499, 24827),

Gene: Phalconet_18 Start: 17448, Stop: 19979, Start Num: 56

Candidate Starts for Phalconet_18:

(54, 17436), (Start: 56 @17448 has 208 MA's), (66, 17469), (Start: 75 @17490 has 1 MA's), (84, 17529), (104, 17598), (106, 17607), (107, 17610), (119, 17661), (122, 17676), (132, 17718), (154,

17829), (155, 17832), (163, 17862), (167, 17877), (180, 17955), (194, 18045), (202, 18090), (207, 18120), (208, 18126), (210, 18144), (217, 18168), (219, 18177), (225, 18210), (226, 18216), (232, 18246), (241, 18285), (242, 18297), (244, 18306), (247, 18321), (248, 18324), (268, 18435), (269, 18438), (270, 18447), (271, 18453), (274, 18468), (275, 18471), (277, 18492), (285, 18522), (287, 18534), (292, 18567), (304, 18633), (310, 18678), (311, 18681), (317, 18708), (319, 18714), (328, 18768), (329, 18771), (343, 18858), (346, 18873), (348, 18885), (349, 18888), (358, 18954), (366, 18999), (368, 19008), (378, 19068), (379, 19071), (386, 19107), (387, 19125), (391, 19137), (392, 19146), (396, 19173), (406, 19242), (408, 19260), (411, 19269), (413, 19281), (417, 19317), (421, 19347), (425, 19368), (430, 19392), (433, 19428), (440, 19482), (446, 19542), (453, 19584), (462, 19662), (470, 19719), (474, 19743), (480, 19797), (483, 19845), (489, 19887), (491, 19911), (492, 19914),

Gene: Phanphagia_18 Start: 17450, Stop: 19927, Start Num: 56

Candidate Starts for Phanphagia_18:

(54, 17438), (Start: 56 @17450 has 208 MA's), (66, 17471), (Start: 75 @17492 has 1 MA's), (85, 17531), (104, 17600), (106, 17609), (107, 17612), (113, 17630), (119, 17663), (122, 17678), (143, 17765), (147, 17780), (155, 17816), (156, 17822), (167, 17855), (171, 17867), (199, 18038), (202, 18047), (207, 18071), (218, 18125), (225, 18161), (226, 18167), (232, 18197), (239, 18227), (242, 18248), (244, 18257), (260, 18341), (271, 18404), (275, 18422), (276, 18431), (280, 18452), (281, 18455), (285, 18473), (287, 18485), (290, 18512), (293, 18521), (300, 18572), (302, 18581), (304, 18584), (308, 18611), (309, 18620), (313, 18641), (328, 18719), (329, 18722), (347, 18830), (348, 18836), (355, 18884), (363, 18926), (364, 18929), (366, 18950), (367, 18956), (368, 18959), (374, 18989), (395, 19130), (398, 19148), (400, 19181), (406, 19205), (407, 19208), (408, 19223), (413, 19244), (417, 19280), (418, 19286), (422, 19313), (426, 19340), (443, 19475), (450, 19523), (452, 19547), (454, 19553), (458, 19571), (470, 19670), (473, 19691), (475, 19709), (483, 19787), (486, 19808), (495, 19871), (497, 19889), (501, 19907),

Gene: Pharsalus_27 Start: 23064, Stop: 25460, Start Num: 88

Candidate Starts for Pharsalus_27:

(Start: 88 @23064 has 116 MA's), (129, 23241), (134, 23262), (173, 23409), (196, 23550), (201, 23583), (207, 23616), (213, 23652), (232, 23745), (244, 23805), (248, 23823), (272, 23955), (280, 24000), (304, 24132), (310, 24177), (325, 24237), (342, 24351), (346, 24372), (352, 24411), (355, 24432), (357, 24447), (385, 24597), (386, 24603), (387, 24621), (397, 24675), (408, 24759), (424, 24852), (458, 25098), (483, 25314), (492, 25398), (499, 25431),

Gene: Phasih_19 Start: 17939, Stop: 20476, Start Num: 56

Candidate Starts for Phasih_19:

(Start: 56 @17939 has 208 MA's), (66, 17960), (Start: 75 @17981 has 1 MA's), (84, 18020), (104, 18089), (106, 18098), (107, 18101), (113, 18119), (119, 18152), (122, 18167), (152, 18320), (155, 18329), (167, 18374), (183, 18473), (184, 18476), (194, 18542), (207, 18617), (208, 18623), (217, 18665), (218, 18671), (219, 18674), (225, 18707), (226, 18713), (232, 18743), (237, 18764), (242, 18794), (244, 18803), (247, 18818), (248, 18821), (268, 18932), (269, 18935), (270, 18944), (271, 18950), (274, 18965), (275, 18968), (277, 18989), (285, 19019), (287, 19031), (292, 19064), (310, 19175), (311, 19178), (317, 19205), (319, 19211), (328, 19265), (329, 19268), (343, 19355), (346, 19370), (348, 19382), (349, 19385), (358, 19451), (364, 19475), (366, 19496), (368, 19505), (375, 19547), (378, 19565), (379, 19568), (385, 19598), (387, 19622), (391, 19634), (392, 19643), (406, 19739), (408, 19757), (411, 19766), (413, 19778), (417, 19814), (421, 19844), (424, 19853), (425, 19865), (433, 19925), (440, 19979), (446, 20039), (453, 20081), (470, 20216), (474, 20240), (480, 20294), (483, 20342), (489, 20384), (491, 20408), (492, 20411),

Gene: PhatBacter_26 Start: 22312, Stop: 24708, Start Num: 88

Candidate Starts for PhatBacter_26:

(Start: 88 @22312 has 116 MA's), (129, 22489), (134, 22510), (173, 22657), (196, 22798), (201, 22831), (207, 22864), (213, 22900), (232, 22993), (244, 23053), (248, 23071), (272, 23203), (280, 23248), (304, 23380), (310, 23425), (325, 23485), (342, 23599), (346, 23620), (352, 23659), (355, 23680), (357, 23695), (385, 23845), (386, 23851), (387, 23869), (397, 23923), (408, 24007), (424, 24100), (458, 24346), (483, 24562), (492, 24646), (499, 24679),

Gene: Phatniss_19 Start: 17901, Stop: 20438, Start Num: 56

Candidate Starts for Phatniss_19:

(54, 17889), (Start: 56 @17901 has 208 MA's), (66, 17922), (Start: 75 @17943 has 1 MA's), (84, 17982), (104, 18051), (106, 18060), (107, 18063), (113, 18081), (119, 18114), (122, 18129), (132, 18177), (152, 18282), (155, 18291), (166, 18333), (167, 18336), (180, 18414), (184, 18438), (194, 18504), (202, 18549), (207, 18579), (208, 18585), (210, 18603), (217, 18627), (219, 18636), (225, 18669), (226, 18675), (232, 18705), (241, 18744), (242, 18756), (244, 18765), (247, 18780), (248, 18783), (268, 18894), (270, 18906), (271, 18912), (274, 18927), (275, 18930), (277, 18951), (285, 18981), (287, 18993), (292, 19026), (304, 19092), (310, 19137), (311, 19140), (317, 19167), (319, 19173), (328, 19227), (329, 19230), (331, 19257), (346, 19332), (348, 19344), (349, 19347), (358, 19413), (364, 19437), (368, 19467), (375, 19509), (378, 19527), (379, 19530), (386, 19566), (387, 19584), (392, 19605), (396, 19632), (406, 19701), (408, 19719), (411, 19728), (413, 19740), (417, 19776), (421, 19806), (424, 19815), (425, 19827), (433, 19887), (440, 19941), (446, 20001), (453, 20043), (462, 20121), (470, 20178), (474, 20202), (480, 20256), (483, 20304), (489, 20346), (491, 20370), (492, 20373),

Gene: Phaux_25 Start: 22310, Stop: 24706, Start Num: 88

Candidate Starts for Phaux_25:

(Start: 88 @22310 has 116 MA's), (129, 22487), (134, 22508), (173, 22655), (196, 22796), (201, 22829), (207, 22862), (213, 22898), (232, 22991), (244, 23051), (248, 23069), (272, 23201), (280, 23246), (304, 23378), (310, 23423), (325, 23483), (342, 23597), (346, 23618), (352, 23657), (355, 23678), (357, 23693), (385, 23843), (386, 23849), (387, 23867), (397, 23921), (408, 24005), (424, 24098), (458, 24344), (483, 24560), (492, 24644), (499, 24677),

Gene: PhesterPhotato_18 Start: 17419, Stop: 19956, Start Num: 56

Candidate Starts for PhesterPhotato_18:

(54, 17407), (Start: 56 @17419 has 208 MA's), (66, 17440), (Start: 75 @17461 has 1 MA's), (84, 17500), (104, 17569), (106, 17578), (107, 17581), (113, 17599), (119, 17632), (122, 17647), (132, 17695), (154, 17806), (155, 17809), (163, 17839), (167, 17854), (180, 17932), (184, 17956), (194, 18022), (202, 18067), (207, 18097), (208, 18103), (210, 18121), (217, 18145), (219, 18154), (225, 18187), (226, 18193), (232, 18223), (241, 18262), (242, 18274), (244, 18283), (247, 18298), (248, 18301), (268, 18412), (269, 18415), (270, 18424), (271, 18430), (274, 18445), (275, 18448), (277, 18469), (285, 18499), (287, 18511), (292, 18544), (310, 18655), (311, 18658), (317, 18685), (319, 18691), (328, 18745), (329, 18748), (346, 18850), (348, 18862), (349, 18865), (358, 18931), (364, 18955), (366, 18976), (368, 18985), (378, 19045), (379, 19048), (386, 19084), (387, 19102), (391, 19114), (392, 19123), (396, 19150), (406, 19219), (408, 19237), (411, 19246), (413, 19258), (417, 19294), (421, 19324), (425, 19345), (430, 19369), (433, 19405), (440, 19459), (446, 19519), (453, 19561), (462, 19639), (470, 19696), (474, 19720), (475, 19735), (480, 19774), (483, 19822), (489, 19864), (491, 19888), (492, 19891),

Gene: Philus_18 Start: 17405, Stop: 19942, Start Num: 56

Candidate Starts for Philus_18:

(Start: 56 @17405 has 208 MA's), (66, 17426), (Start: 75 @17447 has 1 MA's), (84, 17486), (104, 17555), (106, 17564), (107, 17567), (113, 17585), (122, 17633), (152, 17786), (155, 17795), (167, 17840), (180, 17918), (184, 17942), (194, 18008), (202, 18053), (207, 18083), (208, 18089), (210, 18107), (217, 18131), (219, 18140), (225, 18173), (226, 18179), (232, 18209), (241, 18248), (244, 18269), (247, 18284), (248, 18287), (269, 18401), (270, 18410), (271, 18416), (275, 18434), (277,

18455), (285, 18485), (287, 18497), (292, 18530), (310, 18641), (311, 18644), (317, 18671), (319, 18677), (328, 18731), (329, 18734), (343, 18821), (346, 18836), (349, 18851), (364, 18941), (366, 18962), (368, 18971), (378, 19031), (379, 19034), (386, 19070), (387, 19088), (391, 19100), (392, 19109), (396, 19136), (406, 19205), (408, 19223), (411, 19232), (413, 19244), (417, 19280), (421, 19310), (425, 19331), (430, 19355), (433, 19391), (440, 19445), (453, 19547), (462, 19625), (470, 19682), (474, 19706), (480, 19760), (483, 19808), (489, 19850), (494, 19883), (495, 19886),

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

Candidate Starts for Phreeze_29:

(Start: 22 @25682 has 7 MA's), (43, 25814), (45, 25826), (46, 25835), (53, 25904), (77, 25970), (81, 25991), (91, 26039), (98, 26081), (105, 26105), (115, 26138), (120, 26174), (123, 26186), (142, 26279), (155, 26336), (165, 26375), (196, 26570), (200, 26600), (208, 26642), (237, 26783), (241, 26801), (254, 26882), (263, 26921), (267, 26942), (292, 27080), (297, 27119), (309, 27182), (329, 27284), (365, 27509), (422, 27872), (426, 27899), (464, 28142), (468, 28175), (471, 28199), (483, 28319), (493, 28397), (504, 28484), (505, 28499), (506, 28505),

Gene: Phrux_26 Start: 22025, Stop: 24421, Start Num: 88

Candidate Starts for Phrux_26:

(Start: 88 @22025 has 116 MA's), (129, 22202), (134, 22223), (173, 22370), (201, 22544), (207, 22577), (213, 22613), (232, 22706), (244, 22766), (248, 22784), (272, 22916), (280, 22961), (304, 23093), (310, 23138), (325, 23198), (342, 23312), (346, 23333), (352, 23372), (355, 23393), (357, 23408), (385, 23558), (386, 23564), (387, 23582), (397, 23636), (408, 23720), (424, 23813), (458, 24059), (483, 24275), (492, 24359), (499, 24392),

Gene: Piper2020_19 Start: 17270, Stop: 19795, Start Num: 56

Candidate Starts for Piper2020_19:

(Start: 56 @17270 has 208 MA's), (66, 17291), (Start: 75 @17312 has 1 MA's), (84, 17351), (104, 17420), (106, 17429), (107, 17432), (113, 17450), (119, 17483), (122, 17498), (132, 17546), (154, 17657), (155, 17660), (167, 17705), (180, 17783), (184, 17807), (194, 17873), (196, 17882), (207, 17948), (208, 17954), (210, 17972), (217, 17996), (218, 18002), (219, 18005), (225, 18038), (226, 18044), (232, 18074), (237, 18095), (244, 18134), (247, 18149), (249, 18155), (275, 18299), (285, 18350), (303, 18461), (311, 18512), (316, 18536), (331, 18629), (340, 18674), (342, 18683), (346, 18704), (348, 18716), (349, 18719), (355, 18764), (364, 18809), (365, 18827), (366, 18830), (375, 18881), (385, 18932), (386, 18938), (387, 18956), (391, 18968), (392, 18977), (397, 19010), (408, 19091), (419, 19160), (424, 19187), (427, 19214), (435, 19265), (440, 19313), (473, 19556), (483, 19661), (486, 19682), (494, 19736), (498, 19760),

Gene: Plumbus_19 Start: 17226, Stop: 19763, Start Num: 56

Candidate Starts for Plumbus_19:

(54, 17214), (Start: 56 @17226 has 208 MA's), (66, 17247), (Start: 75 @17268 has 1 MA's), (84, 17307), (104, 17376), (106, 17385), (107, 17388), (113, 17406), (119, 17439), (122, 17454), (132, 17502), (154, 17613), (155, 17616), (163, 17646), (166, 17658), (167, 17661), (180, 17739), (184, 17763), (194, 17829), (202, 17874), (207, 17904), (208, 17910), (210, 17928), (217, 17952), (219, 17961), (225, 17994), (226, 18000), (232, 18030), (241, 18069), (242, 18081), (244, 18090), (247, 18105), (248, 18108), (268, 18219), (269, 18222), (270, 18231), (271, 18237), (274, 18252), (275, 18255), (277, 18276), (285, 18306), (287, 18318), (292, 18351), (304, 18417), (310, 18462), (311, 18465), (317, 18492), (319, 18498), (328, 18552), (329, 18555), (343, 18642), (346, 18657), (348, 18669), (349, 18672), (358, 18738), (364, 18762), (366, 18783), (368, 18792), (378, 18852), (379, 18855), (386, 18891), (387, 18909), (391, 18921), (392, 18930), (396, 18957), (406, 19026), (408, 19044), (411, 19053), (413, 19065), (417, 19101), (421, 19131), (425, 19152), (430, 19176), (433, 19212), (440, 19266), (446, 19326), (453, 19368), (462, 19446), (470, 19503), (474, 19527), (480, 19581), (483, 19629), (489, 19671), (491, 19695), (492, 19698),

Gene: Poenanya_18 Start: 17534, Stop: 20071, Start Num: 56

Candidate Starts for Poenanya_18:

(Start: 56 @17534 has 208 MA's), (66, 17555), (Start: 75 @17576 has 1 MA's), (84, 17615), (104, 17684), (106, 17693), (107, 17696), (113, 17714), (122, 17762), (154, 17921), (155, 17924), (167, 17969), (180, 18047), (184, 18071), (194, 18137), (207, 18212), (208, 18218), (210, 18236), (217, 18260), (218, 18266), (219, 18269), (225, 18302), (226, 18308), (232, 18338), (237, 18359), (242, 18389), (244, 18398), (264, 18506), (267, 18518), (268, 18527), (269, 18530), (271, 18545), (274, 18560), (275, 18563), (277, 18584), (287, 18626), (292, 18659), (310, 18770), (311, 18773), (317, 18800), (319, 18806), (328, 18860), (329, 18863), (331, 18890), (346, 18965), (348, 18977), (349, 18980), (358, 19046), (363, 19067), (364, 19070), (366, 19091), (368, 19100), (378, 19160), (379, 19163), (386, 19199), (387, 19217), (391, 19229), (392, 19238), (396, 19265), (404, 19322), (406, 19334), (408, 19352), (411, 19361), (413, 19373), (417, 19409), (421, 19439), (424, 19448), (425, 19460), (433, 19520), (440, 19574), (446, 19634), (453, 19676), (470, 19811), (474, 19835), (480, 19889), (483, 19937), (489, 19979), (491, 20003), (492, 20006),

Gene: Polka14_19 Start: 17940, Stop: 20477, Start Num: 56

Candidate Starts for Polka14_19:

(54, 17928), (Start: 56 @17940 has 208 MA's), (66, 17961), (Start: 75 @17982 has 1 MA's), (84, 18021), (104, 18090), (106, 18099), (107, 18102), (113, 18120), (122, 18168), (132, 18216), (154, 18327), (155, 18330), (167, 18375), (180, 18453), (184, 18477), (194, 18543), (202, 18588), (207, 18618), (208, 18624), (210, 18642), (217, 18666), (219, 18675), (225, 18708), (226, 18714), (232, 18744), (241, 18783), (242, 18795), (244, 18804), (247, 18819), (248, 18822), (268, 18933), (269, 18936), (270, 18945), (271, 18951), (274, 18966), (275, 18969), (277, 18990), (285, 19020), (287, 19032), (292, 19065), (310, 19176), (311, 19179), (317, 19206), (319, 19212), (328, 19266), (329, 19269), (346, 19371), (348, 19383), (349, 19386), (358, 19452), (364, 19476), (366, 19497), (368, 19506), (378, 19566), (379, 19569), (386, 19605), (387, 19623), (392, 19644), (396, 19671), (406, 19740), (408, 19758), (411, 19767), (413, 19779), (417, 19815), (425, 19866), (428, 19884), (433, 19926), (440, 19980), (453, 20082), (470, 20217), (474, 20241), (480, 20295), (486, 20364), (491, 20409), (492, 20412),

Gene: Pollywog_21 Start: 18605, Stop: 21094, Start Num: 56

Candidate Starts for Pollywog_21:

(Start: 56 @18605 has 208 MA's), (66, 18626), (Start: 75 @18647 has 1 MA's), (85, 18686), (104, 18755), (106, 18764), (107, 18767), (113, 18785), (122, 18833), (133, 18881), (147, 18935), (155, 18971), (156, 18977), (157, 18980), (164, 18998), (171, 19022), (175, 19046), (186, 19109), (199, 19193), (202, 19202), (207, 19226), (210, 19250), (217, 19274), (218, 19280), (222, 19301), (226, 19322), (232, 19352), (239, 19382), (242, 19403), (260, 19496), (263, 19511), (264, 19520), (268, 19541), (269, 19544), (285, 19628), (286, 19631), (287, 19640), (290, 19667), (293, 19676), (298, 19715), (302, 19736), (304, 19739), (309, 19775), (313, 19796), (328, 19874), (329, 19877), (339, 19931), (348, 19991), (364, 20084), (365, 20102), (366, 20105), (374, 20141), (382, 20195), (385, 20204), (395, 20282), (398, 20300), (401, 20336), (402, 20339), (406, 20357), (407, 20360), (408, 20375), (413, 20396), (417, 20432), (419, 20444), (430, 20507), (433, 20540), (443, 20627), (450, 20675), (452, 20699), (456, 20726), (458, 20735), (461, 20774), (467, 20813), (470, 20837), (473, 20858), (483, 20954), (486, 20975), (495, 21038), (499, 21065), (501, 21074),

Gene: PopTart_18 Start: 17445, Stop: 19982, Start Num: 56

Candidate Starts for PopTart_18:

(54, 17433), (Start: 56 @17445 has 208 MA's), (66, 17466), (Start: 75 @17487 has 1 MA's), (84, 17526), (104, 17595), (106, 17604), (107, 17607), (113, 17625), (119, 17658), (122, 17673), (154, 17832), (155, 17835), (167, 17880), (180, 17958), (184, 17982), (194, 18048), (207, 18123), (208, 18129), (210, 18147), (217, 18171), (218, 18177), (219, 18180), (225, 18213), (226, 18219), (232, 18249), (237, 18270), (242, 18300), (244, 18309), (259, 18390), (270, 18450), (271, 18456), (274, 18471), (275, 18474), (277, 18495), (287, 18537), (292, 18570), (293, 18573), (317, 18711), (319,

18717), (328, 18771), (329, 18774), (331, 18801), (346, 18876), (348, 18888), (349, 18891), (358, 18957), (364, 18981), (366, 19002), (368, 19011), (378, 19071), (379, 19074), (386, 19110), (387, 19128), (392, 19149), (406, 19245), (408, 19263), (411, 19272), (413, 19284), (417, 19320), (421, 19350), (433, 19431), (440, 19485), (453, 19587), (470, 19722), (474, 19746), (480, 19800), (483, 19848), (489, 19890), (491, 19914), (492, 19917),

Gene: Porcelain_35 Start: 27554, Stop: 30061, Start Num: 56

Candidate Starts for Porcelain_35:

(Start: 56 @27554 has 208 MA's), (113, 27749), (119, 27785), (122, 27800), (143, 27887), (147, 27902), (167, 27977), (171, 27989), (176, 28016), (190, 28121), (199, 28160), (202, 28169), (207, 28193), (208, 28199), (210, 28217), (215, 28235), (219, 28250), (221, 28259), (222, 28268), (225, 28283), (231, 28310), (232, 28319), (241, 28358), (242, 28370), (244, 28379), (260, 28463), (275, 28544), (280, 28574), (281, 28577), (287, 28607), (290, 28634), (293, 28643), (300, 28694), (302, 28703), (304, 28706), (309, 28742), (313, 28763), (322, 28799), (347, 28952), (355, 29006), (364, 29051), (365, 29069), (366, 29072), (374, 29111), (395, 29258), (397, 29267), (407, 29336), (408, 29351), (433, 29516), (443, 29603), (450, 29651), (458, 29702), (467, 29780), (493, 30002), (495, 30005), (499, 30032),

Gene: Porky_26 Start: 22121, Stop: 24517, Start Num: 88

Candidate Starts for Porky_26:

(Start: 88 @22121 has 116 MA's), (129, 22298), (134, 22319), (173, 22466), (196, 22607), (201, 22640), (207, 22673), (213, 22709), (232, 22802), (244, 22862), (248, 22880), (272, 23012), (280, 23057), (304, 23189), (310, 23234), (325, 23294), (342, 23408), (346, 23429), (352, 23468), (355, 23489), (357, 23504), (385, 23654), (386, 23660), (387, 23678), (397, 23732), (408, 23816), (424, 23909), (458, 24155), (483, 24371), (492, 24455), (499, 24488),

Gene: Prager_30 Start: 24328, Stop: 26598, Start Num: 135

Candidate Starts for Prager_30:

(Start: 135 @24328 has 20 MA's), (167, 24463), (169, 24472), (191, 24646), (192, 24652), (195, 24664), (224, 24817), (226, 24832), (230, 24847), (300, 25228), (301, 25234), (309, 25279), (327, 25366), (359, 25567), (360, 25573), (369, 25621), (374, 25651), (377, 25675), (405, 25864), (410, 25891), (417, 25939), (430, 26011), (434, 26050), (436, 26071), (438, 26086), (440, 26104), (442, 26134), (453, 26218), (478, 26419), (483, 26461), (502, 26587),

Gene: Priscilla_18 Start: 17407, Stop: 19959, Start Num: 56

Candidate Starts for Priscilla_18:

(Start: 56 @17407 has 208 MA's), (84, 17488), (104, 17557), (106, 17566), (107, 17569), (113, 17587), (122, 17635), (131, 17680), (154, 17794), (155, 17797), (158, 17809), (164, 17830), (166, 17839), (167, 17842), (176, 17890), (180, 17920), (188, 17986), (196, 18019), (202, 18055), (206, 18079), (218, 18139), (219, 18142), (222, 18160), (235, 18223), (236, 18226), (241, 18244), (244, 18265), (248, 18283), (253, 18310), (256, 18331), (263, 18364), (270, 18406), (271, 18412), (272, 18415), (275, 18430), (279, 18457), (280, 18460), (285, 18481), (287, 18493), (292, 18526), (308, 18619), (328, 18727), (330, 18751), (331, 18757), (336, 18775), (337, 18778), (340, 18802), (346, 18832), (350, 18856), (355, 18892), (356, 18898), (357, 18907), (363, 18934), (373, 18997), (375, 19021), (376, 19036), (385, 19078), (393, 19129), (407, 19225), (408, 19240), (411, 19249), (415, 19273), (424, 19336), (430, 19372), (468, 19678), (474, 19723), (483, 19825),

Gene: Puissant_28 Start: 26145, Stop: 28988, Start Num: 22

Candidate Starts for Puissant_28:

(Start: 22 @26145 has 7 MA's), (39, 26247), (43, 26277), (45, 26289), (46, 26298), (55, 26373), (76, 26427), (77, 26433), (81, 26454), (86, 26475), (91, 26502), (134, 26715), (137, 26727), (157, 26808), (160, 26817), (176, 26904), (177, 26910), (186, 26964), (206, 27093), (208, 27105), (232, 27225), (237, 27246), (263, 27384), (287, 27510), (329, 27747), (340, 27819), (348, 27861), (350, 27873),

(365, 27972), (381, 28068), (417, 28308), (433, 28416), (464, 28608), (468, 28641), (471, 28665), (473, 28683), (483, 28785), (493, 28863), (503, 28920), (504, 28950), (505, 28965),

Gene: Pumpkin_28 Start: 22364, Stop: 24760, Start Num: 88

Candidate Starts for Pumpkin_28:

(Start: 88 @22364 has 116 MA's), (129, 22541), (134, 22562), (173, 22709), (201, 22883), (207, 22916), (213, 22952), (232, 23045), (244, 23105), (248, 23123), (272, 23255), (280, 23300), (304, 23432), (310, 23477), (325, 23537), (342, 23651), (346, 23672), (352, 23711), (355, 23732), (357, 23747), (385, 23897), (386, 23903), (387, 23921), (397, 23975), (408, 24059), (424, 24152), (458, 24398), (483, 24614), (492, 24698), (499, 24731),

Gene: Pygmy_20 Start: 18761, Stop: 21265, Start Num: 67

Candidate Starts for Pygmy_20:

(Start: 67 @18761 has 2 MA's), (68, 18770), (107, 18914), (183, 19319), (187, 19334), (188, 19364), (189, 19370), (194, 19388), (217, 19496), (226, 19547), (248, 19658), (249, 19661), (254, 19700), (263, 19733), (275, 19799), (287, 19859), (290, 19886), (292, 19892), (346, 20198), (355, 20258), (362, 20306), (363, 20309), (365, 20330), (366, 20333), (408, 20594), (428, 20717), (429, 20720), (440, 20810), (448, 20867), (451, 20888), (465, 20948), (487, 21149), (490, 21191),

Gene: Quallification_27 Start: 22490, Stop: 24886, Start Num: 88

Candidate Starts for Quallification_27:

(Start: 88 @22490 has 116 MA's), (129, 22667), (134, 22688), (173, 22835), (196, 22976), (201, 23009), (207, 23042), (213, 23078), (232, 23171), (244, 23231), (248, 23249), (272, 23381), (280, 23426), (304, 23558), (310, 23603), (325, 23663), (342, 23777), (346, 23798), (352, 23837), (355, 23858), (357, 23873), (385, 24023), (386, 24029), (387, 24047), (397, 24101), (408, 24185), (424, 24278), (458, 24524), (483, 24740), (492, 24824), (499, 24857),

Gene: QuickMath_19 Start: 18743, Stop: 21280, Start Num: 56

Candidate Starts for QuickMath_19:

(54, 18731), (Start: 56 @18743 has 208 MA's), (66, 18764), (Start: 75 @18785 has 1 MA's), (84, 18824), (104, 18893), (106, 18902), (107, 18905), (113, 18923), (119, 18956), (122, 18971), (132, 19019), (154, 19130), (155, 19133), (163, 19163), (166, 19175), (167, 19178), (180, 19256), (184, 19280), (194, 19346), (202, 19391), (207, 19421), (208, 19427), (210, 19445), (217, 19469), (219, 19478), (225, 19511), (226, 19517), (232, 19547), (241, 19586), (242, 19598), (244, 19607), (247, 19622), (248, 19625), (268, 19736), (269, 19739), (270, 19748), (271, 19754), (274, 19769), (275, 19772), (277, 19793), (285, 19823), (287, 19835), (292, 19868), (310, 19979), (311, 19982), (317, 20009), (319, 20015), (328, 20069), (329, 20072), (343, 20159), (346, 20174), (348, 20186), (349, 20189), (358, 20255), (364, 20279), (366, 20300), (368, 20309), (375, 20351), (378, 20369), (379, 20372), (386, 20408), (387, 20426), (391, 20438), (392, 20447), (396, 20474), (406, 20543), (408, 20561), (411, 20570), (413, 20582), (417, 20618), (421, 20648), (425, 20669), (430, 20693), (433, 20729), (440, 20783), (446, 20843), (453, 20885), (462, 20963), (470, 21020), (474, 21044), (480, 21098), (483, 21146), (489, 21188), (491, 21212), (492, 21215),

Gene: Quico_19 Start: 17227, Stop: 19764, Start Num: 56

Candidate Starts for Quico_19:

(Start: 56 @17227 has 208 MA's), (66, 17248), (Start: 75 @17269 has 1 MA's), (84, 17308), (104, 17377), (106, 17386), (107, 17389), (113, 17407), (119, 17440), (122, 17455), (132, 17503), (154, 17614), (155, 17617), (163, 17647), (167, 17662), (180, 17740), (184, 17764), (194, 17830), (202, 17875), (207, 17905), (208, 17911), (210, 17929), (217, 17953), (219, 17962), (225, 17995), (226, 18001), (232, 18031), (241, 18070), (244, 18091), (247, 18106), (248, 18109), (269, 18223), (270, 18232), (271, 18238), (275, 18256), (277, 18277), (285, 18307), (287, 18319), (292, 18352), (310, 18463), (311, 18466), (317, 18493), (319, 18499), (328, 18553), (329, 18556), (343, 18643), (346, 18658), (349, 18673), (364, 18763), (366, 18784), (368, 18793), (378, 18853), (379, 18856), (385,

18886), (387, 18910), (392, 18931), (406, 19027), (408, 19045), (411, 19054), (413, 19066), (417, 19102), (421, 19132), (425, 19153), (430, 19177), (433, 19213), (440, 19267), (446, 19327), (453, 19369), (462, 19447), (470, 19504), (474, 19528), (480, 19582), (483, 19630), (489, 19672), (491, 19696), (492, 19699),

Gene: Radiance_18 Start: 17380, Stop: 19917, Start Num: 56

Candidate Starts for Radiance_18:

(54, 17368), (Start: 56 @17380 has 208 MA's), (66, 17401), (Start: 75 @17422 has 1 MA's), (84, 17461), (104, 17530), (106, 17539), (107, 17542), (113, 17560), (119, 17593), (122, 17608), (132, 17656), (152, 17761), (154, 17767), (155, 17770), (166, 17812), (167, 17815), (184, 17917), (194, 17983), (202, 18028), (207, 18058), (208, 18064), (210, 18082), (217, 18106), (219, 18115), (225, 18148), (226, 18154), (232, 18184), (242, 18235), (244, 18244), (264, 18352), (267, 18364), (268, 18373), (269, 18376), (271, 18391), (274, 18406), (275, 18409), (277, 18430), (285, 18460), (287, 18472), (292, 18505), (310, 18616), (311, 18619), (317, 18646), (319, 18652), (328, 18706), (329, 18709), (331, 18736), (346, 18811), (348, 18823), (349, 18826), (358, 18892), (363, 18913), (364, 18916), (366, 18937), (368, 18946), (378, 19006), (379, 19009), (385, 19039), (387, 19063), (391, 19075), (392, 19084), (406, 19180), (408, 19198), (411, 19207), (413, 19219), (421, 19285), (424, 19294), (425, 19306), (430, 19330), (433, 19366), (453, 19522), (470, 19657), (474, 19681), (480, 19735), (486, 19804), (491, 19849), (492, 19852),

Gene: Rakim_27 Start: 22397, Stop: 24793, Start Num: 88

Candidate Starts for Rakim_27:

(Start: 88 @22397 has 116 MA's), (129, 22574), (134, 22595), (173, 22742), (196, 22883), (201, 22916), (207, 22949), (213, 22985), (232, 23078), (244, 23138), (248, 23156), (263, 23237), (304, 23465), (310, 23510), (346, 23705), (347, 23711), (349, 23720), (355, 23765), (357, 23780), (386, 23936), (387, 23954), (390, 23963), (398, 24017), (408, 24092), (409, 24095), (439, 24305), (441, 24317), (458, 24431), (483, 24647), (492, 24731), (497, 24755), (499, 24764),

Gene: Ramsey_19 Start: 17429, Stop: 19966, Start Num: 56

Candidate Starts for Ramsey_19:

(Start: 56 @17429 has 208 MA's), (66, 17450), (Start: 75 @17471 has 1 MA's), (84, 17510), (104, 17579), (106, 17588), (107, 17591), (113, 17609), (122, 17657), (154, 17816), (155, 17819), (167, 17864), (180, 17942), (184, 17966), (194, 18032), (207, 18107), (208, 18113), (210, 18131), (217, 18155), (218, 18161), (219, 18164), (225, 18197), (226, 18203), (232, 18233), (237, 18254), (242, 18284), (244, 18293), (264, 18401), (267, 18413), (268, 18422), (269, 18425), (271, 18440), (274, 18455), (275, 18458), (277, 18479), (287, 18521), (292, 18554), (310, 18665), (311, 18668), (317, 18695), (319, 18701), (328, 18755), (329, 18758), (331, 18785), (346, 18860), (348, 18872), (349, 18875), (358, 18941), (363, 18962), (364, 18965), (366, 18986), (368, 18995), (375, 19037), (378, 19055), (379, 19058), (385, 19088), (387, 19112), (391, 19124), (392, 19133), (406, 19229), (408, 19247), (411, 19256), (413, 19268), (417, 19304), (421, 19334), (424, 19343), (425, 19355), (433, 19415), (440, 19469), (446, 19529), (453, 19571), (470, 19706), (474, 19730), (480, 19784), (483, 19832), (489, 19874), (491, 19898), (492, 19901),

Gene: RedBird_18 Start: 17357, Stop: 19894, Start Num: 56

Candidate Starts for RedBird_18:

(Start: 56 @17357 has 208 MA's), (66, 17378), (Start: 75 @17399 has 1 MA's), (84, 17438), (104, 17507), (106, 17516), (107, 17519), (113, 17537), (122, 17585), (152, 17738), (155, 17747), (167, 17792), (183, 17891), (184, 17894), (194, 17960), (207, 18035), (208, 18041), (210, 18059), (217, 18083), (218, 18089), (219, 18092), (225, 18125), (226, 18131), (232, 18161), (237, 18182), (242, 18212), (244, 18221), (247, 18236), (248, 18239), (268, 18350), (269, 18353), (270, 18362), (271, 18368), (274, 18383), (275, 18386), (277, 18407), (285, 18437), (287, 18449), (292, 18482), (310, 18593), (311, 18596), (317, 18623), (319, 18629), (328, 18683), (329, 18686), (343, 18773), (346, 18788), (348, 18800), (349, 18803), (358, 18869), (364, 18893), (366, 18914), (368, 18923), (378,

18983), (379, 18986), (386, 19022), (387, 19040), (391, 19052), (392, 19061), (396, 19088), (404, 19145), (406, 19157), (408, 19175), (411, 19184), (413, 19196), (417, 19232), (421, 19262), (424, 19271), (425, 19283), (433, 19343), (440, 19397), (446, 19457), (453, 19499), (470, 19634), (474, 19658), (480, 19712), (483, 19760), (489, 19802), (491, 19826), (492, 19829),

Gene: Renaud18_20 Start: 17833, Stop: 20313, Start Num: 59

Candidate Starts for Renaud18_20:

(Start: 59 @17833 has 2 MA's), (64, 17839), (66, 17845), (Start: 88 @17908 has 116 MA's), (89, 17911), (95, 17938), (110, 17992), (113, 18001), (119, 18034), (125, 18067), (133, 18100), (143, 18139), (147, 18154), (155, 18190), (156, 18196), (157, 18199), (164, 18217), (167, 18229), (171, 18241), (175, 18265), (176, 18268), (199, 18412), (202, 18421), (207, 18445), (210, 18469), (217, 18493), (218, 18499), (222, 18520), (226, 18541), (232, 18571), (239, 18601), (242, 18622), (260, 18715), (263, 18730), (264, 18739), (268, 18760), (269, 18763), (276, 18805), (285, 18847), (286, 18850), (287, 18859), (290, 18886), (298, 18934), (302, 18955), (304, 18958), (309, 18994), (313, 19015), (328, 19093), (329, 19096), (339, 19150), (348, 19210), (364, 19303), (366, 19324), (374, 19360), (382, 19414), (385, 19423), (395, 19501), (398, 19519), (401, 19555), (402, 19558), (406, 19576), (407, 19579), (408, 19594), (413, 19615), (417, 19651), (419, 19663), (430, 19726), (433, 19759), (443, 19846), (450, 19894), (452, 19918), (456, 19945), (458, 19954), (461, 19993), (467, 20032), (470, 20056), (473, 20077), (483, 20173), (486, 20194), (495, 20257), (499, 20284), (501, 20293),

Gene: Rialto_20 Start: 17909, Stop: 20446, Start Num: 56

Candidate Starts for Rialto_20:

(Start: 56 @17909 has 208 MA's), (66, 17930), (Start: 75 @17951 has 1 MA's), (84, 17990), (104, 18059), (106, 18068), (107, 18071), (113, 18089), (122, 18137), (152, 18290), (155, 18299), (167, 18344), (183, 18443), (184, 18446), (194, 18512), (207, 18587), (208, 18593), (210, 18611), (217, 18635), (218, 18641), (219, 18644), (225, 18677), (226, 18683), (232, 18713), (237, 18734), (242, 18764), (244, 18773), (247, 18788), (248, 18791), (268, 18902), (269, 18905), (270, 18914), (271, 18920), (274, 18935), (275, 18938), (277, 18959), (285, 18989), (287, 19001), (292, 19034), (310, 19145), (311, 19148), (317, 19175), (319, 19181), (328, 19235), (329, 19238), (346, 19340), (348, 19352), (349, 19355), (358, 19421), (364, 19445), (366, 19466), (368, 19475), (378, 19535), (379, 19538), (386, 19574), (387, 19592), (391, 19604), (392, 19613), (396, 19640), (404, 19697), (406, 19709), (408, 19727), (411, 19736), (413, 19748), (417, 19784), (421, 19814), (424, 19823), (425, 19835), (433, 19895), (440, 19949), (446, 20009), (453, 20051), (470, 20186), (474, 20210), (480, 20264), (483, 20312), (489, 20354), (491, 20378), (492, 20381),

Gene: Rimmer_25 Start: 21850, Stop: 24246, Start Num: 88

Candidate Starts for Rimmer_25:

(Start: 88 @21850 has 116 MA's), (129, 22027), (134, 22048), (173, 22195), (196, 22336), (201, 22369), (207, 22402), (213, 22438), (232, 22531), (244, 22591), (248, 22609), (272, 22741), (280, 22786), (304, 22918), (310, 22963), (342, 23137), (346, 23158), (352, 23197), (355, 23218), (357, 23233), (386, 23389), (387, 23407), (397, 23461), (408, 23545), (424, 23638), (458, 23884), (483, 24100), (492, 24184), (499, 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), (5, 24119), (8, 24302), (10, 24383), (14, 24482), (15, 24506), (16, 24524), (23, 24683), (26, 24716), (37, 24764), (42, 24803), (61, 24929), (65, 24938), (109, 25124), (143, 25325), (175, 25502), (188, 25601), (196, 25634), (206, 25679), (217, 25733), (220, 25745), (231, 25811), (244, 25895), (246, 25910), (252, 25940), (271, 26045), (282, 26096), (289, 26141), (296, 26186), (306, 26231), (308, 26252), (310, 26270), (311, 26273), (312, 26279), (313, 26282), (335, 26420), (344, 26468), (345, 26474), (354, 26534), (357, 26555), (374, 26648), (382, 26708), (385, 26717), (386, 26723), (388, 26744), (414, 26909), (424, 26975), (425, 26987),

(428, 27005), (430, 27011), (460, 27245), (463, 27284), (469, 27329), (473, 27359), (482, 27452), (486, 27479),

Gene: Rita_18 Start: 17410, Stop: 19947, Start Num: 56

Candidate Starts for Rita_18:

(Start: 56 @17410 has 208 MA's), (90, 17500), (104, 17560), (106, 17569), (107, 17572), (113, 17590), (122, 17638), (131, 17683), (154, 17797), (155, 17800), (163, 17830), (166, 17842), (167, 17845), (180, 17923), (184, 17947), (194, 18013), (202, 18058), (207, 18088), (208, 18094), (210, 18112), (217, 18136), (219, 18145), (225, 18178), (226, 18184), (232, 18214), (241, 18253), (242, 18265), (244, 18274), (247, 18289), (248, 18292), (268, 18403), (269, 18406), (270, 18415), (271, 18421), (274, 18436), (275, 18439), (277, 18460), (285, 18490), (287, 18502), (292, 18535), (310, 18646), (311, 18649), (317, 18676), (319, 18682), (328, 18736), (329, 18739), (346, 18841), (348, 18853), (349, 18856), (358, 18922), (364, 18946), (366, 18967), (368, 18976), (378, 19036), (379, 19039), (386, 19075), (387, 19093), (391, 19105), (392, 19114), (396, 19141), (406, 19210), (408, 19228), (411, 19237), (413, 19249), (417, 19285), (421, 19315), (425, 19336), (430, 19360), (433, 19396), (440, 19450), (446, 19510), (453, 19552), (462, 19630), (470, 19687), (474, 19711), (480, 19765), (483, 19813), (489, 19855), (491, 19879), (492, 19882),

Gene: RitaG_18 Start: 17539, Stop: 20091, Start Num: 56

Candidate Starts for RitaG_18:

(Start: 56 @17539 has 208 MA's), (66, 17560), (Start: 75 @17581 has 1 MA's), (84, 17620), (104, 17689), (106, 17698), (107, 17701), (113, 17719), (119, 17752), (122, 17767), (132, 17815), (154, 17926), (155, 17929), (164, 17962), (166, 17971), (167, 17974), (180, 18052), (188, 18118), (196, 18151), (204, 18205), (207, 18217), (217, 18265), (219, 18274), (221, 18283), (227, 18316), (236, 18358), (240, 18373), (245, 18403), (246, 18409), (247, 18412), (248, 18415), (253, 18442), (256, 18463), (263, 18496), (270, 18538), (271, 18544), (272, 18547), (274, 18559), (275, 18562), (279, 18589), (285, 18613), (287, 18625), (292, 18658), (295, 18679), (308, 18751), (311, 18772), (330, 18883), (336, 18907), (337, 18910), (340, 18934), (346, 18964), (350, 18988), (355, 19024), (356, 19030), (357, 19039), (373, 19129), (375, 19153), (376, 19168), (385, 19210), (386, 19216), (393, 19261), (407, 19357), (408, 19372), (411, 19381), (415, 19405), (424, 19468), (440, 19594), (468, 19810), (474, 19855), (483, 19957), (495, 20035),

Gene: RiverMonster_26 Start: 22039, Stop: 24435, Start Num: 88

Candidate Starts for RiverMonster_26:

(Start: 88 @22039 has 116 MA's), (129, 22216), (134, 22237), (173, 22384), (201, 22558), (207, 22591), (213, 22627), (232, 22720), (244, 22780), (248, 22798), (272, 22930), (280, 22975), (304, 23107), (310, 23152), (325, 23212), (342, 23326), (346, 23347), (352, 23386), (355, 23407), (357, 23422), (385, 23572), (386, 23578), (387, 23596), (397, 23650), (408, 23734), (424, 23827), (458, 24073), (483, 24289), (492, 24373), (499, 24406),

Gene: Rockne_18 Start: 17383, Stop: 19920, Start Num: 56

Candidate Starts for Rockne_18:

(Start: 56 @17383 has 208 MA's), (90, 17473), (104, 17533), (106, 17542), (107, 17545), (113, 17563), (122, 17611), (132, 17659), (152, 17764), (154, 17770), (155, 17773), (166, 17815), (167, 17818), (184, 17920), (194, 17986), (202, 18031), (207, 18061), (208, 18067), (210, 18085), (217, 18109), (219, 18118), (225, 18151), (226, 18157), (237, 18208), (241, 18226), (242, 18238), (244, 18247), (247, 18262), (249, 18268), (268, 18376), (270, 18388), (271, 18394), (274, 18409), (275, 18412), (277, 18433), (285, 18463), (287, 18475), (292, 18508), (304, 18574), (310, 18619), (311, 18622), (317, 18649), (319, 18655), (328, 18709), (329, 18712), (331, 18739), (346, 18814), (348, 18826), (349, 18829), (358, 18895), (363, 18916), (364, 18919), (368, 18949), (375, 18991), (378, 19009), (379, 19012), (385, 19042), (387, 19066), (391, 19078), (392, 19087), (406, 19183), (408, 19201), (411, 19210), (413, 19222), (421, 19288), (424, 19297), (425, 19309), (433, 19369), (453, 19525), (470, 19660), (474, 19684), (480, 19738), (486, 19807), (491, 19852), (492, 19855),

Gene: RockyHorror_19 Start: 17258, Stop: 19795, Start Num: 56

Candidate Starts for RockyHorror_19:

(Start: 56 @17258 has 208 MA's), (66, 17279), (Start: 75 @17300 has 1 MA's), (84, 17339), (104, 17408), (106, 17417), (107, 17420), (113, 17438), (122, 17486), (152, 17639), (155, 17648), (167, 17693), (183, 17792), (184, 17795), (194, 17861), (207, 17936), (208, 17942), (210, 17960), (217, 17984), (218, 17990), (219, 17993), (225, 18026), (226, 18032), (232, 18062), (237, 18083), (242, 18113), (244, 18122), (247, 18137), (248, 18140), (268, 18251), (269, 18254), (270, 18263), (271, 18269), (274, 18284), (275, 18287), (277, 18308), (285, 18338), (287, 18350), (292, 18383), (310, 18494), (311, 18497), (317, 18524), (319, 18530), (328, 18584), (329, 18587), (343, 18674), (346, 18689), (348, 18701), (349, 18704), (358, 18770), (364, 18794), (366, 18815), (368, 18824), (378, 18884), (379, 18887), (386, 18923), (387, 18941), (391, 18953), (392, 18962), (396, 18989), (404, 19046), (406, 19058), (408, 19076), (411, 19085), (413, 19097), (417, 19133), (421, 19163), (424, 19172), (425, 19184), (433, 19244), (440, 19298), (446, 19358), (453, 19400), (470, 19535), (474, 19559), (480, 19613), (483, 19661), (489, 19703), (491, 19727), (492, 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), (5, 24305), (8, 24488), (10, 24569), (14, 24668), (15, 24692), (16, 24710), (23, 24869), (26, 24902), (37, 24950), (42, 24989), (61, 25115), (65, 25124), (109, 25310), (143, 25511), (175, 25688), (188, 25787), (196, 25820), (206, 25865), (208, 25877), (217, 25919), (218, 25925), (219, 25928), (231, 25997), (243, 26075), (244, 26081), (252, 26126), (253, 26129), (268, 26213), (313, 26468), (323, 26507), (344, 26654), (345, 26660), (374, 26834), (379, 26867), (382, 26888), (385, 26897), (388, 26924), (425, 27167), (442, 27311), (469, 27509), (473, 27539), (480, 27596), (482, 27632), (486, 27659), (487, 27671),

Gene: Royals2015_18 Start: 17417, Stop: 19948, Start Num: 56

Candidate Starts for Royals2015_18:

(Start: 56 @17417 has 208 MA's), (66, 17438), (90, 17507), (104, 17567), (106, 17576), (107, 17579), (113, 17597), (119, 17630), (122, 17645), (131, 17690), (154, 17804), (155, 17807), (158, 17819), (164, 17840), (166, 17849), (167, 17852), (180, 17930), (188, 17996), (196, 18029), (202, 18065), (206, 18089), (218, 18149), (219, 18152), (222, 18170), (235, 18233), (236, 18236), (241, 18254), (244, 18275), (248, 18293), (253, 18320), (256, 18341), (263, 18374), (271, 18422), (272, 18425), (274, 18437), (275, 18440), (277, 18461), (285, 18491), (287, 18503), (292, 18536), (304, 18602), (310, 18647), (311, 18650), (317, 18677), (319, 18683), (328, 18737), (329, 18740), (331, 18767), (346, 18842), (348, 18854), (349, 18857), (358, 18923), (364, 18947), (368, 18977), (375, 19019), (378, 19037), (379, 19040), (386, 19076), (387, 19094), (392, 19115), (396, 19142), (406, 19211), (408, 19229), (411, 19238), (413, 19250), (417, 19286), (425, 19337), (428, 19355), (433, 19397), (440, 19451), (453, 19553), (462, 19631), (470, 19688), (474, 19712), (480, 19766), (483, 19814), (491, 19880), (492, 19883),

Gene: Ruby_18 Start: 17371, Stop: 19908, Start Num: 56

Candidate Starts for Ruby_18:

(Start: 56 @17371 has 208 MA's), (66, 17392), (Start: 75 @17413 has 1 MA's), (84, 17452), (104, 17521), (106, 17530), (107, 17533), (113, 17551), (119, 17584), (122, 17599), (152, 17752), (155, 17761), (167, 17806), (183, 17905), (184, 17908), (194, 17974), (207, 18049), (208, 18055), (217, 18097), (218, 18103), (219, 18106), (225, 18139), (226, 18145), (232, 18175), (237, 18196), (242, 18226), (244, 18235), (247, 18250), (248, 18253), (268, 18364), (269, 18367), (270, 18376), (271, 18382), (274, 18397), (275, 18400), (277, 18421), (285, 18451), (287, 18463), (292, 18496), (310, 18607), (311, 18610), (317, 18637), (319, 18643), (328, 18697), (329, 18700), (343, 18787), (346, 18802), (348, 18814), (349, 18817), (358, 18883), (364, 18907), (366, 18928), (368, 18937), (375, 18979), (378, 18997), (379, 19000), (385, 19030), (387, 19054), (391, 19066), (392, 19075), (406, 19171), (408, 19189), (411, 19198), (413, 19210), (417, 19246), (421, 19276), (424, 19285), (425,

19297), (433, 19357), (440, 19411), (446, 19471), (453, 19513), (470, 19648), (474, 19672), (480, 19726), (483, 19774), (489, 19816), (491, 19840), (492, 19843),

Gene: Ryadel_62 Start: 36906, Stop: 39416, Start Num: 73

Candidate Starts for Ryadel_62:

(Start: 73 @36906 has 22 MA's), (79, 36939), (93, 37008), (94, 37011), (102, 37035), (107, 37059), (114, 37083), (119, 37116), (159, 37323), (162, 37335), (163, 37338), (187, 37485), (188, 37515), (194, 37539), (202, 37569), (203, 37572), (207, 37599), (210, 37623), (218, 37653), (229, 37710), (241, 37770), (242, 37782), (247, 37806), (248, 37809), (254, 37851), (274, 37947), (275, 37950), (323, 38205), (346, 38349), (355, 38409), (365, 38481), (366, 38484), (383, 38580), (408, 38754), (411, 38763), (413, 38775), (426, 38868), (429, 38880), (440, 38970), (451, 39045), (461, 39090), (485, 39291), (490, 39345), (495, 39360),

Gene: SG4_18 Start: 17548, Stop: 20085, Start Num: 56

Candidate Starts for SG4_18:

(Start: 56 @17548 has 208 MA's), (66, 17569), (Start: 75 @17590 has 1 MA's), (83, 17626), (84, 17629), (104, 17698), (106, 17707), (107, 17710), (113, 17728), (119, 17761), (122, 17776), (132, 17824), (154, 17935), (155, 17938), (163, 17968), (166, 17980), (167, 17983), (180, 18061), (184, 18085), (194, 18151), (202, 18196), (207, 18226), (208, 18232), (210, 18250), (217, 18274), (219, 18283), (225, 18316), (226, 18322), (237, 18373), (241, 18391), (242, 18403), (244, 18412), (247, 18427), (248, 18430), (268, 18541), (269, 18544), (270, 18553), (271, 18559), (274, 18574), (275, 18577), (277, 18598), (285, 18628), (287, 18640), (292, 18673), (304, 18739), (310, 18784), (311, 18787), (317, 18814), (319, 18820), (328, 18874), (329, 18877), (346, 18979), (348, 18991), (349, 18994), (358, 19060), (364, 19084), (366, 19105), (368, 19114), (378, 19174), (379, 19177), (386, 19213), (387, 19231), (391, 19243), (392, 19252), (396, 19279), (406, 19348), (408, 19366), (411, 19375), (413, 19387), (417, 19423), (421, 19453), (425, 19474), (430, 19498), (433, 19534), (440, 19588), (446, 19648), (453, 19690), (470, 19825), (474, 19849), (480, 19903), (483, 19951), (491, 20017), (492, 20020),

Gene: Saal_18 Start: 17383, Stop: 19920, Start Num: 56

Candidate Starts for Saal_18:

(Start: 56 @17383 has 208 MA's), (66, 17404), (Start: 75 @17425 has 1 MA's), (84, 17464), (104, 17533), (106, 17542), (107, 17545), (113, 17563), (122, 17611), (152, 17764), (155, 17773), (167, 17818), (180, 17896), (184, 17920), (194, 17986), (202, 18031), (207, 18061), (208, 18067), (210, 18085), (217, 18109), (219, 18118), (225, 18151), (226, 18157), (232, 18187), (241, 18226), (244, 18247), (247, 18262), (248, 18265), (269, 18379), (270, 18388), (271, 18394), (275, 18412), (277, 18433), (285, 18463), (287, 18475), (292, 18508), (310, 18619), (311, 18622), (317, 18649), (319, 18655), (328, 18709), (329, 18712), (343, 18799), (346, 18814), (349, 18829), (364, 18919), (366, 18940), (368, 18949), (378, 19009), (379, 19012), (386, 19048), (387, 19066), (391, 19078), (392, 19087), (396, 19114), (406, 19183), (408, 19201), (411, 19210), (413, 19222), (417, 19258), (421, 19288), (425, 19309), (430, 19333), (433, 19369), (440, 19423), (453, 19525), (462, 19603), (470, 19660), (474, 19684), (480, 19738), (483, 19786), (489, 19828), (494, 19861), (495, 19864),

Gene: Sabbb_19 Start: 17625, Stop: 20168, Start Num: 56

Candidate Starts for Sabbb_19:

(Start: 56 @17625 has 208 MA's), (66, 17646), (Start: 75 @17667 has 1 MA's), (84, 17706), (104, 17775), (106, 17784), (107, 17787), (113, 17805), (122, 17853), (132, 17901), (154, 18012), (155, 18015), (164, 18048), (167, 18060), (180, 18138), (188, 18204), (196, 18237), (204, 18291), (207, 18303), (218, 18357), (219, 18360), (221, 18369), (227, 18402), (235, 18441), (236, 18444), (240, 18459), (241, 18462), (245, 18489), (246, 18495), (247, 18498), (248, 18501), (253, 18528), (255, 18546), (256, 18549), (270, 18624), (274, 18645), (275, 18648), (279, 18675), (285, 18699), (292, 18744), (293, 18747), (300, 18798), (311, 18861), (313, 18870), (318, 18894), (337, 18999), (338, 19002), (346, 19053), (347, 19059), (348, 19065), (349, 19068), (355, 19113), (357, 19128), (363,

19155), (366, 19179), (375, 19230), (378, 19248), (379, 19251), (380, 19263), (391, 19317), (408, 19440), (418, 19503), (428, 19566), (437, 19641), (465, 19842), (488, 20070), (494, 20109), (495, 20112),

Gene: Saints25_27 Start: 21945, Stop: 24341, Start Num: 88

Candidate Starts for Saints25_27:

(Start: 88 @21945 has 116 MA's), (129, 22122), (134, 22143), (173, 22290), (196, 22431), (201, 22464), (207, 22497), (213, 22533), (232, 22626), (244, 22686), (248, 22704), (272, 22836), (280, 22881), (304, 23013), (310, 23058), (325, 23118), (342, 23232), (346, 23253), (352, 23292), (355, 23313), (357, 23328), (385, 23478), (386, 23484), (387, 23502), (397, 23556), (408, 23640), (424, 23733), (458, 23979), (483, 24195), (492, 24279), (499, 24312),

Gene: Sandalphon_19 Start: 17954, Stop: 20491, Start Num: 56

Candidate Starts for Sandalphon_19:

(54, 17942), (Start: 56 @17954 has 208 MA's), (66, 17975), (Start: 75 @17996 has 1 MA's), (84, 18035), (104, 18104), (106, 18113), (107, 18116), (119, 18167), (122, 18182), (132, 18230), (154, 18341), (155, 18344), (163, 18374), (166, 18386), (167, 18389), (180, 18467), (184, 18491), (194, 18557), (202, 18602), (207, 18632), (208, 18638), (210, 18656), (217, 18680), (219, 18689), (225, 18722), (226, 18728), (232, 18758), (241, 18797), (242, 18809), (244, 18818), (247, 18833), (248, 18836), (268, 18947), (269, 18950), (270, 18959), (271, 18965), (274, 18980), (275, 18983), (277, 19004), (285, 19034), (287, 19046), (292, 19079), (310, 19190), (311, 19193), (317, 19220), (319, 19226), (328, 19280), (329, 19283), (346, 19385), (348, 19397), (349, 19400), (358, 19466), (364, 19490), (366, 19511), (368, 19520), (378, 19580), (379, 19583), (386, 19619), (387, 19637), (391, 19649), (392, 19658), (396, 19685), (406, 19754), (408, 19772), (411, 19781), (413, 19793), (417, 19829), (421, 19859), (425, 19880), (430, 19904), (433, 19940), (440, 19994), (446, 20054), (453, 20096), (462, 20174), (470, 20231), (474, 20255), (480, 20309), (483, 20357), (489, 20399), (491, 20423), (492, 20426),

Gene: Sassafra_18 Start: 17532, Stop: 20069, Start Num: 56

Candidate Starts for Sassafra_18:

(Start: 56 @17532 has 208 MA's), (66, 17553), (Start: 75 @17574 has 1 MA's), (84, 17613), (104, 17682), (106, 17691), (107, 17694), (113, 17712), (122, 17760), (132, 17808), (154, 17919), (155, 17922), (167, 17967), (180, 18045), (184, 18069), (194, 18135), (207, 18210), (208, 18216), (210, 18234), (217, 18258), (219, 18267), (225, 18300), (226, 18306), (232, 18336), (237, 18357), (242, 18387), (244, 18396), (264, 18504), (267, 18516), (268, 18525), (269, 18528), (271, 18543), (274, 18558), (275, 18561), (277, 18582), (287, 18624), (292, 18657), (310, 18768), (311, 18771), (317, 18798), (319, 18804), (328, 18858), (329, 18861), (331, 18888), (346, 18963), (348, 18975), (349, 18978), (358, 19044), (363, 19065), (364, 19068), (366, 19089), (368, 19098), (375, 19140), (378, 19158), (379, 19161), (385, 19191), (387, 19215), (391, 19227), (392, 19236), (406, 19332), (408, 19350), (411, 19359), (413, 19371), (417, 19407), (421, 19437), (424, 19446), (425, 19458), (433, 19518), (440, 19572), (446, 19632), (453, 19674), (470, 19809), (474, 19833), (480, 19887), (483, 19935), (489, 19977), (491, 20001), (492, 20004),

Gene: Sassay_25 Start: 21788, Stop: 24184, Start Num: 88

Candidate Starts for Sassay_25:

(Start: 88 @21788 has 116 MA's), (129, 21965), (134, 21986), (173, 22133), (196, 22274), (201, 22307), (207, 22340), (213, 22376), (232, 22469), (244, 22529), (248, 22547), (272, 22679), (280, 22724), (304, 22856), (310, 22901), (325, 22961), (342, 23075), (346, 23096), (352, 23135), (355, 23156), (357, 23171), (385, 23321), (386, 23327), (387, 23345), (397, 23399), (408, 23483), (424, 23576), (458, 23822), (483, 24038), (492, 24122), (499, 24155),

Gene: SassyB_18 Start: 17445, Stop: 19982, Start Num: 56

Candidate Starts for SassyB_18:

(54, 17433), (Start: 56 @17445 has 208 MA's), (66, 17466), (Start: 75 @17487 has 1 MA's), (84, 17526), (104, 17595), (106, 17604), (107, 17607), (113, 17625), (119, 17658), (122, 17673), (154, 17832), (155, 17835), (167, 17880), (180, 17958), (184, 17982), (194, 18048), (207, 18123), (208, 18129), (210, 18147), (217, 18171), (218, 18177), (219, 18180), (225, 18213), (226, 18219), (232, 18249), (237, 18270), (242, 18300), (244, 18309), (259, 18390), (270, 18450), (271, 18456), (274, 18471), (275, 18474), (277, 18495), (287, 18537), (292, 18570), (293, 18573), (317, 18711), (319, 18717), (328, 18771), (329, 18774), (331, 18801), (346, 18876), (348, 18888), (349, 18891), (358, 18957), (364, 18981), (366, 19002), (368, 19011), (378, 19071), (379, 19074), (386, 19110), (387, 19128), (392, 19149), (406, 19245), (408, 19263), (411, 19272), (413, 19284), (417, 19320), (421, 19350), (433, 19431), (440, 19485), (453, 19587), (470, 19722), (474, 19746), (480, 19800), (483, 19848), (489, 19890), (491, 19914), (492, 19917),

Gene: SchoolBus_58 Start: 36090, Stop: 38600, Start Num: 73

Candidate Starts for SchoolBus_58:

(Start: 73 @36090 has 22 MA's), (79, 36123), (93, 36192), (94, 36195), (102, 36219), (107, 36243), (114, 36267), (119, 36300), (159, 36507), (162, 36519), (163, 36522), (187, 36669), (188, 36699), (194, 36723), (202, 36753), (203, 36756), (207, 36783), (210, 36807), (218, 36837), (229, 36894), (233, 36918), (241, 36954), (242, 36966), (247, 36990), (248, 36993), (254, 37035), (274, 37131), (275, 37134), (323, 37389), (346, 37533), (355, 37593), (365, 37665), (366, 37668), (383, 37764), (408, 37938), (413, 37959), (426, 38052), (429, 38064), (440, 38154), (451, 38229), (461, 38274), (485, 38475), (490, 38529), (495, 38544),

Gene: Schuy_56 Start: 35881, Stop: 38391, Start Num: 73

Candidate Starts for Schuy_56:

(Start: 73 @35881 has 22 MA's), (79, 35914), (93, 35983), (94, 35986), (102, 36010), (107, 36034), (114, 36058), (119, 36091), (159, 36298), (162, 36310), (163, 36313), (187, 36460), (188, 36490), (194, 36514), (202, 36544), (203, 36547), (207, 36574), (210, 36598), (218, 36628), (229, 36685), (233, 36709), (241, 36745), (242, 36757), (247, 36781), (248, 36784), (254, 36826), (274, 36922), (275, 36925), (323, 37180), (346, 37324), (355, 37384), (365, 37456), (366, 37459), (383, 37555), (408, 37729), (413, 37750), (426, 37843), (429, 37855), (440, 37945), (451, 38020), (461, 38065), (485, 38266), (490, 38320), (495, 38335),

Gene: Scottish_19 Start: 18701, Stop: 21238, Start Num: 56

Candidate Starts for Scottish_19:

(54, 18689), (Start: 56 @18701 has 208 MA's), (66, 18722), (Start: 75 @18743 has 1 MA's), (84, 18782), (104, 18851), (106, 18860), (107, 18863), (113, 18881), (122, 18929), (132, 18977), (154, 19088), (155, 19091), (167, 19136), (180, 19214), (184, 19238), (194, 19304), (202, 19349), (207, 19379), (208, 19385), (210, 19403), (217, 19427), (219, 19436), (225, 19469), (226, 19475), (232, 19505), (241, 19544), (242, 19556), (244, 19565), (247, 19580), (248, 19583), (268, 19694), (269, 19697), (270, 19706), (271, 19712), (274, 19727), (275, 19730), (277, 19751), (285, 19781), (287, 19793), (292, 19826), (310, 19937), (311, 19940), (317, 19967), (319, 19973), (328, 20027), (329, 20030), (346, 20132), (348, 20144), (349, 20147), (358, 20213), (364, 20237), (366, 20258), (368, 20267), (378, 20327), (379, 20330), (386, 20366), (387, 20384), (392, 20405), (396, 20432), (406, 20501), (408, 20519), (411, 20528), (413, 20540), (417, 20576), (425, 20627), (428, 20645), (433, 20687), (440, 20741), (453, 20843), (470, 20978), (474, 21002), (480, 21056), (486, 21125), (491, 21170), (492, 21173),

Gene: Seabastian_18 Start: 17634, Stop: 20171, Start Num: 56

Candidate Starts for Seabastian_18:

(Start: 56 @17634 has 208 MA's), (66, 17655), (Start: 75 @17676 has 1 MA's), (84, 17715), (104, 17784), (106, 17793), (107, 17796), (113, 17814), (122, 17862), (154, 18021), (155, 18024), (166, 18066), (167, 18069), (180, 18147), (183, 18168), (184, 18171), (194, 18237), (196, 18246), (202, 18282), (207, 18312), (208, 18318), (217, 18360), (218, 18366), (219, 18369), (225, 18402), (226,

18408), (232, 18438), (237, 18459), (242, 18489), (244, 18498), (264, 18606), (267, 18618), (268, 18627), (269, 18630), (270, 18639), (271, 18645), (274, 18660), (275, 18663), (277, 18684), (287, 18726), (292, 18759), (317, 18900), (319, 18906), (328, 18960), (329, 18963), (331, 18990), (346, 19065), (348, 19077), (349, 19080), (358, 19146), (363, 19167), (364, 19170), (366, 19191), (375, 19242), (378, 19260), (379, 19263), (385, 19293), (387, 19317), (391, 19329), (406, 19434), (408, 19452), (411, 19461), (413, 19473), (417, 19509), (421, 19539), (425, 19560), (430, 19584), (433, 19620), (446, 19734), (453, 19776), (462, 19854), (470, 19911), (474, 19935), (480, 19989), (483, 20037), (489, 20079), (491, 20103), (492, 20106),

Gene: Seagreen_19 Start: 17241, Stop: 19778, Start Num: 56

Candidate Starts for Seagreen_19:

(54, 17229), (Start: 56 @17241 has 208 MA's), (66, 17262), (Start: 75 @17283 has 1 MA's), (84, 17322), (104, 17391), (106, 17400), (107, 17403), (113, 17421), (119, 17454), (122, 17469), (132, 17517), (152, 17622), (154, 17628), (155, 17631), (166, 17673), (167, 17676), (180, 17754), (184, 17778), (194, 17844), (202, 17889), (207, 17919), (208, 17925), (210, 17943), (217, 17967), (219, 17976), (225, 18009), (226, 18015), (232, 18045), (241, 18084), (242, 18096), (244, 18105), (247, 18120), (248, 18123), (268, 18234), (269, 18237), (270, 18246), (271, 18252), (274, 18267), (275, 18270), (277, 18291), (285, 18321), (287, 18333), (292, 18366), (310, 18477), (311, 18480), (317, 18507), (319, 18513), (328, 18567), (329, 18570), (346, 18672), (348, 18684), (349, 18687), (358, 18753), (364, 18777), (366, 18798), (368, 18807), (378, 18867), (379, 18870), (386, 18906), (387, 18924), (391, 18936), (392, 18945), (396, 18972), (406, 19041), (408, 19059), (411, 19068), (413, 19080), (417, 19116), (421, 19146), (425, 19167), (430, 19191), (433, 19227), (440, 19281), (446, 19341), (453, 19383), (462, 19461), (470, 19518), (474, 19542), (480, 19596), (483, 19644), (489, 19686), (491, 19710), (492, 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), (5, 24661), (8, 24844), (10, 24925), (14, 25024), (15, 25048), (16, 25066), (23, 25225), (26, 25258), (37, 25306), (42, 25345), (61, 25471), (65, 25480), (109, 25666), (143, 25867), (175, 26044), (188, 26143), (196, 26176), (206, 26221), (208, 26233), (217, 26275), (218, 26281), (219, 26284), (231, 26353), (243, 26431), (244, 26437), (252, 26482), (253, 26485), (268, 26569), (313, 26824), (323, 26863), (344, 27010), (345, 27016), (374, 27190), (379, 27223), (382, 27244), (385, 27253), (388, 27280), (425, 27523), (442, 27667), (469, 27865), (473, 27895), (480, 27952), (482, 27988), (486, 28015), (487, 28027),

Gene: ShamWow_26 Start: 22284, Stop: 24680, Start Num: 88

Candidate Starts for ShamWow_26:

(Start: 88 @22284 has 116 MA's), (129, 22461), (134, 22482), (173, 22629), (196, 22770), (201, 22803), (207, 22836), (213, 22872), (232, 22965), (244, 23025), (248, 23043), (276, 23199), (280, 23220), (300, 23340), (304, 23352), (310, 23397), (346, 23592), (349, 23607), (355, 23652), (357, 23667), (386, 23823), (387, 23841), (390, 23850), (408, 23979), (409, 23982), (439, 24192), (441, 24204), (458, 24318), (483, 24534), (492, 24618), (497, 24642), (499, 24651),

Gene: Shauna1_18 Start: 17450, Stop: 19927, Start Num: 56

Candidate Starts for Shauna1_18:

(54, 17438), (Start: 56 @17450 has 208 MA's), (66, 17471), (Start: 75 @17492 has 1 MA's), (85, 17531), (104, 17600), (106, 17609), (107, 17612), (113, 17630), (119, 17663), (122, 17678), (143, 17765), (147, 17780), (155, 17816), (156, 17822), (167, 17855), (171, 17867), (199, 18038), (202, 18047), (207, 18071), (218, 18125), (225, 18161), (226, 18167), (232, 18197), (239, 18227), (242, 18248), (244, 18257), (260, 18341), (271, 18404), (275, 18422), (276, 18431), (280, 18452), (281, 18455), (285, 18473), (287, 18485), (290, 18512), (293, 18521), (300, 18572), (302, 18581), (304, 18584), (308, 18611), (309, 18620), (313, 18641), (328, 18719), (329, 18722), (347, 18830), (348, 18836), (355, 18884), (363, 18926), (364, 18929), (366, 18950), (367, 18956), (368, 18959), (374,

18989), (395, 19130), (398, 19148), (400, 19181), (406, 19205), (407, 19208), (408, 19223), (413, 19244), (417, 19280), (418, 19286), (422, 19313), (426, 19340), (443, 19475), (450, 19523), (452, 19547), (458, 19571), (470, 19670), (473, 19691), (475, 19709), (483, 19787), (486, 19808), (495, 19871), (497, 19889), (501, 19907),

Gene: ShereKhan_28 Start: 23267, Stop: 25663, Start Num: 88

Candidate Starts for ShereKhan_28:

(Start: 88 @23267 has 116 MA's), (129, 23444), (134, 23465), (173, 23612), (196, 23753), (201, 23786), (207, 23819), (213, 23855), (232, 23948), (244, 24008), (248, 24026), (272, 24158), (280, 24203), (304, 24335), (310, 24380), (325, 24440), (342, 24554), (346, 24575), (352, 24614), (355, 24635), (357, 24650), (385, 24800), (386, 24806), (387, 24824), (397, 24878), (408, 24962), (424, 25055), (458, 25301), (483, 25517), (492, 25601), (499, 25634),

Gene: ShiLan_18 Start: 17405, Stop: 19957, Start Num: 56

Candidate Starts for ShiLan_18:

(Start: 56 @17405 has 208 MA's), (84, 17486), (104, 17555), (106, 17564), (107, 17567), (113, 17585), (122, 17633), (131, 17678), (154, 17792), (155, 17795), (158, 17807), (164, 17828), (166, 17837), (167, 17840), (176, 17888), (180, 17918), (188, 17984), (196, 18017), (202, 18053), (206, 18077), (218, 18137), (219, 18140), (222, 18158), (235, 18221), (236, 18224), (241, 18242), (244, 18263), (248, 18281), (253, 18308), (256, 18329), (263, 18362), (270, 18404), (271, 18410), (272, 18413), (275, 18428), (279, 18455), (280, 18458), (285, 18479), (287, 18491), (292, 18524), (308, 18617), (328, 18725), (330, 18749), (331, 18755), (336, 18773), (337, 18776), (340, 18800), (346, 18830), (350, 18854), (355, 18890), (356, 18896), (357, 18905), (363, 18932), (373, 18995), (375, 19019), (376, 19034), (385, 19076), (393, 19127), (407, 19223), (408, 19238), (411, 19247), (415, 19271), (424, 19334), (430, 19370), (468, 19676), (474, 19721), (483, 19823),

Gene: Shida_58 Start: 35788, Stop: 38298, Start Num: 73

Candidate Starts for Shida_58:

(Start: 73 @35788 has 22 MA's), (79, 35821), (93, 35890), (94, 35893), (102, 35917), (107, 35941), (114, 35965), (119, 35998), (159, 36205), (162, 36217), (163, 36220), (187, 36367), (188, 36397), (194, 36421), (202, 36451), (203, 36454), (207, 36481), (210, 36505), (218, 36535), (229, 36592), (241, 36652), (242, 36664), (247, 36688), (248, 36691), (254, 36733), (274, 36829), (275, 36832), (323, 37087), (346, 37231), (355, 37291), (365, 37363), (366, 37366), (383, 37462), (408, 37636), (413, 37657), (426, 37750), (429, 37762), (440, 37852), (451, 37927), (461, 37972), (485, 38173), (490, 38227), (495, 38242),

Gene: Shipwreck_20 Start: 18739, Stop: 21243, Start Num: 67

Candidate Starts for Shipwreck_20:

(Start: 67 @18739 has 2 MA's), (107, 18892), (183, 19297), (187, 19312), (188, 19342), (189, 19348), (194, 19366), (217, 19474), (226, 19525), (248, 19636), (249, 19639), (254, 19678), (263, 19711), (275, 19777), (287, 19837), (290, 19864), (292, 19870), (346, 20176), (355, 20236), (362, 20284), (363, 20287), (365, 20308), (366, 20311), (408, 20572), (428, 20695), (429, 20698), (440, 20788), (448, 20845), (451, 20866), (465, 20926), (487, 21127), (490, 21169),

Gene: ShowerHandel_19 Start: 17406, Stop: 19958, Start Num: 56

Candidate Starts for ShowerHandel_19:

(Start: 56 @17406 has 208 MA's), (84, 17487), (104, 17556), (106, 17565), (107, 17568), (113, 17586), (122, 17634), (131, 17679), (154, 17793), (155, 17796), (158, 17808), (164, 17829), (166, 17838), (167, 17841), (176, 17889), (180, 17919), (188, 17985), (196, 18018), (202, 18054), (206, 18078), (218, 18138), (219, 18141), (222, 18159), (235, 18222), (236, 18225), (241, 18243), (244, 18264), (248, 18282), (253, 18309), (256, 18330), (263, 18363), (270, 18405), (271, 18411), (272, 18414), (275, 18429), (279, 18456), (280, 18459), (285, 18480), (287, 18492), (292, 18525), (308, 18618), (328, 18726), (330, 18750), (331, 18756), (336, 18774), (337, 18777), (340, 18801), (346,

18831), (350, 18855), (355, 18891), (356, 18897), (357, 18906), (363, 18933), (373, 18996), (375, 19020), (376, 19035), (385, 19077), (393, 19128), (407, 19224), (408, 19239), (411, 19248), (415, 19272), (424, 19335), (430, 19371), (468, 19677), (474, 19722), (483, 19824),

Gene: ShroomBoi_18 Start: 17435, Stop: 19912, Start Num: 56

Candidate Starts for ShroomBoi_18:

(Start: 56 @17435 has 208 MA's), (66, 17456), (Start: 75 @17477 has 1 MA's), (85, 17516), (104, 17585), (106, 17594), (107, 17597), (113, 17615), (122, 17663), (143, 17750), (147, 17765), (155, 17801), (156, 17807), (167, 17840), (171, 17852), (199, 18023), (202, 18032), (207, 18056), (218, 18110), (225, 18146), (226, 18152), (232, 18182), (239, 18212), (242, 18233), (244, 18242), (247, 18257), (260, 18326), (275, 18407), (276, 18416), (281, 18440), (287, 18470), (293, 18506), (300, 18557), (302, 18566), (304, 18569), (308, 18596), (309, 18605), (313, 18626), (328, 18704), (347, 18815), (348, 18821), (355, 18869), (363, 18911), (364, 18914), (366, 18935), (367, 18941), (368, 18944), (374, 18974), (395, 19115), (398, 19133), (400, 19166), (406, 19190), (407, 19193), (408, 19208), (413, 19229), (417, 19265), (418, 19271), (419, 19277), (422, 19298), (426, 19325), (443, 19460), (450, 19508), (452, 19532), (454, 19538), (458, 19556), (470, 19655), (483, 19772), (493, 19853), (495, 19856), (499, 19883),

Gene: SiSi_18 Start: 17389, Stop: 19926, Start Num: 56

Candidate Starts for SiSi_18:

(54, 17377), (Start: 56 @17389 has 208 MA's), (66, 17410), (Start: 75 @17431 has 1 MA's), (84, 17470), (104, 17539), (106, 17548), (107, 17551), (113, 17569), (119, 17602), (122, 17617), (132, 17665), (154, 17776), (155, 17779), (163, 17809), (166, 17821), (167, 17824), (180, 17902), (184, 17926), (194, 17992), (202, 18037), (207, 18067), (208, 18073), (210, 18091), (217, 18115), (219, 18124), (225, 18157), (226, 18163), (232, 18193), (241, 18232), (242, 18244), (244, 18253), (247, 18268), (248, 18271), (268, 18382), (270, 18394), (271, 18400), (274, 18415), (275, 18418), (277, 18439), (285, 18469), (287, 18481), (292, 18514), (304, 18580), (310, 18625), (311, 18628), (317, 18655), (319, 18661), (328, 18715), (329, 18718), (331, 18745), (346, 18820), (348, 18832), (349, 18835), (358, 18901), (364, 18925), (368, 18955), (375, 18997), (378, 19015), (379, 19018), (386, 19054), (387, 19072), (392, 19093), (396, 19120), (406, 19189), (408, 19207), (411, 19216), (413, 19228), (417, 19264), (425, 19315), (428, 19333), (433, 19375), (440, 19429), (446, 19489), (453, 19531), (462, 19609), (470, 19666), (474, 19690), (480, 19744), (483, 19792), (491, 19858), (492, 19861),

Gene: Simpliphy_27 Start: 22029, Stop: 24425, Start Num: 88

Candidate Starts for Simpliphy_27:

(Start: 88 @22029 has 116 MA's), (129, 22206), (134, 22227), (173, 22374), (201, 22548), (207, 22581), (213, 22617), (232, 22710), (244, 22770), (248, 22788), (272, 22920), (280, 22965), (304, 23097), (310, 23142), (325, 23202), (342, 23316), (346, 23337), (352, 23376), (355, 23397), (357, 23412), (385, 23562), (386, 23568), (387, 23586), (397, 23640), (408, 23724), (424, 23817), (458, 24063), (483, 24279), (492, 24363), (499, 24396),

Gene: SimranZ1_19 Start: 17257, Stop: 19794, Start Num: 56

Candidate Starts for SimranZ1_19:

(Start: 56 @17257 has 208 MA's), (66, 17278), (Start: 75 @17299 has 1 MA's), (84, 17338), (104, 17407), (106, 17416), (107, 17419), (113, 17437), (122, 17485), (154, 17644), (155, 17647), (163, 17677), (166, 17689), (167, 17692), (180, 17770), (184, 17794), (194, 17860), (207, 17935), (208, 17941), (210, 17959), (217, 17983), (219, 17992), (225, 18025), (226, 18031), (232, 18061), (237, 18082), (241, 18100), (242, 18112), (244, 18121), (251, 18154), (268, 18250), (269, 18253), (270, 18262), (271, 18268), (274, 18283), (275, 18286), (277, 18307), (287, 18349), (292, 18382), (304, 18448), (310, 18493), (311, 18496), (317, 18523), (319, 18529), (328, 18583), (329, 18586), (331, 18613), (337, 18634), (346, 18688), (348, 18700), (349, 18703), (358, 18769), (364, 18793), (366, 18814), (368, 18823), (375, 18865), (378, 18883), (379, 18886), (386, 18922), (387, 18940), (391,

18952), (392, 18961), (396, 18988), (404, 19045), (406, 19057), (408, 19075), (411, 19084), (413, 19096), (417, 19132), (421, 19162), (425, 19183), (430, 19207), (433, 19243), (453, 19399), (470, 19534), (474, 19558), (480, 19612), (483, 19660), (491, 19726), (492, 19729),

Gene: SirDuracell_25 Start: 20950, Stop: 23346, Start Num: 88

Candidate Starts for SirDuracell_25:

(Start: 88 @20950 has 116 MA's), (129, 21127), (134, 21148), (173, 21295), (196, 21436), (201, 21469), (207, 21502), (213, 21538), (232, 21631), (244, 21691), (248, 21709), (263, 21790), (304, 22018), (310, 22063), (346, 22258), (347, 22264), (349, 22273), (355, 22318), (357, 22333), (386, 22489), (387, 22507), (390, 22516), (408, 22645), (409, 22648), (439, 22858), (441, 22870), (458, 22984), (483, 23200), (492, 23284), (497, 23308), (499, 23317),

Gene: SirHarley_29 Start: 24248, Stop: 26518, Start Num: 135

Candidate Starts for SirHarley_29:

(Start: 135 @24248 has 20 MA's), (167, 24383), (169, 24392), (191, 24566), (192, 24572), (195, 24584), (224, 24737), (226, 24752), (230, 24767), (300, 25148), (301, 25154), (309, 25199), (327, 25286), (347, 25412), (359, 25487), (360, 25493), (369, 25541), (374, 25571), (377, 25595), (405, 25784), (410, 25811), (417, 25859), (430, 25931), (434, 25970), (436, 25991), (438, 26006), (440, 26024), (442, 26054), (453, 26138), (478, 26339), (483, 26381), (502, 26507),

Gene: Smooch_61 Start: 37810, Stop: 40320, Start Num: 73

Candidate Starts for Smooch_61:

(Start: 73 @37810 has 22 MA's), (79, 37843), (93, 37912), (94, 37915), (102, 37939), (107, 37963), (114, 37987), (119, 38020), (159, 38227), (162, 38239), (163, 38242), (187, 38389), (188, 38419), (194, 38443), (202, 38473), (203, 38476), (207, 38503), (210, 38527), (218, 38557), (229, 38614), (241, 38674), (242, 38686), (247, 38710), (248, 38713), (254, 38755), (274, 38851), (275, 38854), (310, 39058), (323, 39109), (346, 39253), (355, 39313), (365, 39385), (366, 39388), (383, 39484), (408, 39658), (413, 39679), (426, 39772), (429, 39784), (440, 39874), (451, 39949), (461, 39994), (485, 40195), (490, 40249), (495, 40264),

Gene: SophKB_26 Start: 22283, Stop: 24679, Start Num: 88

Candidate Starts for SophKB_26:

(Start: 88 @22283 has 116 MA's), (129, 22460), (134, 22481), (173, 22628), (196, 22769), (201, 22802), (207, 22835), (213, 22871), (232, 22964), (244, 23024), (248, 23042), (272, 23174), (280, 23219), (304, 23351), (310, 23396), (325, 23456), (342, 23570), (346, 23591), (352, 23630), (355, 23651), (357, 23666), (385, 23816), (386, 23822), (387, 23840), (397, 23894), (408, 23978), (424, 24071), (458, 24317), (483, 24533), (492, 24617), (499, 24650),

Gene: Sotrice96_26 Start: 22239, Stop: 24635, Start Num: 88

Candidate Starts for Sotrice96_26:

(Start: 88 @22239 has 116 MA's), (129, 22416), (134, 22437), (173, 22584), (196, 22725), (201, 22758), (207, 22791), (213, 22827), (232, 22920), (244, 22980), (248, 22998), (263, 23079), (304, 23307), (310, 23352), (346, 23547), (347, 23553), (349, 23562), (355, 23607), (357, 23622), (386, 23778), (387, 23796), (390, 23805), (408, 23934), (409, 23937), (439, 24147), (441, 24159), (458, 24273), (483, 24489), (492, 24573), (497, 24597), (499, 24606),

Gene: Soul22_24 Start: 17091, Stop: 19640, Start Num: 49

Candidate Starts for Soul22_24:

(47, 17082), (Start: 49 @17091 has 7 MA's), (Start: 56 @17151 has 208 MA's), (72, 17187), (100, 17286), (133, 17427), (143, 17466), (147, 17481), (155, 17517), (156, 17523), (157, 17526), (164, 17544), (171, 17568), (175, 17592), (176, 17595), (199, 17739), (202, 17748), (207, 17772), (210, 17796), (217, 17820), (218, 17826), (222, 17847), (226, 17868), (232, 17898), (239, 17928), (242, 17949), (260, 18042), (263, 18057), (264, 18066), (268, 18087), (269, 18090), (276, 18132), (285,

18174), (286, 18177), (287, 18186), (290, 18213), (293, 18222), (298, 18261), (302, 18282), (304, 18285), (309, 18321), (313, 18342), (328, 18420), (329, 18423), (339, 18477), (348, 18537), (362, 18624), (364, 18630), (365, 18648), (366, 18651), (374, 18687), (382, 18741), (385, 18750), (395, 18828), (398, 18846), (401, 18882), (402, 18885), (406, 18903), (407, 18906), (408, 18921), (417, 18978), (419, 18990), (430, 19053), (433, 19086), (443, 19173), (450, 19221), (452, 19245), (456, 19272), (458, 19281), (461, 19320), (467, 19359), (470, 19383), (473, 19404), (483, 19500), (486, 19521), (495, 19584), (499, 19611), (501, 19620),

Gene: Sparkdehlily_18 Start: 17429, Stop: 19966, Start Num: 56

Candidate Starts for Sparkdehlily_18:

(Start: 56 @17429 has 208 MA's), (66, 17450), (Start: 75 @17471 has 1 MA's), (84, 17510), (104, 17579), (106, 17588), (107, 17591), (113, 17609), (122, 17657), (152, 17810), (155, 17819), (167, 17864), (180, 17942), (184, 17966), (194, 18032), (202, 18077), (207, 18107), (208, 18113), (210, 18131), (217, 18155), (219, 18164), (225, 18197), (226, 18203), (232, 18233), (241, 18272), (244, 18293), (247, 18308), (248, 18311), (269, 18425), (270, 18434), (271, 18440), (275, 18458), (277, 18479), (285, 18509), (287, 18521), (292, 18554), (310, 18665), (311, 18668), (317, 18695), (319, 18701), (328, 18755), (329, 18758), (343, 18845), (346, 18860), (349, 18875), (364, 18965), (366, 18986), (368, 18995), (378, 19055), (379, 19058), (386, 19094), (387, 19112), (391, 19124), (392, 19133), (396, 19160), (406, 19229), (408, 19247), (411, 19256), (413, 19268), (417, 19304), (421, 19334), (425, 19355), (430, 19379), (433, 19415), (440, 19469), (453, 19571), (462, 19649), (470, 19706), (474, 19730), (480, 19784), (483, 19832), (489, 19874), (494, 19907), (495, 19910),

Gene: Spartacus_19 Start: 17481, Stop: 20018, Start Num: 56

Candidate Starts for Spartacus_19:

(Start: 56 @17481 has 208 MA's), (90, 17571), (104, 17631), (106, 17640), (107, 17643), (113, 17661), (119, 17694), (122, 17709), (132, 17757), (154, 17868), (155, 17871), (163, 17901), (167, 17916), (180, 17994), (194, 18084), (202, 18129), (207, 18159), (208, 18165), (210, 18183), (217, 18207), (219, 18216), (225, 18249), (226, 18255), (232, 18285), (241, 18324), (242, 18336), (244, 18345), (247, 18360), (248, 18363), (268, 18474), (269, 18477), (270, 18486), (271, 18492), (274, 18507), (275, 18510), (277, 18531), (285, 18561), (287, 18573), (292, 18606), (310, 18717), (311, 18720), (317, 18747), (319, 18753), (328, 18807), (329, 18810), (343, 18897), (346, 18912), (348, 18924), (349, 18927), (358, 18993), (366, 19038), (368, 19047), (378, 19107), (379, 19110), (386, 19146), (387, 19164), (391, 19176), (392, 19185), (396, 19212), (406, 19281), (408, 19299), (411, 19308), (413, 19320), (417, 19356), (421, 19386), (425, 19407), (430, 19431), (433, 19467), (440, 19521), (446, 19581), (453, 19623), (462, 19701), (470, 19758), (474, 19782), (480, 19836), (483, 19884), (489, 19926), (491, 19950), (492, 19953),

Gene: Spikelee_19 Start: 17223, Stop: 19760, Start Num: 56

Candidate Starts for Spikelee_19:

(Start: 56 @17223 has 208 MA's), (66, 17244), (Start: 75 @17265 has 1 MA's), (84, 17304), (104, 17373), (106, 17382), (107, 17385), (113, 17403), (122, 17451), (152, 17604), (155, 17613), (167, 17658), (183, 17757), (184, 17760), (194, 17826), (207, 17901), (208, 17907), (210, 17925), (217, 17949), (218, 17955), (219, 17958), (225, 17991), (226, 17997), (232, 18027), (237, 18048), (242, 18078), (244, 18087), (247, 18102), (248, 18105), (268, 18216), (269, 18219), (270, 18228), (271, 18234), (274, 18249), (275, 18252), (277, 18273), (285, 18303), (287, 18315), (292, 18348), (310, 18459), (311, 18462), (317, 18489), (319, 18495), (328, 18549), (329, 18552), (343, 18639), (346, 18654), (348, 18666), (349, 18669), (358, 18735), (364, 18759), (366, 18780), (368, 18789), (378, 18849), (379, 18852), (386, 18888), (387, 18906), (391, 18918), (392, 18927), (396, 18954), (404, 19011), (406, 19023), (408, 19041), (411, 19050), (413, 19062), (417, 19098), (421, 19128), (424, 19137), (425, 19149), (433, 19209), (440, 19263), (446, 19323), (453, 19365), (470, 19500), (474, 19524), (480, 19578), (483, 19626), (489, 19668), (491, 19692), (492, 19695),

Gene: Spoonbill_18 Start: 17404, Stop: 19956, Start Num: 56

Candidate Starts for Spoonbill_18:

(Start: 56 @17404 has 208 MA's), (84, 17485), (104, 17554), (106, 17563), (107, 17566), (113, 17584), (122, 17632), (131, 17677), (154, 17791), (155, 17794), (158, 17806), (164, 17827), (166, 17836), (167, 17839), (176, 17887), (180, 17917), (188, 17983), (196, 18016), (202, 18052), (206, 18076), (218, 18136), (219, 18139), (222, 18157), (235, 18220), (236, 18223), (241, 18241), (244, 18262), (248, 18280), (253, 18307), (256, 18328), (263, 18361), (270, 18403), (271, 18409), (272, 18412), (275, 18427), (279, 18454), (280, 18457), (285, 18478), (287, 18490), (292, 18523), (308, 18616), (328, 18724), (330, 18748), (331, 18754), (336, 18772), (337, 18775), (340, 18799), (346, 18829), (350, 18853), (355, 18889), (356, 18895), (357, 18904), (363, 18931), (373, 18994), (375, 19018), (376, 19033), (385, 19075), (393, 19126), (407, 19222), (408, 19237), (411, 19246), (415, 19270), (424, 19333), (430, 19369), (468, 19675), (474, 19720), (483, 19822),

Gene: Squint_35 Start: 27671, Stop: 30178, Start Num: 56

Candidate Starts for Squint_35:

(Start: 56 @27671 has 208 MA's), (113, 27866), (119, 27902), (122, 27917), (143, 28004), (147, 28019), (167, 28094), (171, 28106), (176, 28133), (190, 28238), (199, 28277), (202, 28286), (207, 28310), (208, 28316), (210, 28334), (215, 28352), (219, 28367), (221, 28376), (222, 28385), (225, 28400), (231, 28427), (232, 28436), (241, 28475), (242, 28487), (244, 28496), (260, 28580), (275, 28661), (280, 28691), (281, 28694), (287, 28724), (290, 28751), (293, 28760), (300, 28811), (302, 28820), (304, 28823), (309, 28859), (313, 28880), (322, 28916), (347, 29069), (355, 29123), (364, 29168), (365, 29186), (366, 29189), (374, 29228), (395, 29375), (397, 29384), (407, 29453), (408, 29468), (433, 29633), (443, 29720), (450, 29768), (458, 29819), (467, 29897), (493, 30119), (495, 30122), (499, 30149),

Gene: StAnnes_18 Start: 17447, Stop: 19984, Start Num: 56

Candidate Starts for StAnnes_18:

(54, 17435), (Start: 56 @17447 has 208 MA's), (66, 17468), (Start: 75 @17489 has 1 MA's), (84, 17528), (106, 17606), (107, 17609), (113, 17627), (119, 17660), (122, 17675), (132, 17723), (154, 17834), (155, 17837), (163, 17867), (166, 17879), (167, 17882), (180, 17960), (184, 17984), (194, 18050), (202, 18095), (207, 18125), (208, 18131), (210, 18149), (217, 18173), (219, 18182), (225, 18215), (226, 18221), (232, 18251), (242, 18302), (244, 18311), (247, 18326), (248, 18329), (268, 18440), (269, 18443), (270, 18452), (271, 18458), (274, 18473), (275, 18476), (277, 18497), (285, 18527), (287, 18539), (292, 18572), (310, 18683), (311, 18686), (317, 18713), (319, 18719), (328, 18773), (329, 18776), (343, 18863), (346, 18878), (348, 18890), (349, 18893), (358, 18959), (364, 18983), (366, 19004), (368, 19013), (378, 19073), (379, 19076), (386, 19112), (387, 19130), (391, 19142), (392, 19151), (396, 19178), (406, 19247), (408, 19265), (411, 19274), (413, 19286), (417, 19322), (421, 19352), (425, 19373), (430, 19397), (433, 19433), (440, 19487), (446, 19547), (453, 19589), (462, 19667), (470, 19724), (474, 19748), (480, 19802), (483, 19850), (489, 19892), (491, 19916), (492, 19919),

Gene: Stank_29 Start: 22790, Stop: 25186, Start Num: 88

Candidate Starts for Stank_29:

(Start: 88 @22790 has 116 MA's), (129, 22967), (134, 22988), (173, 23135), (196, 23276), (201, 23309), (207, 23342), (213, 23378), (232, 23471), (244, 23531), (248, 23549), (272, 23681), (280, 23726), (304, 23858), (310, 23903), (325, 23963), (342, 24077), (346, 24098), (352, 24137), (355, 24158), (357, 24173), (385, 24323), (386, 24329), (387, 24347), (397, 24401), (408, 24485), (424, 24578), (458, 24824), (483, 25040), (492, 25124), (499, 25157),

Gene: Stap_19 Start: 17430, Stop: 19967, Start Num: 56

Candidate Starts for Stap_19:

(Start: 56 @17430 has 208 MA's), (66, 17451), (Start: 75 @17472 has 1 MA's), (84, 17511), (104, 17580), (106, 17589), (107, 17592), (113, 17610), (119, 17643), (122, 17658), (132, 17706), (152, 17811), (154, 17817), (155, 17820), (166, 17862), (167, 17865), (184, 17967), (194, 18033), (202,

18078), (207, 18108), (208, 18114), (210, 18132), (217, 18156), (219, 18165), (225, 18198), (226, 18204), (232, 18234), (241, 18273), (242, 18285), (244, 18294), (247, 18309), (248, 18312), (268, 18423), (269, 18426), (270, 18435), (271, 18441), (274, 18456), (275, 18459), (277, 18480), (285, 18510), (287, 18522), (292, 18555), (310, 18666), (311, 18669), (317, 18696), (319, 18702), (328, 18756), (329, 18759), (346, 18861), (348, 18873), (349, 18876), (358, 18942), (364, 18966), (366, 18987), (368, 18996), (378, 19056), (379, 19059), (386, 19095), (387, 19113), (391, 19125), (392, 19134), (396, 19161), (406, 19230), (408, 19248), (411, 19257), (413, 19269), (417, 19305), (425, 19356), (428, 19374), (433, 19416), (440, 19470), (446, 19530), (453, 19572), (462, 19650), (470, 19707), (474, 19731), (480, 19785), (483, 19833), (491, 19899), (492, 19902),

Gene: Starcevich_19 Start: 17191, Stop: 19728, Start Num: 56

Candidate Starts for Starcevich_19:

(Start: 56 @17191 has 208 MA's), (66, 17212), (Start: 75 @17233 has 1 MA's), (84, 17272), (104, 17341), (106, 17350), (107, 17353), (113, 17371), (122, 17419), (152, 17572), (155, 17581), (167, 17626), (183, 17725), (184, 17728), (194, 17794), (207, 17869), (208, 17875), (210, 17893), (217, 17917), (218, 17923), (219, 17926), (225, 17959), (226, 17965), (232, 17995), (237, 18016), (242, 18046), (244, 18055), (247, 18070), (248, 18073), (268, 18184), (269, 18187), (270, 18196), (271, 18202), (274, 18217), (275, 18220), (277, 18241), (285, 18271), (287, 18283), (292, 18316), (310, 18427), (311, 18430), (317, 18457), (319, 18463), (328, 18517), (329, 18520), (346, 18622), (348, 18634), (349, 18637), (358, 18703), (364, 18727), (366, 18748), (368, 18757), (378, 18817), (379, 18820), (386, 18856), (387, 18874), (391, 18886), (392, 18895), (396, 18922), (404, 18979), (406, 18991), (408, 19009), (411, 19018), (413, 19030), (417, 19066), (421, 19096), (424, 19105), (425, 19117), (433, 19177), (440, 19231), (446, 19291), (453, 19333), (470, 19468), (474, 19492), (480, 19546), (483, 19594), (489, 19636), (491, 19660), (492, 19663),

Gene: Stark_27 Start: 22042, Stop: 24438, Start Num: 88

Candidate Starts for Stark_27:

(Start: 88 @22042 has 116 MA's), (129, 22219), (134, 22240), (173, 22387), (201, 22561), (207, 22594), (213, 22630), (232, 22723), (244, 22783), (248, 22801), (272, 22933), (280, 22978), (304, 23110), (310, 23155), (325, 23215), (342, 23329), (346, 23350), (352, 23389), (355, 23410), (357, 23425), (385, 23575), (386, 23581), (387, 23599), (397, 23653), (408, 23737), (424, 23830), (458, 24076), (483, 24292), (492, 24376), (499, 24409),

Gene: StellaBean_26 Start: 22283, Stop: 24679, Start Num: 88

Candidate Starts for StellaBean_26:

(Start: 88 @22283 has 116 MA's), (129, 22460), (134, 22481), (173, 22628), (196, 22769), (201, 22802), (207, 22835), (213, 22871), (232, 22964), (244, 23024), (248, 23042), (272, 23174), (280, 23219), (304, 23351), (310, 23396), (325, 23456), (342, 23570), (346, 23591), (352, 23630), (355, 23651), (357, 23666), (385, 23816), (386, 23822), (387, 23840), (397, 23894), (408, 23978), (424, 24071), (458, 24317), (483, 24533), (492, 24617), (499, 24650),

Gene: StolenFromERC_28 Start: 22274, Stop: 24670, Start Num: 88

Candidate Starts for StolenFromERC_28:

(Start: 88 @22274 has 116 MA's), (129, 22451), (134, 22472), (173, 22619), (201, 22793), (207, 22826), (213, 22862), (232, 22955), (244, 23015), (248, 23033), (272, 23165), (280, 23210), (304, 23342), (310, 23387), (325, 23447), (342, 23561), (346, 23582), (352, 23621), (355, 23642), (357, 23657), (385, 23807), (386, 23813), (387, 23831), (397, 23885), (408, 23969), (424, 24062), (458, 24308), (483, 24524), (492, 24608), (499, 24641),

Gene: Strokeseat_18 Start: 17495, Stop: 20032, Start Num: 56

Candidate Starts for Strokeseat_18:

(Start: 56 @17495 has 208 MA's), (66, 17516), (Start: 75 @17537 has 1 MA's), (84, 17576), (104, 17645), (106, 17654), (107, 17657), (113, 17675), (122, 17723), (154, 17882), (155, 17885), (166,

17927), (167, 17930), (180, 18008), (183, 18029), (184, 18032), (194, 18098), (207, 18173), (208, 18179), (217, 18221), (218, 18227), (219, 18230), (225, 18263), (226, 18269), (232, 18299), (237, 18320), (242, 18350), (244, 18359), (264, 18467), (267, 18479), (268, 18488), (269, 18491), (270, 18500), (271, 18506), (274, 18521), (275, 18524), (277, 18545), (287, 18587), (292, 18620), (317, 18761), (319, 18767), (328, 18821), (329, 18824), (331, 18851), (346, 18926), (348, 18938), (349, 18941), (358, 19007), (364, 19031), (366, 19052), (368, 19061), (378, 19121), (379, 19124), (386, 19160), (387, 19178), (392, 19199), (396, 19226), (406, 19295), (408, 19313), (411, 19322), (413, 19334), (417, 19370), (421, 19400), (433, 19481), (446, 19595), (453, 19637), (470, 19772), (474, 19796), (480, 19850), (491, 19964), (492, 19967),

Gene: SuperGrey_19 Start: 18074, Stop: 20611, Start Num: 56

Candidate Starts for SuperGrey_19:

(Start: 56 @18074 has 208 MA's), (66, 18095), (Start: 75 @18116 has 1 MA's), (84, 18155), (104, 18224), (106, 18233), (107, 18236), (113, 18254), (122, 18302), (154, 18461), (155, 18464), (167, 18509), (183, 18608), (184, 18611), (194, 18677), (207, 18752), (208, 18758), (210, 18776), (217, 18800), (218, 18806), (219, 18809), (225, 18842), (226, 18848), (232, 18878), (237, 18899), (242, 18929), (244, 18938), (247, 18953), (248, 18956), (268, 19067), (269, 19070), (270, 19079), (271, 19085), (274, 19100), (275, 19103), (277, 19124), (285, 19154), (287, 19166), (292, 19199), (310, 19310), (311, 19313), (317, 19340), (319, 19346), (328, 19400), (329, 19403), (343, 19490), (346, 19505), (348, 19517), (349, 19520), (358, 19586), (364, 19610), (366, 19631), (368, 19640), (378, 19700), (379, 19703), (386, 19739), (387, 19757), (391, 19769), (392, 19778), (396, 19805), (404, 19862), (406, 19874), (408, 19892), (411, 19901), (413, 19913), (417, 19949), (421, 19979), (424, 19988), (425, 20000), (433, 20060), (440, 20114), (446, 20174), (453, 20216), (462, 20294), (470, 20351), (474, 20375), (480, 20429), (483, 20477), (489, 20519), (491, 20543), (492, 20546),

Gene: Superphikiman_36 Start: 27736, Stop: 30243, Start Num: 56

Candidate Starts for Superphikiman_36:

(Start: 56 @27736 has 208 MA's), (113, 27931), (119, 27967), (122, 27982), (143, 28069), (147, 28084), (167, 28159), (171, 28171), (176, 28198), (190, 28303), (199, 28342), (202, 28351), (207, 28375), (208, 28381), (210, 28399), (215, 28417), (219, 28432), (221, 28441), (222, 28450), (225, 28465), (231, 28492), (232, 28501), (241, 28540), (242, 28552), (244, 28561), (260, 28645), (275, 28726), (280, 28756), (281, 28759), (287, 28789), (290, 28816), (293, 28825), (300, 28876), (302, 28885), (304, 28888), (309, 28924), (313, 28945), (322, 28981), (347, 29134), (355, 29188), (364, 29233), (365, 29251), (366, 29254), (374, 29293), (395, 29440), (397, 29449), (407, 29518), (408, 29533), (433, 29698), (443, 29785), (450, 29833), (458, 29884), (467, 29962), (493, 30184), (495, 30187), (499, 30214),

Gene: SwagPiggett_18 Start: 17406, Stop: 19943, Start Num: 56

Candidate Starts for SwagPiggett_18:

(Start: 56 @17406 has 208 MA's), (66, 17427), (Start: 75 @17448 has 1 MA's), (84, 17487), (104, 17556), (106, 17565), (107, 17568), (113, 17586), (122, 17634), (152, 17787), (155, 17796), (167, 17841), (180, 17919), (184, 17943), (194, 18009), (202, 18054), (207, 18084), (208, 18090), (210, 18108), (217, 18132), (219, 18141), (225, 18174), (226, 18180), (232, 18210), (241, 18249), (244, 18270), (247, 18285), (248, 18288), (269, 18402), (270, 18411), (271, 18417), (275, 18435), (277, 18456), (285, 18486), (287, 18498), (292, 18531), (310, 18642), (311, 18645), (317, 18672), (319, 18678), (328, 18732), (329, 18735), (343, 18822), (346, 18837), (349, 18852), (364, 18942), (366, 18963), (368, 18972), (378, 19032), (379, 19035), (386, 19071), (387, 19089), (391, 19101), (392, 19110), (396, 19137), (406, 19206), (408, 19224), (411, 19233), (413, 19245), (417, 19281), (421, 19311), (425, 19332), (430, 19356), (433, 19392), (440, 19446), (453, 19548), (462, 19626), (470, 19683), (474, 19707), (480, 19761), (483, 19809), (489, 19851), (494, 19884), (495, 19887),

Gene: TBrady12_28 Start: 22274, Stop: 24670, Start Num: 88

Candidate Starts for TBrady12_28:

(Start: 88 @22274 has 116 MA's), (129, 22451), (134, 22472), (173, 22619), (196, 22760), (201, 22793), (207, 22826), (213, 22862), (232, 22955), (244, 23015), (248, 23033), (272, 23165), (280, 23210), (304, 23342), (310, 23387), (325, 23447), (342, 23561), (346, 23582), (352, 23621), (355, 23642), (357, 23657), (385, 23807), (386, 23813), (387, 23831), (397, 23885), (408, 23969), (424, 24062), (458, 24308), (483, 24524), (492, 24608), (499, 24641),

Gene: TDanisky_18 Start: 17429, Stop: 19966, Start Num: 56

Candidate Starts for TDanisky_18:

(Start: 56 @17429 has 208 MA's), (66, 17450), (Start: 75 @17471 has 1 MA's), (84, 17510), (104, 17579), (106, 17588), (107, 17591), (113, 17609), (122, 17657), (152, 17810), (155, 17819), (167, 17864), (180, 17942), (184, 17966), (194, 18032), (202, 18077), (207, 18107), (208, 18113), (210, 18131), (217, 18155), (219, 18164), (225, 18197), (226, 18203), (232, 18233), (241, 18272), (244, 18293), (247, 18308), (248, 18311), (269, 18425), (270, 18434), (271, 18440), (275, 18458), (277, 18479), (285, 18509), (287, 18521), (292, 18554), (310, 18665), (311, 18668), (317, 18695), (319, 18701), (328, 18755), (329, 18758), (343, 18845), (346, 18860), (349, 18875), (364, 18965), (366, 18986), (368, 18995), (378, 19055), (379, 19058), (386, 19094), (387, 19112), (391, 19124), (392, 19133), (396, 19160), (406, 19229), (408, 19247), (411, 19256), (413, 19268), (417, 19304), (421, 19334), (425, 19355), (430, 19379), (433, 19415), (440, 19469), (453, 19571), (462, 19649), (470, 19706), (474, 19730), (480, 19784), (483, 19832), (489, 19874), (494, 19907), (495, 19910),

Gene: Taj_18 Start: 17430, Stop: 19967, Start Num: 56

Candidate Starts for Taj_18:

(54, 17418), (Start: 56 @17430 has 208 MA's), (66, 17451), (Start: 75 @17472 has 1 MA's), (84, 17511), (104, 17580), (106, 17589), (107, 17592), (113, 17610), (119, 17643), (122, 17658), (132, 17706), (152, 17811), (154, 17817), (155, 17820), (166, 17862), (167, 17865), (180, 17943), (194, 18033), (202, 18078), (207, 18108), (208, 18114), (210, 18132), (217, 18156), (219, 18165), (225, 18198), (226, 18204), (232, 18234), (241, 18273), (242, 18285), (244, 18294), (247, 18309), (248, 18312), (268, 18423), (269, 18426), (270, 18435), (271, 18441), (274, 18456), (275, 18459), (277, 18480), (285, 18510), (287, 18522), (292, 18555), (310, 18666), (311, 18669), (317, 18696), (319, 18702), (328, 18756), (329, 18759), (343, 18846), (346, 18861), (348, 18873), (349, 18876), (358, 18942), (364, 18966), (366, 18987), (368, 18996), (378, 19056), (379, 19059), (386, 19095), (387, 19113), (391, 19125), (392, 19134), (396, 19161), (406, 19230), (408, 19248), (411, 19257), (413, 19269), (417, 19305), (421, 19335), (425, 19356), (430, 19380), (433, 19416), (440, 19470), (446, 19530), (453, 19572), (470, 19707), (474, 19731), (480, 19785), (483, 19833), (489, 19875), (491, 19899), (492, 19902),

Gene: Tarkin_28 Start: 23273, Stop: 25669, Start Num: 88

Candidate Starts for Tarkin_28:

(Start: 88 @23273 has 116 MA's), (129, 23450), (134, 23471), (173, 23618), (196, 23759), (201, 23792), (207, 23825), (213, 23861), (232, 23954), (244, 24014), (248, 24032), (272, 24164), (280, 24209), (304, 24341), (310, 24386), (325, 24446), (342, 24560), (346, 24581), (352, 24620), (355, 24641), (357, 24656), (385, 24806), (386, 24812), (387, 24830), (397, 24884), (408, 24968), (424, 25061), (458, 25307), (483, 25523), (492, 25607), (499, 25640),

Gene: TeardropMSU_25 Start: 22191, Stop: 24587, Start Num: 88

Candidate Starts for TeardropMSU_25:

(Start: 88 @22191 has 116 MA's), (129, 22368), (134, 22389), (173, 22536), (196, 22677), (201, 22710), (207, 22743), (213, 22779), (232, 22872), (244, 22932), (248, 22950), (263, 23031), (304, 23259), (310, 23304), (346, 23499), (347, 23505), (349, 23514), (355, 23559), (357, 23574), (386, 23730), (387, 23748), (390, 23757), (398, 23811), (408, 23886), (409, 23889), (439, 24099), (441, 24111), (458, 24225), (483, 24441), (492, 24525), (497, 24549), (499, 24558),

Gene: Teaspoon_27 Start: 22237, Stop: 24633, Start Num: 88

Candidate Starts for Teaspoon_27:

(Start: 88 @22237 has 116 MA's), (129, 22414), (134, 22435), (173, 22582), (196, 22723), (201, 22756), (207, 22789), (213, 22825), (232, 22918), (244, 22978), (248, 22996), (272, 23128), (280, 23173), (304, 23305), (310, 23350), (325, 23410), (342, 23524), (346, 23545), (352, 23584), (355, 23605), (357, 23620), (385, 23770), (386, 23776), (387, 23794), (397, 23848), (408, 23932), (424, 24025), (458, 24271), (483, 24487), (492, 24571), (499, 24604),

Gene: TelAviv_55 Start: 36063, Stop: 38573, Start Num: 73

Candidate Starts for TelAviv_55:

(Start: 73 @36063 has 22 MA's), (79, 36096), (93, 36165), (94, 36168), (102, 36192), (107, 36216), (114, 36240), (119, 36273), (159, 36480), (162, 36492), (163, 36495), (187, 36642), (188, 36672), (194, 36696), (202, 36726), (203, 36729), (207, 36756), (210, 36780), (218, 36810), (229, 36867), (233, 36891), (241, 36927), (242, 36939), (247, 36963), (248, 36966), (254, 37008), (274, 37104), (275, 37107), (323, 37362), (346, 37506), (355, 37566), (365, 37638), (366, 37641), (383, 37737), (408, 37911), (413, 37932), (426, 38025), (429, 38037), (440, 38127), (451, 38202), (461, 38247), (485, 38448), (490, 38502), (495, 38517),

Gene: Terminus_26 Start: 22371, Stop: 24767, Start Num: 88

Candidate Starts for Terminus_26:

(Start: 88 @22371 has 116 MA's), (129, 22548), (134, 22569), (173, 22716), (196, 22857), (201, 22890), (207, 22923), (213, 22959), (232, 23052), (244, 23112), (248, 23130), (272, 23262), (280, 23307), (304, 23439), (310, 23484), (325, 23544), (342, 23658), (346, 23679), (352, 23718), (355, 23739), (357, 23754), (385, 23904), (386, 23910), (387, 23928), (397, 23982), (408, 24066), (424, 24159), (458, 24405), (483, 24621), (492, 24705), (499, 24738),

Gene: ThetaBob_20 Start: 17751, Stop: 20231, Start Num: 59

Candidate Starts for ThetaBob_20:

(Start: 59 @17751 has 2 MA's), (64, 17757), (66, 17763), (Start: 88 @17826 has 116 MA's), (89, 17829), (95, 17856), (110, 17910), (113, 17919), (119, 17952), (125, 17985), (133, 18018), (143, 18057), (147, 18072), (155, 18108), (156, 18114), (157, 18117), (164, 18135), (167, 18147), (171, 18159), (175, 18183), (176, 18186), (199, 18330), (202, 18339), (207, 18363), (210, 18387), (217, 18411), (218, 18417), (222, 18438), (223, 18441), (226, 18459), (232, 18489), (239, 18519), (242, 18540), (260, 18633), (263, 18648), (264, 18657), (268, 18678), (269, 18681), (276, 18723), (285, 18765), (286, 18768), (287, 18777), (290, 18804), (293, 18813), (298, 18852), (302, 18873), (304, 18876), (309, 18912), (313, 18933), (328, 19011), (329, 19014), (339, 19068), (348, 19128), (364, 19221), (366, 19242), (374, 19278), (382, 19332), (385, 19341), (395, 19419), (398, 19437), (401, 19473), (402, 19476), (406, 19494), (407, 19497), (408, 19512), (413, 19533), (417, 19569), (419, 19581), (430, 19644), (433, 19677), (443, 19764), (450, 19812), (452, 19836), (456, 19863), (458, 19872), (461, 19911), (467, 19950), (470, 19974), (473, 19995), (483, 20091), (486, 20112), (495, 20175), (499, 20202), (501, 20211),

Gene: Thoth_30 Start: 24313, Stop: 26583, Start Num: 135

Candidate Starts for Thoth_30:

(Start: 135 @24313 has 20 MA's), (167, 24448), (169, 24457), (191, 24631), (192, 24637), (195, 24649), (224, 24802), (226, 24817), (230, 24832), (300, 25213), (301, 25219), (309, 25264), (327, 25351), (359, 25552), (360, 25558), (369, 25606), (374, 25636), (377, 25660), (405, 25849), (410, 25876), (417, 25924), (430, 25996), (434, 26035), (436, 26056), (438, 26071), (440, 26089), (442, 26119), (453, 26203), (478, 26404), (483, 26446), (502, 26572),

Gene: Thresher_27 Start: 23038, Stop: 25434, Start Num: 88

Candidate Starts for Thresher_27:

(Start: 88 @23038 has 116 MA's), (129, 23215), (134, 23236), (173, 23383), (201, 23557), (207, 23590), (213, 23626), (232, 23719), (244, 23779), (248, 23797), (272, 23929), (280, 23974), (304,

24106), (310, 24151), (342, 24325), (346, 24346), (352, 24385), (355, 24406), (357, 24421), (385, 24571), (386, 24577), (387, 24595), (397, 24649), (408, 24733), (424, 24826), (458, 25072), (483, 25288), (492, 25372), (499, 25405),

Gene: Thumb_29 Start: 25682, Stop: 28525, Start Num: 22

Candidate Starts for Thumb_29:

(Start: 22 @25682 has 7 MA's), (43, 25814), (45, 25826), (46, 25835), (53, 25904), (77, 25970), (81, 25991), (91, 26039), (98, 26081), (105, 26105), (115, 26138), (120, 26174), (123, 26186), (142, 26279), (155, 26336), (165, 26375), (196, 26570), (200, 26600), (208, 26642), (237, 26783), (241, 26801), (254, 26882), (263, 26921), (267, 26942), (292, 27080), (297, 27119), (329, 27284), (340, 27356), (348, 27398), (350, 27410), (365, 27509), (422, 27872), (464, 28142), (468, 28175), (471, 28199), (483, 28319), (493, 28397), (504, 28484), (505, 28499), (506, 28505),

Gene: Tomaszewski_25 Start: 21884, Stop: 24280, Start Num: 88

Candidate Starts for Tomaszewski_25:

(Start: 88 @21884 has 116 MA's), (129, 22061), (134, 22082), (173, 22229), (196, 22370), (201, 22403), (207, 22436), (213, 22472), (232, 22565), (244, 22625), (248, 22643), (272, 22775), (280, 22820), (304, 22952), (310, 22997), (342, 23171), (346, 23192), (352, 23231), (355, 23252), (357, 23267), (386, 23423), (387, 23441), (397, 23495), (408, 23579), (424, 23672), (458, 23918), (483, 24134), (492, 24218), (499, 24251),

Gene: TootsiePop_19 Start: 17273, Stop: 19798, Start Num: 56

Candidate Starts for TootsiePop_19:

(Start: 56 @17273 has 208 MA's), (66, 17294), (Start: 75 @17315 has 1 MA's), (84, 17354), (104, 17423), (106, 17432), (107, 17435), (113, 17453), (119, 17486), (122, 17501), (132, 17549), (154, 17660), (155, 17663), (167, 17708), (180, 17786), (184, 17810), (194, 17876), (202, 17921), (207, 17951), (208, 17957), (210, 17975), (217, 17999), (219, 18008), (225, 18041), (226, 18047), (232, 18077), (241, 18116), (242, 18128), (244, 18137), (247, 18152), (248, 18155), (275, 18302), (285, 18353), (303, 18464), (311, 18515), (316, 18539), (331, 18632), (340, 18677), (342, 18686), (346, 18707), (348, 18719), (349, 18722), (355, 18767), (364, 18812), (365, 18830), (366, 18833), (375, 18884), (385, 18935), (386, 18941), (387, 18959), (391, 18971), (392, 18980), (397, 19013), (408, 19094), (419, 19163), (424, 19190), (427, 19217), (435, 19268), (440, 19316), (473, 19559), (483, 19664), (486, 19685), (494, 19739), (498, 19763),

Gene: Tootsieroll_19 Start: 17239, Stop: 19776, Start Num: 56

Candidate Starts for Tootsieroll_19:

(54, 17227), (Start: 56 @17239 has 208 MA's), (66, 17260), (Start: 75 @17281 has 1 MA's), (84, 17320), (104, 17389), (106, 17398), (107, 17401), (113, 17419), (119, 17452), (122, 17467), (132, 17515), (152, 17620), (154, 17626), (155, 17629), (166, 17671), (167, 17674), (184, 17776), (194, 17842), (202, 17887), (207, 17917), (208, 17923), (210, 17941), (217, 17965), (219, 17974), (225, 18007), (226, 18013), (232, 18043), (242, 18094), (244, 18103), (264, 18211), (267, 18223), (268, 18232), (269, 18235), (271, 18250), (274, 18265), (275, 18268), (277, 18289), (285, 18319), (287, 18331), (292, 18364), (310, 18475), (311, 18478), (317, 18505), (319, 18511), (328, 18565), (329, 18568), (331, 18595), (346, 18670), (348, 18682), (349, 18685), (358, 18751), (363, 18772), (364, 18775), (366, 18796), (368, 18805), (378, 18865), (379, 18868), (385, 18898), (387, 18922), (391, 18934), (392, 18943), (406, 19039), (408, 19057), (411, 19066), (413, 19078), (421, 19144), (424, 19153), (425, 19165), (430, 19189), (433, 19225), (453, 19381), (470, 19516), (474, 19540), (480, 19594), (486, 19663), (491, 19708), (492, 19711),

Gene: Totinger_19 Start: 17189, Stop: 19726, Start Num: 56

Candidate Starts for Totinger_19:

(Start: 56 @17189 has 208 MA's), (66, 17210), (Start: 75 @17231 has 1 MA's), (84, 17270), (104, 17339), (106, 17348), (107, 17351), (113, 17369), (122, 17417), (152, 17570), (155, 17579), (167,

17624), (183, 17723), (184, 17726), (194, 17792), (207, 17867), (208, 17873), (210, 17891), (217, 17915), (218, 17921), (219, 17924), (225, 17957), (226, 17963), (232, 17993), (237, 18014), (242, 18044), (244, 18053), (247, 18068), (248, 18071), (268, 18182), (269, 18185), (270, 18194), (271, 18200), (274, 18215), (275, 18218), (277, 18239), (285, 18269), (287, 18281), (292, 18314), (310, 18425), (311, 18428), (317, 18455), (319, 18461), (328, 18515), (329, 18518), (346, 18620), (348, 18632), (349, 18635), (358, 18701), (364, 18725), (366, 18746), (368, 18755), (378, 18815), (379, 18818), (386, 18854), (387, 18872), (391, 18884), (392, 18893), (396, 18920), (404, 18977), (406, 18989), (408, 19007), (411, 19016), (413, 19028), (417, 19064), (421, 19094), (424, 19103), (425, 19115), (433, 19175), (440, 19229), (446, 19289), (453, 19331), (470, 19466), (474, 19490), (480, 19544), (483, 19592), (489, 19634), (491, 19658), (492, 19661),

Gene: Toto_26 Start: 22284, Stop: 24680, Start Num: 88

Candidate Starts for Toto_26:

(Start: 88 @22284 has 116 MA's), (129, 22461), (134, 22482), (173, 22629), (196, 22770), (201, 22803), (207, 22836), (213, 22872), (232, 22965), (244, 23025), (248, 23043), (276, 23199), (280, 23220), (300, 23340), (304, 23352), (310, 23397), (346, 23592), (349, 23607), (355, 23652), (357, 23667), (386, 23823), (387, 23841), (390, 23850), (408, 23979), (409, 23982), (439, 24192), (441, 24204), (458, 24318), (483, 24534), (492, 24618), (497, 24642), (499, 24651),

Gene: Traaww1_24 Start: 21929, Stop: 24325, Start Num: 88

Candidate Starts for Traaww1_24:

(Start: 88 @21929 has 116 MA's), (129, 22106), (134, 22127), (173, 22274), (196, 22415), (201, 22448), (207, 22481), (213, 22517), (232, 22610), (244, 22670), (248, 22688), (263, 22769), (304, 22997), (310, 23042), (346, 23237), (347, 23243), (349, 23252), (355, 23297), (357, 23312), (386, 23468), (387, 23486), (390, 23495), (398, 23549), (408, 23624), (409, 23627), (439, 23837), (441, 23849), (458, 23963), (483, 24179), (492, 24263), (497, 24287), (499, 24296),

Gene: Troll4_30 Start: 24317, Stop: 26587, Start Num: 135

Candidate Starts for Troll4_30:

(Start: 135 @24317 has 20 MA's), (167, 24452), (169, 24461), (191, 24635), (192, 24641), (195, 24653), (224, 24806), (226, 24821), (230, 24836), (300, 25217), (301, 25223), (309, 25268), (327, 25355), (359, 25556), (360, 25562), (369, 25610), (374, 25640), (377, 25664), (405, 25853), (410, 25880), (417, 25928), (430, 26000), (434, 26039), (436, 26060), (438, 26075), (440, 26093), (442, 26123), (453, 26207), (478, 26408), (483, 26450), (502, 26576),

Gene: Tuco_27 Start: 22799, Stop: 25195, Start Num: 88

Candidate Starts for Tuco_27:

(Start: 88 @22799 has 116 MA's), (129, 22976), (134, 22997), (173, 23144), (196, 23285), (201, 23318), (207, 23351), (213, 23387), (232, 23480), (244, 23540), (248, 23558), (263, 23639), (304, 23867), (310, 23912), (346, 24107), (347, 24113), (349, 24122), (355, 24167), (357, 24182), (386, 24338), (387, 24356), (390, 24365), (398, 24419), (408, 24494), (409, 24497), (439, 24707), (441, 24719), (458, 24833), (483, 25049), (492, 25133), (497, 25157), (499, 25166),

Gene: Tweety_18 Start: 17451, Stop: 19988, Start Num: 56

Candidate Starts for Tweety_18:

(54, 17439), (Start: 56 @17451 has 208 MA's), (66, 17472), (Start: 75 @17493 has 1 MA's), (84, 17532), (104, 17601), (106, 17610), (107, 17613), (113, 17631), (119, 17664), (122, 17679), (132, 17727), (154, 17838), (155, 17841), (163, 17871), (167, 17886), (180, 17964), (184, 17988), (194, 18054), (202, 18099), (207, 18129), (208, 18135), (210, 18153), (217, 18177), (219, 18186), (225, 18219), (226, 18225), (232, 18255), (241, 18294), (242, 18306), (244, 18315), (247, 18330), (248, 18333), (268, 18444), (269, 18447), (270, 18456), (271, 18462), (274, 18477), (275, 18480), (277, 18501), (285, 18531), (287, 18543), (292, 18576), (304, 18642), (310, 18687), (311, 18690), (317, 18717), (319, 18723), (328, 18777), (329, 18780), (343, 18867), (346, 18882), (348, 18894), (349,

18897), (358, 18963), (364, 18987), (366, 19008), (368, 19017), (375, 19059), (378, 19077), (379, 19080), (386, 19116), (387, 19134), (391, 19146), (392, 19155), (396, 19182), (406, 19251), (408, 19269), (411, 19278), (413, 19290), (417, 19326), (421, 19356), (425, 19377), (430, 19401), (433, 19437), (440, 19491), (446, 19551), (453, 19593), (470, 19728), (474, 19752), (480, 19806), (483, 19854), (489, 19896), (491, 19920), (492, 19923),

Gene: Ukulele_26 Start: 22042, Stop: 24438, Start Num: 88

Candidate Starts for Ukulele_26:

(Start: 88 @22042 has 116 MA's), (129, 22219), (134, 22240), (173, 22387), (201, 22561), (207, 22594), (213, 22630), (232, 22723), (244, 22783), (248, 22801), (272, 22933), (280, 22978), (304, 23110), (310, 23155), (325, 23215), (342, 23329), (346, 23350), (352, 23389), (355, 23410), (357, 23425), (385, 23575), (386, 23581), (387, 23599), (397, 23653), (408, 23737), (424, 23830), (458, 24076), (483, 24292), (492, 24376), (499, 24409),

Gene: UncleRicky_19 Start: 17219, Stop: 19756, Start Num: 56

Candidate Starts for UncleRicky_19:

(54, 17207), (Start: 56 @17219 has 208 MA's), (66, 17240), (Start: 75 @17261 has 1 MA's), (84, 17300), (104, 17369), (106, 17378), (107, 17381), (113, 17399), (119, 17432), (122, 17447), (132, 17495), (152, 17600), (155, 17609), (166, 17651), (167, 17654), (180, 17732), (184, 17756), (194, 17822), (202, 17867), (207, 17897), (208, 17903), (210, 17921), (217, 17945), (219, 17954), (225, 17987), (226, 17993), (232, 18023), (241, 18062), (242, 18074), (244, 18083), (247, 18098), (248, 18101), (268, 18212), (270, 18224), (271, 18230), (274, 18245), (275, 18248), (277, 18269), (285, 18299), (287, 18311), (292, 18344), (304, 18410), (310, 18455), (311, 18458), (317, 18485), (319, 18491), (328, 18545), (329, 18548), (331, 18575), (346, 18650), (348, 18662), (349, 18665), (358, 18731), (364, 18755), (368, 18785), (375, 18827), (378, 18845), (379, 18848), (386, 18884), (387, 18902), (392, 18923), (396, 18950), (406, 19019), (408, 19037), (411, 19046), (413, 19058), (417, 19094), (421, 19124), (424, 19133), (425, 19145), (433, 19205), (440, 19259), (446, 19319), (453, 19361), (462, 19439), (470, 19496), (474, 19520), (480, 19574), (483, 19622), (489, 19664), (491, 19688), (492, 19691),

Gene: VRedHorse_18 Start: 17564, Stop: 20101, Start Num: 56

Candidate Starts for VRedHorse_18:

(54, 17552), (Start: 56 @17564 has 208 MA's), (66, 17585), (Start: 75 @17606 has 1 MA's), (83, 17642), (84, 17645), (104, 17714), (106, 17723), (107, 17726), (113, 17744), (119, 17777), (122, 17792), (132, 17840), (152, 17945), (154, 17951), (155, 17954), (166, 17996), (167, 17999), (184, 18101), (194, 18167), (202, 18212), (207, 18242), (208, 18248), (210, 18266), (217, 18290), (219, 18299), (225, 18332), (226, 18338), (237, 18389), (241, 18407), (242, 18419), (244, 18428), (247, 18443), (249, 18449), (268, 18557), (270, 18569), (271, 18575), (274, 18590), (275, 18593), (277, 18614), (285, 18644), (287, 18656), (292, 18689), (304, 18755), (310, 18800), (311, 18803), (317, 18830), (319, 18836), (328, 18890), (329, 18893), (346, 18995), (348, 19007), (349, 19010), (358, 19076), (364, 19100), (366, 19121), (368, 19130), (378, 19190), (379, 19193), (386, 19229), (387, 19247), (392, 19268), (396, 19295), (406, 19364), (408, 19382), (411, 19391), (413, 19403), (417, 19439), (425, 19490), (428, 19508), (433, 19550), (440, 19604), (453, 19706), (462, 19784), (470, 19841), (474, 19865), (480, 19919), (483, 19967), (491, 20033), (492, 20036),

Gene: Veteran_18 Start: 17402, Stop: 19939, Start Num: 56

Candidate Starts for Veteran_18:

(Start: 56 @17402 has 208 MA's), (66, 17423), (Start: 75 @17444 has 1 MA's), (84, 17483), (104, 17552), (106, 17561), (107, 17564), (113, 17582), (119, 17615), (122, 17630), (152, 17783), (155, 17792), (167, 17837), (183, 17936), (184, 17939), (194, 18005), (207, 18080), (208, 18086), (217, 18128), (218, 18134), (219, 18137), (225, 18170), (226, 18176), (232, 18206), (237, 18227), (242, 18257), (244, 18266), (247, 18281), (248, 18284), (268, 18395), (269, 18398), (270, 18407), (271, 18413), (274, 18428), (275, 18431), (277, 18452), (285, 18482), (287, 18494), (292, 18527), (310,

18638), (311, 18641), (317, 18668), (319, 18674), (328, 18728), (329, 18731), (343, 18818), (346, 18833), (348, 18845), (349, 18848), (358, 18914), (364, 18938), (366, 18959), (368, 18968), (375, 19010), (378, 19028), (379, 19031), (385, 19061), (387, 19085), (391, 19097), (392, 19106), (406, 19202), (408, 19220), (411, 19229), (413, 19241), (417, 19277), (421, 19307), (424, 19316), (425, 19328), (433, 19388), (440, 19442), (446, 19502), (453, 19544), (470, 19679), (474, 19703), (480, 19757), (483, 19805), (489, 19847), (491, 19871), (492, 19874),

Gene: Visconti_30 Start: 24326, Stop: 26596, Start Num: 135

Candidate Starts for Visconti_30:

(Start: 135 @24326 has 20 MA's), (167, 24461), (169, 24470), (191, 24644), (192, 24650), (195, 24662), (224, 24815), (226, 24830), (230, 24845), (300, 25226), (301, 25232), (309, 25277), (327, 25364), (359, 25565), (360, 25571), (369, 25619), (374, 25649), (377, 25673), (405, 25862), (410, 25889), (417, 25937), (430, 26009), (434, 26048), (436, 26069), (438, 26084), (440, 26102), (442, 26132), (453, 26216), (478, 26417), (483, 26459), (502, 26585),

Gene: Vorrps_58 Start: 36138, Stop: 38648, Start Num: 73

Candidate Starts for Vorrps_58:

(Start: 73 @36138 has 22 MA's), (79, 36171), (93, 36240), (94, 36243), (102, 36267), (107, 36291), (114, 36315), (119, 36348), (159, 36555), (162, 36567), (163, 36570), (187, 36717), (188, 36747), (194, 36771), (202, 36801), (203, 36804), (207, 36831), (210, 36855), (218, 36885), (229, 36942), (233, 36966), (241, 37002), (242, 37014), (247, 37038), (248, 37041), (254, 37083), (274, 37179), (275, 37182), (323, 37437), (346, 37581), (355, 37641), (365, 37713), (366, 37716), (383, 37812), (408, 37986), (413, 38007), (426, 38100), (429, 38112), (440, 38202), (451, 38277), (461, 38322), (485, 38523), (490, 38577), (495, 38592),

Gene: Wachhund_18 Start: 17422, Stop: 19959, Start Num: 56

Candidate Starts for Wachhund_18:

(Start: 56 @17422 has 208 MA's), (66, 17443), (Start: 75 @17464 has 1 MA's), (84, 17503), (104, 17572), (106, 17581), (107, 17584), (113, 17602), (122, 17650), (154, 17809), (155, 17812), (167, 17857), (180, 17935), (183, 17956), (184, 17959), (194, 18025), (207, 18100), (208, 18106), (217, 18148), (218, 18154), (219, 18157), (225, 18190), (226, 18196), (232, 18226), (237, 18247), (242, 18277), (244, 18286), (264, 18394), (268, 18415), (269, 18418), (270, 18427), (271, 18433), (274, 18448), (275, 18451), (277, 18472), (285, 18502), (287, 18514), (292, 18547), (310, 18658), (311, 18661), (317, 18688), (319, 18694), (328, 18748), (329, 18751), (343, 18838), (346, 18853), (348, 18865), (349, 18868), (358, 18934), (366, 18979), (368, 18988), (378, 19048), (379, 19051), (386, 19087), (387, 19105), (391, 19117), (392, 19126), (396, 19153), (406, 19222), (408, 19240), (411, 19249), (413, 19261), (417, 19297), (421, 19327), (425, 19348), (430, 19372), (433, 19408), (440, 19462), (446, 19522), (453, 19564), (470, 19699), (474, 19723), (480, 19777), (483, 19825), (489, 19867), (491, 19891), (492, 19894),

Gene: WaldoWhy_31 Start: 24322, Stop: 26592, Start Num: 135

Candidate Starts for WaldoWhy_31:

(Start: 135 @24322 has 20 MA's), (167, 24457), (169, 24466), (191, 24640), (192, 24646), (195, 24658), (224, 24811), (226, 24826), (230, 24841), (300, 25222), (301, 25228), (309, 25273), (327, 25360), (359, 25561), (360, 25567), (369, 25615), (374, 25645), (377, 25669), (405, 25858), (410, 25885), (417, 25933), (430, 26005), (434, 26044), (436, 26065), (438, 26080), (440, 26098), (442, 26128), (453, 26212), (478, 26413), (483, 26455), (502, 26581),

Gene: Wanda_39 Start: 29807, Stop: 32362, Start Num: 56

Candidate Starts for Wanda_39:

(Start: 56 @29807 has 208 MA's), (113, 30002), (119, 30038), (122, 30053), (132, 30101), (154, 30212), (155, 30215), (163, 30245), (167, 30260), (180, 30338), (184, 30362), (194, 30428), (202, 30473), (207, 30503), (208, 30509), (210, 30527), (217, 30551), (219, 30560), (225, 30593), (226,

30599), (232, 30629), (241, 30668), (242, 30680), (244, 30689), (247, 30704), (248, 30707), (268, 30818), (269, 30821), (270, 30830), (271, 30836), (274, 30851), (275, 30854), (277, 30875), (285, 30905), (287, 30917), (292, 30950), (304, 31016), (310, 31061), (311, 31064), (317, 31091), (319, 31097), (328, 31151), (329, 31154), (343, 31241), (346, 31256), (348, 31268), (349, 31271), (358, 31337), (366, 31382), (368, 31391), (378, 31451), (379, 31454), (386, 31490), (387, 31508), (391, 31520), (392, 31529), (396, 31556), (406, 31625), (408, 31643), (411, 31652), (413, 31664), (417, 31700), (421, 31730), (425, 31751), (430, 31775), (433, 31811), (440, 31865), (446, 31925), (453, 31967), (470, 32102), (474, 32126), (480, 32180), (483, 32228), (489, 32270), (491, 32294), (492, 32297),

Gene: Wee_19 Start: 17971, Stop: 20508, Start Num: 56

Candidate Starts for Wee_19:

(54, 17959), (Start: 56 @17971 has 208 MA's), (66, 17992), (Start: 75 @18013 has 1 MA's), (84, 18052), (104, 18121), (106, 18130), (107, 18133), (113, 18151), (119, 18184), (122, 18199), (132, 18247), (152, 18352), (154, 18358), (155, 18361), (166, 18403), (167, 18406), (180, 18484), (194, 18574), (202, 18619), (207, 18649), (208, 18655), (210, 18673), (217, 18697), (219, 18706), (225, 18739), (226, 18745), (232, 18775), (241, 18814), (242, 18826), (244, 18835), (247, 18850), (248, 18853), (268, 18964), (269, 18967), (270, 18976), (271, 18982), (274, 18997), (275, 19000), (277, 19021), (285, 19051), (287, 19063), (292, 19096), (304, 19162), (310, 19207), (311, 19210), (317, 19237), (319, 19243), (328, 19297), (329, 19300), (343, 19387), (346, 19402), (348, 19414), (349, 19417), (358, 19483), (366, 19528), (368, 19537), (378, 19597), (379, 19600), (386, 19636), (387, 19654), (391, 19666), (392, 19675), (396, 19702), (406, 19771), (408, 19789), (411, 19798), (413, 19810), (417, 19846), (421, 19876), (425, 19897), (430, 19921), (433, 19957), (440, 20011), (446, 20071), (453, 20113), (470, 20248), (474, 20272), (480, 20326), (483, 20374), (489, 20416), (491, 20440), (492, 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), (5, 24351), (8, 24534), (10, 24615), (14, 24714), (15, 24738), (16, 24756), (23, 24915), (26, 24948), (37, 24996), (41, 25011), (42, 25035), (61, 25161), (65, 25170), (109, 25356), (143, 25557), (175, 25734), (188, 25833), (196, 25866), (206, 25911), (208, 25923), (217, 25965), (220, 25977), (231, 26043), (244, 26127), (246, 26142), (252, 26172), (271, 26277), (282, 26328), (289, 26373), (296, 26418), (306, 26463), (308, 26484), (310, 26502), (311, 26505), (312, 26511), (313, 26514), (335, 26652), (344, 26700), (345, 26706), (354, 26766), (357, 26787), (374, 26880), (382, 26940), (385, 26949), (386, 26955), (388, 26976), (403, 27081), (414, 27141), (424, 27207), (425, 27219), (428, 27237), (430, 27243), (460, 27477), (463, 27516), (469, 27561), (473, 27591), (482, 27684), (486, 27711),

Gene: Whatsapiecost_18 Start: 17447, Stop: 19984, Start Num: 56

Candidate Starts for Whatsapiecost_18:

(54, 17435), (Start: 56 @17447 has 208 MA's), (66, 17468), (Start: 75 @17489 has 1 MA's), (84, 17528), (104, 17597), (106, 17606), (107, 17609), (113, 17627), (119, 17660), (122, 17675), (132, 17723), (154, 17834), (155, 17837), (163, 17867), (166, 17879), (167, 17882), (180, 17960), (184, 17984), (194, 18050), (202, 18095), (207, 18125), (208, 18131), (210, 18149), (217, 18173), (219, 18182), (225, 18215), (226, 18221), (232, 18251), (241, 18290), (242, 18302), (244, 18311), (247, 18326), (248, 18329), (268, 18440), (269, 18443), (270, 18452), (271, 18458), (274, 18473), (275, 18476), (277, 18497), (285, 18527), (287, 18539), (292, 18572), (310, 18683), (311, 18686), (317, 18713), (319, 18719), (328, 18773), (329, 18776), (346, 18878), (348, 18890), (349, 18893), (358, 18959), (364, 18983), (366, 19004), (368, 19013), (378, 19073), (379, 19076), (386, 19112), (387, 19130), (391, 19142), (392, 19151), (396, 19178), (406, 19247), (408, 19265), (411, 19274), (413, 19286), (417, 19322), (421, 19352), (425, 19373), (430, 19397), (433, 19433), (440, 19487), (446, 19547), (453, 19589), (462, 19667), (470, 19724), (474, 19748), (480, 19802), (483, 19850), (489, 19892), (491, 19916), (492, 19919),

Gene: Whouxphf_18 Start: 17504, Stop: 20041, Start Num: 56

Candidate Starts for Whouxphf_18:

(Start: 56 @17504 has 208 MA's), (66, 17525), (Start: 75 @17546 has 1 MA's), (84, 17585), (104, 17654), (106, 17663), (107, 17666), (113, 17684), (122, 17732), (154, 17891), (155, 17894), (167, 17939), (183, 18038), (184, 18041), (207, 18182), (208, 18188), (217, 18230), (218, 18236), (219, 18239), (225, 18272), (226, 18278), (232, 18308), (237, 18329), (242, 18359), (244, 18368), (264, 18476), (267, 18488), (268, 18497), (269, 18500), (270, 18509), (271, 18515), (274, 18530), (275, 18533), (277, 18554), (287, 18596), (292, 18629), (317, 18770), (319, 18776), (328, 18830), (329, 18833), (331, 18860), (346, 18935), (348, 18947), (349, 18950), (358, 19016), (364, 19040), (366, 19061), (368, 19070), (375, 19112), (378, 19130), (379, 19133), (385, 19163), (387, 19187), (392, 19208), (406, 19304), (408, 19322), (411, 19331), (413, 19343), (417, 19379), (421, 19409), (424, 19418), (425, 19430), (433, 19490), (453, 19646), (462, 19724), (470, 19781), (474, 19805), (480, 19859), (483, 19907), (486, 19928), (491, 19973), (492, 19976),

Gene: Wiggin_29 Start: 22788, Stop: 25184, Start Num: 88

Candidate Starts for Wiggin_29:

(Start: 88 @22788 has 116 MA's), (129, 22965), (134, 22986), (173, 23133), (201, 23307), (207, 23340), (213, 23376), (232, 23469), (244, 23529), (248, 23547), (272, 23679), (280, 23724), (304, 23856), (310, 23901), (325, 23961), (342, 24075), (346, 24096), (352, 24135), (355, 24156), (357, 24171), (385, 24321), (386, 24327), (387, 24345), (397, 24399), (408, 24483), (424, 24576), (458, 24822), (483, 25038), (492, 25122), (499, 25155),

Gene: Wildcat_43 Start: 28342, Stop: 30909, Start Num: 57

Candidate Starts for Wildcat_43:

(Start: 57 @28342 has 6 MA's), (78, 28411), (110, 28534), (112, 28540), (113, 28543), (117, 28567), (121, 28588), (151, 28744), (153, 28750), (155, 28756), (163, 28786), (164, 28792), (169, 28813), (170, 28822), (179, 28882), (189, 28960), (208, 29059), (214, 29092), (218, 29107), (219, 29110), (226, 29149), (237, 29200), (241, 29218), (244, 29239), (245, 29245), (251, 29272), (254, 29299), (268, 29368), (273, 29392), (276, 29413), (280, 29434), (283, 29443), (287, 29464), (292, 29497), (293, 29500), (300, 29551), (304, 29563), (315, 29629), (320, 29647), (326, 29686), (346, 29803), (353, 29848), (363, 29905), (366, 29929), (368, 29938), (372, 29956), (378, 30001), (385, 30034), (389, 30070), (416, 30244), (417, 30262), (418, 30268), (427, 30325), (469, 30649), (472, 30667), (477, 30718), (484, 30781), (491, 30856),

Gene: Wildflower_56 Start: 35650, Stop: 38160, Start Num: 73

Candidate Starts for Wildflower_56:

(Start: 73 @35650 has 22 MA's), (79, 35683), (93, 35752), (94, 35755), (102, 35779), (107, 35803), (114, 35827), (119, 35860), (159, 36067), (162, 36079), (163, 36082), (187, 36229), (188, 36259), (194, 36283), (202, 36313), (203, 36316), (207, 36343), (210, 36367), (218, 36397), (229, 36454), (241, 36514), (242, 36526), (247, 36550), (248, 36553), (254, 36595), (274, 36691), (275, 36694), (323, 36949), (346, 37093), (355, 37153), (365, 37225), (366, 37228), (383, 37324), (408, 37498), (413, 37519), (426, 37612), (429, 37624), (440, 37714), (451, 37789), (461, 37834), (485, 38035), (490, 38089), (495, 38104),

Gene: WillSterrel_19 Start: 18757, Stop: 21294, Start Num: 56

Candidate Starts for WillSterrel_19:

(Start: 56 @18757 has 208 MA's), (66, 18778), (Start: 75 @18799 has 1 MA's), (84, 18838), (104, 18907), (106, 18916), (107, 18919), (113, 18937), (122, 18985), (152, 19138), (155, 19147), (167, 19192), (183, 19291), (184, 19294), (194, 19360), (207, 19435), (208, 19441), (210, 19459), (217, 19483), (218, 19489), (219, 19492), (225, 19525), (226, 19531), (232, 19561), (237, 19582), (242, 19612), (244, 19621), (247, 19636), (248, 19639), (268, 19750), (269, 19753), (270, 19762), (271, 19768), (274, 19783), (275, 19786), (277, 19807), (285, 19837), (287, 19849), (292, 19882), (310,

19993), (311, 19996), (317, 20023), (319, 20029), (328, 20083), (329, 20086), (343, 20173), (346, 20188), (348, 20200), (349, 20203), (358, 20269), (364, 20293), (366, 20314), (368, 20323), (378, 20383), (379, 20386), (386, 20422), (387, 20440), (391, 20452), (392, 20461), (396, 20488), (404, 20545), (406, 20557), (408, 20575), (411, 20584), (413, 20596), (417, 20632), (421, 20662), (424, 20671), (425, 20683), (433, 20743), (440, 20797), (446, 20857), (453, 20899), (470, 21034), (474, 21058), (480, 21112), (483, 21160), (489, 21202), (491, 21226), (492, 21229),

Gene: Willez_25 Start: 21788, Stop: 24184, Start Num: 88

Candidate Starts for Willez_25:

(Start: 88 @21788 has 116 MA's), (129, 21965), (134, 21986), (173, 22133), (196, 22274), (201, 22307), (207, 22340), (213, 22376), (232, 22469), (244, 22529), (248, 22547), (272, 22679), (280, 22724), (304, 22856), (310, 22901), (325, 22961), (342, 23075), (346, 23096), (352, 23135), (355, 23156), (357, 23171), (385, 23321), (386, 23327), (387, 23345), (397, 23399), (408, 23483), (424, 23576), (458, 23822), (483, 24038), (492, 24122), (499, 24155),

Gene: Winget_59 Start: 36356, Stop: 38866, Start Num: 73

Candidate Starts for Winget_59:

(Start: 73 @36356 has 22 MA's), (79, 36389), (93, 36458), (94, 36461), (102, 36485), (107, 36509), (114, 36533), (119, 36566), (159, 36773), (162, 36785), (163, 36788), (187, 36935), (188, 36965), (194, 36989), (202, 37019), (203, 37022), (207, 37049), (210, 37073), (218, 37103), (229, 37160), (233, 37184), (241, 37220), (242, 37232), (247, 37256), (248, 37259), (254, 37301), (274, 37397), (275, 37400), (323, 37655), (346, 37799), (355, 37859), (365, 37931), (366, 37934), (383, 38030), (408, 38204), (413, 38225), (426, 38318), (429, 38330), (440, 38420), (451, 38495), (461, 38540), (485, 38741), (490, 38795), (495, 38810),

Gene: XFactor_18 Start: 17403, Stop: 19940, Start Num: 56

Candidate Starts for XFactor_18:

(54, 17391), (Start: 56 @17403 has 208 MA's), (66, 17424), (Start: 75 @17445 has 1 MA's), (84, 17484), (104, 17553), (106, 17562), (107, 17565), (113, 17583), (119, 17616), (122, 17631), (132, 17679), (154, 17790), (155, 17793), (163, 17823), (167, 17838), (180, 17916), (184, 17940), (194, 18006), (202, 18051), (207, 18081), (208, 18087), (210, 18105), (217, 18129), (219, 18138), (225, 18171), (226, 18177), (232, 18207), (241, 18246), (242, 18258), (244, 18267), (247, 18282), (248, 18285), (268, 18396), (269, 18399), (270, 18408), (271, 18414), (274, 18429), (275, 18432), (277, 18453), (285, 18483), (287, 18495), (292, 18528), (310, 18639), (311, 18642), (317, 18669), (319, 18675), (328, 18729), (329, 18732), (346, 18834), (348, 18846), (349, 18849), (358, 18915), (364, 18939), (366, 18960), (368, 18969), (378, 19029), (379, 19032), (386, 19068), (387, 19086), (391, 19098), (392, 19107), (396, 19134), (406, 19203), (408, 19221), (411, 19230), (413, 19242), (417, 19278), (421, 19308), (425, 19329), (430, 19353), (433, 19389), (440, 19443), (446, 19503), (453, 19545), (462, 19623), (470, 19680), (474, 19704), (480, 19758), (483, 19806), (489, 19848), (491, 19872), (492, 19875),

Gene: Xandras_28 Start: 22274, Stop: 24670, Start Num: 88

Candidate Starts for Xandras_28:

(Start: 88 @22274 has 116 MA's), (129, 22451), (134, 22472), (173, 22619), (201, 22793), (207, 22826), (213, 22862), (232, 22955), (244, 23015), (248, 23033), (272, 23165), (280, 23210), (304, 23342), (310, 23387), (325, 23447), (342, 23561), (346, 23582), (352, 23621), (355, 23642), (357, 23657), (385, 23807), (386, 23813), (387, 23831), (397, 23885), (408, 23969), (424, 24062), (458, 24308), (483, 24524), (492, 24608), (499, 24641),

Gene: YassJohnny_27 Start: 22799, Stop: 25195, Start Num: 88

Candidate Starts for YassJohnny_27:

(Start: 88 @22799 has 116 MA's), (129, 22976), (134, 22997), (173, 23144), (196, 23285), (201, 23318), (207, 23351), (213, 23387), (232, 23480), (244, 23540), (248, 23558), (272, 23690), (280,

23735), (304, 23867), (310, 23912), (342, 24086), (346, 24107), (352, 24146), (355, 24167), (357, 24182), (386, 24338), (387, 24356), (397, 24410), (408, 24494), (424, 24587), (458, 24833), (483, 25049), (492, 25133), (499, 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), (5, 24644), (8, 24827), (10, 24908), (14, 25007), (15, 25031), (16, 25049), (23, 25208), (26, 25241), (37, 25289), (42, 25328), (61, 25454), (65, 25463), (109, 25649), (143, 25850), (175, 26027), (188, 26126), (196, 26159), (206, 26204), (217, 26258), (219, 26267), (220, 26270), (231, 26336), (244, 26420), (246, 26435), (252, 26465), (271, 26570), (282, 26621), (289, 26666), (296, 26711), (306, 26756), (308, 26777), (310, 26795), (311, 26798), (312, 26804), (313, 26807), (335, 26945), (344, 26993), (345, 26999), (354, 27059), (357, 27080), (374, 27173), (382, 27233), (385, 27242), (386, 27248), (388, 27269), (414, 27434), (424, 27500), (425, 27512), (428, 27530), (430, 27536), (460, 27770), (463, 27809), (469, 27854), (473, 27884), (482, 27977), (486, 28004),

Gene: Yorick_18 Start: 17404, Stop: 19956, Start Num: 56

Candidate Starts for Yorick_18:

(Start: 56 @17404 has 208 MA's), (84, 17485), (104, 17554), (106, 17563), (107, 17566), (113, 17584), (122, 17632), (131, 17677), (154, 17791), (155, 17794), (158, 17806), (164, 17827), (166, 17836), (167, 17839), (176, 17887), (180, 17917), (188, 17983), (196, 18016), (202, 18052), (206, 18076), (218, 18136), (219, 18139), (222, 18157), (235, 18220), (236, 18223), (241, 18241), (244, 18262), (248, 18280), (253, 18307), (256, 18328), (263, 18361), (270, 18403), (271, 18409), (272, 18412), (275, 18427), (279, 18454), (280, 18457), (285, 18478), (287, 18490), (292, 18523), (308, 18616), (328, 18724), (330, 18748), (331, 18754), (336, 18772), (337, 18775), (340, 18799), (346, 18829), (350, 18853), (355, 18889), (356, 18895), (357, 18904), (363, 18931), (373, 18994), (375, 19018), (376, 19033), (385, 19075), (393, 19126), (407, 19222), (408, 19237), (411, 19246), (415, 19270), (424, 19333), (430, 19369), (468, 19675), (474, 19720), (483, 19822),

Gene: Yoshi_24 Start: 17092, Stop: 19641, Start Num: 49

Candidate Starts for Yoshi_24:

(47, 17083), (Start: 49 @17092 has 7 MA's), (Start: 56 @17152 has 208 MA's), (69, 17185), (72, 17188), (92, 17257), (100, 17287), (143, 17467), (147, 17482), (155, 17518), (156, 17524), (164, 17545), (171, 17569), (175, 17593), (199, 17740), (202, 17749), (207, 17773), (210, 17797), (217, 17821), (218, 17827), (222, 17848), (226, 17869), (232, 17899), (239, 17929), (242, 17950), (260, 18043), (263, 18058), (264, 18067), (268, 18088), (269, 18091), (285, 18175), (286, 18178), (287, 18187), (293, 18223), (298, 18262), (302, 18283), (304, 18286), (309, 18322), (313, 18343), (328, 18421), (329, 18424), (339, 18478), (348, 18538), (362, 18625), (364, 18631), (365, 18649), (366, 18652), (374, 18688), (382, 18742), (385, 18751), (395, 18829), (398, 18847), (401, 18883), (402, 18886), (406, 18904), (407, 18907), (408, 18922), (417, 18979), (419, 18991), (430, 19054), (433, 19087), (443, 19174), (450, 19222), (452, 19246), (456, 19273), (458, 19282), (461, 19321), (467, 19360), (470, 19384), (473, 19405), (483, 19501), (486, 19522), (495, 19585), (499, 19612), (501, 19621),

Gene: Youngblood_26 Start: 22452, Stop: 24848, Start Num: 88

Candidate Starts for Youngblood_26:

(Start: 88 @22452 has 116 MA's), (129, 22629), (134, 22650), (173, 22797), (196, 22938), (201, 22971), (207, 23004), (213, 23040), (232, 23133), (244, 23193), (248, 23211), (272, 23343), (280, 23388), (304, 23520), (310, 23565), (325, 23625), (342, 23739), (346, 23760), (352, 23799), (355, 23820), (357, 23835), (386, 23991), (387, 24009), (397, 24063), (408, 24147), (424, 24240), (458, 24486), (483, 24702), (492, 24786), (499, 24819),

Gene: YungJamal_63 Start: 37548, Stop: 40058, Start Num: 73

Candidate Starts for YungJamal_63:

(Start: 73 @37548 has 22 MA's), (79, 37581), (93, 37650), (94, 37653), (102, 37677), (107, 37701), (114, 37725), (119, 37758), (159, 37965), (162, 37977), (163, 37980), (187, 38127), (188, 38157), (194, 38181), (202, 38211), (203, 38214), (207, 38241), (210, 38265), (218, 38295), (229, 38352), (241, 38412), (242, 38424), (247, 38448), (248, 38451), (254, 38493), (274, 38589), (275, 38592), (323, 38847), (346, 38991), (355, 39051), (365, 39123), (366, 39126), (383, 39222), (408, 39396), (413, 39417), (426, 39510), (429, 39522), (440, 39612), (451, 39687), (461, 39732), (485, 39933), (490, 39987), (495, 40002),

Gene: Zakhe101_58 Start: 36194, Stop: 38704, Start Num: 73

Candidate Starts for Zakhe101_58:

(Start: 73 @36194 has 22 MA's), (79, 36227), (93, 36296), (94, 36299), (102, 36323), (107, 36347), (114, 36371), (119, 36404), (159, 36611), (162, 36623), (163, 36626), (187, 36773), (188, 36803), (194, 36827), (202, 36857), (203, 36860), (207, 36887), (210, 36911), (218, 36941), (229, 36998), (241, 37058), (242, 37070), (247, 37094), (248, 37097), (254, 37139), (274, 37235), (275, 37238), (323, 37493), (346, 37637), (355, 37697), (365, 37769), (366, 37772), (383, 37868), (408, 38042), (413, 38063), (426, 38156), (429, 38168), (440, 38258), (451, 38333), (461, 38378), (485, 38579), (490, 38633), (495, 38648),

Gene: Zapner_25 Start: 17617, Stop: 20169, Start Num: 49

Candidate Starts for Zapner_25:

(47, 17608), (Start: 49 @17617 has 7 MA's), (Start: 56 @17677 has 208 MA's), (72, 17713), (100, 17812), (133, 17953), (143, 17992), (147, 18007), (155, 18043), (156, 18049), (157, 18052), (164, 18070), (171, 18094), (175, 18118), (176, 18121), (199, 18265), (202, 18274), (207, 18298), (210, 18322), (217, 18346), (218, 18352), (222, 18373), (223, 18376), (226, 18394), (232, 18427), (239, 18457), (242, 18478), (260, 18571), (263, 18586), (264, 18595), (268, 18616), (269, 18619), (276, 18661), (285, 18703), (286, 18706), (287, 18715), (290, 18742), (293, 18751), (298, 18790), (302, 18811), (304, 18814), (309, 18850), (313, 18871), (328, 18949), (329, 18952), (339, 19006), (348, 19066), (362, 19153), (364, 19159), (366, 19180), (374, 19216), (382, 19270), (385, 19279), (395, 19357), (398, 19375), (401, 19411), (402, 19414), (406, 19432), (408, 19450), (417, 19507), (419, 19519), (430, 19582), (433, 19615), (443, 19702), (450, 19750), (452, 19774), (458, 19810), (461, 19849), (467, 19888), (470, 19912), (473, 19933), (483, 20029), (486, 20050), (493, 20110), (495, 20113), (499, 20140),

Gene: Zenon_31 Start: 24639, Stop: 28139, Start Num: 1

Candidate Starts for Zenon_31:

(Start: 1 @24639 has 8 MA's), (4, 24651), (5, 24663), (8, 24846), (10, 24927), (14, 25026), (15, 25050), (16, 25068), (23, 25227), (26, 25260), (37, 25308), (42, 25347), (61, 25473), (65, 25482), (109, 25668), (143, 25869), (175, 26046), (188, 26145), (196, 26178), (206, 26223), (208, 26235), (217, 26277), (220, 26289), (231, 26355), (244, 26439), (246, 26454), (252, 26484), (271, 26589), (282, 26640), (289, 26685), (296, 26730), (306, 26775), (308, 26796), (310, 26814), (311, 26817), (312, 26823), (313, 26826), (335, 26964), (344, 27012), (345, 27018), (354, 27078), (357, 27099), (374, 27192), (382, 27252), (385, 27261), (386, 27267), (388, 27288), (414, 27453), (424, 27519), (425, 27531), (428, 27549), (430, 27555), (460, 27789), (463, 27828), (469, 27873), (473, 27903), (482, 27996), (486, 28023),

Gene: Zerg_18 Start: 17367, Stop: 19904, Start Num: 56

Candidate Starts for Zerg_18:

(Start: 56 @17367 has 208 MA's), (90, 17457), (104, 17517), (106, 17526), (107, 17529), (113, 17547), (122, 17595), (152, 17748), (155, 17757), (167, 17802), (183, 17901), (184, 17904), (194, 17970), (207, 18045), (208, 18051), (210, 18069), (217, 18093), (218, 18099), (219, 18102), (225, 18135), (226, 18141), (232, 18171), (237, 18192), (242, 18222), (244, 18231), (247, 18246), (248, 18249), (268, 18360), (269, 18363), (270, 18372), (271, 18378), (274, 18393), (275, 18396), (277,

18417), (285, 18447), (287, 18459), (292, 18492), (310, 18603), (311, 18606), (317, 18633), (319, 18639), (328, 18693), (329, 18696), (343, 18783), (346, 18798), (348, 18810), (349, 18813), (358, 18879), (364, 18903), (366, 18924), (368, 18933), (378, 18993), (379, 18996), (386, 19032), (387, 19050), (391, 19062), (392, 19071), (396, 19098), (404, 19155), (406, 19167), (408, 19185), (411, 19194), (413, 19206), (417, 19242), (421, 19272), (424, 19281), (425, 19293), (433, 19353), (440, 19407), (446, 19467), (453, 19509), (470, 19644), (474, 19668), (480, 19722), (483, 19770), (489, 19812), (491, 19836), (492, 19839),

Gene: Zizzle_18 Start: 17375, Stop: 19900, Start Num: 56

Candidate Starts for Zizzle_18:

(Start: 56 @17375 has 208 MA's), (84, 17456), (104, 17525), (106, 17534), (107, 17537), (113, 17555), (122, 17603), (131, 17648), (154, 17762), (155, 17765), (164, 17798), (167, 17810), (180, 17888), (188, 17954), (196, 17987), (204, 18041), (207, 18053), (218, 18107), (219, 18110), (221, 18119), (227, 18152), (235, 18191), (236, 18194), (240, 18209), (241, 18212), (245, 18239), (246, 18245), (247, 18248), (248, 18251), (253, 18278), (255, 18296), (256, 18299), (270, 18374), (274, 18395), (275, 18398), (279, 18425), (285, 18449), (292, 18494), (293, 18497), (300, 18548), (311, 18611), (313, 18620), (318, 18644), (337, 18749), (338, 18752), (346, 18803), (347, 18809), (348, 18815), (349, 18818), (355, 18863), (357, 18878), (363, 18905), (366, 18929), (375, 18980), (378, 18998), (379, 19001), (380, 19013), (391, 19067), (408, 19190), (418, 19253), (428, 19316), (437, 19391), (465, 19592), (488, 19802), (494, 19841), (495, 19844),

Gene: xkcd_27 Start: 22453, Stop: 24849, Start Num: 88

Candidate Starts for xkcd_27:

(Start: 88 @22453 has 116 MA's), (129, 22630), (134, 22651), (173, 22798), (196, 22939), (201, 22972), (207, 23005), (213, 23041), (232, 23134), (244, 23194), (248, 23212), (272, 23344), (280, 23389), (304, 23521), (310, 23566), (342, 23740), (346, 23761), (352, 23800), (355, 23821), (357, 23836), (386, 23992), (387, 24010), (397, 24064), (408, 24148), (424, 24241), (458, 24487), (483, 24703), (492, 24787), (499, 24820),