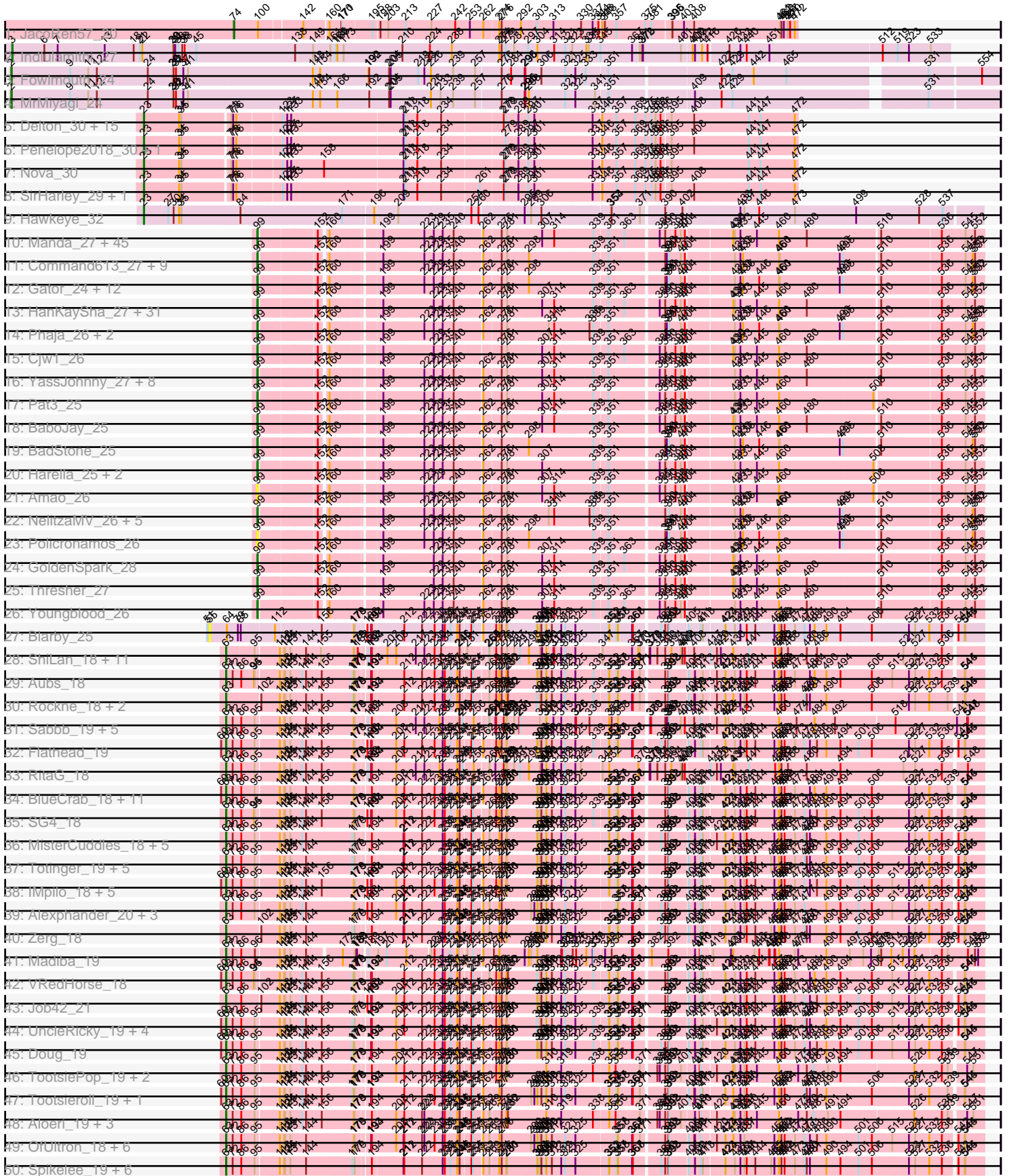
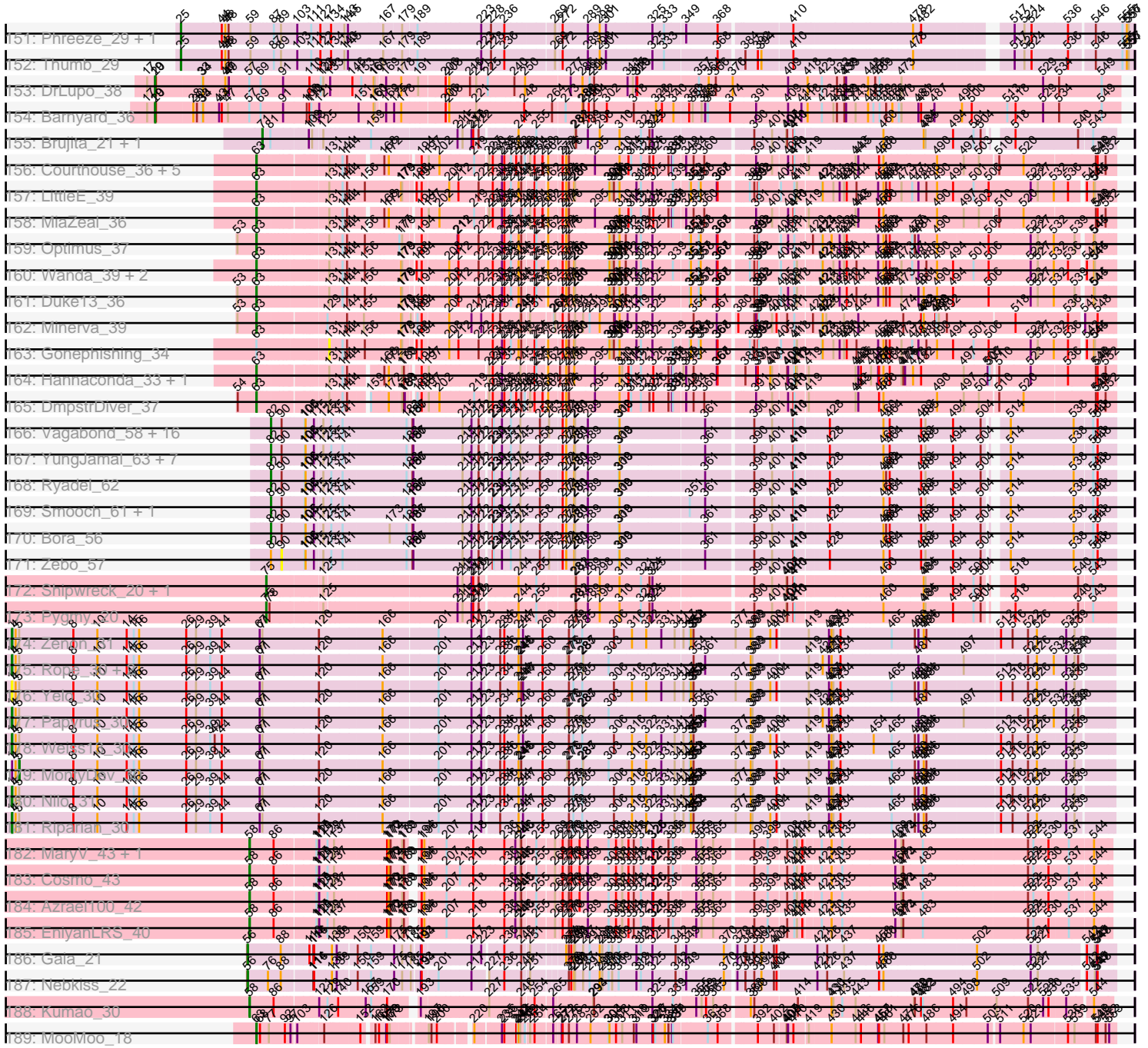


Pham 202566



Pham 202566



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 202566 Report

This analysis was run 01/18/25 on database version 583.

Pham number 202566 has 469 members, 27 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, Palpatine_26, HufflyPuff_25, Petra64142_28, FireRed_26, Phaux_25, StellaBean_26, GooberAzure_28, TBrady12_28, AmericanBeauty_28, MPhalcon_25, Misfit_26, Paperbeatsrock_28, Murica_25, Nala_26, Argent26_28, MISSy_25, Nimrod_26, Highbury_27, SophKB_26, Gage_28, BugsBunny_24, Saints25_27, Kimchi_28, ShereKhan_28, Stank_29, Qualification_27, Easy2Say_28, Filch_27, 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, StolenFromERC_28, Moldemort_27, Hoonter_28, Lilac_28, 244_28
- Track 14 : Phaja_26, IHOP_26, FairyPath_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 : Policronamos_26
- Track 24 : GoldenSpark_28
- Track 25 : Thresher_27
- Track 26 : Youngblood_26
- Track 27 : Blarby_25
- Track 28 : ShiLan_18, Gandalph_18, Burwell21_18, OlympiaSaint_18, NormanBulbieJr_18, ShowerHandel_18, Priscilla_18, Yorick_18, Jarcob_18, Spoonbill_18, Martik_18, Cabrinians_18
- Track 29 : Aubs_18
- Track 30 : Rockne_18, Llij_18, PMC_18
- Track 31 : Sabbb_19, Mattes_18, BobaPhett_18, Gorge_18, James_18, LilMoolah_18
- Track 32 : Flathead_19
- Track 33 : RitaG_18
- Track 34 : 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 35 : SG4_18
- Track 36 : MisterCuddles_18, GUmbie_18, Girr_18, Veteran_18, Phasih_19, Ruby_18
- Track 37 : Totinger_19, LittleShirley_19, GigiOuiOui_18, Starcevich_19, Vivum_18, Rialto_20
- Track 38 : IMpilo_18, Firehouse51_19, Minnie_19, Leozinho_19, MilleniumForce_19, Whatsapiecost_18
- Track 39 : Alexphander_20, ArcusAngelus_18, DaWorst_20, Chevrolet_18
- Track 40 : Zerg_18
- Track 41 : Madiba_19
- Track 42 : VRedHorse_18
- Track 43 : Job42_21
- Track 44 : UncleRicky_19, Phatniss_19, Drago_19, Lorde_19, Enby_19
- Track 45 : Doug_19
- Track 46 : TootsiePop_19, Awesomesauce_19, Misha28_19
- Track 47 : Tootsieroll_19, Radiance_18
- Track 48 : Aloeri_19, ChickenDinner_19, DocMcStuffins_19, Piper2020_19
- Track 49 : OfUltron_18, Jinglebell_17, Llama_18, Modragons_18, AlpineSix_18, Seabastian_18, Ochi17_18
- Track 50 : Spikelee_19, RedBird_18, BuzzLyseyear_20, WillSterrel_19, RockyHorror_19, IrishSherpFalk_19, Mantra_18
- Track 51 : OwlsT2W_20, Hades_18, DosHalletts_19
- Track 52 : Brushbloom_20
- Track 53 : Phanphagia_18, Coco12_20, Kingsley_19
- Track 54 : Shauna1_18
- Track 55 : StAnnes_18
- Track 56 : Karhdo_18
- Track 57 : Strokeseat_18, Hlubikazi_18, Mandlovu_18
- Track 58 : Dante_18
- Track 59 : Kersh_19
- Track 60 : Mova_19
- Track 61 : Moonbeam_19, Kimberlium_20, Juice456_20, QuickMath_19, MulchExplorer_21

- Track 62 : Mozy_19
- Track 63 : SuperGrey_19
- Track 64 : DotProduct_18
- Track 65 : MinionDave_19, CaptainTrips_19
- Track 66 : lbhubesi_18, Harley_18
- Track 67 : Nitzel_19
- Track 68 : Taj_18, DeadP_18
- Track 69 : Nivrat_18, Lizziana_18
- Track 70 : Wee_19
- Track 71 : Boomer_19
- Track 72 : ByChance_18
- Track 73 : PhesterPhotato_18
- Track 74 : Chuckly_18
- Track 75 : Ramsey_19
- Track 76 : EleanorGeorge_18, KristaRAM_19, Batiatus_18, JalFarm20_20, Fruitloop_18
- Track 77 : Nimbo_18, Blexus_18, Geralt_18, Inventum_18, Deb65_18, Sassafras_18
- Track 78 : XFactor_18, Galactic_18, Filuzino_18
- Track 79 : Che8_18
- Track 80 : Fancypants_18
- Track 81 : ShroomBoi_18
- Track 82 : SwagPiggett_18, TDanisky_18, Philus_18, DRBy19_18, Saal_18, Sparkdehlily_18
- Track 83 : Spartacus_19
- Track 84 : SimranZ1_19
- Track 85 : Whouxphf_18
- Track 86 : DLane_18
- Track 87 : Donkeykong_18
- Track 88 : LunaBlu_19
- Track 89 : Bobi_20
- Track 90 : DoRead_18
- Track 91 : Mutaforma13_18
- Track 92 : Pollywog_21, Ogopogo_21
- Track 93 : Royals2015_18
- Track 94 : Bubbles123_19
- Track 95 : Stap_19
- Track 96 : Wachhund_18
- Track 97 : Phalconet_18
- Track 98 : Oksu_19
- Track 99 : Quico_19, Girafales_19, Florinda_18
- Track 100 : Guppsters_19
- Track 101 : Estave1_18
- Track 102 : Mahavrat_18, Juniper1_18
- Track 103 : Plumbus_19
- Track 104 : Ovechkin_18
- Track 105 : Krakatau_19
- Track 106 : Hegedechwinu_19
- Track 107 : Eish_18
- Track 108 : Hamulus_18
- Track 109 : Empress_19
- Track 110 : Sandalphon_19
- Track 111 : SiSi_18

- Track 112 : Grimmer_19
- Track 113 : Poenanya_18, Doomphist_18
- Track 114 : SassyB_18, PopTart_18
- Track 115 : Seagreen_19
- Track 116 : Cornucopia_19, Marker_19
- Track 117 : Leperchaun_18
- Track 118 : Eradicator_18
- Track 119 : Maravista_18
- Track 120 : Melissauren88_18
- Track 121 : Zizzle_18
- Track 122 : Beakin_19
- Track 123 : Bipolar_18
- Track 124 : Emma_18, Tweety_18
- Track 125 : MadMen_19
- Track 126 : DillTech15_18
- Track 127 : FreddyB_18
- Track 128 : BodEinwohner17_18
- Track 129 : Byougenkin_18
- Track 130 : Fastidio_18
- Track 131 : DirtMcgirt_19
- Track 132 : Ardmore_18
- Track 133 : Latretium_19
- Track 134 : Frankie_19
- Track 135 : Rita_18
- Track 136 : Kenuha5_18
- Track 137 : Zapner_25, Jabbawokkie_26
- Track 138 : Avani_24
- Track 139 : Soul22_24
- Track 140 : Demsculpinboyz_24
- Track 141 : Che9d_24
- Track 142 : Yoshi_24
- Track 143 : Renaud18_20
- Track 144 : LunaStella_20
- Track 145 : ThetaBob_20
- Track 146 : Cornie_20
- Track 147 : Toron_20
- Track 148 : Puissant_28
- Track 149 : Oaker_29
- Track 150 : Damien_29, Cborch11_30, Beckerton_29, Megatron06_31
- Track 151 : Phreeze_29, Konstantine_34
- Track 152 : Thumb_29
- Track 153 : DrLupo_38
- Track 154 : Barnyard_36
- Track 155 : Brujita_21, Island3_21
- Track 156 : Courthouse_36, Squint_35, Porcelain_35, Ariel_36, Superphikiman_36, Lucky2013_36
- Track 157 : LittleE_39
- Track 158 : MiaZeal_36
- Track 159 : Optimus_37
- Track 160 : Wanda_39, BAKA_36, Omega_38
- Track 161 : Duke13_36
- Track 162 : Minerva_39
- Track 163 : Gonephishing_34

- Track 164 : Hannaconda_33, KashFlow_30
- Track 165 : DmpstrDiver_37
- Track 166 : Vagabond_58, Krili_57, SchoolBus_58, Idergollasper_58, Mori_58, Alkhayr_56, NiebruSaylor_57, Schuy_59, Familton_59, Winget_59, MadKillah_59, TelAviv_55, Catdawg_58, Blessica_59, JangDynasty_58, FoulBall_58, Vorrps_58
- Track 167 : YungJamal_63, Wildflower_58, Corndog_61, Shida_58, Dylan_58, Murai_59, Ashwin_60, Zakhe101_58
- Track 168 : Ryadel_62
- Track 169 : Smooch_61, Firecracker_59
- Track 170 : Bora_56
- Track 171 : Zebo_57
- Track 172 : Shipwreck_20, Bogie_20
- Track 173 : Pygmy_20
- Track 174 : Zenon_31
- Track 175 : Rope_30, Send513_30, Candle_30
- Track 176 : Yelo_30
- Track 177 : Papyrus_30
- Track 178 : Weiss13_30
- Track 179 : MontyDev_30
- Track 180 : Nilo_31
- Track 181 : Riparian_30
- Track 182 : MaryV_43, Wildcat_43
- Track 183 : Cosmo_43
- Track 184 : Azrael100_42
- Track 185 : EniyanLRS_40
- Track 186 : Gaia_21
- Track 187 : Nebkiss_22
- Track 188 : Kumao_30
- Track 189 : 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 63, it was called in 221 of the 442 non-draft genes in the pham.

Genes that call this "Most Annotated" start:

- Alexphander_20, Aloeri_19, AlpineSix_18, ArcusAngelus_18, Ardmore_18, Ariel_36, Aubs_18, Awesomesauce_19, BAKA_36, Batiatus_18, Beakin_19, Bipolar_18, Blexus_18, BlueCrab_18, BobaPhett_18, Bobi_20, BodEinwohner17_18, Boomer_19, Brushbloom_20, Bubbles123_19, Burwell21_18, BuzzLyseyear_20, ByChance_18, Byougenkin_18, Cabrinians_18, CaptainTrips_19, Che8_18, Chevrolet_18, 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, DoRead_18, DocMcStuffins_19, Donkeykong_18, Doomphist_18, Dorothy_18, DosHalletts_19, DotProduct_18, Doug_19, Drago_19, Duke13_36, Eish_18, EleanorGeorge_18, Emma_18, Empress_19, Enby_19, Eradicator_18, Estave1_18, Fancypants_18, Fastidio_18, Filuzino_18, Firehouse51_19, Flathead_19, Florinda_18, Frankie_19, FreddyB_18, Fruitloop_18, GUmbie_18, Galactic_18, Gandalph_18, Geralt_18, GigiOuiOui_18, Girafales_19, Girr_18, Gorge_18, Grimmer_19, Guppsters_19,

Hades_18, Hamulus_18, Hannaconda_33, Harley_18, Hegedechwinu_19, Hlubikazi_18, IMpilo_18, IbOuu_18, lbhubesi_18, Inventum_18, IrishSherpFalk_19, JalFarm20_20, James_18, Jarcob_18, Jinglebell_17, 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, MulchExplorer_21, 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, Sebastian_18, Seagreen_19, Shauna1_18, ShiLan_18, ShowerHandel_18, 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, Vivum_18, Wachhund_18, Wanda_39, Wee_19, Whatsapiecost_18, Whouxphf_18, WillSterrel_19, XFactor_18, Yorick_18, Zerg_18, Zizzle_18,

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

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

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

- 244_28, ABCat_25, Adjutor_31, Adnama_29, Alkhayr_56, Amao_26, AmericanBeauty_28, Argent26_28, Ashwin_60, Asriel_25, Azrael100_42, BaboJay_25, BadStone_25, Balomoji_25, Barbarian_25, Barnyard_36, 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, BugsBunny_24, Butterscotch_30, Cactus_27, Candle_30, Catdawg_58, Cborch11_30, Chill_31, ChosenOne_25, ChotaBhai_26, Cjw1_26, Command613_27, Contagion_25, Cookies_26, Corndog_61, Cornie_20, Cosmo_43, CrystalP_26, Czystczon1_27, Daikon_24, Damien_29, Delton_30, DoctorDiddles_26, DrDrey_27, DrLupo_38, Dumbo_26, Dusk_25, Dylan_58, Easy2Say_28, Elite2014_25, Elph10_27, Emmina_27, EniyanLRS_40, Erk16_30, Eureka_26, FairyPath_26, Familton_59, Filch_27, FireRed_26, Firecracker_59, Flypotenuse_24, FoulBall_58, Fowlmouth_24, Gage_28, Gaia_21, Gator_24, Gemini_29, Giuseppe_30, Glexan_24, Goku_26, GoldenSpark_28, Goldilocks_27, GooberAzure_28, Gumball_29, HanKaySha_27, Harella_25, Hawkeye_32, Helpful_31, Henry_26, Highbury_27, Holt_27, Hoonter_28, Hopey_28, HufflyPuff_25, IHOP_26, Icee_25, Idergollasper_58, Inca_25, Indlulamithi_27, Island3_21, JacoRen57_20, JangDynasty_58, JeTaimie_28, KandZ_30, Kanye_28, Kimchi_28, Konstantine_34, Kostya_26, Krili_57, Kumao_30, Lilac_28, Lilizi_28, Lilpickle_25, LunaStella_20, MISSy_25, MPhalcon_25,

MadKillah_59, MadamMonkfish_26, Manda_27, Marshmallow_26, MaryV_43, Maxxinista_27, Megatron06_31, Mindy_26, Miniwave_26, Misfit_26, Moldemort_27, MontyDev_30, Mopey_30, Mori_58, Mosby_25, MrMiyagi_24, Murai_59, Murica_25, Murphy_27, Myrale_26, Nala_26, Nebkiss_22, NelitzaMV_26, NiebruSaylor_57, Nilo_31, Nimrod_26, NoSleep_27, Nova_30, Oaker_29, OrionPax_27, PBI1_30, PLOT_31, Palpatine_26, Paperbeatsrock_28, Papyrus_30, Pat3_25, Penelope2018_30, Petra64142_28, Phaja_26, Pharsalus_27, PhatBacter_26, Phaux_25, Phreeze_29, Phrux_26, Policronamos_26, Porky_26, Prager_30, Puissant_28, Pumpkin_28, Pygmy_20, Quallification_27, Rakim_27, Renaud18_20, Rimmer_25, Riparian_30, RiverMonster_26, Rope_30, Ryadel_62, Saints25_27, Sassay_25, SchoolBus_58, Schuy_59, Send513_30, ShamWow_26, ShereKhan_28, Shida_58, Shipwreck_20, 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, Toron_20, Toto_26, Traaww1_24, Troll4_30, Tuco_27, Ukulele_26, Vagabond_58, Visconti_30, Vorrrps_58, WaldoWhy_31, Weiss13_30, Wiggin_29, Wildcat_43, Wildflower_58, Willez_25, Winget_59, Xandras_28, YassJohnny_27, Yelo_30, Youngblood_26, YungJamal_63, Zakhe101_58, Zebo_57, Zenon_31, xkcd_27,

Summary by start number:

Start 1:

- Found in 10 of 469 (2.1%) of genes in pham
- Manual Annotations of this start: 8 of 442
- Called 90.0% of time when present
- Phage (with cluster) where this start called: Candle_30 (R), Nilo_31 (R), Papyrus_30 (R), Riparian_30 (R), Rope_30 (R), Send513_30 (R), Weiss13_30 (R), Yelo_30 (R), Zenon_31 (R),

Start 2:

- Found in 2 of 469 (0.4%) of genes in pham
- Manual Annotations of this start: 2 of 442
- Called 100.0% of time when present
- Phage (with cluster) where this start called: Fowlmouth_24 (AC), MrMiyagi_24 (AC),

Start 3:

- Found in 1 of 469 (0.2%) of genes in pham
- Manual Annotations of this start: 1 of 442
- Called 100.0% of time when present
- Phage (with cluster) where this start called: Indlulamithi_27 (AC),

Start 5:

- Found in 10 of 469 (2.1%) of genes in pham
- Manual Annotations of this start: 1 of 442
- Called 10.0% of time when present
- Phage (with cluster) where this start called: MontyDev_30 (R),

Start 19:

- Found in 2 of 469 (0.4%) of genes in pham
- Manual Annotations of this start: 2 of 442
- Called 100.0% of time when present
- Phage (with cluster) where this start called: Barnyard_36 (H2), DrLupo_38 (H2),

Start 23:

- Found in 22 of 469 (4.7%) of genes in pham
- Manual Annotations of this start: 22 of 442
- Called 100.0% of time when present
- Phage (with cluster) where this start called: Adjutor_31 (D1), BigMama_28 (D1), Butterscotch_30 (D1), Chill_31 (D1), Delton_30 (D1), Erk16_30 (D1), Giuseppe_30 (D1), Gumball_29 (D1), Hawkeye_32 (D2), 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 25:

- Found in 9 of 469 (1.9%) of genes in pham
- Manual Annotations of this start: 8 of 442
- Called 100.0% of time when present
- Phage (with cluster) where this start called: Beckerton_29 (H1), Cborch11_30 (H1), Damien_29 (H1), Konstantine_34 (H1), Megatron06_31 (H1), Oaker_29 (H1), Phreeze_29 (H1), Puissant_28 (H1), Thumb_29 (H1),

Start 52:

- Found in 7 of 469 (1.5%) of genes in pham
- Manual Annotations of this start: 7 of 442
- Called 100.0% of time when present
- Phage (with cluster) where this start called: Avani_24 (F2), Che9d_24 (F2), Demsculpinboyz_24 (F2), Jabbawokkie_26 (F2), Soul22_24 (F2), Yoshi_24 (F2), Zapner_25 (F2),

Start 55:

- Found in 1 of 469 (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 56:

- Found in 2 of 469 (0.4%) of genes in pham
- Manual Annotations of this start: 2 of 442
- Called 100.0% of time when present
- Phage (with cluster) where this start called: Gaia_21 (X), Nebkiss_22 (X),

Start 58:

- Found in 6 of 469 (1.3%) of genes in pham
- Manual Annotations of this start: 6 of 442
- Called 100.0% of time when present
- Phage (with cluster) where this start called: Azrael100_42 (V), Cosmo_43 (V), EniyanLRS_40 (V), Kumao_30 (singleton), MaryV_43 (V), Wildcat_43 (V),

Start 63:

- Found in 242 of 469 (51.6%) of genes in pham
- Manual Annotations of this start: 221 of 442
- Called 96.3% of time when present
- Phage (with cluster) where this start called: Alexphander_20 (F1), Aloeri_19 (F1), AlpineSix_18 (F1), ArcusAngelus_18 (F1), Ardmore_18 (F1), Ariel_36 (J), Aubs_18

(F1), Awesomesauce_19 (F1), BAKA_36 (J), Batiatus_18 (F1), Beakin_19 (F1), Bipolar_18 (F1), Blexus_18 (F1), BlueCrab_18 (F1), BobaPhett_18 (F1), Bobi_20 (F1), BodEinwohner17_18 (F1), Boomer_19 (F1), Brushbloom_20 (F1), Bubbles123_19 (F1), Burwell21_18 (F1), BuzzLyseyear_20 (F1), ByChance_18 (F1), Byougenkin_18 (F1), Cabrinians_18 (F1), CaptainTrips_19 (F1), Che8_18 (F1), Chevrolet_18 (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), DoRead_18 (F1), DocMcStuffins_19 (F1), Donkeykong_18 (F1), Doomphist_18 (F1), Dorothy_18 (F1), DosHalletts_19 (F1), DotProduct_18 (F1), Doug_19 (F1), Drago_19 (F1), Duke13_36 (J), Eish_18 (F1), EleanorGeorge_18 (F1), Emma_18 (F1), Empress_19 (F1), Enby_19 (F1), Eradicator_18 (F1), Estave1_18 (F1), Fancypants_18 (F1), Fastidio_18 (F1), Filuzino_18 (F1), Firehouse51_19 (F1), Flathead_19 (F1), Florinda_18 (F1), Frankie_19 (F1), FreddyB_18 (F1), Fruitloop_18 (F1), GUmble_18 (F1), Galactic_18 (F1), Gandolph_18 (F1), Geralt_18 (F1), GigiOuiOui_18 (F1), Girafales_19 (F1), Girr_18 (F1), Gorge_18 (F1), Grimmer_19 (F1), Guppsters_19 (F1), Hades_18 (F1), Hamulus_18 (F1), Hannaconda_33 (J), Harley_18 (F1), Hegedechwinu_19 (F1), Hlubikazi_18 (F1), IMpilo_18 (F1), IbOuu_18 (F1), Ibhubesi_18 (F1), Inventum_18 (F1), IrishSherpFalk_19 (F1), JalFarm20_20 (F1), James_18 (F1), Jarcob_18 (F1), Jinglebell_17 (F1), Job42_21 (F1), JoeyJr_18 (F1), Juice456_20 (F1), Juniper1_18 (F1), Karhdo_18 (F1), KashFlow_30 (J), Kenuha5_18 (F1), Kersh_19 (F1), Kimberlium_20 (F1), KingMidas_19 (F1), Kingsley_19 (F1), Krakatau_19 (F1), KristaRAM_19 (F1), Latretium_19 (F1), Leozinho_19 (F1), Leperchaun_18 (F1), LilMoolah_18 (F1), LittleE_39 (J), LittleShirley_19 (F1), Lizziana_18 (F1), Llama_18 (F1), Llij_18 (F1), Lorde_19 (F1), Lucky2013_36 (J), LunaBlu_19 (F1), MadMen_19 (F1), Madiba_19 (F1), Mahavrat_18 (F1), Mandlovu_18 (F1), Mantra_18 (F1), Maravista_18 (F1), Marker_19 (F1), Martik_18 (F1), Mattes_18 (F1), MiaZeal_36 (J), MilleniumForce_19 (F1), Minerva_39 (J), MinionDave_19 (F1), Minnie_19 (F1), Misha28_19 (F1), MisterCuddles_18 (F1), Modragons_18 (F1), MooMoo_18 (singleton), Moonbeam_19 (F1), Mova_19 (F1), Mozy_19 (F1), MulchExplorer_21 (F1), Mutaforma13_18 (F1), 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_18 (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), Starcevich_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), Vivum_18 (F1), Wachhund_18 (F1), Wanda_39 (J), Wee_19 (F1), Whatsapiecost_18 (F1), Whouxphf_18 (F1), WillSterrel_19 (F1), XFactor_18 (F1), Yorick_18 (F1), Zerg_18 (F1), Zizzle_18 (F1),

Start 64:

- Found in 2 of 469 (0.4%) of genes in pham
- Manual Annotations of this start: 1 of 442
- Called 50.0% of time when present
- Phage (with cluster) where this start called: Cornie_20 (F5),

Start 65:

- Found in 3 of 469 (0.6%) of genes in pham
- Manual Annotations of this start: 3 of 442
- Called 100.0% of time when present
- Phage (with cluster) where this start called: LunaStella_20 (F4), Renaud18_20 (F4), ThetaBob_20 (F4),

Start 71:

- Found in 33 of 469 (7.0%) of genes in pham
- Manual Annotations of this start: 2 of 442
- Called 6.1% of time when present
- Phage (with cluster) where this start called: Brujita_21 (I1), Island3_21 (I1),

Start 74:

- Found in 1 of 469 (0.2%) of genes in pham
- Manual Annotations of this start: 1 of 442
- Called 100.0% of time when present
- Phage (with cluster) where this start called: JacoRen57_20 (AB),

Start 75:

- Found in 3 of 469 (0.6%) of genes in pham
- Manual Annotations of this start: 3 of 442
- Called 100.0% of time when present
- Phage (with cluster) where this start called: Bogie_20 (P1), Pygmy_20 (P1), Shipwreck_20 (P1),

Start 82:

- Found in 30 of 469 (6.4%) of genes in pham
- Manual Annotations of this start: 28 of 442
- Called 96.7% of time when present
- Phage (with cluster) where this start called: Alkhayr_56 (O), Ashwin_60 (O), Blessica_59 (O), Bora_56 (O), Catdawn_58 (O), Corndog_61 (O), Dylan_58 (O), Familton_59 (O), Firecracker_59 (O), FoulBall_58 (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_59 (O), Shida_58 (O), Smooch_61 (O), TelAviv_55 (O), Vagabond_58 (O), Vorrps_58 (O), Wildflower_58 (O), Winget_59 (O), YungJamal_63 (O), Zakhe101_58 (O),

Start 86:

- Found in 188 of 469 (40.1%) of genes in pham
- Manual Annotations of this start: 1 of 442
- Called 0.5% of time when present
- Phage (with cluster) where this start called: Melissauren88_18 (F1),

Start 90:

- Found in 30 of 469 (6.4%) of genes in pham

- No Manual Annotations of this start.
- Called 3.3% of time when present
- Phage (with cluster) where this start called: Zebo_57 (O),

Start 93:

- Found in 1 of 469 (0.2%) of genes in pham
- No Manual Annotations of this start.
- Called 100.0% of time when present
- Phage (with cluster) where this start called: Toron_20 (F6),

Start 99:

- Found in 134 of 469 (28.6%) of genes in pham
- Manual Annotations of this start: 123 of 442
- Called 97.8% of time when present
- Phage (with cluster) where this start called: 244_28 (E), ABCat_25 (E), Adnama_29 (E), Amao_26 (E), AmericanBeauty_28 (E), Argent26_28 (E), Asriel_25 (E), BaboJay_25 (E), BadStone_25 (E), Balomoji_25 (E), Barbarian_25 (E), Bask21_26 (E), Bench_28 (E), BigBubba_27 (E), BilboSwaggins_26 (E), Bruin_26 (E), Buck_25 (E), BugsBunny_24 (E), Cactus_27 (E), ChosenOne_25 (E), ChotaBhai_26 (E), Cjw1_26 (E), Command613_27 (E), Contagion_25 (E), Cookies_26 (E), CrystalP_26 (E), Czyszczo1_27 (E), Daikon_24 (E), DoctorDiddles_26 (E), DrDrey_27 (E), Dumbo_26 (E), Dusk_25 (E), Easy2Say_28 (E), Elite2014_25 (E), Elph10_27 (E), Emmina_27 (E), Eureka_26 (E), FairyPath_26 (E), Filch_27 (E), FireRed_26 (E), Flypotenuse_24 (E), 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), Hokey_28 (E), HufflyPuff_25 (E), IHOP_26 (E), Icee_25 (E), Inca_25 (E), JeTaimie_28 (E), Kanye_28 (E), Kimchi_28 (E), Kostya_26 (E), Lilac_28 (E), Lilizi_28 (E), Lilpickle_25 (E), MISSy_25 (E), MPhalcon_25 (E), MadamMonkfish_26 (E), Manda_27 (E), Marshmallow_26 (E), Maxxinista_27 (E), Mindy_26 (E), Miniwave_26 (E), Misfit_26 (E), Moldemort_27 (E), Mosby_25 (E), Murica_25 (E), Murphy_27 (E), Myrale_26 (E), Nala_26 (E), NelitzaMV_26 (E), Nimrod_26 (E), NoSleep_27 (E), OrionPax_27 (E), Palpatine_26 (E), Paperbeatsrock_28 (E), Pat3_25 (E), Petra64142_28 (E), Phaja_26 (E), Pharsalus_27 (E), PhatBacter_26 (E), Phaux_25 (E), Phrux_26 (E), Policronamos_26 (E), Porky_26 (E), Pumpkin_28 (E), Quallification_27 (E), Rakim_27 (E), Rimmer_25 (E), RiverMonster_26 (E), Saints25_27 (E), Sassay_25 (E), ShamWow_26 (E), ShereKhan_28 (E), Simpliphy_27 (E), SirDuracell_25 (E), SophKB_26 (E), Sotrice96_26 (E), Stank_29 (E), Stark_27 (E), StellaBean_26 (E), StolenFromERC_28 (E), 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), Wiggins_29 (E), Willez_25 (E), Xandras_28 (E), YassJohnny_27 (E), Youngblood_26 (E), xkcd_27 (E),

Start 131:

- Found in 234 of 469 (49.9%) of genes in pham
- No Manual Annotations of this start.
- Called 0.4% of time when present
- Phage (with cluster) where this start called: Gonephishing_34 (J),

Summary by clusters:

There are 21 clusters represented in this pham: F1, F2, P1, E, F5, F6, F, I1, F4, J, H1, AC, O, H2, R, V, X, singleton, D2, AB, D1,

Info for manual annotations of cluster AB:

- Start number 74 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 23 was manually annotated 21 times for cluster D1.

Info for manual annotations of cluster D2:

- Start number 23 was manually annotated 1 time for cluster D2.

Info for manual annotations of cluster E:

- Start number 99 was manually annotated 123 times for cluster E.

Info for manual annotations of cluster F1:

- Start number 63 was manually annotated 203 times for cluster F1.
- Start number 86 was manually annotated 1 time for cluster F1.

Info for manual annotations of cluster F2:

- Start number 52 was manually annotated 7 times for cluster F2.

Info for manual annotations of cluster F4:

- Start number 65 was manually annotated 3 times for cluster F4.

Info for manual annotations of cluster F5:

- Start number 64 was manually annotated 1 time for cluster F5.

Info for manual annotations of cluster H1:

- Start number 25 was manually annotated 8 times for cluster H1.

Info for manual annotations of cluster H2:

- Start number 19 was manually annotated 2 times for cluster H2.

Info for manual annotations of cluster I1:

- Start number 71 was manually annotated 2 times for cluster I1.

Info for manual annotations of cluster J:

- Start number 63 was manually annotated 17 times for cluster J.

Info for manual annotations of cluster O:

- Start number 82 was manually annotated 28 times for cluster O.

Info for manual annotations of cluster P1:

- Start number 75 was manually annotated 3 times for cluster P1.

Info for manual annotations of cluster R:

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

Info for manual annotations of cluster V:

- Start number 58 was manually annotated 5 times for cluster V.

Info for manual annotations of cluster X:

- Start number 56 was manually annotated 2 times for cluster X.

Gene Information:

Gene: 244_28 Start: 22564, Stop: 24960, Start Num: 99

Candidate Starts for 244_28:

(Start: 99 @22564 has 123 MA's), (152, 22741), (160, 22762), (199, 22909), (229, 23083), (235, 23116), (240, 23152), (262, 23245), (276, 23305), (281, 23323), (307, 23455), (314, 23500), (339, 23632), (351, 23677), (363, 23737), (385, 23851), (390, 23872), (398, 23911), (401, 23932), (404, 23947), (430, 24097), (431, 24103), (433, 24121), (445, 24175), (460, 24259), (480, 24352), (510, 24598), (536, 24814), (545, 24898), (552, 24931),

Gene: ABCat_25 Start: 22283, Stop: 24679, Start Num: 99

Candidate Starts for ABCat_25:

(Start: 99 @22283 has 123 MA's), (152, 22460), (160, 22481), (199, 22628), (223, 22769), (229, 22802), (235, 22835), (240, 22871), (262, 22964), (276, 23024), (281, 23042), (298, 23123), (339, 23351), (351, 23396), (390, 23591), (391, 23597), (393, 23606), (401, 23651), (404, 23666), (431, 23822), (433, 23840), (436, 23849), (446, 23903), (460, 23978), (461, 23981), (493, 24191), (495, 24203), (510, 24317), (536, 24533), (545, 24617), (550, 24641), (552, 24650),

Gene: Adjutor_31 Start: 24256, Stop: 26526, Start Num: 23

Candidate Starts for Adjutor_31:

(Start: 23 @24256 has 22 MA's), (34, 24391), (35, 24400), (Start: 71 @24574 has 2 MA's), (73, 24580), (76, 24592), (123, 24745), (127, 24760), (133, 24775), (211, 25156), (213, 25162), (218, 25207), (234, 25294), (278, 25495), (279, 25501), (289, 25549), (297, 25579), (301, 25603), (337, 25792), (346, 25819), (357, 25867), (369, 25939), (375, 25978), (381, 25999), (383, 26014), (386, 26032), (395, 26062), (408, 26146), (441, 26347), (447, 26389), (472, 26515),

Gene: Adnama_29 Start: 22791, Stop: 25187, Start Num: 99

Candidate Starts for Adnama_29:

(Start: 99 @22791 has 123 MA's), (152, 22968), (160, 22989), (199, 23136), (229, 23310), (235, 23343), (240, 23379), (262, 23472), (276, 23532), (281, 23550), (307, 23682), (314, 23727), (339, 23859), (351, 23904), (363, 23964), (385, 24078), (390, 24099), (398, 24138), (401, 24159), (404, 24174), (430, 24324), (431, 24330), (433, 24348), (445, 24402), (460, 24486), (480, 24579), (510, 24825), (536, 25041), (545, 25125), (552, 25158),

Gene: Alexphander_20 Start: 17923, Stop: 20460, Start Num: 63

Candidate Starts for Alexphander_20:

(Start: 63 @17923 has 221 MA's), (72, 17944), (Start: 86 @17965 has 1 MA's), (95, 18004), (118, 18073), (124, 18082), (125, 18085), (131, 18103), (141, 18136), (144, 18151), (178, 18310), (179, 18313), (188, 18343), (194, 18358), (208, 18436), (211, 18457), (212, 18460), (222, 18526), (235, 18601), (236, 18607), (244, 18649), (245, 18655), (246, 18658), (254, 18691), (255, 18697), (262, 18727), (269, 18748), (274, 18778), (276, 18787), (299, 18895), (301, 18907), (303, 18916), (304, 18919), (305, 18928), (306, 18934), (309, 18949), (310, 18952), (312, 18973), (321, 19015), (325,

19048), (357, 19189), (358, 19195), (367, 19249), (368, 19252), (371, 19279), (387, 19339), (390, 19354), (392, 19366), (393, 19369), (405, 19435), (409, 19459), (411, 19480), (413, 19489), (423, 19549), (424, 19552), (431, 19588), (433, 19606), (437, 19618), (440, 19627), (444, 19654), (457, 19723), (460, 19741), (462, 19750), (464, 19762), (473, 19798), (477, 19828), (490, 19909), (494, 19963), (501, 20023), (506, 20065), (515, 20143), (523, 20200), (527, 20224), (532, 20278), (536, 20326), (542, 20368), (544, 20392), (545, 20395),

Gene: Alkhayr_56 Start: 35810, Stop: 38320, Start Num: 82

Candidate Starts for Alkhayr_56:

(Start: 82 @35810 has 28 MA's), (90, 35843), (105, 35912), (106, 35915), (115, 35939), (125, 35963), (135, 35987), (141, 36020), (183, 36227), (186, 36239), (187, 36242), (215, 36389), (217, 36419), (222, 36443), (230, 36473), (231, 36476), (235, 36503), (237, 36527), (245, 36557), (258, 36614), (263, 36638), (272, 36674), (274, 36686), (280, 36710), (281, 36713), (289, 36755), (309, 36851), (310, 36854), (361, 37109), (390, 37253), (401, 37313), (410, 37385), (411, 37388), (428, 37484), (460, 37658), (464, 37679), (482, 37772), (485, 37784), (494, 37874), (504, 37949), (514, 37994), (538, 38195), (543, 38249), (548, 38264),

Gene: Aloeri_19 Start: 17271, Stop: 19796, Start Num: 63

Candidate Starts for Aloeri_19:

(Start: 63 @17271 has 221 MA's), (72, 17292), (Start: 86 @17313 has 1 MA's), (95, 17352), (118, 17421), (124, 17430), (125, 17433), (131, 17451), (141, 17484), (144, 17499), (156, 17547), (178, 17658), (179, 17661), (194, 17706), (208, 17784), (212, 17808), (222, 17874), (223, 17883), (235, 17949), (236, 17955), (237, 17973), (244, 17997), (245, 18003), (246, 18006), (254, 18039), (255, 18045), (262, 18075), (269, 18096), (276, 18135), (280, 18150), (282, 18156), (310, 18300), (319, 18351), (338, 18462), (352, 18513), (356, 18537), (371, 18630), (384, 18675), (385, 18684), (390, 18705), (392, 18717), (393, 18720), (401, 18765), (409, 18810), (410, 18828), (411, 18831), (420, 18882), (430, 18933), (431, 18939), (433, 18957), (437, 18969), (440, 18978), (445, 19011), (460, 19092), (475, 19161), (480, 19188), (483, 19215), (491, 19266), (494, 19314), (526, 19557), (536, 19662), (539, 19683), (547, 19737), (551, 19761),

Gene: AlpineSix_18 Start: 17634, Stop: 20171, Start Num: 63

Candidate Starts for AlpineSix_18:

(Start: 63 @17634 has 221 MA's), (72, 17655), (Start: 86 @17676 has 1 MA's), (95, 17715), (118, 17784), (124, 17793), (125, 17796), (131, 17814), (144, 17862), (178, 18021), (179, 18024), (193, 18066), (194, 18069), (208, 18147), (211, 18168), (212, 18171), (222, 18237), (223, 18246), (230, 18282), (235, 18312), (236, 18318), (244, 18360), (245, 18366), (246, 18369), (254, 18402), (255, 18408), (262, 18438), (269, 18459), (274, 18489), (276, 18498), (299, 18606), (301, 18618), (303, 18627), (304, 18630), (305, 18639), (306, 18645), (309, 18660), (310, 18663), (312, 18684), (321, 18726), (325, 18759), (357, 18900), (358, 18906), (367, 18960), (368, 18963), (371, 18990), (390, 19065), (392, 19077), (393, 19080), (405, 19146), (408, 19167), (409, 19170), (411, 19191), (420, 19242), (423, 19260), (424, 19263), (430, 19293), (433, 19317), (437, 19329), (457, 19434), (460, 19452), (462, 19461), (464, 19473), (473, 19509), (477, 19539), (481, 19560), (486, 19584), (490, 19620), (501, 19734), (506, 19776), (515, 19854), (523, 19911), (527, 19935), (532, 19989), (536, 20037), (542, 20079), (544, 20103), (545, 20106),

Gene: Amao_26 Start: 21488, Stop: 23884, Start Num: 99

Candidate Starts for Amao_26:

(Start: 99 @21488 has 123 MA's), (152, 21665), (160, 21686), (199, 21833), (223, 21974), (229, 22007), (240, 22076), (262, 22169), (276, 22229), (281, 22247), (307, 22379), (314, 22424), (339, 22556), (351, 22601), (385, 22775), (390, 22796), (398, 22835), (401, 22856), (404, 22871), (431, 23027), (433, 23045), (445, 23099), (460, 23183), (508, 23507), (536, 23738), (545, 23822), (552, 23855),

Gene: AmericanBeauty_28 Start: 22271, Stop: 24667, Start Num: 99

Candidate Starts for AmericanBeauty_28:

(Start: 99 @22271 has 123 MA's), (152, 22448), (160, 22469), (199, 22616), (223, 22757), (229, 22790), (235, 22823), (240, 22859), (262, 22952), (276, 23012), (281, 23030), (307, 23162), (314, 23207), (339, 23339), (351, 23384), (363, 23444), (385, 23558), (390, 23579), (398, 23618), (401, 23639), (404, 23654), (430, 23804), (431, 23810), (433, 23828), (445, 23882), (460, 23966), (480, 24059), (510, 24305), (536, 24521), (545, 24605), (552, 24638),

Gene: ArcusAngelus_18 Start: 17438, Stop: 19975, Start Num: 63

Candidate Starts for ArcusAngelus_18:

(Start: 63 @17438 has 221 MA's), (72, 17459), (Start: 86 @17480 has 1 MA's), (95, 17519), (118, 17588), (124, 17597), (125, 17600), (131, 17618), (141, 17651), (144, 17666), (178, 17825), (179, 17828), (188, 17858), (194, 17873), (208, 17951), (211, 17972), (212, 17975), (222, 18041), (235, 18116), (236, 18122), (244, 18164), (245, 18170), (246, 18173), (254, 18206), (255, 18212), (262, 18242), (269, 18263), (274, 18293), (276, 18302), (299, 18410), (301, 18422), (303, 18431), (304, 18434), (305, 18443), (306, 18449), (309, 18464), (310, 18467), (312, 18488), (321, 18530), (325, 18563), (357, 18704), (358, 18710), (367, 18764), (368, 18767), (371, 18794), (387, 18854), (390, 18869), (392, 18881), (393, 18884), (405, 18950), (409, 18974), (411, 18995), (413, 19004), (423, 19064), (424, 19067), (431, 19103), (433, 19121), (437, 19133), (440, 19142), (444, 19169), (457, 19238), (460, 19256), (462, 19265), (464, 19277), (473, 19313), (477, 19343), (490, 19424), (494, 19478), (501, 19538), (506, 19580), (515, 19658), (523, 19715), (527, 19739), (532, 19793), (536, 19841), (542, 19883), (544, 19907), (545, 19910),

Gene: Ardmore_18 Start: 17447, Stop: 19984, Start Num: 63

Candidate Starts for Ardmore_18:

(60, 17435), (Start: 63 @17447 has 221 MA's), (72, 17468), (Start: 86 @17489 has 1 MA's), (95, 17528), (118, 17597), (124, 17606), (125, 17609), (131, 17627), (141, 17660), (144, 17675), (156, 17723), (178, 17834), (179, 17837), (188, 17867), (193, 17879), (194, 17882), (208, 17960), (212, 17984), (222, 18050), (230, 18095), (235, 18125), (236, 18131), (237, 18149), (244, 18173), (246, 18182), (254, 18215), (255, 18221), (262, 18251), (272, 18290), (274, 18302), (276, 18311), (280, 18326), (281, 18329), (303, 18440), (304, 18443), (305, 18452), (306, 18458), (309, 18473), (310, 18476), (312, 18497), (319, 18527), (321, 18539), (325, 18572), (351, 18683), (352, 18686), (357, 18713), (358, 18719), (367, 18773), (368, 18776), (390, 18878), (392, 18890), (393, 18893), (405, 18959), (409, 18983), (411, 19004), (413, 19013), (423, 19073), (424, 19076), (431, 19112), (433, 19130), (437, 19142), (440, 19151), (444, 19178), (457, 19247), (460, 19265), (462, 19274), (464, 19286), (473, 19322), (477, 19352), (481, 19373), (490, 19433), (494, 19487), (501, 19547), (506, 19589), (523, 19724), (527, 19748), (532, 19802), (536, 19850), (542, 19892), (544, 19916), (545, 19919),

Gene: Argent26_28 Start: 22274, Stop: 24670, Start Num: 99

Candidate Starts for Argent26_28:

(Start: 99 @22274 has 123 MA's), (152, 22451), (160, 22472), (199, 22619), (223, 22760), (229, 22793), (235, 22826), (240, 22862), (262, 22955), (276, 23015), (281, 23033), (307, 23165), (314, 23210), (339, 23342), (351, 23387), (363, 23447), (385, 23561), (390, 23582), (398, 23621), (401, 23642), (404, 23657), (430, 23807), (431, 23813), (433, 23831), (445, 23885), (460, 23969), (480, 24062), (510, 24308), (536, 24524), (545, 24608), (552, 24641),

Gene: Ariel_36 Start: 27338, Stop: 29845, Start Num: 63

Candidate Starts for Ariel_36:

(Start: 63 @27338 has 221 MA's), (131, 27533), (141, 27569), (144, 27584), (168, 27671), (172, 27686), (194, 27761), (197, 27773), (202, 27800), (219, 27905), (227, 27944), (230, 27953), (235, 27977), (236, 27983), (237, 28001), (242, 28019), (246, 28034), (249, 28043), (251, 28052), (254, 28067), (260, 28094), (262, 28103), (272, 28142), (274, 28154), (276, 28163), (295, 28247), (310,

28328), (314, 28358), (315, 28361), (321, 28391), (324, 28418), (326, 28427), (336, 28478), (337, 28487), (339, 28490), (349, 28526), (354, 28547), (360, 28583), (391, 28736), (401, 28790), (409, 28835), (410, 28853), (411, 28856), (419, 28895), (443, 29042), (445, 29051), (458, 29120), (460, 29135), (490, 29300), (497, 29387), (503, 29435), (510, 29486), (520, 29564), (546, 29786), (548, 29789), (552, 29816),

Gene: Ashwin_60 Start: 36580, Stop: 39090, Start Num: 82

Candidate Starts for Ashwin_60:

(Start: 82 @36580 has 28 MA's), (90, 36613), (105, 36682), (106, 36685), (115, 36709), (125, 36733), (135, 36757), (141, 36790), (183, 36997), (186, 37009), (187, 37012), (215, 37159), (217, 37189), (222, 37213), (230, 37243), (231, 37246), (235, 37273), (237, 37297), (245, 37327), (258, 37384), (272, 37444), (274, 37456), (280, 37480), (281, 37483), (289, 37525), (309, 37621), (310, 37624), (361, 37879), (390, 38023), (401, 38083), (410, 38155), (411, 38158), (428, 38254), (460, 38428), (464, 38449), (482, 38542), (485, 38554), (494, 38644), (504, 38719), (514, 38764), (538, 38965), (543, 39019), (548, 39034),

Gene: Asriel_25 Start: 21152, Stop: 23548, Start Num: 99

Candidate Starts for Asriel_25:

(Start: 99 @21152 has 123 MA's), (152, 21329), (160, 21350), (199, 21497), (223, 21638), (229, 21671), (235, 21704), (240, 21740), (262, 21833), (276, 21893), (281, 21911), (298, 21992), (339, 22220), (351, 22265), (390, 22460), (391, 22466), (393, 22475), (401, 22520), (404, 22535), (431, 22691), (433, 22709), (436, 22718), (446, 22772), (460, 22847), (461, 22850), (493, 23060), (495, 23072), (510, 23186), (536, 23402), (545, 23486), (550, 23510), (552, 23519),

Gene: Aubs_18 Start: 17557, Stop: 20094, Start Num: 63

Candidate Starts for Aubs_18:

(Start: 63 @17557 has 221 MA's), (72, 17578), (Start: 86 @17599 has 1 MA's), (94, 17635), (95, 17638), (118, 17707), (124, 17716), (125, 17719), (131, 17737), (141, 17770), (144, 17785), (156, 17833), (177, 17938), (178, 17944), (179, 17947), (193, 17989), (194, 17992), (212, 18094), (222, 18160), (230, 18205), (235, 18235), (236, 18241), (237, 18259), (244, 18283), (246, 18292), (254, 18325), (255, 18331), (269, 18382), (272, 18400), (274, 18412), (276, 18421), (280, 18436), (282, 18442), (303, 18550), (304, 18553), (305, 18562), (306, 18568), (309, 18583), (310, 18586), (312, 18607), (319, 18637), (321, 18649), (325, 18682), (339, 18748), (351, 18793), (352, 18796), (357, 18823), (358, 18829), (367, 18883), (368, 18886), (371, 18913), (390, 18988), (392, 19000), (393, 19003), (405, 19069), (409, 19093), (413, 19123), (420, 19165), (423, 19183), (424, 19186), (431, 19222), (433, 19240), (440, 19261), (444, 19288), (457, 19357), (460, 19375), (462, 19384), (464, 19396), (473, 19432), (481, 19483), (484, 19501), (490, 19543), (494, 19597), (506, 19699), (515, 19777), (523, 19834), (527, 19858), (532, 19912), (536, 19960), (544, 20026), (545, 20029),

Gene: Avani_24 Start: 17093, Stop: 19642, Start Num: 52

Candidate Starts for Avani_24:

(50, 17084), (Start: 52 @17093 has 7 MA's), (Start: 63 @17153 has 221 MA's), (77, 17186), (80, 17189), (104, 17258), (113, 17288), (168, 17468), (172, 17483), (179, 17519), (180, 17525), (181, 17528), (189, 17546), (194, 17558), (197, 17570), (201, 17594), (202, 17597), (227, 17741), (230, 17750), (235, 17774), (237, 17798), (244, 17822), (245, 17828), (251, 17849), (252, 17852), (255, 17870), (262, 17900), (270, 17930), (274, 17951), (295, 18044), (298, 18059), (299, 18068), (303, 18089), (304, 18092), (311, 18134), (319, 18176), (320, 18179), (321, 18188), (324, 18215), (326, 18224), (334, 18263), (337, 18284), (339, 18287), (349, 18323), (354, 18344), (367, 18422), (368, 18425), (382, 18479), (392, 18539), (407, 18626), (409, 18632), (411, 18653), (419, 18689), (427, 18743), (430, 18752), (443, 18830), (446, 18848), (450, 18884), (452, 18887), (457, 18905), (458, 18908), (460, 18923), (473, 18980), (475, 18992), (490, 19088), (497, 19175), (503, 19223), (505, 19247), (509, 19274), (510, 19283), (514, 19322), (520, 19361), (523, 19385), (526, 19406), (536, 19502), (539, 19523), (546, 19583), (548, 19586), (552, 19613),

Gene: Awesomesauce_19 Start: 17268, Stop: 19793, Start Num: 63

Candidate Starts for Awesomesauce_19:

(Start: 63 @17268 has 221 MA's), (72, 17289), (Start: 86 @17310 has 1 MA's), (95, 17349), (118, 17418), (124, 17427), (125, 17430), (131, 17448), (141, 17481), (144, 17496), (156, 17544), (178, 17655), (179, 17658), (194, 17703), (208, 17781), (212, 17805), (222, 17871), (230, 17916), (235, 17946), (236, 17952), (237, 17970), (244, 17994), (246, 18003), (254, 18036), (255, 18042), (262, 18072), (272, 18111), (274, 18123), (276, 18132), (280, 18147), (281, 18150), (310, 18297), (319, 18348), (338, 18459), (352, 18510), (356, 18534), (371, 18627), (384, 18672), (385, 18681), (390, 18702), (392, 18714), (393, 18717), (401, 18762), (409, 18807), (410, 18825), (411, 18828), (420, 18879), (430, 18930), (431, 18936), (433, 18954), (437, 18966), (440, 18975), (445, 19008), (460, 19089), (475, 19158), (480, 19185), (483, 19212), (491, 19263), (494, 19311), (526, 19554), (536, 19659), (539, 19680), (547, 19734), (551, 19758),

Gene: Azrael100_42 Start: 28340, Stop: 30907, Start Num: 58

Candidate Starts for Azrael100_42:

(Start: 58 @28340 has 6 MA's), (Start: 86 @28409 has 1 MA's), (117, 28532), (119, 28538), (121, 28541), (129, 28565), (137, 28586), (170, 28742), (172, 28748), (174, 28754), (179, 28784), (180, 28790), (194, 28811), (196, 28820), (207, 28880), (218, 28958), (236, 29057), (241, 29090), (245, 29105), (246, 29108), (255, 29147), (269, 29198), (272, 29216), (276, 29237), (278, 29243), (284, 29270), (289, 29297), (303, 29366), (308, 29390), (311, 29411), (314, 29432), (318, 29441), (321, 29462), (325, 29495), (326, 29498), (336, 29549), (355, 29627), (359, 29645), (365, 29684), (390, 29801), (399, 29846), (408, 29903), (411, 29927), (413, 29936), (416, 29954), (423, 29999), (430, 30032), (435, 30068), (469, 30242), (473, 30260), (474, 30266), (483, 30323), (522, 30647), (525, 30665), (530, 30716), (537, 30779), (544, 30854),

Gene: BAKA_36 Start: 29892, Stop: 32447, Start Num: 63

Candidate Starts for BAKA_36:

(Start: 63 @29892 has 221 MA's), (131, 30087), (141, 30123), (144, 30138), (156, 30186), (178, 30297), (179, 30300), (188, 30330), (194, 30345), (208, 30423), (212, 30447), (222, 30513), (230, 30558), (235, 30588), (236, 30594), (237, 30612), (244, 30636), (246, 30645), (254, 30678), (255, 30684), (262, 30714), (272, 30753), (274, 30765), (276, 30774), (280, 30789), (281, 30792), (303, 30903), (304, 30906), (305, 30915), (306, 30921), (309, 30936), (310, 30939), (312, 30960), (319, 30990), (321, 31002), (325, 31035), (339, 31101), (351, 31146), (352, 31149), (357, 31176), (358, 31182), (367, 31236), (368, 31239), (387, 31326), (390, 31341), (392, 31353), (393, 31356), (405, 31422), (411, 31467), (413, 31476), (423, 31536), (424, 31539), (431, 31575), (433, 31593), (437, 31605), (440, 31614), (444, 31641), (457, 31710), (460, 31728), (462, 31737), (464, 31749), (473, 31785), (477, 31815), (481, 31836), (486, 31860), (490, 31896), (494, 31950), (501, 32010), (506, 32052), (523, 32187), (527, 32211), (532, 32265), (536, 32313), (542, 32355), (544, 32379), (545, 32382),

Gene: BaboJay_25 Start: 21834, Stop: 24230, Start Num: 99

Candidate Starts for BaboJay_25:

(Start: 99 @21834 has 123 MA's), (152, 22011), (160, 22032), (199, 22179), (223, 22320), (229, 22353), (235, 22386), (240, 22422), (262, 22515), (276, 22575), (281, 22593), (307, 22725), (314, 22770), (339, 22902), (351, 22947), (385, 23121), (390, 23142), (398, 23181), (401, 23202), (404, 23217), (430, 23367), (431, 23373), (433, 23391), (445, 23445), (460, 23529), (480, 23622), (510, 23868), (536, 24084), (545, 24168), (552, 24201),

Gene: BadStone_25 Start: 22283, Stop: 24679, Start Num: 99

Candidate Starts for BadStone_25:

(Start: 99 @22283 has 123 MA's), (152, 22460), (160, 22481), (199, 22628), (223, 22769), (229, 22802), (235, 22835), (240, 22871), (262, 22964), (276, 23024), (298, 23123), (339, 23351), (351,

23396), (390, 23591), (391, 23597), (393, 23606), (401, 23651), (404, 23666), (431, 23822), (433, 23840), (436, 23849), (446, 23903), (460, 23978), (461, 23981), (493, 24191), (495, 24203), (510, 24317), (536, 24533), (545, 24617), (550, 24641), (552, 24650),

Gene: Balomoji_25 Start: 22017, Stop: 24413, Start Num: 99

Candidate Starts for Balomoji_25:

(Start: 99 @22017 has 123 MA's), (152, 22194), (160, 22215), (199, 22362), (223, 22503), (229, 22536), (235, 22569), (240, 22605), (262, 22698), (276, 22758), (281, 22776), (298, 22857), (339, 23085), (351, 23130), (390, 23325), (391, 23331), (393, 23340), (401, 23385), (404, 23400), (431, 23556), (433, 23574), (436, 23583), (446, 23637), (460, 23712), (461, 23715), (493, 23925), (495, 23937), (510, 24051), (536, 24267), (545, 24351), (550, 24375), (552, 24384),

Gene: Barbarian_25 Start: 21152, Stop: 23548, Start Num: 99

Candidate Starts for Barbarian_25:

(Start: 99 @21152 has 123 MA's), (152, 21329), (160, 21350), (199, 21497), (223, 21638), (229, 21671), (235, 21704), (240, 21740), (262, 21833), (276, 21893), (281, 21911), (298, 21992), (339, 22220), (351, 22265), (390, 22460), (391, 22466), (393, 22475), (401, 22520), (404, 22535), (431, 22691), (433, 22709), (436, 22718), (446, 22772), (460, 22847), (461, 22850), (493, 23060), (495, 23072), (510, 23186), (536, 23402), (545, 23486), (550, 23510), (552, 23519),

Gene: Barnyard_36 Start: 26772, Stop: 29858, Start Num: 19

Candidate Starts for Barnyard_36:

(17, 26745), (Start: 19 @26772 has 2 MA's), (20, 26775), (28, 26895), (30, 26907), (33, 26925), (34, 26928), (43, 26982), (44, 26991), (47, 27012), (57, 27084), (69, 27120), (91, 27195), (108, 27273), (110, 27282), (111, 27288), (121, 27315), (151, 27432), (160, 27483), (161, 27486), (169, 27516), (175, 27540), (178, 27558), (206, 27690), (208, 27702), (221, 27783), (248, 27933), (264, 28017), (273, 28053), (286, 28107), (288, 28110), (290, 28128), (294, 28146), (302, 28182), (318, 28263), (328, 28323), (332, 28341), (340, 28377), (350, 28419), (353, 28431), (359, 28461), (361, 28473), (363, 28482), (374, 28557), (391, 28644), (409, 28752), (415, 28797), (418, 28818), (423, 28866), (431, 28905), (432, 28917), (438, 28941), (439, 28947), (443, 28977), (448, 29019), (453, 29037), (459, 29058), (462, 29079), (466, 29100), (471, 29118), (473, 29127), (481, 29181), (482, 29190), (487, 29232), (496, 29325), (500, 29358), (513, 29478), (518, 29505), (529, 29598), (534, 29652), (549, 29796),

Gene: Bask21_26 Start: 21463, Stop: 23859, Start Num: 99

Candidate Starts for Bask21_26:

(Start: 99 @21463 has 123 MA's), (152, 21640), (160, 21661), (199, 21808), (223, 21949), (229, 21982), (235, 22015), (240, 22051), (262, 22144), (276, 22204), (281, 22222), (298, 22303), (339, 22531), (351, 22576), (390, 22771), (391, 22777), (393, 22786), (401, 22831), (404, 22846), (431, 23002), (433, 23020), (436, 23029), (460, 23158), (461, 23161), (493, 23371), (495, 23383), (510, 23497), (536, 23713), (545, 23797), (550, 23821), (552, 23830),

Gene: Batiatus_18 Start: 17448, Stop: 19985, Start Num: 63

Candidate Starts for Batiatus_18:

(60, 17436), (Start: 63 @17448 has 221 MA's), (72, 17469), (Start: 86 @17490 has 1 MA's), (95, 17529), (118, 17598), (124, 17607), (125, 17610), (131, 17628), (141, 17661), (144, 17676), (156, 17724), (178, 17835), (179, 17838), (188, 17868), (193, 17880), (194, 17883), (208, 17961), (212, 17985), (222, 18051), (230, 18096), (235, 18126), (236, 18132), (237, 18150), (244, 18174), (246, 18183), (254, 18216), (255, 18222), (262, 18252), (272, 18291), (274, 18303), (276, 18312), (280, 18327), (281, 18330), (303, 18441), (304, 18444), (305, 18453), (306, 18459), (309, 18474), (310, 18477), (312, 18498), (319, 18528), (321, 18540), (325, 18573), (351, 18684), (352, 18687), (357, 18714), (358, 18720), (367, 18774), (368, 18777), (387, 18864), (390, 18879), (392, 18891), (393, 18894), (405, 18960), (409, 18984), (411, 19005), (413, 19014), (423, 19074), (424, 19077), (431,

19113), (433, 19131), (437, 19143), (440, 19152), (444, 19179), (457, 19248), (460, 19266), (462, 19275), (464, 19287), (473, 19323), (477, 19353), (481, 19374), (486, 19398), (490, 19434), (494, 19488), (501, 19548), (506, 19590), (515, 19668), (523, 19725), (527, 19749), (532, 19803), (536, 19851), (542, 19893), (544, 19917), (545, 19920),

Gene: Beakin_19 Start: 17255, Stop: 19786, Start Num: 63

Candidate Starts for Beakin_19:

(60, 17243), (Start: 63 @17255 has 221 MA's), (72, 17276), (Start: 86 @17297 has 1 MA's), (95, 17336), (118, 17405), (124, 17414), (125, 17417), (131, 17435), (141, 17468), (144, 17483), (156, 17525), (178, 17636), (179, 17639), (188, 17669), (194, 17684), (208, 17762), (212, 17786), (222, 17852), (230, 17897), (235, 17927), (236, 17933), (237, 17951), (244, 17975), (246, 17984), (254, 18017), (255, 18023), (262, 18053), (272, 18092), (274, 18104), (276, 18113), (280, 18128), (281, 18131), (303, 18242), (304, 18245), (305, 18254), (306, 18260), (309, 18275), (310, 18278), (312, 18299), (319, 18329), (321, 18341), (325, 18374), (339, 18440), (351, 18485), (352, 18488), (357, 18515), (358, 18521), (367, 18575), (368, 18578), (387, 18665), (390, 18680), (392, 18692), (393, 18695), (405, 18761), (409, 18785), (411, 18806), (413, 18815), (423, 18875), (424, 18878), (431, 18914), (433, 18932), (440, 18953), (444, 18980), (457, 19049), (460, 19067), (462, 19076), (464, 19088), (473, 19124), (481, 19175), (484, 19193), (490, 19235), (494, 19289), (506, 19391), (515, 19469), (523, 19526), (527, 19550), (532, 19604), (536, 19652), (544, 19718), (545, 19721),

Gene: Beckerton_29 Start: 26219, Stop: 29062, Start Num: 25

Candidate Starts for Beckerton_29:

(Start: 25 @26219 has 8 MA's), (44, 26351), (46, 26363), (48, 26372), (59, 26441), (62, 26447), (87, 26507), (89, 26528), (103, 26576), (111, 26618), (122, 26642), (134, 26675), (143, 26711), (145, 26723), (167, 26816), (179, 26873), (189, 26912), (214, 27038), (223, 27107), (228, 27137), (236, 27179), (246, 27230), (269, 27320), (272, 27338), (289, 27419), (298, 27458), (301, 27479), (325, 27617), (333, 27656), (349, 27719), (368, 27821), (410, 28046), (478, 28409), (482, 28436), (517, 28679), (521, 28712), (524, 28736), (536, 28856), (546, 28934), (555, 29021), (556, 29036), (557, 29042),

Gene: Bench_28 Start: 22144, Stop: 24540, Start Num: 99

Candidate Starts for Bench_28:

(Start: 99 @22144 has 123 MA's), (152, 22321), (160, 22342), (199, 22489), (229, 22663), (235, 22696), (240, 22732), (262, 22825), (276, 22885), (281, 22903), (307, 23035), (314, 23080), (339, 23212), (351, 23257), (363, 23317), (385, 23431), (390, 23452), (398, 23491), (401, 23512), (404, 23527), (430, 23677), (431, 23683), (433, 23701), (445, 23755), (460, 23839), (480, 23932), (510, 24178), (536, 24394), (545, 24478), (552, 24511),

Gene: BigBubba_27 Start: 22047, Stop: 24443, Start Num: 99

Candidate Starts for BigBubba_27:

(Start: 99 @22047 has 123 MA's), (152, 22224), (160, 22245), (199, 22392), (223, 22533), (229, 22566), (235, 22599), (240, 22635), (262, 22728), (276, 22788), (281, 22806), (307, 22938), (314, 22983), (339, 23115), (351, 23160), (385, 23334), (390, 23355), (398, 23394), (401, 23415), (404, 23430), (431, 23586), (433, 23604), (445, 23658), (460, 23742), (480, 23835), (510, 24081), (536, 24297), (545, 24381), (552, 24414),

Gene: BigMama_28 Start: 24332, Stop: 26602, Start Num: 23

Candidate Starts for BigMama_28:

(Start: 23 @24332 has 22 MA's), (34, 24467), (35, 24476), (Start: 71 @24650 has 2 MA's), (73, 24656), (76, 24668), (123, 24821), (127, 24836), (133, 24851), (211, 25232), (213, 25238), (218, 25283), (234, 25370), (278, 25571), (279, 25577), (289, 25625), (297, 25655), (301, 25679), (337, 25868), (346, 25895), (357, 25943), (369, 26015), (375, 26054), (381, 26075), (383, 26090), (386, 26108), (395, 26138), (408, 26222), (441, 26423), (447, 26465), (472, 26591),

Gene: BilboSwaggins_26 Start: 22284, Stop: 24680, Start Num: 99

Candidate Starts for BilboSwaggins_26:

(Start: 99 @22284 has 123 MA's), (152, 22461), (160, 22482), (199, 22629), (223, 22770), (229, 22803), (235, 22836), (240, 22872), (262, 22965), (276, 23025), (281, 23043), (298, 23124), (339, 23352), (351, 23397), (390, 23592), (391, 23598), (393, 23607), (401, 23652), (404, 23667), (431, 23823), (433, 23841), (436, 23850), (460, 23979), (461, 23982), (493, 24192), (495, 24204), (510, 24318), (536, 24534), (545, 24618), (550, 24642), (552, 24651),

Gene: Bipolar_18 Start: 17398, Stop: 19890, Start Num: 63

Candidate Starts for Bipolar_18:

(61, 17386), (Start: 63 @17398 has 221 MA's), (72, 17419), (Start: 86 @17440 has 1 MA's), (96, 17479), (118, 17548), (124, 17557), (125, 17560), (131, 17578), (141, 17611), (147, 17644), (159, 17677), (172, 17731), (179, 17767), (181, 17776), (189, 17794), (197, 17818), (201, 17842), (219, 17950), (223, 17974), (227, 17989), (230, 17998), (235, 18022), (236, 18028), (237, 18046), (240, 18058), (242, 18064), (244, 18070), (245, 18076), (246, 18079), (249, 18088), (251, 18097), (254, 18112), (262, 18148), (272, 18187), (274, 18199), (276, 18208), (295, 18292), (310, 18373), (314, 18403), (315, 18406), (321, 18436), (324, 18463), (326, 18472), (336, 18523), (337, 18532), (339, 18535), (349, 18571), (354, 18592), (360, 18628), (391, 18781), (401, 18835), (409, 18880), (410, 18898), (411, 18901), (419, 18940), (443, 19087), (445, 19096), (458, 19165), (460, 19180), (490, 19345), (497, 19432), (503, 19480), (510, 19531), (520, 19609), (546, 19831), (548, 19834), (552, 19861),

Gene: Blarby_25 Start: 17613, Stop: 20210, Start Num: 55

Candidate Starts for Blarby_25:

(51, 17604), (55, 17613), (Start: 64 @17673 has 1 MA's), (79, 17706), (85, 17709), (112, 17808), (156, 17949), (178, 18060), (179, 18063), (188, 18093), (193, 18105), (194, 18108), (212, 18210), (222, 18276), (230, 18321), (235, 18351), (236, 18357), (237, 18375), (244, 18399), (246, 18408), (254, 18441), (255, 18447), (262, 18477), (272, 18516), (274, 18528), (276, 18537), (280, 18552), (281, 18555), (303, 18666), (304, 18669), (305, 18678), (306, 18684), (309, 18699), (310, 18702), (312, 18723), (319, 18753), (321, 18765), (325, 18798), (351, 18909), (352, 18912), (357, 18939), (358, 18945), (367, 18999), (368, 19002), (387, 19089), (390, 19104), (392, 19116), (393, 19119), (405, 19185), (411, 19230), (413, 19239), (423, 19299), (424, 19302), (431, 19338), (433, 19356), (440, 19377), (444, 19404), (457, 19473), (460, 19491), (462, 19500), (464, 19512), (473, 19548), (477, 19578), (481, 19599), (484, 19617), (490, 19659), (494, 19713), (506, 19815), (523, 19950), (527, 19974), (532, 20028), (536, 20076), (542, 20118), (544, 20142), (545, 20145),

Gene: Blessica_59 Start: 36409, Stop: 38919, Start Num: 82

Candidate Starts for Blessica_59:

(Start: 82 @36409 has 28 MA's), (90, 36442), (105, 36511), (106, 36514), (115, 36538), (125, 36562), (135, 36586), (141, 36619), (183, 36826), (186, 36838), (187, 36841), (215, 36988), (217, 37018), (222, 37042), (230, 37072), (231, 37075), (235, 37102), (237, 37126), (245, 37156), (258, 37213), (263, 37237), (272, 37273), (274, 37285), (280, 37309), (281, 37312), (289, 37354), (309, 37450), (310, 37453), (361, 37708), (390, 37852), (401, 37912), (410, 37984), (411, 37987), (428, 38083), (460, 38257), (464, 38278), (482, 38371), (485, 38383), (494, 38473), (504, 38548), (514, 38593), (538, 38794), (543, 38848), (548, 38863),

Gene: Blexus_18 Start: 17586, Stop: 20123, Start Num: 63

Candidate Starts for Blexus_18:

(Start: 63 @17586 has 221 MA's), (72, 17607), (Start: 86 @17628 has 1 MA's), (95, 17667), (118, 17736), (124, 17745), (125, 17748), (131, 17766), (144, 17814), (156, 17862), (178, 17973), (179, 17976), (194, 18021), (208, 18099), (212, 18123), (222, 18189), (235, 18264), (236, 18270), (237, 18288), (244, 18312), (246, 18321), (254, 18354), (255, 18360), (262, 18390), (269, 18411), (274,

18441), (276, 18450), (299, 18558), (301, 18570), (303, 18579), (304, 18582), (306, 18597), (309, 18612), (310, 18615), (312, 18636), (321, 18678), (325, 18711), (351, 18822), (352, 18825), (357, 18852), (358, 18858), (367, 18912), (368, 18915), (371, 18942), (390, 19017), (392, 19029), (393, 19032), (405, 19098), (408, 19119), (409, 19122), (411, 19143), (413, 19152), (420, 19194), (423, 19212), (424, 19215), (430, 19245), (433, 19269), (437, 19281), (440, 19290), (457, 19386), (460, 19404), (462, 19413), (464, 19425), (473, 19461), (477, 19491), (480, 19500), (481, 19512), (490, 19572), (494, 19626), (501, 19686), (506, 19728), (523, 19863), (527, 19887), (532, 19941), (536, 19989), (542, 20031), (544, 20055), (545, 20058),

Gene: BlueCrab_18 Start: 17568, Stop: 20105, Start Num: 63

Candidate Starts for BlueCrab_18:

(60, 17556), (Start: 63 @17568 has 221 MA's), (72, 17589), (Start: 86 @17610 has 1 MA's), (95, 17649), (118, 17718), (124, 17727), (125, 17730), (131, 17748), (144, 17796), (156, 17844), (178, 17955), (179, 17958), (194, 18003), (208, 18081), (212, 18105), (222, 18171), (230, 18216), (235, 18246), (236, 18252), (237, 18270), (244, 18294), (246, 18303), (254, 18336), (255, 18342), (262, 18372), (272, 18411), (274, 18423), (276, 18432), (280, 18447), (281, 18450), (303, 18561), (304, 18564), (305, 18573), (306, 18579), (309, 18594), (310, 18597), (312, 18618), (319, 18648), (321, 18660), (325, 18693), (351, 18804), (352, 18807), (357, 18834), (358, 18840), (367, 18894), (368, 18897), (390, 18999), (392, 19011), (393, 19014), (405, 19080), (409, 19104), (411, 19125), (413, 19134), (423, 19194), (424, 19197), (431, 19233), (433, 19251), (440, 19272), (444, 19299), (457, 19368), (460, 19386), (462, 19395), (464, 19407), (473, 19443), (481, 19494), (484, 19512), (490, 19554), (494, 19608), (506, 19710), (523, 19845), (527, 19869), (532, 19923), (539, 19992), (544, 20037), (545, 20040),

Gene: BobaPhett_18 Start: 17397, Stop: 19922, Start Num: 63

Candidate Starts for BobaPhett_18:

(Start: 63 @17397 has 221 MA's), (72, 17418), (Start: 86 @17439 has 1 MA's), (95, 17478), (118, 17547), (124, 17556), (125, 17559), (131, 17577), (144, 17625), (156, 17673), (178, 17784), (179, 17787), (189, 17820), (194, 17832), (208, 17910), (217, 17976), (223, 18009), (232, 18063), (235, 18075), (245, 18129), (246, 18132), (249, 18141), (256, 18174), (267, 18213), (269, 18216), (271, 18231), (272, 18234), (278, 18261), (279, 18267), (280, 18270), (281, 18273), (287, 18300), (290, 18318), (291, 18321), (305, 18396), (309, 18417), (310, 18420), (313, 18447), (319, 18471), (325, 18516), (326, 18519), (336, 18570), (352, 18633), (354, 18642), (358, 18666), (379, 18771), (380, 18774), (390, 18825), (391, 18831), (392, 18837), (393, 18840), (401, 18885), (404, 18900), (408, 18927), (411, 18951), (420, 19002), (423, 19020), (424, 19023), (425, 19035), (437, 19089), (460, 19212), (474, 19275), (484, 19338), (492, 19413), (518, 19614), (541, 19824), (547, 19863), (548, 19866),

Gene: Bobi_20 Start: 17987, Stop: 20524, Start Num: 63

Candidate Starts for Bobi_20:

(60, 17975), (Start: 63 @17987 has 221 MA's), (72, 18008), (Start: 86 @18029 has 1 MA's), (95, 18068), (118, 18137), (124, 18146), (125, 18149), (131, 18167), (141, 18200), (144, 18215), (156, 18263), (178, 18374), (179, 18377), (188, 18407), (193, 18419), (194, 18422), (208, 18500), (212, 18524), (222, 18590), (230, 18635), (235, 18665), (236, 18671), (237, 18689), (244, 18713), (246, 18722), (254, 18755), (255, 18761), (262, 18791), (272, 18830), (274, 18842), (276, 18851), (280, 18866), (281, 18869), (303, 18980), (304, 18983), (305, 18992), (306, 18998), (309, 19013), (310, 19016), (319, 19067), (321, 19079), (325, 19112), (339, 19178), (351, 19223), (352, 19226), (357, 19253), (358, 19259), (367, 19313), (368, 19316), (387, 19403), (390, 19418), (392, 19430), (393, 19433), (405, 19499), (411, 19544), (413, 19553), (423, 19613), (424, 19616), (431, 19652), (433, 19670), (437, 19682), (440, 19691), (444, 19718), (457, 19787), (460, 19805), (462, 19814), (464, 19826), (473, 19862), (477, 19892), (481, 19913), (486, 19937), (490, 19973), (494, 20027), (501, 20087), (506, 20129), (523, 20264), (527, 20288), (532, 20342), (536, 20390), (542, 20432), (544, 20456), (545, 20459),

Gene: BodEinwohner17_18 Start: 17569, Stop: 20106, Start Num: 63

Candidate Starts for BodEinwohner17_18:

(Start: 63 @17569 has 221 MA's), (72, 17590), (Start: 86 @17611 has 1 MA's), (95, 17650), (118, 17719), (124, 17728), (125, 17731), (131, 17749), (144, 17797), (177, 17950), (179, 17959), (194, 18004), (211, 18103), (212, 18106), (222, 18172), (235, 18247), (236, 18253), (237, 18271), (244, 18295), (246, 18304), (254, 18337), (255, 18343), (262, 18373), (269, 18394), (274, 18424), (276, 18433), (280, 18448), (281, 18451), (299, 18541), (301, 18553), (303, 18562), (304, 18565), (306, 18580), (309, 18595), (310, 18598), (312, 18619), (321, 18661), (325, 18694), (351, 18805), (352, 18808), (357, 18835), (358, 18841), (367, 18895), (368, 18898), (371, 18925), (390, 19000), (392, 19012), (393, 19015), (405, 19081), (408, 19102), (409, 19105), (411, 19126), (413, 19135), (420, 19177), (423, 19195), (424, 19198), (430, 19228), (433, 19252), (437, 19264), (440, 19273), (457, 19369), (460, 19387), (462, 19396), (464, 19408), (473, 19444), (477, 19474), (480, 19483), (481, 19495), (490, 19555), (494, 19609), (501, 19669), (506, 19711), (523, 19846), (527, 19870), (532, 19924), (536, 19972), (542, 20014), (544, 20038), (545, 20041),

Gene: Bogie_20 Start: 18761, Stop: 21265, Start Num: 75

Candidate Starts for Bogie_20:

(Start: 75 @18761 has 3 MA's), (125, 18914), (211, 19319), (215, 19334), (217, 19364), (218, 19370), (222, 19388), (244, 19496), (255, 19547), (281, 19658), (282, 19661), (289, 19700), (298, 19733), (310, 19799), (321, 19859), (324, 19886), (325, 19892), (390, 20198), (401, 20258), (407, 20306), (408, 20309), (410, 20330), (411, 20333), (460, 20594), (484, 20717), (485, 20720), (494, 20810), (501, 20867), (504, 20888), (518, 20948), (540, 21149), (543, 21191),

Gene: Boomer_19 Start: 17212, Stop: 19749, Start Num: 63

Candidate Starts for Boomer_19:

(Start: 63 @17212 has 221 MA's), (72, 17233), (Start: 86 @17254 has 1 MA's), (95, 17293), (118, 17362), (124, 17371), (125, 17374), (131, 17392), (141, 17425), (144, 17440), (156, 17488), (178, 17599), (179, 17602), (188, 17632), (194, 17647), (208, 17725), (212, 17749), (222, 17815), (230, 17860), (235, 17890), (236, 17896), (237, 17914), (244, 17938), (246, 17947), (254, 17980), (255, 17986), (262, 18016), (269, 18037), (272, 18055), (274, 18067), (276, 18076), (280, 18091), (281, 18094), (297, 18172), (303, 18205), (304, 18208), (305, 18217), (306, 18223), (309, 18238), (310, 18241), (312, 18262), (319, 18292), (321, 18304), (325, 18337), (351, 18448), (352, 18451), (357, 18478), (358, 18484), (367, 18538), (368, 18541), (387, 18628), (390, 18643), (392, 18655), (393, 18658), (405, 18724), (409, 18748), (411, 18769), (413, 18778), (423, 18838), (424, 18841), (430, 18871), (433, 18895), (437, 18907), (440, 18916), (444, 18943), (457, 19012), (460, 19030), (462, 19039), (464, 19051), (473, 19087), (477, 19117), (481, 19138), (486, 19162), (490, 19198), (494, 19252), (501, 19312), (506, 19354), (515, 19432), (523, 19489), (527, 19513), (532, 19567), (536, 19615), (544, 19681), (545, 19684),

Gene: Bora_56 Start: 35766, Stop: 38276, Start Num: 82

Candidate Starts for Bora_56:

(Start: 82 @35766 has 28 MA's), (90, 35799), (105, 35868), (106, 35871), (115, 35895), (125, 35919), (135, 35943), (141, 35976), (173, 36129), (183, 36183), (186, 36195), (187, 36198), (215, 36345), (217, 36375), (222, 36399), (230, 36429), (231, 36432), (235, 36459), (237, 36483), (245, 36513), (258, 36570), (272, 36630), (274, 36642), (280, 36666), (281, 36669), (289, 36711), (309, 36807), (310, 36810), (361, 37065), (390, 37209), (401, 37269), (410, 37341), (411, 37344), (428, 37440), (460, 37614), (462, 37623), (464, 37635), (482, 37728), (485, 37740), (494, 37830), (504, 37905), (514, 37950), (538, 38151), (543, 38205), (548, 38220),

Gene: Bruin_26 Start: 22307, Stop: 24703, Start Num: 99

Candidate Starts for Bruin_26:

(Start: 99 @22307 has 123 MA's), (152, 22484), (160, 22505), (199, 22652), (223, 22793), (229, 22826), (235, 22859), (240, 22895), (262, 22988), (276, 23048), (281, 23066), (307, 23198), (314, 23243), (339, 23375), (351, 23420), (385, 23594), (390, 23615), (398, 23654), (401, 23675), (404, 23690), (431, 23846), (433, 23864), (445, 23918), (460, 24002), (480, 24095), (510, 24341), (536, 24557), (545, 24641), (552, 24674),

Gene: Brujita_21 Start: 19089, Stop: 21620, Start Num: 71

Candidate Starts for Brujita_21:

(Start: 71 @19089 has 2 MA's), (81, 19113), (109, 19224), (113, 19233), (125, 19260), (159, 19407), (211, 19674), (215, 19689), (217, 19719), (218, 19725), (222, 19743), (244, 19851), (255, 19902), (281, 20013), (282, 20016), (289, 20055), (298, 20088), (310, 20154), (321, 20214), (324, 20241), (325, 20247), (390, 20553), (401, 20613), (407, 20661), (408, 20664), (410, 20685), (411, 20688), (460, 20949), (484, 21072), (485, 21075), (494, 21165), (501, 21222), (504, 21243), (518, 21303), (540, 21504), (543, 21546),

Gene: Brushbloom_20 Start: 17281, Stop: 19818, Start Num: 63

Candidate Starts for Brushbloom_20:

(Start: 63 @17281 has 221 MA's), (72, 17302), (Start: 86 @17323 has 1 MA's), (94, 17359), (95, 17362), (118, 17431), (124, 17440), (125, 17443), (131, 17461), (141, 17494), (144, 17509), (156, 17557), (177, 17662), (178, 17668), (179, 17671), (193, 17713), (194, 17716), (212, 17818), (222, 17884), (230, 17929), (235, 17959), (236, 17965), (237, 17983), (244, 18007), (246, 18016), (254, 18049), (255, 18055), (269, 18106), (272, 18124), (274, 18136), (276, 18145), (280, 18160), (282, 18166), (303, 18274), (305, 18286), (306, 18292), (309, 18307), (310, 18310), (312, 18331), (319, 18361), (321, 18373), (325, 18406), (339, 18472), (351, 18517), (352, 18520), (357, 18547), (358, 18553), (367, 18607), (368, 18610), (371, 18637), (390, 18712), (392, 18724), (393, 18727), (405, 18793), (409, 18817), (413, 18847), (420, 18889), (423, 18907), (424, 18910), (431, 18946), (433, 18964), (440, 18985), (444, 19012), (457, 19081), (460, 19099), (462, 19108), (464, 19120), (473, 19156), (481, 19207), (484, 19225), (490, 19267), (494, 19321), (506, 19423), (515, 19501), (523, 19558), (527, 19582), (532, 19636), (536, 19684), (542, 19726), (544, 19750), (545, 19753),

Gene: Bubbles123_19 Start: 18112, Stop: 20649, Start Num: 63

Candidate Starts for Bubbles123_19:

(Start: 63 @18112 has 221 MA's), (72, 18133), (Start: 86 @18154 has 1 MA's), (95, 18193), (118, 18262), (124, 18271), (125, 18274), (131, 18292), (141, 18325), (144, 18340), (156, 18388), (178, 18499), (179, 18502), (193, 18544), (194, 18547), (212, 18649), (222, 18715), (230, 18760), (235, 18790), (236, 18796), (237, 18814), (244, 18838), (246, 18847), (254, 18880), (255, 18886), (272, 18955), (274, 18967), (276, 18976), (280, 18991), (282, 18997), (303, 19105), (305, 19117), (306, 19123), (309, 19138), (310, 19141), (312, 19162), (319, 19192), (321, 19204), (325, 19237), (339, 19303), (351, 19348), (352, 19351), (357, 19378), (358, 19384), (367, 19438), (368, 19441), (371, 19468), (390, 19543), (392, 19555), (393, 19558), (405, 19624), (409, 19648), (413, 19678), (420, 19720), (423, 19738), (424, 19741), (431, 19777), (433, 19795), (440, 19816), (444, 19843), (457, 19912), (460, 19930), (462, 19939), (464, 19951), (473, 19987), (481, 20038), (486, 20062), (490, 20098), (494, 20152), (506, 20254), (515, 20332), (523, 20389), (527, 20413), (536, 20515), (542, 20557), (544, 20581), (545, 20584),

Gene: Buck_25 Start: 22240, Stop: 24636, Start Num: 99

Candidate Starts for Buck_25:

(Start: 99 @22240 has 123 MA's), (152, 22417), (160, 22438), (199, 22585), (223, 22726), (229, 22759), (235, 22792), (240, 22828), (262, 22921), (276, 22981), (281, 22999), (307, 23131), (314, 23176), (339, 23308), (351, 23353), (363, 23413), (385, 23527), (390, 23548), (398, 23587), (401, 23608), (404, 23623), (430, 23773), (431, 23779), (433, 23797), (445, 23851), (460, 23935), (480, 24028), (510, 24274), (536, 24490), (545, 24574), (552, 24607),

Gene: BugsBunny_24 Start: 21873, Stop: 24269, Start Num: 99

Candidate Starts for BugsBunny_24:

(Start: 99 @21873 has 123 MA's), (152, 22050), (160, 22071), (199, 22218), (223, 22359), (229, 22392), (235, 22425), (240, 22461), (262, 22554), (276, 22614), (281, 22632), (307, 22764), (314, 22809), (339, 22941), (351, 22986), (363, 23046), (385, 23160), (390, 23181), (398, 23220), (401, 23241), (404, 23256), (430, 23406), (431, 23412), (433, 23430), (445, 23484), (460, 23568), (480, 23661), (510, 23907), (536, 24123), (545, 24207), (552, 24240),

Gene: Burwell21_18 Start: 17404, Stop: 19956, Start Num: 63

Candidate Starts for Burwell21_18:

(Start: 63 @17404 has 221 MA's), (95, 17485), (118, 17554), (124, 17563), (125, 17566), (131, 17584), (144, 17632), (155, 17677), (178, 17791), (179, 17794), (182, 17806), (189, 17827), (193, 17836), (194, 17839), (202, 17887), (208, 17917), (217, 17983), (223, 18016), (230, 18052), (234, 18076), (245, 18136), (246, 18139), (251, 18157), (267, 18220), (269, 18223), (272, 18241), (276, 18262), (281, 18280), (287, 18307), (291, 18328), (298, 18361), (305, 18403), (306, 18409), (307, 18412), (310, 18427), (313, 18454), (314, 18457), (319, 18478), (321, 18490), (325, 18523), (347, 18616), (367, 18724), (370, 18748), (371, 18754), (378, 18772), (379, 18775), (384, 18799), (390, 18829), (394, 18853), (401, 18889), (402, 18895), (404, 18904), (408, 18931), (417, 18994), (420, 19018), (421, 19033), (430, 19075), (441, 19126), (458, 19222), (460, 19237), (462, 19246), (468, 19270), (480, 19333), (486, 19369), (521, 19675), (527, 19720), (536, 19822),

Gene: Butterscotch_30 Start: 24316, Stop: 26586, Start Num: 23

Candidate Starts for Butterscotch_30:

(Start: 23 @24316 has 22 MA's), (34, 24451), (35, 24460), (Start: 71 @24634 has 2 MA's), (73, 24640), (76, 24652), (123, 24805), (127, 24820), (133, 24835), (211, 25216), (213, 25222), (218, 25267), (234, 25354), (278, 25555), (279, 25561), (289, 25609), (297, 25639), (301, 25663), (337, 25852), (346, 25879), (357, 25927), (369, 25999), (375, 26038), (381, 26059), (383, 26074), (386, 26092), (395, 26122), (408, 26206), (441, 26407), (447, 26449), (472, 26575),

Gene: BuzzLyseyear_20 Start: 17791, Stop: 20328, Start Num: 63

Candidate Starts for BuzzLyseyear_20:

(Start: 63 @17791 has 221 MA's), (72, 17812), (Start: 86 @17833 has 1 MA's), (95, 17872), (118, 17941), (124, 17950), (125, 17953), (131, 17971), (144, 18019), (177, 18172), (179, 18181), (194, 18226), (211, 18325), (212, 18328), (222, 18394), (235, 18469), (236, 18475), (237, 18493), (244, 18517), (245, 18523), (246, 18526), (254, 18559), (255, 18565), (262, 18595), (269, 18616), (274, 18646), (276, 18655), (280, 18670), (281, 18673), (303, 18784), (304, 18787), (305, 18796), (306, 18802), (309, 18817), (310, 18820), (312, 18841), (319, 18871), (321, 18883), (325, 18916), (351, 19027), (352, 19030), (357, 19057), (358, 19063), (367, 19117), (368, 19120), (387, 19207), (390, 19222), (392, 19234), (393, 19237), (405, 19303), (409, 19327), (411, 19348), (413, 19357), (423, 19417), (424, 19420), (431, 19456), (433, 19474), (437, 19486), (440, 19495), (444, 19522), (455, 19579), (457, 19591), (460, 19609), (462, 19618), (464, 19630), (473, 19666), (477, 19696), (480, 19705), (481, 19717), (490, 19777), (494, 19831), (501, 19891), (506, 19933), (523, 20068), (527, 20092), (532, 20146), (536, 20194), (542, 20236), (544, 20260), (545, 20263),

Gene: ByChance_18 Start: 17408, Stop: 19933, Start Num: 63

Candidate Starts for ByChance_18:

(Start: 63 @17408 has 221 MA's), (95, 17489), (118, 17558), (124, 17567), (125, 17570), (131, 17588), (144, 17636), (156, 17684), (178, 17795), (179, 17798), (189, 17831), (194, 17843), (208, 17921), (217, 17987), (223, 18020), (232, 18074), (235, 18086), (245, 18140), (246, 18143), (249, 18152), (256, 18185), (267, 18224), (269, 18227), (271, 18242), (272, 18245), (278, 18272), (279, 18278), (280, 18281), (281, 18284), (287, 18311), (290, 18329), (291, 18332), (305, 18407), (309, 18428), (310, 18431), (313, 18458), (319, 18482), (325, 18527), (326, 18530), (336, 18581), (352, 18644), (354, 18653), (358, 18677), (379, 18782), (380, 18785), (390, 18836), (391, 18842), (392, 18848),

(393, 18851), (401, 18896), (404, 18911), (408, 18938), (411, 18962), (420, 19013), (423, 19031), (424, 19034), (425, 19046), (437, 19100), (445, 19142), (474, 19286), (482, 19340), (483, 19346), (484, 19349), (488, 19385), (489, 19388), (491, 19397), (492, 19424), (518, 19625), (536, 19796), (541, 19835), (547, 19874), (548, 19877),

Gene: Byougenkin_18 Start: 17418, Stop: 19949, Start Num: 63

Candidate Starts for Byougenkin_18:

(Start: 63 @17418 has 221 MA's), (102, 17508), (118, 17568), (124, 17577), (125, 17580), (131, 17598), (141, 17631), (144, 17646), (156, 17694), (178, 17805), (179, 17808), (188, 17838), (194, 17853), (208, 17931), (212, 17955), (222, 18021), (230, 18066), (235, 18096), (236, 18102), (237, 18120), (244, 18144), (245, 18150), (246, 18153), (254, 18186), (255, 18192), (272, 18261), (276, 18282), (280, 18297), (281, 18300), (303, 18411), (305, 18423), (306, 18429), (309, 18444), (310, 18447), (312, 18468), (321, 18510), (325, 18543), (351, 18654), (352, 18657), (357, 18684), (358, 18690), (367, 18744), (368, 18747), (387, 18834), (390, 18849), (392, 18861), (393, 18864), (405, 18930), (409, 18954), (411, 18975), (413, 18984), (423, 19044), (424, 19047), (431, 19083), (433, 19101), (437, 19113), (440, 19122), (444, 19149), (457, 19218), (460, 19236), (462, 19245), (464, 19257), (473, 19293), (477, 19323), (481, 19344), (486, 19368), (490, 19404), (494, 19458), (501, 19518), (506, 19560), (515, 19638), (523, 19695), (527, 19719), (532, 19773), (536, 19821), (542, 19857), (544, 19881), (545, 19884),

Gene: Cabrinians_18 Start: 17398, Stop: 19950, Start Num: 63

Candidate Starts for Cabrinians_18:

(Start: 63 @17398 has 221 MA's), (95, 17479), (118, 17548), (124, 17557), (125, 17560), (131, 17578), (144, 17626), (155, 17671), (178, 17785), (179, 17788), (182, 17800), (189, 17821), (193, 17830), (194, 17833), (202, 17881), (208, 17911), (217, 17977), (223, 18010), (230, 18046), (234, 18070), (245, 18130), (246, 18133), (251, 18151), (267, 18214), (269, 18217), (272, 18235), (276, 18256), (281, 18274), (287, 18301), (291, 18322), (298, 18355), (305, 18397), (306, 18403), (307, 18406), (310, 18421), (313, 18448), (314, 18451), (319, 18472), (321, 18484), (325, 18517), (347, 18610), (367, 18718), (370, 18742), (371, 18748), (378, 18766), (379, 18769), (384, 18793), (390, 18823), (394, 18847), (401, 18883), (402, 18889), (404, 18898), (408, 18925), (417, 18988), (420, 19012), (421, 19027), (430, 19069), (441, 19120), (458, 19216), (460, 19231), (462, 19240), (468, 19264), (480, 19327), (486, 19363), (521, 19669), (527, 19714), (536, 19816),

Gene: Cactus_27 Start: 21496, Stop: 23892, Start Num: 99

Candidate Starts for Cactus_27:

(Start: 99 @21496 has 123 MA's), (152, 21673), (160, 21694), (199, 21841), (223, 21982), (229, 22015), (235, 22048), (240, 22084), (262, 22177), (276, 22237), (281, 22255), (298, 22336), (339, 22564), (351, 22609), (390, 22804), (391, 22810), (393, 22819), (401, 22864), (404, 22879), (431, 23035), (433, 23053), (436, 23062), (460, 23191), (461, 23194), (493, 23404), (495, 23416), (510, 23530), (536, 23746), (545, 23830), (550, 23854), (552, 23863),

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

Candidate Starts for Candle_30:

(Start: 1 @24637 has 8 MA's), (4, 24649), (Start: 5 @24661 has 1 MA's), (8, 24844), (10, 24925), (14, 25024), (15, 25048), (16, 25066), (26, 25225), (29, 25258), (39, 25306), (44, 25345), (67, 25471), (Start: 71 @25480 has 2 MA's), (120, 25666), (166, 25867), (201, 26044), (217, 26143), (223, 26176), (234, 26221), (236, 26233), (244, 26275), (245, 26281), (246, 26284), (260, 26353), (275, 26431), (276, 26437), (285, 26482), (287, 26485), (303, 26569), (354, 26824), (361, 26863), (388, 27010), (389, 27016), (419, 27190), (424, 27223), (427, 27244), (430, 27253), (434, 27280), (481, 27523), (497, 27667), (522, 27865), (526, 27895), (532, 27952), (535, 27988), (539, 28015), (540, 28027),

Gene: CaptainTrips_19 Start: 18092, Stop: 20629, Start Num: 63

Candidate Starts for CaptainTrips_19:

(Start: 63 @18092 has 221 MA's), (102, 18182), (118, 18242), (124, 18251), (125, 18254), (131, 18272), (141, 18305), (144, 18320), (156, 18368), (178, 18479), (179, 18482), (188, 18512), (193, 18524), (194, 18527), (208, 18605), (212, 18629), (222, 18695), (230, 18740), (235, 18770), (236, 18776), (237, 18794), (244, 18818), (246, 18827), (254, 18860), (255, 18866), (262, 18896), (272, 18935), (274, 18947), (276, 18956), (280, 18971), (281, 18974), (303, 19085), (304, 19088), (305, 19097), (306, 19103), (309, 19118), (310, 19121), (312, 19142), (319, 19172), (321, 19184), (325, 19217), (351, 19328), (352, 19331), (357, 19358), (358, 19364), (367, 19418), (368, 19421), (387, 19508), (390, 19523), (392, 19535), (393, 19538), (405, 19604), (409, 19628), (411, 19649), (413, 19658), (423, 19718), (424, 19721), (431, 19757), (433, 19775), (437, 19787), (440, 19796), (444, 19823), (457, 19892), (460, 19910), (462, 19919), (464, 19931), (473, 19967), (477, 19997), (481, 20018), (486, 20042), (490, 20078), (494, 20132), (501, 20192), (506, 20234), (515, 20312), (523, 20369), (527, 20393), (532, 20447), (536, 20495), (542, 20537), (544, 20561), (545, 20564),

Gene: Catdawg_58 Start: 36145, Stop: 38655, Start Num: 82

Candidate Starts for Catdawg_58:

(Start: 82 @36145 has 28 MA's), (90, 36178), (105, 36247), (106, 36250), (115, 36274), (125, 36298), (135, 36322), (141, 36355), (183, 36562), (186, 36574), (187, 36577), (215, 36724), (217, 36754), (222, 36778), (230, 36808), (231, 36811), (235, 36838), (237, 36862), (245, 36892), (258, 36949), (263, 36973), (272, 37009), (274, 37021), (280, 37045), (281, 37048), (289, 37090), (309, 37186), (310, 37189), (361, 37444), (390, 37588), (401, 37648), (410, 37720), (411, 37723), (428, 37819), (460, 37993), (464, 38014), (482, 38107), (485, 38119), (494, 38209), (504, 38284), (514, 38329), (538, 38530), (543, 38584), (548, 38599),

Gene: Cborch11_30 Start: 25681, Stop: 28524, Start Num: 25

Candidate Starts for Cborch11_30:

(Start: 25 @25681 has 8 MA's), (44, 25813), (46, 25825), (48, 25834), (59, 25903), (62, 25909), (87, 25969), (89, 25990), (103, 26038), (111, 26080), (122, 26104), (134, 26137), (143, 26173), (145, 26185), (167, 26278), (179, 26335), (189, 26374), (214, 26500), (223, 26569), (228, 26599), (236, 26641), (246, 26692), (269, 26782), (272, 26800), (289, 26881), (298, 26920), (301, 26941), (325, 27079), (333, 27118), (349, 27181), (368, 27283), (410, 27508), (478, 27871), (482, 27898), (517, 28141), (521, 28174), (524, 28198), (536, 28318), (546, 28396), (555, 28483), (556, 28498), (557, 28504),

Gene: Che8_18 Start: 17426, Stop: 19963, Start Num: 63

Candidate Starts for Che8_18:

(Start: 63 @17426 has 221 MA's), (72, 17447), (Start: 86 @17468 has 1 MA's), (95, 17507), (118, 17576), (124, 17585), (125, 17588), (131, 17606), (141, 17639), (144, 17654), (178, 17813), (179, 17816), (188, 17846), (194, 17861), (208, 17939), (212, 17963), (222, 18029), (235, 18104), (236, 18110), (237, 18128), (244, 18152), (245, 18158), (246, 18161), (254, 18194), (255, 18200), (262, 18230), (269, 18251), (274, 18281), (276, 18290), (299, 18398), (301, 18410), (303, 18419), (304, 18422), (305, 18431), (306, 18437), (309, 18452), (310, 18455), (312, 18476), (319, 18506), (321, 18518), (325, 18551), (357, 18692), (358, 18698), (367, 18752), (368, 18755), (371, 18782), (390, 18857), (392, 18869), (393, 18872), (397, 18893), (405, 18938), (409, 18962), (413, 18992), (420, 19034), (423, 19052), (424, 19055), (431, 19091), (433, 19109), (437, 19121), (440, 19130), (444, 19157), (455, 19214), (457, 19226), (460, 19244), (462, 19253), (464, 19265), (473, 19301), (477, 19331), (480, 19340), (481, 19352), (490, 19412), (494, 19466), (506, 19568), (515, 19646), (523, 19703), (527, 19727), (532, 19781), (536, 19829), (539, 19850), (544, 19895), (545, 19898),

Gene: Che9d_24 Start: 17101, Stop: 19650, Start Num: 52

Candidate Starts for Che9d_24:

(50, 17092), (Start: 52 @17101 has 7 MA's), (Start: 63 @17161 has 221 MA's), (80, 17197), (113, 17296), (159, 17437), (168, 17476), (172, 17491), (179, 17527), (180, 17533), (181, 17536), (189, 17554), (197, 17578), (201, 17602), (202, 17605), (227, 17749), (230, 17758), (235, 17782), (237,

17806), (244, 17830), (245, 17836), (251, 17857), (252, 17860), (255, 17878), (262, 17908), (270, 17938), (274, 17959), (295, 18052), (298, 18067), (299, 18076), (303, 18097), (304, 18100), (311, 18142), (319, 18184), (320, 18187), (321, 18196), (324, 18223), (326, 18232), (334, 18271), (337, 18292), (339, 18295), (349, 18331), (354, 18352), (367, 18430), (368, 18433), (382, 18487), (392, 18547), (407, 18634), (409, 18640), (411, 18661), (419, 18697), (427, 18751), (430, 18760), (443, 18838), (446, 18856), (450, 18892), (452, 18895), (457, 18913), (460, 18931), (473, 18988), (475, 19000), (486, 19063), (490, 19096), (497, 19183), (503, 19231), (505, 19255), (509, 19282), (510, 19291), (514, 19330), (520, 19369), (523, 19393), (526, 19414), (536, 19510), (539, 19531), (546, 19591), (548, 19594), (552, 19621),

Gene: Chevrolet_18 Start: 17438, Stop: 19975, Start Num: 63

Candidate Starts for Chevrolet_18:

(Start: 63 @17438 has 221 MA's), (72, 17459), (Start: 86 @17480 has 1 MA's), (95, 17519), (118, 17588), (124, 17597), (125, 17600), (131, 17618), (141, 17651), (144, 17666), (178, 17825), (179, 17828), (188, 17858), (194, 17873), (208, 17951), (211, 17972), (212, 17975), (222, 18041), (235, 18116), (236, 18122), (244, 18164), (245, 18170), (246, 18173), (254, 18206), (255, 18212), (262, 18242), (269, 18263), (274, 18293), (276, 18302), (299, 18410), (301, 18422), (303, 18431), (304, 18434), (305, 18443), (306, 18449), (309, 18464), (310, 18467), (312, 18488), (321, 18530), (325, 18563), (357, 18704), (358, 18710), (367, 18764), (368, 18767), (371, 18794), (387, 18854), (390, 18869), (392, 18881), (393, 18884), (405, 18950), (409, 18974), (411, 18995), (413, 19004), (423, 19064), (424, 19067), (431, 19103), (433, 19121), (437, 19133), (440, 19142), (444, 19169), (457, 19238), (460, 19256), (462, 19265), (464, 19277), (473, 19313), (477, 19343), (490, 19424), (494, 19478), (501, 19538), (506, 19580), (515, 19658), (523, 19715), (527, 19739), (532, 19793), (536, 19841), (542, 19883), (544, 19907), (545, 19910),

Gene: ChickenDinner_19 Start: 17271, Stop: 19796, Start Num: 63

Candidate Starts for ChickenDinner_19:

(Start: 63 @17271 has 221 MA's), (72, 17292), (Start: 86 @17313 has 1 MA's), (95, 17352), (118, 17421), (124, 17430), (125, 17433), (131, 17451), (141, 17484), (144, 17499), (156, 17547), (178, 17658), (179, 17661), (194, 17706), (208, 17784), (212, 17808), (222, 17874), (223, 17883), (235, 17949), (236, 17955), (237, 17973), (244, 17997), (245, 18003), (246, 18006), (254, 18039), (255, 18045), (262, 18075), (269, 18096), (276, 18135), (280, 18150), (282, 18156), (310, 18300), (319, 18351), (338, 18462), (352, 18513), (356, 18537), (371, 18630), (384, 18675), (385, 18684), (390, 18705), (392, 18717), (393, 18720), (401, 18765), (409, 18810), (410, 18828), (411, 18831), (420, 18882), (430, 18933), (431, 18939), (433, 18957), (437, 18969), (440, 18978), (445, 19011), (460, 19092), (475, 19161), (480, 19188), (483, 19215), (491, 19266), (494, 19314), (526, 19557), (536, 19662), (539, 19683), (547, 19737), (551, 19761),

Gene: Chill_31 Start: 24322, Stop: 26592, Start Num: 23

Candidate Starts for Chill_31:

(Start: 23 @24322 has 22 MA's), (34, 24457), (35, 24466), (Start: 71 @24640 has 2 MA's), (73, 24646), (76, 24658), (123, 24811), (127, 24826), (133, 24841), (211, 25222), (213, 25228), (218, 25273), (234, 25360), (278, 25561), (279, 25567), (289, 25615), (297, 25645), (301, 25669), (337, 25858), (346, 25885), (357, 25933), (369, 26005), (375, 26044), (381, 26065), (383, 26080), (386, 26098), (395, 26128), (408, 26212), (441, 26413), (447, 26455), (472, 26581),

Gene: ChosenOne_25 Start: 21491, Stop: 23887, Start Num: 99

Candidate Starts for ChosenOne_25:

(Start: 99 @21491 has 123 MA's), (152, 21668), (160, 21689), (199, 21836), (229, 22010), (235, 22043), (240, 22079), (262, 22172), (276, 22232), (281, 22250), (307, 22382), (314, 22427), (339, 22559), (351, 22604), (363, 22664), (385, 22778), (390, 22799), (398, 22838), (401, 22859), (404, 22874), (430, 23024), (431, 23030), (433, 23048), (445, 23102), (460, 23186), (480, 23279), (510, 23525), (536, 23741), (545, 23825), (552, 23858),

Gene: ChotaBhai_26 Start: 21533, Stop: 23929, Start Num: 99

Candidate Starts for ChotaBhai_26:

(Start: 99 @21533 has 123 MA's), (152, 21710), (160, 21731), (199, 21878), (223, 22019), (229, 22052), (235, 22085), (240, 22121), (262, 22214), (276, 22274), (281, 22292), (307, 22424), (314, 22469), (339, 22601), (351, 22646), (385, 22820), (390, 22841), (398, 22880), (401, 22901), (404, 22916), (431, 23072), (433, 23090), (445, 23144), (460, 23228), (480, 23321), (510, 23567), (536, 23783), (545, 23867), (552, 23900),

Gene: Chuckly_18 Start: 17569, Stop: 20106, Start Num: 63

Candidate Starts for Chuckly_18:

(60, 17557), (Start: 63 @17569 has 221 MA's), (72, 17590), (Start: 86 @17611 has 1 MA's), (95, 17650), (118, 17719), (124, 17728), (125, 17731), (131, 17749), (141, 17782), (144, 17797), (156, 17845), (178, 17956), (179, 17959), (188, 17989), (193, 18001), (194, 18004), (208, 18082), (212, 18106), (222, 18172), (230, 18217), (235, 18247), (236, 18253), (237, 18271), (244, 18295), (246, 18304), (254, 18337), (255, 18343), (262, 18373), (272, 18412), (274, 18424), (276, 18433), (280, 18448), (282, 18454), (303, 18562), (304, 18565), (305, 18574), (306, 18580), (309, 18595), (310, 18598), (312, 18619), (319, 18649), (321, 18661), (325, 18694), (339, 18760), (351, 18805), (352, 18808), (357, 18835), (358, 18841), (367, 18895), (368, 18898), (387, 18985), (390, 19000), (392, 19012), (393, 19015), (405, 19081), (409, 19105), (411, 19126), (413, 19135), (423, 19195), (424, 19198), (431, 19234), (433, 19252), (440, 19273), (444, 19300), (457, 19369), (460, 19387), (462, 19396), (464, 19408), (473, 19444), (477, 19474), (481, 19495), (486, 19519), (490, 19555), (494, 19609), (501, 19669), (506, 19711), (523, 19846), (527, 19870), (532, 19924), (536, 19972), (542, 20014), (544, 20038), (545, 20041),

Gene: Cjw1_26 Start: 23044, Stop: 25440, Start Num: 99

Candidate Starts for Cjw1_26:

(Start: 99 @23044 has 123 MA's), (152, 23221), (160, 23242), (199, 23389), (229, 23563), (235, 23596), (240, 23632), (276, 23785), (281, 23803), (307, 23935), (314, 23980), (339, 24112), (351, 24157), (363, 24217), (385, 24331), (390, 24352), (398, 24391), (401, 24412), (404, 24427), (430, 24577), (431, 24583), (433, 24601), (445, 24655), (460, 24739), (480, 24832), (510, 25078), (536, 25294), (545, 25378), (552, 25411),

Gene: Coco12_20 Start: 17795, Stop: 20272, Start Num: 63

Candidate Starts for Coco12_20:

(61, 17783), (Start: 63 @17795 has 221 MA's), (72, 17816), (Start: 86 @17837 has 1 MA's), (96, 17876), (118, 17945), (124, 17954), (125, 17957), (131, 17975), (141, 18008), (144, 18023), (168, 18110), (172, 18125), (179, 18161), (180, 18167), (194, 18200), (197, 18212), (227, 18383), (230, 18392), (235, 18416), (245, 18470), (254, 18506), (255, 18512), (262, 18542), (270, 18572), (274, 18593), (276, 18602), (295, 18686), (306, 18749), (310, 18767), (311, 18776), (314, 18797), (315, 18800), (319, 18818), (321, 18830), (324, 18857), (326, 18866), (336, 18917), (337, 18926), (339, 18929), (347, 18956), (349, 18965), (354, 18986), (367, 19064), (368, 19067), (391, 19175), (392, 19181), (401, 19229), (408, 19271), (409, 19274), (411, 19295), (412, 19301), (413, 19304), (419, 19334), (443, 19475), (446, 19493), (449, 19526), (457, 19550), (458, 19553), (460, 19568), (464, 19589), (473, 19625), (474, 19631), (478, 19658), (482, 19685), (497, 19820), (503, 19868), (505, 19892), (507, 19898), (510, 19916), (523, 20015), (526, 20036), (528, 20054), (536, 20132), (539, 20153), (548, 20216), (550, 20234), (553, 20252),

Gene: Command613_27 Start: 22552, Stop: 24948, Start Num: 99

Candidate Starts for Command613_27:

(Start: 99 @22552 has 123 MA's), (152, 22729), (160, 22750), (199, 22897), (223, 23038), (229, 23071), (235, 23104), (240, 23140), (262, 23233), (276, 23293), (281, 23311), (298, 23392), (339, 23620), (351, 23665), (390, 23860), (391, 23866), (393, 23875), (401, 23920), (404, 23935), (431,

24091), (433, 24109), (436, 24118), (460, 24247), (461, 24250), (493, 24460), (495, 24472), (510, 24586), (536, 24802), (545, 24886), (550, 24910), (552, 24919),

Gene: Contagion_25 Start: 21791, Stop: 24187, Start Num: 99

Candidate Starts for Contagion_25:

(Start: 99 @21791 has 123 MA's), (152, 21968), (160, 21989), (199, 22136), (223, 22277), (229, 22310), (235, 22343), (240, 22379), (262, 22472), (276, 22532), (281, 22550), (307, 22682), (314, 22727), (339, 22859), (351, 22904), (385, 23078), (390, 23099), (398, 23138), (401, 23159), (404, 23174), (431, 23330), (433, 23348), (445, 23402), (460, 23486), (480, 23579), (510, 23825), (536, 24041), (545, 24125), (552, 24158),

Gene: Cookies_26 Start: 22153, Stop: 24549, Start Num: 99

Candidate Starts for Cookies_26:

(Start: 99 @22153 has 123 MA's), (152, 22330), (160, 22351), (199, 22498), (223, 22639), (229, 22672), (235, 22705), (240, 22741), (262, 22834), (276, 22894), (281, 22912), (307, 23044), (314, 23089), (339, 23221), (351, 23266), (363, 23326), (385, 23440), (390, 23461), (398, 23500), (401, 23521), (404, 23536), (430, 23686), (431, 23692), (433, 23710), (445, 23764), (460, 23848), (480, 23941), (510, 24187), (536, 24403), (545, 24487), (552, 24520),

Gene: Corndog_61 Start: 37139, Stop: 39649, Start Num: 82

Candidate Starts for Corndog_61:

(Start: 82 @37139 has 28 MA's), (90, 37172), (105, 37241), (106, 37244), (115, 37268), (125, 37292), (135, 37316), (141, 37349), (183, 37556), (186, 37568), (187, 37571), (215, 37718), (217, 37748), (222, 37772), (230, 37802), (231, 37805), (235, 37832), (237, 37856), (245, 37886), (258, 37943), (272, 38003), (274, 38015), (280, 38039), (281, 38042), (289, 38084), (309, 38180), (310, 38183), (361, 38438), (390, 38582), (401, 38642), (410, 38714), (411, 38717), (428, 38813), (460, 38987), (464, 39008), (482, 39101), (485, 39113), (494, 39203), (504, 39278), (514, 39323), (538, 39524), (543, 39578), (548, 39593),

Gene: Cornie_20 Start: 18264, Stop: 20744, Start Num: 64

Candidate Starts for Cornie_20:

(Start: 64 @18264 has 1 MA's), (66, 18270), (72, 18276), (Start: 99 @18339 has 123 MA's), (101, 18342), (107, 18369), (128, 18423), (131, 18432), (141, 18465), (147, 18498), (159, 18531), (168, 18570), (172, 18585), (179, 18621), (180, 18627), (181, 18630), (189, 18648), (194, 18660), (197, 18672), (201, 18696), (202, 18699), (219, 18804), (223, 18828), (227, 18843), (230, 18852), (235, 18876), (236, 18882), (237, 18900), (240, 18912), (242, 18918), (244, 18924), (245, 18930), (246, 18933), (249, 18942), (251, 18951), (254, 18966), (262, 19002), (272, 19041), (274, 19053), (276, 19062), (295, 19146), (310, 19227), (311, 19236), (315, 19260), (321, 19290), (326, 19326), (336, 19377), (337, 19386), (339, 19389), (347, 19416), (349, 19425), (354, 19446), (360, 19482), (367, 19524), (368, 19527), (382, 19581), (392, 19641), (407, 19728), (409, 19734), (411, 19755), (419, 19791), (427, 19845), (430, 19854), (443, 19932), (446, 19950), (450, 19986), (452, 19989), (457, 20007), (460, 20025), (473, 20082), (475, 20094), (486, 20157), (490, 20190), (497, 20277), (503, 20325), (505, 20349), (509, 20376), (510, 20385), (514, 20424), (520, 20463), (523, 20487), (526, 20508), (536, 20604), (539, 20625), (546, 20685), (548, 20688), (552, 20715),

Gene: Cornucopia_19 Start: 17435, Stop: 19972, Start Num: 63

Candidate Starts for Cornucopia_19:

(Start: 63 @17435 has 221 MA's), (72, 17456), (Start: 86 @17477 has 1 MA's), (95, 17516), (118, 17585), (124, 17594), (125, 17597), (131, 17615), (144, 17663), (177, 17816), (179, 17825), (194, 17870), (211, 17969), (212, 17972), (222, 18038), (235, 18113), (236, 18119), (237, 18137), (244, 18161), (246, 18170), (254, 18203), (255, 18209), (262, 18239), (269, 18260), (272, 18278), (274, 18290), (276, 18299), (280, 18314), (281, 18317), (303, 18428), (304, 18431), (305, 18440), (306, 18446), (309, 18461), (310, 18464), (312, 18485), (319, 18515), (321, 18527), (325, 18560), (351,

18671), (352, 18674), (357, 18701), (358, 18707), (367, 18761), (368, 18764), (379, 18812), (387, 18851), (390, 18866), (392, 18878), (393, 18881), (397, 18902), (405, 18947), (409, 18971), (413, 19001), (420, 19043), (423, 19061), (424, 19064), (431, 19100), (433, 19118), (437, 19130), (440, 19139), (445, 19172), (457, 19235), (460, 19253), (462, 19262), (464, 19274), (477, 19340), (481, 19361), (486, 19385), (490, 19421), (494, 19475), (501, 19535), (506, 19577), (515, 19655), (523, 19712), (527, 19736), (532, 19790), (536, 19838), (542, 19880), (544, 19904), (545, 19907),

Gene: Cosmo_43 Start: 28347, Stop: 30914, Start Num: 58

Candidate Starts for Cosmo_43:

(Start: 58 @28347 has 6 MA's), (Start: 86 @28416 has 1 MA's), (117, 28539), (119, 28545), (121, 28548), (129, 28572), (137, 28593), (170, 28749), (172, 28755), (174, 28761), (179, 28791), (180, 28797), (194, 28818), (196, 28827), (207, 28887), (213, 28923), (218, 28965), (236, 29064), (241, 29097), (245, 29112), (246, 29115), (255, 29154), (269, 29205), (272, 29223), (276, 29244), (278, 29250), (284, 29277), (289, 29304), (303, 29373), (308, 29397), (311, 29418), (314, 29439), (318, 29448), (321, 29469), (325, 29502), (326, 29505), (336, 29556), (339, 29568), (355, 29634), (359, 29652), (365, 29691), (390, 29808), (399, 29853), (408, 29910), (411, 29934), (413, 29943), (416, 29961), (423, 30006), (430, 30039), (435, 30075), (469, 30249), (473, 30267), (474, 30273), (483, 30330), (522, 30654), (525, 30672), (530, 30723), (537, 30786), (544, 30861),

Gene: Courthouse_36 Start: 27742, Stop: 30249, Start Num: 63

Candidate Starts for Courthouse_36:

(Start: 63 @27742 has 221 MA's), (131, 27937), (141, 27973), (144, 27988), (168, 28075), (172, 28090), (194, 28165), (197, 28177), (202, 28204), (219, 28309), (227, 28348), (230, 28357), (235, 28381), (236, 28387), (237, 28405), (242, 28423), (246, 28438), (249, 28447), (251, 28456), (254, 28471), (260, 28498), (262, 28507), (272, 28546), (274, 28558), (276, 28567), (295, 28651), (310, 28732), (314, 28762), (315, 28765), (321, 28795), (324, 28822), (326, 28831), (336, 28882), (337, 28891), (339, 28894), (349, 28930), (354, 28951), (360, 28987), (391, 29140), (401, 29194), (409, 29239), (410, 29257), (411, 29260), (419, 29299), (443, 29446), (445, 29455), (458, 29524), (460, 29539), (490, 29704), (497, 29791), (503, 29839), (510, 29890), (520, 29968), (546, 30190), (548, 30193), (552, 30220),

Gene: CrystalP_26 Start: 22284, Stop: 24680, Start Num: 99

Candidate Starts for CrystalP_26:

(Start: 99 @22284 has 123 MA's), (152, 22461), (160, 22482), (199, 22629), (223, 22770), (229, 22803), (235, 22836), (240, 22872), (262, 22965), (276, 23025), (281, 23043), (298, 23124), (339, 23352), (351, 23397), (390, 23592), (391, 23598), (393, 23607), (401, 23652), (404, 23667), (431, 23823), (433, 23841), (436, 23850), (460, 23979), (461, 23982), (493, 24192), (495, 24204), (510, 24318), (536, 24534), (545, 24618), (550, 24642), (552, 24651),

Gene: Czyszczone1_27 Start: 22029, Stop: 24425, Start Num: 99

Candidate Starts for Czyszczone1_27:

(Start: 99 @22029 has 123 MA's), (152, 22206), (160, 22227), (199, 22374), (229, 22548), (235, 22581), (240, 22617), (262, 22710), (276, 22770), (281, 22788), (307, 22920), (314, 22965), (339, 23097), (351, 23142), (363, 23202), (385, 23316), (390, 23337), (398, 23376), (401, 23397), (404, 23412), (430, 23562), (431, 23568), (433, 23586), (445, 23640), (460, 23724), (480, 23817), (510, 24063), (536, 24279), (545, 24363), (552, 24396),

Gene: DLane_18 Start: 17386, Stop: 19923, Start Num: 63

Candidate Starts for DLane_18:

(60, 17374), (Start: 63 @17386 has 221 MA's), (72, 17407), (Start: 86 @17428 has 1 MA's), (95, 17467), (118, 17536), (124, 17545), (125, 17548), (131, 17566), (141, 17599), (144, 17614), (156, 17662), (178, 17773), (179, 17776), (188, 17806), (189, 17809), (194, 17821), (208, 17899), (212, 17923), (222, 17989), (230, 18034), (235, 18064), (236, 18070), (237, 18088), (244, 18112), (246,

18121), (254, 18154), (255, 18160), (262, 18190), (274, 18241), (276, 18250), (280, 18265), (281, 18268), (303, 18379), (304, 18382), (305, 18391), (306, 18397), (309, 18412), (310, 18415), (312, 18436), (319, 18466), (321, 18478), (325, 18511), (351, 18622), (352, 18625), (357, 18652), (358, 18658), (367, 18712), (368, 18715), (390, 18817), (392, 18829), (393, 18832), (405, 18898), (409, 18922), (411, 18943), (413, 18952), (423, 19012), (424, 19015), (431, 19051), (433, 19069), (437, 19081), (440, 19090), (444, 19117), (457, 19186), (460, 19204), (462, 19213), (464, 19225), (473, 19261), (477, 19291), (481, 19312), (486, 19336), (490, 19372), (494, 19426), (501, 19486), (506, 19528), (515, 19606), (523, 19663), (527, 19687), (532, 19741), (536, 19789), (542, 19831), (544, 19855), (545, 19858),

Gene: DRBy19_18 Start: 17429, Stop: 19966, Start Num: 63

Candidate Starts for DRBy19_18:

(Start: 63 @17429 has 221 MA's), (72, 17450), (Start: 86 @17471 has 1 MA's), (95, 17510), (118, 17579), (124, 17588), (125, 17591), (131, 17609), (144, 17657), (177, 17810), (179, 17819), (194, 17864), (208, 17942), (212, 17966), (222, 18032), (230, 18077), (235, 18107), (236, 18113), (237, 18131), (244, 18155), (246, 18164), (254, 18197), (255, 18203), (262, 18233), (272, 18272), (276, 18293), (280, 18308), (281, 18311), (304, 18425), (305, 18434), (306, 18440), (310, 18458), (312, 18479), (319, 18509), (321, 18521), (325, 18554), (351, 18665), (352, 18668), (357, 18695), (358, 18701), (367, 18755), (368, 18758), (387, 18845), (390, 18860), (393, 18875), (409, 18965), (411, 18986), (413, 18995), (423, 19055), (424, 19058), (431, 19094), (433, 19112), (437, 19124), (440, 19133), (444, 19160), (457, 19229), (460, 19247), (462, 19256), (464, 19268), (473, 19304), (477, 19334), (481, 19355), (486, 19379), (490, 19415), (494, 19469), (506, 19571), (515, 19649), (523, 19706), (527, 19730), (532, 19784), (536, 19832), (542, 19874), (547, 19907), (548, 19910),

Gene: DaWorst_20 Start: 17930, Stop: 20467, Start Num: 63

Candidate Starts for DaWorst_20:

(Start: 63 @17930 has 221 MA's), (72, 17951), (Start: 86 @17972 has 1 MA's), (95, 18011), (118, 18080), (124, 18089), (125, 18092), (131, 18110), (141, 18143), (144, 18158), (178, 18317), (179, 18320), (188, 18350), (194, 18365), (208, 18443), (211, 18464), (212, 18467), (222, 18533), (235, 18608), (236, 18614), (244, 18656), (245, 18662), (246, 18665), (254, 18698), (255, 18704), (262, 18734), (269, 18755), (274, 18785), (276, 18794), (299, 18902), (301, 18914), (303, 18923), (304, 18926), (305, 18935), (306, 18941), (309, 18956), (310, 18959), (312, 18980), (321, 19022), (325, 19055), (357, 19196), (358, 19202), (367, 19256), (368, 19259), (371, 19286), (387, 19346), (390, 19361), (392, 19373), (393, 19376), (405, 19442), (409, 19466), (411, 19487), (413, 19496), (423, 19556), (424, 19559), (431, 19595), (433, 19613), (437, 19625), (440, 19634), (444, 19661), (457, 19730), (460, 19748), (462, 19757), (464, 19769), (473, 19805), (477, 19835), (490, 19916), (494, 19970), (501, 20030), (506, 20072), (515, 20150), (523, 20207), (527, 20231), (532, 20285), (536, 20333), (542, 20375), (544, 20399), (545, 20402),

Gene: DaddyRickover_18 Start: 17568, Stop: 20105, Start Num: 63

Candidate Starts for DaddyRickover_18:

(60, 17556), (Start: 63 @17568 has 221 MA's), (72, 17589), (Start: 86 @17610 has 1 MA's), (95, 17649), (118, 17718), (124, 17727), (125, 17730), (131, 17748), (144, 17796), (156, 17844), (178, 17955), (179, 17958), (194, 18003), (208, 18081), (212, 18105), (222, 18171), (230, 18216), (235, 18246), (236, 18252), (237, 18270), (244, 18294), (246, 18303), (254, 18336), (255, 18342), (262, 18372), (272, 18411), (274, 18423), (276, 18432), (280, 18447), (281, 18450), (303, 18561), (304, 18564), (305, 18573), (306, 18579), (309, 18594), (310, 18597), (312, 18618), (319, 18648), (321, 18660), (325, 18693), (351, 18804), (352, 18807), (357, 18834), (358, 18840), (367, 18894), (368, 18897), (390, 18999), (392, 19011), (393, 19014), (405, 19080), (409, 19104), (411, 19125), (413, 19134), (423, 19194), (424, 19197), (431, 19233), (433, 19251), (440, 19272), (444, 19299), (457, 19368), (460, 19386), (462, 19395), (464, 19407), (473, 19443), (481, 19494), (484, 19512), (490, 19554), (494, 19608), (506, 19710), (523, 19845), (527, 19869), (532, 19923), (539, 19992), (544, 20037), (545, 20040),

Gene: Daenerys_18 Start: 17400, Stop: 19937, Start Num: 63

Candidate Starts for Daenerys_18:

(60, 17388), (Start: 63 @17400 has 221 MA's), (72, 17421), (Start: 86 @17442 has 1 MA's), (95, 17481), (118, 17550), (124, 17559), (125, 17562), (131, 17580), (144, 17628), (156, 17676), (178, 17787), (179, 17790), (194, 17835), (208, 17913), (212, 17937), (222, 18003), (230, 18048), (235, 18078), (236, 18084), (237, 18102), (244, 18126), (246, 18135), (254, 18168), (255, 18174), (262, 18204), (272, 18243), (274, 18255), (276, 18264), (280, 18279), (281, 18282), (303, 18393), (304, 18396), (305, 18405), (306, 18411), (309, 18426), (310, 18429), (312, 18450), (319, 18480), (321, 18492), (325, 18525), (351, 18636), (352, 18639), (357, 18666), (358, 18672), (367, 18726), (368, 18729), (390, 18831), (392, 18843), (393, 18846), (405, 18912), (409, 18936), (411, 18957), (413, 18966), (423, 19026), (424, 19029), (431, 19065), (433, 19083), (440, 19104), (444, 19131), (457, 19200), (460, 19218), (462, 19227), (464, 19239), (473, 19275), (481, 19326), (484, 19344), (490, 19386), (494, 19440), (506, 19542), (523, 19677), (527, 19701), (532, 19755), (539, 19824), (544, 19869), (545, 19872),

Gene: Daikon_24 Start: 22021, Stop: 24417, Start Num: 99

Candidate Starts for Daikon_24:

(Start: 99 @22021 has 123 MA's), (152, 22198), (160, 22219), (199, 22366), (223, 22507), (229, 22540), (235, 22573), (240, 22609), (262, 22702), (276, 22762), (281, 22780), (311, 22936), (314, 22957), (336, 23077), (339, 23089), (351, 23134), (390, 23329), (393, 23344), (401, 23389), (404, 23404), (431, 23560), (433, 23578), (436, 23587), (460, 23716), (461, 23719), (493, 23929), (495, 23941), (510, 24055), (536, 24271), (545, 24355), (550, 24379), (552, 24388),

Gene: Damien_29 Start: 25682, Stop: 28525, Start Num: 25

Candidate Starts for Damien_29:

(Start: 25 @25682 has 8 MA's), (44, 25814), (46, 25826), (48, 25835), (59, 25904), (62, 25910), (87, 25970), (89, 25991), (103, 26039), (111, 26081), (122, 26105), (134, 26138), (143, 26174), (145, 26186), (167, 26279), (179, 26336), (189, 26375), (214, 26501), (223, 26570), (228, 26600), (236, 26642), (246, 26693), (269, 26783), (272, 26801), (289, 26882), (298, 26921), (301, 26942), (325, 27080), (333, 27119), (349, 27182), (368, 27284), (410, 27509), (478, 27872), (482, 27899), (517, 28142), (521, 28175), (524, 28199), (536, 28319), (546, 28397), (555, 28484), (556, 28499), (557, 28505),

Gene: Dante_18 Start: 17416, Stop: 19953, Start Num: 63

Candidate Starts for Dante_18:

(60, 17404), (Start: 63 @17416 has 221 MA's), (72, 17437), (Start: 86 @17458 has 1 MA's), (95, 17497), (118, 17566), (124, 17575), (125, 17578), (131, 17596), (141, 17629), (144, 17644), (156, 17692), (177, 17797), (178, 17803), (179, 17806), (193, 17848), (194, 17851), (208, 17929), (212, 17953), (222, 18019), (230, 18064), (235, 18094), (236, 18100), (237, 18118), (244, 18142), (246, 18151), (254, 18184), (255, 18190), (262, 18220), (272, 18259), (274, 18271), (276, 18280), (280, 18295), (281, 18298), (303, 18409), (304, 18412), (305, 18421), (306, 18427), (309, 18442), (310, 18445), (312, 18466), (319, 18496), (325, 18541), (351, 18652), (352, 18655), (357, 18682), (358, 18688), (367, 18742), (368, 18745), (390, 18847), (392, 18859), (393, 18862), (405, 18928), (409, 18952), (411, 18973), (413, 18982), (423, 19042), (424, 19045), (431, 19081), (433, 19099), (437, 19111), (440, 19120), (444, 19147), (457, 19216), (460, 19234), (462, 19243), (464, 19255), (473, 19291), (477, 19321), (481, 19342), (486, 19366), (490, 19402), (494, 19456), (501, 19516), (506, 19558), (515, 19636), (523, 19693), (527, 19717), (532, 19771), (536, 19819), (542, 19861), (544, 19885), (545, 19888),

Gene: DeadP_18 Start: 17430, Stop: 19967, Start Num: 63

Candidate Starts for DeadP_18:

(60, 17418), (Start: 63 @17430 has 221 MA's), (72, 17451), (Start: 86 @17472 has 1 MA's), (95, 17511), (118, 17580), (124, 17589), (125, 17592), (131, 17610), (141, 17643), (144, 17658), (156, 17706), (177, 17811), (178, 17817), (179, 17820), (193, 17862), (194, 17865), (208, 17943), (222, 18033), (230, 18078), (235, 18108), (236, 18114), (237, 18132), (244, 18156), (246, 18165), (254, 18198), (255, 18204), (262, 18234), (272, 18273), (274, 18285), (276, 18294), (280, 18309), (281, 18312), (303, 18423), (304, 18426), (305, 18435), (306, 18441), (309, 18456), (310, 18459), (312, 18480), (319, 18510), (321, 18522), (325, 18555), (351, 18666), (352, 18669), (357, 18696), (358, 18702), (367, 18756), (368, 18759), (387, 18846), (390, 18861), (392, 18873), (393, 18876), (405, 18942), (409, 18966), (411, 18987), (413, 18996), (423, 19056), (424, 19059), (431, 19095), (433, 19113), (437, 19125), (440, 19134), (444, 19161), (457, 19230), (460, 19248), (462, 19257), (464, 19269), (473, 19305), (477, 19335), (481, 19356), (486, 19380), (490, 19416), (494, 19470), (501, 19530), (506, 19572), (523, 19707), (527, 19731), (532, 19785), (536, 19833), (542, 19875), (544, 19899), (545, 19902),

Gene: Deb65_18 Start: 17397, Stop: 19934, Start Num: 63

Candidate Starts for Deb65_18:

(Start: 63 @17397 has 221 MA's), (72, 17418), (Start: 86 @17439 has 1 MA's), (95, 17478), (118, 17547), (124, 17556), (125, 17559), (131, 17577), (144, 17625), (156, 17673), (178, 17784), (179, 17787), (194, 17832), (208, 17910), (212, 17934), (222, 18000), (235, 18075), (236, 18081), (237, 18099), (244, 18123), (246, 18132), (254, 18165), (255, 18171), (262, 18201), (269, 18222), (274, 18252), (276, 18261), (299, 18369), (301, 18381), (303, 18390), (304, 18393), (306, 18408), (309, 18423), (310, 18426), (312, 18447), (321, 18489), (325, 18522), (351, 18633), (352, 18636), (357, 18663), (358, 18669), (367, 18723), (368, 18726), (371, 18753), (390, 18828), (392, 18840), (393, 18843), (405, 18909), (408, 18930), (409, 18933), (411, 18954), (413, 18963), (420, 19005), (423, 19023), (424, 19026), (430, 19056), (433, 19080), (437, 19092), (440, 19101), (457, 19197), (460, 19215), (462, 19224), (464, 19236), (473, 19272), (477, 19302), (480, 19311), (481, 19323), (490, 19383), (494, 19437), (501, 19497), (506, 19539), (523, 19674), (527, 19698), (532, 19752), (536, 19800), (542, 19842), (544, 19866), (545, 19869),

Gene: Delton_30 Start: 24328, Stop: 26598, Start Num: 23

Candidate Starts for Delton_30:

(Start: 23 @24328 has 22 MA's), (34, 24463), (35, 24472), (Start: 71 @24646 has 2 MA's), (73, 24652), (76, 24664), (123, 24817), (127, 24832), (133, 24847), (211, 25228), (213, 25234), (218, 25279), (234, 25366), (278, 25567), (279, 25573), (289, 25621), (297, 25651), (301, 25675), (337, 25864), (346, 25891), (357, 25939), (369, 26011), (375, 26050), (381, 26071), (383, 26086), (386, 26104), (395, 26134), (408, 26218), (441, 26419), (447, 26461), (472, 26587),

Gene: Demsculpinboyz_24 Start: 17086, Stop: 19635, Start Num: 52

Candidate Starts for Demsculpinboyz_24:

(50, 17077), (Start: 52 @17086 has 7 MA's), (Start: 63 @17146 has 221 MA's), (77, 17179), (80, 17182), (104, 17251), (113, 17281), (168, 17461), (172, 17476), (179, 17512), (180, 17518), (189, 17539), (197, 17563), (201, 17587), (227, 17734), (230, 17743), (235, 17767), (237, 17791), (244, 17815), (245, 17821), (251, 17842), (255, 17863), (262, 17893), (270, 17923), (274, 17944), (295, 18037), (298, 18052), (299, 18061), (300, 18070), (303, 18082), (304, 18085), (319, 18169), (320, 18172), (321, 18181), (324, 18208), (326, 18217), (334, 18256), (337, 18277), (339, 18280), (349, 18316), (354, 18337), (367, 18415), (368, 18418), (392, 18532), (407, 18619), (409, 18625), (411, 18646), (419, 18682), (427, 18736), (430, 18745), (443, 18823), (446, 18841), (450, 18877), (452, 18880), (457, 18898), (460, 18916), (473, 18973), (475, 18985), (486, 19048), (490, 19081), (497, 19168), (503, 19216), (505, 19240), (510, 19276), (514, 19315), (520, 19354), (523, 19378), (526, 19399), (536, 19495), (539, 19516), (546, 19576), (548, 19579), (552, 19606),

Gene: DillTech15_18 Start: 17434, Stop: 19971, Start Num: 63

Candidate Starts for DillTech15_18:

(Start: 63 @17434 has 221 MA's), (72, 17455), (Start: 86 @17476 has 1 MA's), (95, 17515), (118, 17584), (124, 17593), (125, 17596), (131, 17614), (141, 17647), (144, 17662), (177, 17815), (179, 17824), (194, 17869), (211, 17968), (212, 17971), (222, 18037), (230, 18082), (235, 18112), (236, 18118), (237, 18136), (244, 18160), (245, 18166), (246, 18169), (254, 18202), (255, 18208), (262, 18238), (272, 18277), (274, 18289), (276, 18298), (280, 18313), (281, 18316), (303, 18427), (304, 18430), (305, 18439), (306, 18445), (309, 18460), (310, 18463), (312, 18484), (319, 18514), (321, 18526), (325, 18559), (351, 18670), (352, 18673), (357, 18700), (358, 18706), (367, 18760), (368, 18763), (387, 18850), (390, 18865), (392, 18877), (393, 18880), (405, 18946), (409, 18970), (411, 18991), (413, 19000), (423, 19060), (424, 19063), (431, 19099), (433, 19117), (437, 19129), (440, 19138), (444, 19165), (457, 19234), (460, 19252), (462, 19261), (464, 19273), (473, 19309), (477, 19339), (480, 19348), (481, 19360), (486, 19384), (490, 19420), (494, 19474), (501, 19534), (506, 19576), (523, 19711), (527, 19735), (532, 19789), (536, 19837), (542, 19879), (544, 19903), (545, 19906),

Gene: DirtMcgirt_19 Start: 17221, Stop: 19758, Start Num: 63

Candidate Starts for DirtMcgirt_19:

(60, 17209), (Start: 63 @17221 has 221 MA's), (72, 17242), (Start: 86 @17263 has 1 MA's), (95, 17302), (118, 17371), (124, 17380), (125, 17383), (131, 17401), (141, 17434), (144, 17449), (156, 17497), (177, 17602), (179, 17611), (193, 17653), (194, 17656), (208, 17734), (212, 17758), (222, 17824), (230, 17869), (235, 17899), (236, 17905), (237, 17923), (244, 17947), (246, 17956), (254, 17989), (255, 17995), (262, 18025), (272, 18064), (274, 18076), (276, 18085), (280, 18100), (281, 18103), (303, 18214), (305, 18226), (306, 18232), (309, 18247), (310, 18250), (312, 18271), (319, 18301), (321, 18313), (325, 18346), (351, 18457), (352, 18460), (357, 18487), (358, 18493), (367, 18547), (368, 18550), (371, 18577), (390, 18652), (392, 18664), (393, 18667), (405, 18733), (409, 18757), (413, 18787), (420, 18829), (423, 18847), (424, 18850), (431, 18886), (433, 18904), (440, 18925), (444, 18952), (457, 19021), (460, 19039), (462, 19048), (464, 19060), (473, 19096), (477, 19126), (480, 19135), (481, 19147), (490, 19207), (494, 19261), (501, 19321), (506, 19363), (515, 19441), (523, 19498), (527, 19522), (532, 19576), (536, 19624), (542, 19666), (544, 19690), (545, 19693),

Gene: DmpstrDiver_37 Start: 30383, Stop: 32890, Start Num: 63

Candidate Starts for DmpstrDiver_37:

(54, 30326), (Start: 63 @30383 has 221 MA's), (131, 30578), (141, 30614), (144, 30629), (159, 30677), (172, 30731), (179, 30767), (180, 30773), (181, 30776), (189, 30794), (194, 30806), (197, 30818), (202, 30845), (219, 30950), (227, 30989), (230, 30998), (235, 31022), (236, 31028), (237, 31046), (242, 31064), (246, 31079), (249, 31088), (251, 31097), (254, 31112), (260, 31139), (262, 31148), (272, 31187), (274, 31199), (276, 31208), (295, 31292), (310, 31373), (314, 31403), (315, 31406), (321, 31436), (324, 31463), (326, 31472), (336, 31523), (337, 31532), (339, 31535), (349, 31571), (354, 31592), (360, 31628), (391, 31781), (401, 31835), (409, 31880), (410, 31898), (411, 31901), (419, 31940), (443, 32087), (445, 32096), (458, 32165), (460, 32180), (490, 32345), (497, 32432), (503, 32480), (510, 32531), (520, 32609), (546, 32831), (548, 32834), (552, 32861),

Gene: DoRead_18 Start: 17366, Stop: 19891, Start Num: 63

Candidate Starts for DoRead_18:

(Start: 63 @17366 has 221 MA's), (72, 17387), (102, 17456), (118, 17516), (124, 17525), (125, 17528), (131, 17546), (144, 17594), (156, 17642), (178, 17753), (179, 17756), (185, 17777), (189, 17789), (194, 17801), (208, 17879), (217, 17945), (223, 17978), (232, 18032), (235, 18044), (244, 18092), (245, 18098), (246, 18101), (249, 18110), (256, 18143), (267, 18182), (269, 18185), (271, 18200), (278, 18230), (279, 18236), (280, 18239), (281, 18242), (287, 18269), (290, 18287), (291, 18290), (300, 18341), (301, 18344), (305, 18365), (306, 18371), (307, 18374), (309, 18386), (310, 18389), (313, 18416), (319, 18440), (321, 18452), (336, 18539), (352, 18602), (354, 18611), (358, 18635), (379, 18740), (380, 18743), (390, 18794), (391, 18800), (392, 18806), (393, 18809), (401, 18854), (404, 18869), (408, 18896), (411, 18920), (413, 18929), (423, 18989), (424, 18992), (425, 19004),

(433, 19046), (437, 19058), (445, 19100), (474, 19244), (484, 19307), (492, 19382), (518, 19583), (541, 19793), (547, 19832), (548, 19835),

Gene: DocMcStuffins_19 Start: 17271, Stop: 19796, Start Num: 63

Candidate Starts for DocMcStuffins_19:

(Start: 63 @17271 has 221 MA's), (72, 17292), (Start: 86 @17313 has 1 MA's), (95, 17352), (118, 17421), (124, 17430), (125, 17433), (131, 17451), (141, 17484), (144, 17499), (156, 17547), (178, 17658), (179, 17661), (194, 17706), (208, 17784), (212, 17808), (222, 17874), (223, 17883), (235, 17949), (236, 17955), (237, 17973), (244, 17997), (245, 18003), (246, 18006), (254, 18039), (255, 18045), (262, 18075), (269, 18096), (276, 18135), (280, 18150), (282, 18156), (310, 18300), (319, 18351), (338, 18462), (352, 18513), (356, 18537), (371, 18630), (384, 18675), (385, 18684), (390, 18705), (392, 18717), (393, 18720), (401, 18765), (409, 18810), (410, 18828), (411, 18831), (420, 18882), (430, 18933), (431, 18939), (433, 18957), (437, 18969), (440, 18978), (445, 19011), (460, 19092), (475, 19161), (480, 19188), (483, 19215), (491, 19266), (494, 19314), (526, 19557), (536, 19662), (539, 19683), (547, 19737), (551, 19761),

Gene: DoctorDiddles_26 Start: 21446, Stop: 23842, Start Num: 99

Candidate Starts for DoctorDiddles_26:

(Start: 99 @21446 has 123 MA's), (152, 21623), (160, 21644), (199, 21791), (229, 21965), (235, 21998), (240, 22034), (262, 22127), (276, 22187), (281, 22205), (307, 22337), (314, 22382), (339, 22514), (351, 22559), (363, 22619), (385, 22733), (390, 22754), (398, 22793), (401, 22814), (404, 22829), (430, 22979), (431, 22985), (433, 23003), (445, 23057), (460, 23141), (480, 23234), (510, 23480), (536, 23696), (545, 23780), (552, 23813),

Gene: Donkeykong_18 Start: 17574, Stop: 20111, Start Num: 63

Candidate Starts for Donkeykong_18:

(60, 17562), (Start: 63 @17574 has 221 MA's), (72, 17595), (Start: 86 @17616 has 1 MA's), (95, 17655), (118, 17724), (124, 17733), (125, 17736), (131, 17754), (141, 17787), (144, 17802), (156, 17850), (178, 17961), (179, 17964), (188, 17994), (193, 18006), (194, 18009), (208, 18087), (212, 18111), (222, 18177), (230, 18222), (235, 18252), (236, 18258), (237, 18276), (244, 18300), (246, 18309), (254, 18342), (255, 18348), (262, 18378), (272, 18417), (274, 18429), (276, 18438), (280, 18453), (281, 18456), (303, 18567), (304, 18570), (305, 18579), (306, 18585), (309, 18600), (310, 18603), (312, 18624), (319, 18654), (321, 18666), (325, 18699), (339, 18765), (351, 18810), (352, 18813), (357, 18840), (358, 18846), (367, 18900), (368, 18903), (390, 19005), (392, 19017), (393, 19020), (405, 19086), (409, 19110), (411, 19131), (413, 19140), (423, 19200), (424, 19203), (431, 19239), (433, 19257), (437, 19269), (440, 19278), (444, 19305), (457, 19374), (460, 19392), (462, 19401), (464, 19413), (473, 19449), (477, 19479), (481, 19500), (486, 19524), (490, 19560), (494, 19614), (501, 19674), (506, 19716), (515, 19794), (523, 19851), (527, 19875), (532, 19929), (536, 19977), (542, 20019), (544, 20043), (545, 20046),

Gene: Doomphist_18 Start: 17534, Stop: 20071, Start Num: 63

Candidate Starts for Doomphist_18:

(Start: 63 @17534 has 221 MA's), (72, 17555), (Start: 86 @17576 has 1 MA's), (95, 17615), (118, 17684), (124, 17693), (125, 17696), (131, 17714), (144, 17762), (178, 17921), (179, 17924), (194, 17969), (208, 18047), (212, 18071), (222, 18137), (235, 18212), (236, 18218), (237, 18236), (244, 18260), (245, 18266), (246, 18269), (254, 18302), (255, 18308), (262, 18338), (269, 18359), (274, 18389), (276, 18398), (299, 18506), (301, 18518), (303, 18527), (304, 18530), (306, 18545), (309, 18560), (310, 18563), (312, 18584), (321, 18626), (325, 18659), (351, 18770), (352, 18773), (357, 18800), (358, 18806), (367, 18860), (368, 18863), (371, 18890), (390, 18965), (392, 18977), (393, 18980), (405, 19046), (408, 19067), (409, 19070), (411, 19091), (413, 19100), (423, 19160), (424, 19163), (431, 19199), (433, 19217), (437, 19229), (440, 19238), (444, 19265), (455, 19322), (457, 19334), (460, 19352), (462, 19361), (464, 19373), (473, 19409), (477, 19439), (480, 19448), (481, 19460), (490, 19520), (494, 19574), (501, 19634), (506, 19676), (523, 19811), (527, 19835), (532,

19889), (536, 19937), (542, 19979), (544, 20003), (545, 20006),

Gene: Dorothy_18 Start: 17358, Stop: 19895, Start Num: 63

Candidate Starts for Dorothy_18:

(60, 17346), (Start: 63 @17358 has 221 MA's), (72, 17379), (Start: 86 @17400 has 1 MA's), (95, 17439), (118, 17508), (124, 17517), (125, 17520), (131, 17538), (144, 17586), (156, 17634), (178, 17745), (179, 17748), (194, 17793), (208, 17871), (212, 17895), (222, 17961), (230, 18006), (235, 18036), (236, 18042), (237, 18060), (244, 18084), (246, 18093), (254, 18126), (255, 18132), (262, 18162), (272, 18201), (274, 18213), (276, 18222), (280, 18237), (281, 18240), (303, 18351), (304, 18354), (305, 18363), (306, 18369), (309, 18384), (310, 18387), (312, 18408), (319, 18438), (321, 18450), (325, 18483), (351, 18594), (352, 18597), (357, 18624), (358, 18630), (367, 18684), (368, 18687), (390, 18789), (392, 18801), (393, 18804), (405, 18870), (409, 18894), (411, 18915), (413, 18924), (423, 18984), (424, 18987), (431, 19023), (433, 19041), (440, 19062), (444, 19089), (457, 19158), (460, 19176), (462, 19185), (464, 19197), (473, 19233), (481, 19284), (484, 19302), (490, 19344), (494, 19398), (506, 19500), (523, 19635), (527, 19659), (532, 19713), (539, 19782), (544, 19827), (545, 19830),

Gene: DosHalletts_19 Start: 17327, Stop: 19879, Start Num: 63

Candidate Starts for DosHalletts_19:

(Start: 63 @17327 has 221 MA's), (102, 17417), (118, 17477), (124, 17486), (125, 17489), (131, 17507), (144, 17555), (155, 17600), (178, 17714), (179, 17717), (182, 17729), (189, 17750), (193, 17759), (194, 17762), (208, 17840), (217, 17906), (223, 17939), (230, 17975), (234, 17999), (245, 18059), (246, 18062), (251, 18080), (267, 18143), (269, 18146), (272, 18164), (276, 18185), (281, 18203), (287, 18230), (291, 18251), (298, 18284), (305, 18326), (306, 18332), (307, 18335), (310, 18350), (313, 18377), (314, 18380), (319, 18401), (321, 18413), (325, 18446), (347, 18539), (367, 18647), (370, 18671), (371, 18677), (378, 18695), (379, 18698), (384, 18722), (390, 18752), (394, 18776), (401, 18812), (402, 18818), (404, 18827), (408, 18854), (417, 18917), (420, 18941), (421, 18956), (430, 18998), (441, 19049), (458, 19145), (460, 19160), (462, 19169), (468, 19193), (480, 19256), (486, 19292), (521, 19598), (527, 19643), (536, 19745),

Gene: DotProduct_18 Start: 17408, Stop: 19939, Start Num: 63

Candidate Starts for DotProduct_18:

(60, 17396), (Start: 63 @17408 has 221 MA's), (72, 17429), (Start: 86 @17450 has 1 MA's), (95, 17489), (118, 17558), (124, 17567), (125, 17570), (131, 17588), (141, 17621), (144, 17636), (156, 17678), (178, 17789), (179, 17792), (189, 17825), (193, 17834), (194, 17837), (208, 17915), (222, 18005), (230, 18050), (235, 18080), (236, 18086), (237, 18104), (244, 18128), (246, 18137), (254, 18170), (255, 18176), (262, 18206), (274, 18257), (276, 18266), (280, 18281), (281, 18284), (303, 18395), (304, 18398), (305, 18407), (306, 18413), (309, 18428), (310, 18431), (312, 18452), (319, 18482), (321, 18494), (325, 18527), (351, 18638), (352, 18641), (358, 18674), (367, 18728), (368, 18731), (390, 18833), (392, 18845), (393, 18848), (405, 18914), (409, 18938), (411, 18959), (413, 18968), (423, 19028), (424, 19031), (431, 19067), (433, 19085), (437, 19097), (440, 19106), (444, 19133), (457, 19202), (460, 19220), (462, 19229), (464, 19241), (473, 19277), (477, 19307), (481, 19328), (486, 19352), (490, 19388), (494, 19442), (501, 19502), (506, 19544), (515, 19622), (523, 19679), (527, 19703), (532, 19757), (536, 19805), (542, 19847), (544, 19871), (545, 19874),

Gene: Doug_19 Start: 17950, Stop: 20487, Start Num: 63

Candidate Starts for Doug_19:

(60, 17938), (Start: 63 @17950 has 221 MA's), (72, 17971), (Start: 86 @17992 has 1 MA's), (95, 18031), (118, 18100), (124, 18109), (125, 18112), (131, 18130), (141, 18163), (144, 18178), (156, 18226), (177, 18331), (178, 18337), (179, 18340), (193, 18382), (194, 18385), (208, 18463), (222, 18553), (230, 18598), (235, 18628), (236, 18634), (237, 18652), (244, 18676), (246, 18685), (254, 18718), (255, 18724), (262, 18754), (272, 18793), (274, 18805), (276, 18814), (280, 18829), (281, 18832), (303, 18943), (304, 18946), (305, 18955), (306, 18961), (309, 18976), (310, 18979), (312,

19000), (319, 19030), (321, 19042), (325, 19075), (339, 19141), (351, 19186), (352, 19189), (357, 19216), (358, 19222), (367, 19276), (368, 19279), (387, 19366), (390, 19381), (392, 19393), (393, 19396), (405, 19462), (409, 19486), (411, 19507), (413, 19516), (423, 19576), (424, 19579), (431, 19615), (433, 19633), (437, 19645), (440, 19654), (444, 19681), (457, 19750), (460, 19768), (462, 19777), (464, 19789), (473, 19825), (477, 19855), (481, 19876), (486, 19900), (490, 19936), (494, 19990), (501, 20050), (506, 20092), (515, 20170), (523, 20227), (527, 20251), (532, 20305), (536, 20353), (544, 20419), (545, 20422),

Gene: DrDrey_27 Start: 22776, Stop: 25172, Start Num: 99

Candidate Starts for DrDrey_27:

(Start: 99 @22776 has 123 MA's), (152, 22953), (160, 22974), (199, 23121), (229, 23295), (235, 23328), (240, 23364), (262, 23457), (276, 23517), (281, 23535), (307, 23667), (314, 23712), (339, 23844), (351, 23889), (363, 23949), (385, 24063), (390, 24084), (398, 24123), (401, 24144), (404, 24159), (430, 24309), (431, 24315), (433, 24333), (445, 24387), (460, 24471), (480, 24564), (510, 24810), (536, 25026), (545, 25110), (552, 25143),

Gene: DrLupo_38 Start: 27172, Stop: 30258, Start Num: 19

Candidate Starts for DrLupo_38:

(17, 27145), (Start: 19 @27172 has 2 MA's), (20, 27175), (33, 27325), (34, 27328), (46, 27403), (47, 27412), (49, 27415), (57, 27484), (69, 27520), (91, 27595), (110, 27682), (123, 27718), (125, 27727), (133, 27748), (146, 27817), (153, 27841), (160, 27883), (161, 27886), (169, 27916), (178, 27958), (191, 28009), (206, 28090), (208, 28102), (216, 28162), (221, 28183), (225, 28222), (240, 28303), (250, 28336), (277, 28468), (286, 28507), (291, 28531), (294, 28546), (313, 28648), (317, 28660), (319, 28672), (320, 28675), (357, 28852), (364, 28885), (366, 28909), (376, 28966), (409, 29152), (418, 29218), (423, 29266), (432, 29317), (438, 29341), (439, 29347), (448, 29419), (456, 29443), (459, 29458), (473, 29527), (529, 29998), (534, 30052), (549, 30196),

Gene: Drago_19 Start: 17219, Stop: 19756, Start Num: 63

Candidate Starts for Drago_19:

(60, 17207), (Start: 63 @17219 has 221 MA's), (72, 17240), (Start: 86 @17261 has 1 MA's), (95, 17300), (118, 17369), (124, 17378), (125, 17381), (131, 17399), (141, 17432), (144, 17447), (156, 17495), (177, 17600), (179, 17609), (193, 17651), (194, 17654), (208, 17732), (212, 17756), (222, 17822), (230, 17867), (235, 17897), (236, 17903), (237, 17921), (244, 17945), (246, 17954), (254, 17987), (255, 17993), (262, 18023), (272, 18062), (274, 18074), (276, 18083), (280, 18098), (281, 18101), (303, 18212), (305, 18224), (306, 18230), (309, 18245), (310, 18248), (312, 18269), (319, 18299), (321, 18311), (325, 18344), (339, 18410), (351, 18455), (352, 18458), (357, 18485), (358, 18491), (367, 18545), (368, 18548), (371, 18575), (390, 18650), (392, 18662), (393, 18665), (405, 18731), (409, 18755), (413, 18785), (420, 18827), (423, 18845), (424, 18848), (431, 18884), (433, 18902), (440, 18923), (444, 18950), (457, 19019), (460, 19037), (462, 19046), (464, 19058), (473, 19094), (477, 19124), (480, 19133), (481, 19145), (490, 19205), (494, 19259), (501, 19319), (506, 19361), (515, 19439), (523, 19496), (527, 19520), (532, 19574), (536, 19622), (542, 19664), (544, 19688), (545, 19691),

Gene: Duke13_36 Start: 29781, Stop: 32336, Start Num: 63

Candidate Starts for Duke13_36:

(53, 29724), (Start: 63 @29781 has 221 MA's), (131, 29976), (141, 30012), (144, 30027), (156, 30075), (178, 30186), (179, 30189), (194, 30234), (208, 30312), (212, 30336), (222, 30402), (230, 30447), (235, 30477), (236, 30483), (237, 30501), (244, 30525), (246, 30534), (254, 30567), (255, 30573), (262, 30603), (272, 30642), (274, 30654), (276, 30663), (280, 30678), (281, 30681), (303, 30792), (304, 30795), (305, 30804), (306, 30810), (309, 30825), (310, 30828), (312, 30849), (319, 30879), (321, 30891), (325, 30924), (351, 31035), (352, 31038), (357, 31065), (358, 31071), (367, 31125), (368, 31128), (390, 31230), (392, 31242), (393, 31245), (405, 31311), (409, 31335), (411, 31356), (413, 31365), (423, 31425), (424, 31428), (431, 31464), (433, 31482), (440, 31503), (444, 31530),

(457, 31599), (460, 31617), (462, 31626), (464, 31638), (473, 31674), (481, 31725), (484, 31743), (490, 31785), (494, 31839), (506, 31941), (523, 32076), (527, 32100), (532, 32154), (539, 32223), (544, 32268), (545, 32271),

Gene: Dumbo_26 Start: 21751, Stop: 24147, Start Num: 99

Candidate Starts for Dumbo_26:

(Start: 99 @21751 has 123 MA's), (152, 21928), (160, 21949), (199, 22096), (229, 22270), (235, 22303), (240, 22339), (262, 22432), (276, 22492), (281, 22510), (307, 22642), (314, 22687), (339, 22819), (351, 22864), (363, 22924), (385, 23038), (390, 23059), (398, 23098), (401, 23119), (404, 23134), (430, 23284), (431, 23290), (433, 23308), (445, 23362), (460, 23446), (480, 23539), (510, 23785), (536, 24001), (545, 24085), (552, 24118),

Gene: Dusk_25 Start: 21943, Stop: 24339, Start Num: 99

Candidate Starts for Dusk_25:

(Start: 99 @21943 has 123 MA's), (152, 22120), (160, 22141), (199, 22288), (223, 22429), (229, 22462), (235, 22495), (240, 22531), (262, 22624), (276, 22684), (281, 22702), (298, 22783), (339, 23011), (351, 23056), (390, 23251), (391, 23257), (393, 23266), (401, 23311), (404, 23326), (431, 23482), (433, 23500), (436, 23509), (446, 23563), (460, 23638), (461, 23641), (493, 23851), (495, 23863), (510, 23977), (536, 24193), (545, 24277), (550, 24301), (552, 24310),

Gene: Dylan_58 Start: 36190, Stop: 38700, Start Num: 82

Candidate Starts for Dylan_58:

(Start: 82 @36190 has 28 MA's), (90, 36223), (105, 36292), (106, 36295), (115, 36319), (125, 36343), (135, 36367), (141, 36400), (183, 36607), (186, 36619), (187, 36622), (215, 36769), (217, 36799), (222, 36823), (230, 36853), (231, 36856), (235, 36883), (237, 36907), (245, 36937), (258, 36994), (272, 37054), (274, 37066), (280, 37090), (281, 37093), (289, 37135), (309, 37231), (310, 37234), (361, 37489), (390, 37633), (401, 37693), (410, 37765), (411, 37768), (428, 37864), (460, 38038), (464, 38059), (482, 38152), (485, 38164), (494, 38254), (504, 38329), (514, 38374), (538, 38575), (543, 38629), (548, 38644),

Gene: Easy2Say_28 Start: 23534, Stop: 25930, Start Num: 99

Candidate Starts for Easy2Say_28:

(Start: 99 @23534 has 123 MA's), (152, 23711), (160, 23732), (199, 23879), (223, 24020), (229, 24053), (235, 24086), (240, 24122), (262, 24215), (276, 24275), (281, 24293), (307, 24425), (314, 24470), (339, 24602), (351, 24647), (363, 24707), (385, 24821), (390, 24842), (398, 24881), (401, 24902), (404, 24917), (430, 25067), (431, 25073), (433, 25091), (445, 25145), (460, 25229), (480, 25322), (510, 25568), (536, 25784), (545, 25868), (552, 25901),

Gene: Eish_18 Start: 17540, Stop: 20077, Start Num: 63

Candidate Starts for Eish_18:

(Start: 63 @17540 has 221 MA's), (72, 17561), (Start: 86 @17582 has 1 MA's), (95, 17621), (118, 17690), (124, 17699), (125, 17702), (131, 17720), (141, 17753), (144, 17768), (156, 17816), (177, 17921), (179, 17930), (194, 17975), (208, 18053), (212, 18077), (222, 18143), (235, 18218), (236, 18224), (237, 18242), (244, 18266), (245, 18272), (246, 18275), (254, 18308), (255, 18314), (262, 18344), (269, 18365), (274, 18395), (276, 18404), (299, 18512), (301, 18524), (303, 18533), (304, 18536), (305, 18545), (306, 18551), (309, 18566), (310, 18569), (312, 18590), (319, 18620), (321, 18632), (325, 18665), (326, 18668), (339, 18731), (357, 18806), (358, 18812), (367, 18866), (368, 18869), (371, 18896), (390, 18971), (392, 18983), (393, 18986), (405, 19052), (411, 19097), (413, 19106), (423, 19166), (424, 19169), (431, 19205), (433, 19223), (440, 19244), (457, 19340), (460, 19358), (462, 19367), (464, 19379), (473, 19415), (477, 19445), (490, 19526), (494, 19580), (506, 19682), (523, 19817), (527, 19841), (532, 19895), (536, 19943), (542, 19985), (544, 20009), (545, 20012),

Gene: EleanorGeorge_18 Start: 17568, Stop: 20105, Start Num: 63

Candidate Starts for EleanorGeorge_18:

(60, 17556), (Start: 63 @17568 has 221 MA's), (72, 17589), (Start: 86 @17610 has 1 MA's), (95, 17649), (118, 17718), (124, 17727), (125, 17730), (131, 17748), (141, 17781), (144, 17796), (156, 17844), (178, 17955), (179, 17958), (188, 17988), (193, 18000), (194, 18003), (208, 18081), (212, 18105), (222, 18171), (230, 18216), (235, 18246), (236, 18252), (237, 18270), (244, 18294), (246, 18303), (254, 18336), (255, 18342), (262, 18372), (272, 18411), (274, 18423), (276, 18432), (280, 18447), (281, 18450), (303, 18561), (304, 18564), (305, 18573), (306, 18579), (309, 18594), (310, 18597), (312, 18618), (319, 18648), (321, 18660), (325, 18693), (351, 18804), (352, 18807), (357, 18834), (358, 18840), (367, 18894), (368, 18897), (387, 18984), (390, 18999), (392, 19011), (393, 19014), (405, 19080), (409, 19104), (411, 19125), (413, 19134), (423, 19194), (424, 19197), (431, 19233), (433, 19251), (437, 19263), (440, 19272), (444, 19299), (457, 19368), (460, 19386), (462, 19395), (464, 19407), (473, 19443), (477, 19473), (481, 19494), (486, 19518), (490, 19554), (494, 19608), (501, 19668), (506, 19710), (515, 19788), (523, 19845), (527, 19869), (532, 19923), (536, 19971), (542, 20013), (544, 20037), (545, 20040),

Gene: Elite2014_25 Start: 21491, Stop: 23887, Start Num: 99

Candidate Starts for Elite2014_25:

(Start: 99 @21491 has 123 MA's), (152, 21668), (160, 21689), (199, 21836), (229, 22010), (235, 22043), (240, 22079), (262, 22172), (276, 22232), (281, 22250), (307, 22382), (314, 22427), (339, 22559), (351, 22604), (363, 22664), (385, 22778), (390, 22799), (398, 22838), (401, 22859), (404, 22874), (430, 23024), (431, 23030), (433, 23048), (445, 23102), (460, 23186), (480, 23279), (510, 23525), (536, 23741), (545, 23825), (552, 23858),

Gene: Elph10_27 Start: 21754, Stop: 24150, Start Num: 99

Candidate Starts for Elph10_27:

(Start: 99 @21754 has 123 MA's), (152, 21931), (160, 21952), (199, 22099), (229, 22273), (235, 22306), (240, 22342), (262, 22435), (276, 22495), (281, 22513), (307, 22645), (314, 22690), (339, 22822), (351, 22867), (363, 22927), (385, 23041), (390, 23062), (398, 23101), (401, 23122), (404, 23137), (430, 23287), (431, 23293), (433, 23311), (445, 23365), (460, 23449), (480, 23542), (510, 23788), (536, 24004), (545, 24088), (552, 24121),

Gene: Emma_18 Start: 17448, Stop: 19985, Start Num: 63

Candidate Starts for Emma_18:

(60, 17436), (Start: 63 @17448 has 221 MA's), (72, 17469), (Start: 86 @17490 has 1 MA's), (95, 17529), (118, 17598), (124, 17607), (125, 17610), (131, 17628), (141, 17661), (144, 17676), (156, 17724), (178, 17835), (179, 17838), (188, 17868), (194, 17883), (208, 17961), (212, 17985), (222, 18051), (230, 18096), (235, 18126), (236, 18132), (237, 18150), (244, 18174), (246, 18183), (254, 18216), (255, 18222), (262, 18252), (272, 18291), (274, 18303), (276, 18312), (280, 18327), (281, 18330), (303, 18441), (304, 18444), (305, 18453), (306, 18459), (309, 18474), (310, 18477), (312, 18498), (319, 18528), (321, 18540), (325, 18573), (339, 18639), (351, 18684), (352, 18687), (357, 18714), (358, 18720), (367, 18774), (368, 18777), (387, 18864), (390, 18879), (392, 18891), (393, 18894), (405, 18960), (409, 18984), (411, 19005), (413, 19014), (420, 19056), (423, 19074), (424, 19077), (431, 19113), (433, 19131), (437, 19143), (440, 19152), (444, 19179), (457, 19248), (460, 19266), (462, 19275), (464, 19287), (473, 19323), (477, 19353), (481, 19374), (486, 19398), (490, 19434), (494, 19488), (501, 19548), (506, 19590), (523, 19725), (527, 19749), (532, 19803), (536, 19851), (542, 19893), (544, 19917), (545, 19920),

Gene: Emmina_27 Start: 22115, Stop: 24511, Start Num: 99

Candidate Starts for Emmina_27:

(Start: 99 @22115 has 123 MA's), (152, 22292), (160, 22313), (199, 22460), (229, 22634), (235, 22667), (240, 22703), (262, 22796), (276, 22856), (281, 22874), (307, 23006), (314, 23051), (339, 23183), (351, 23228), (363, 23288), (385, 23402), (390, 23423), (398, 23462), (401, 23483), (404,

23498), (430, 23648), (431, 23654), (433, 23672), (445, 23726), (460, 23810), (480, 23903), (510, 24149), (536, 24365), (545, 24449), (552, 24482),

Gene: Empress_19 Start: 18749, Stop: 21286, Start Num: 63

Candidate Starts for Empress_19:

(60, 18737), (Start: 63 @18749 has 221 MA's), (72, 18770), (Start: 86 @18791 has 1 MA's), (95, 18830), (118, 18899), (124, 18908), (125, 18911), (131, 18929), (144, 18977), (156, 19025), (178, 19136), (179, 19139), (194, 19184), (208, 19262), (212, 19286), (222, 19352), (230, 19397), (235, 19427), (236, 19433), (237, 19451), (244, 19475), (246, 19484), (254, 19517), (255, 19523), (262, 19553), (272, 19592), (274, 19604), (276, 19613), (280, 19628), (281, 19631), (303, 19742), (304, 19745), (305, 19754), (306, 19760), (309, 19775), (310, 19778), (312, 19799), (319, 19829), (321, 19841), (325, 19874), (351, 19985), (352, 19988), (357, 20015), (358, 20021), (367, 20075), (368, 20078), (390, 20180), (392, 20192), (393, 20195), (405, 20261), (409, 20285), (411, 20306), (413, 20315), (423, 20375), (424, 20378), (431, 20414), (433, 20432), (440, 20453), (444, 20480), (455, 20537), (457, 20549), (460, 20567), (462, 20576), (464, 20588), (473, 20624), (477, 20654), (480, 20663), (481, 20675), (490, 20735), (494, 20789), (501, 20849), (506, 20891), (523, 21026), (527, 21050), (532, 21104), (536, 21152), (539, 21173), (544, 21218), (545, 21221),

Gene: Enby_19 Start: 17219, Stop: 19756, Start Num: 63

Candidate Starts for Enby_19:

(60, 17207), (Start: 63 @17219 has 221 MA's), (72, 17240), (Start: 86 @17261 has 1 MA's), (95, 17300), (118, 17369), (124, 17378), (125, 17381), (131, 17399), (141, 17432), (144, 17447), (156, 17495), (177, 17600), (179, 17609), (193, 17651), (194, 17654), (208, 17732), (212, 17756), (222, 17822), (230, 17867), (235, 17897), (236, 17903), (237, 17921), (244, 17945), (246, 17954), (254, 17987), (255, 17993), (262, 18023), (272, 18062), (274, 18074), (276, 18083), (280, 18098), (281, 18101), (303, 18212), (305, 18224), (306, 18230), (309, 18245), (310, 18248), (312, 18269), (319, 18299), (321, 18311), (325, 18344), (339, 18410), (351, 18455), (352, 18458), (357, 18485), (358, 18491), (367, 18545), (368, 18548), (371, 18575), (390, 18650), (392, 18662), (393, 18665), (405, 18731), (409, 18755), (413, 18785), (420, 18827), (423, 18845), (424, 18848), (431, 18884), (433, 18902), (440, 18923), (444, 18950), (457, 19019), (460, 19037), (462, 19046), (464, 19058), (473, 19094), (477, 19124), (480, 19133), (481, 19145), (490, 19205), (494, 19259), (501, 19319), (506, 19361), (515, 19439), (523, 19496), (527, 19520), (532, 19574), (536, 19622), (542, 19664), (544, 19688), (545, 19691),

Gene: EniyanLRS_40 Start: 28045, Stop: 30612, Start Num: 58

Candidate Starts for EniyanLRS_40:

(Start: 58 @28045 has 6 MA's), (Start: 86 @28114 has 1 MA's), (117, 28237), (119, 28243), (121, 28246), (129, 28270), (137, 28291), (170, 28447), (172, 28453), (174, 28459), (179, 28489), (180, 28495), (194, 28516), (196, 28525), (207, 28585), (218, 28663), (236, 28762), (241, 28795), (245, 28810), (246, 28813), (255, 28852), (269, 28903), (272, 28921), (276, 28942), (278, 28948), (289, 29002), (303, 29071), (308, 29095), (311, 29116), (314, 29137), (318, 29146), (321, 29167), (325, 29200), (326, 29203), (336, 29254), (339, 29266), (355, 29332), (359, 29350), (365, 29389), (390, 29506), (399, 29551), (408, 29608), (411, 29632), (413, 29641), (416, 29659), (423, 29704), (430, 29737), (435, 29773), (469, 29947), (473, 29965), (474, 29971), (483, 30028), (522, 30352), (525, 30370), (530, 30421), (537, 30484), (544, 30559),

Gene: Eradicator_18 Start: 17363, Stop: 19915, Start Num: 63

Candidate Starts for Eradicator_18:

(Start: 63 @17363 has 221 MA's), (72, 17384), (102, 17453), (118, 17513), (124, 17522), (125, 17525), (141, 17576), (144, 17591), (156, 17639), (178, 17750), (179, 17753), (189, 17786), (193, 17795), (194, 17798), (208, 17876), (217, 17942), (223, 17975), (232, 18029), (235, 18041), (244, 18089), (246, 18098), (249, 18107), (256, 18140), (269, 18182), (271, 18197), (278, 18227), (279, 18233), (280, 18236), (281, 18239), (287, 18266), (291, 18287), (298, 18320), (305, 18362), (306, 18368),

(307, 18371), (309, 18383), (310, 18386), (313, 18413), (319, 18437), (321, 18449), (325, 18482), (329, 18503), (347, 18575), (352, 18596), (370, 18707), (378, 18731), (379, 18734), (384, 18758), (390, 18788), (394, 18812), (401, 18848), (402, 18854), (404, 18863), (417, 18953), (420, 18977), (421, 18992), (430, 19034), (431, 19040), (441, 19085), (458, 19181), (460, 19196), (462, 19205), (468, 19229), (480, 19292), (494, 19418), (521, 19634), (527, 19679), (536, 19781), (548, 19859),

Gene: Erk16_30 Start: 24319, Stop: 26589, Start Num: 23

Candidate Starts for Erk16_30:

(Start: 23 @24319 has 22 MA's), (34, 24454), (35, 24463), (Start: 71 @24637 has 2 MA's), (73, 24643), (76, 24655), (123, 24808), (127, 24823), (133, 24838), (211, 25219), (213, 25225), (218, 25270), (234, 25357), (278, 25558), (279, 25564), (289, 25612), (297, 25642), (301, 25666), (337, 25855), (346, 25882), (357, 25930), (369, 26002), (375, 26041), (381, 26062), (383, 26077), (386, 26095), (395, 26125), (408, 26209), (441, 26410), (447, 26452), (472, 26578),

Gene: Estave1_18 Start: 17517, Stop: 20006, Start Num: 63

Candidate Starts for Estave1_18:

(Start: 63 @17517 has 221 MA's), (72, 17538), (Start: 86 @17559 has 1 MA's), (96, 17598), (118, 17667), (124, 17676), (125, 17679), (131, 17697), (141, 17730), (144, 17745), (159, 17793), (172, 17847), (179, 17883), (181, 17892), (189, 17910), (194, 17922), (197, 17934), (201, 17958), (202, 17961), (227, 18105), (230, 18114), (235, 18138), (237, 18162), (244, 18186), (245, 18192), (251, 18213), (255, 18234), (262, 18264), (270, 18294), (274, 18315), (295, 18408), (298, 18423), (299, 18432), (303, 18453), (304, 18456), (319, 18540), (320, 18543), (321, 18552), (324, 18579), (326, 18588), (334, 18627), (337, 18648), (339, 18651), (349, 18687), (354, 18708), (367, 18786), (368, 18789), (382, 18843), (392, 18903), (409, 18996), (411, 19017), (419, 19053), (427, 19107), (430, 19116), (443, 19194), (446, 19212), (450, 19248), (452, 19251), (457, 19269), (458, 19272), (460, 19287), (473, 19344), (475, 19356), (490, 19452), (497, 19539), (503, 19587), (505, 19611), (509, 19638), (510, 19647), (514, 19686), (520, 19725), (523, 19749), (526, 19770), (536, 19866), (539, 19887), (548, 19950), (552, 19977), (553, 19986),

Gene: Eureka_26 Start: 22269, Stop: 24665, Start Num: 99

Candidate Starts for Eureka_26:

(Start: 99 @22269 has 123 MA's), (152, 22446), (160, 22467), (199, 22614), (223, 22755), (229, 22788), (235, 22821), (240, 22857), (262, 22950), (276, 23010), (281, 23028), (298, 23109), (339, 23337), (351, 23382), (390, 23577), (391, 23583), (393, 23592), (401, 23637), (404, 23652), (431, 23808), (433, 23826), (436, 23835), (446, 23889), (460, 23964), (461, 23967), (493, 24177), (495, 24189), (510, 24303), (536, 24519), (545, 24603), (550, 24627), (552, 24636),

Gene: FairyPath_26 Start: 22481, Stop: 24877, Start Num: 99

Candidate Starts for FairyPath_26:

(Start: 99 @22481 has 123 MA's), (152, 22658), (160, 22679), (199, 22826), (223, 22967), (229, 23000), (235, 23033), (240, 23069), (262, 23162), (276, 23222), (281, 23240), (311, 23396), (314, 23417), (336, 23537), (339, 23549), (351, 23594), (390, 23789), (391, 23795), (393, 23804), (401, 23849), (404, 23864), (431, 24020), (433, 24038), (436, 24047), (446, 24101), (460, 24176), (461, 24179), (493, 24389), (495, 24401), (510, 24515), (536, 24731), (545, 24815), (550, 24839), (552, 24848),

Gene: Familton_59 Start: 36102, Stop: 38612, Start Num: 82

Candidate Starts for Familton_59:

(Start: 82 @36102 has 28 MA's), (90, 36135), (105, 36204), (106, 36207), (115, 36231), (125, 36255), (135, 36279), (141, 36312), (183, 36519), (186, 36531), (187, 36534), (215, 36681), (217, 36711), (222, 36735), (230, 36765), (231, 36768), (235, 36795), (237, 36819), (245, 36849), (258, 36906), (263, 36930), (272, 36966), (274, 36978), (280, 37002), (281, 37005), (289, 37047), (309, 37143), (310, 37146), (361, 37401), (390, 37545), (401, 37605), (410, 37677), (411, 37680), (428, 37776),

(460, 37950), (464, 37971), (482, 38064), (485, 38076), (494, 38166), (504, 38241), (514, 38286), (538, 38487), (543, 38541), (548, 38556),

Gene: Fancypants_18 Start: 17408, Stop: 19945, Start Num: 63

Candidate Starts for Fancypants_18:

(60, 17396), (Start: 63 @17408 has 221 MA's), (72, 17429), (Start: 86 @17450 has 1 MA's), (95, 17489), (118, 17558), (124, 17567), (125, 17570), (131, 17588), (141, 17621), (144, 17636), (156, 17684), (178, 17795), (179, 17798), (188, 17828), (193, 17840), (194, 17843), (208, 17921), (212, 17945), (222, 18011), (230, 18056), (235, 18086), (236, 18092), (237, 18110), (244, 18134), (246, 18143), (254, 18176), (255, 18182), (262, 18212), (272, 18251), (274, 18263), (276, 18272), (280, 18287), (281, 18290), (303, 18401), (304, 18404), (305, 18413), (306, 18419), (309, 18434), (310, 18437), (312, 18458), (319, 18488), (321, 18500), (325, 18533), (351, 18644), (352, 18647), (357, 18674), (358, 18680), (367, 18734), (368, 18737), (390, 18839), (392, 18851), (393, 18854), (405, 18920), (409, 18944), (411, 18965), (413, 18974), (423, 19034), (424, 19037), (425, 19049), (431, 19073), (433, 19091), (437, 19103), (440, 19112), (444, 19139), (457, 19208), (460, 19226), (462, 19235), (464, 19247), (473, 19283), (477, 19313), (481, 19334), (486, 19358), (490, 19394), (494, 19448), (501, 19508), (506, 19550), (515, 19628), (523, 19685), (527, 19709), (532, 19763), (536, 19811), (542, 19853), (544, 19877), (545, 19880),

Gene: Fastidio_18 Start: 17365, Stop: 19902, Start Num: 63

Candidate Starts for Fastidio_18:

(60, 17353), (Start: 63 @17365 has 221 MA's), (72, 17386), (Start: 86 @17407 has 1 MA's), (95, 17446), (118, 17515), (124, 17524), (125, 17527), (131, 17545), (141, 17578), (144, 17593), (156, 17641), (178, 17752), (179, 17755), (188, 17785), (193, 17797), (194, 17800), (208, 17878), (212, 17902), (222, 17968), (230, 18013), (235, 18043), (236, 18049), (237, 18067), (244, 18091), (246, 18100), (254, 18133), (255, 18139), (262, 18169), (272, 18208), (274, 18220), (276, 18229), (280, 18244), (281, 18247), (303, 18358), (304, 18361), (305, 18370), (306, 18376), (309, 18391), (310, 18394), (312, 18415), (319, 18445), (321, 18457), (325, 18490), (351, 18601), (352, 18604), (357, 18631), (358, 18637), (367, 18691), (368, 18694), (387, 18781), (390, 18796), (392, 18808), (393, 18811), (405, 18877), (408, 18898), (409, 18901), (411, 18922), (420, 18973), (423, 18991), (424, 18994), (431, 19030), (433, 19048), (437, 19060), (440, 19069), (455, 19153), (457, 19165), (460, 19183), (462, 19192), (464, 19204), (473, 19240), (477, 19270), (486, 19315), (490, 19351), (494, 19405), (506, 19507), (515, 19585), (523, 19642), (527, 19666), (532, 19720), (536, 19768), (542, 19810), (544, 19834), (545, 19837),

Gene: Filch_27 Start: 22042, Stop: 24438, Start Num: 99

Candidate Starts for Filch_27:

(Start: 99 @22042 has 123 MA's), (152, 22219), (160, 22240), (199, 22387), (223, 22528), (229, 22561), (235, 22594), (240, 22630), (262, 22723), (276, 22783), (281, 22801), (307, 22933), (314, 22978), (339, 23110), (351, 23155), (363, 23215), (385, 23329), (390, 23350), (398, 23389), (401, 23410), (404, 23425), (430, 23575), (431, 23581), (433, 23599), (445, 23653), (460, 23737), (480, 23830), (510, 24076), (536, 24292), (545, 24376), (552, 24409),

Gene: Filuzino_18 Start: 17390, Stop: 19927, Start Num: 63

Candidate Starts for Filuzino_18:

(60, 17378), (Start: 63 @17390 has 221 MA's), (72, 17411), (Start: 86 @17432 has 1 MA's), (95, 17471), (118, 17540), (124, 17549), (125, 17552), (131, 17570), (141, 17603), (144, 17618), (156, 17666), (178, 17777), (179, 17780), (188, 17810), (194, 17825), (208, 17903), (212, 17927), (222, 17993), (230, 18038), (235, 18068), (236, 18074), (237, 18092), (244, 18116), (246, 18125), (254, 18158), (255, 18164), (262, 18194), (272, 18233), (274, 18245), (276, 18254), (280, 18269), (281, 18272), (303, 18383), (304, 18386), (305, 18395), (306, 18401), (309, 18416), (310, 18419), (312, 18440), (319, 18470), (321, 18482), (325, 18515), (351, 18626), (352, 18629), (357, 18656), (358, 18662), (367, 18716), (368, 18719), (390, 18821), (392, 18833), (393, 18836), (405, 18902), (409,

18926), (411, 18947), (413, 18956), (423, 19016), (424, 19019), (431, 19055), (433, 19073), (437, 19085), (440, 19094), (444, 19121), (457, 19190), (460, 19208), (462, 19217), (464, 19229), (473, 19265), (477, 19295), (481, 19316), (486, 19340), (490, 19376), (494, 19430), (501, 19490), (506, 19532), (515, 19610), (523, 19667), (527, 19691), (532, 19745), (536, 19793), (542, 19835), (544, 19859), (545, 19862),

Gene: FireRed_26 Start: 22312, Stop: 24708, Start Num: 99

Candidate Starts for FireRed_26:

(Start: 99 @22312 has 123 MA's), (152, 22489), (160, 22510), (199, 22657), (223, 22798), (229, 22831), (235, 22864), (240, 22900), (262, 22993), (276, 23053), (281, 23071), (307, 23203), (314, 23248), (339, 23380), (351, 23425), (363, 23485), (385, 23599), (390, 23620), (398, 23659), (401, 23680), (404, 23695), (430, 23845), (431, 23851), (433, 23869), (445, 23923), (460, 24007), (480, 24100), (510, 24346), (536, 24562), (545, 24646), (552, 24679),

Gene: Firecracker_59 Start: 36292, Stop: 38802, Start Num: 82

Candidate Starts for Firecracker_59:

(Start: 82 @36292 has 28 MA's), (90, 36325), (105, 36394), (106, 36397), (115, 36421), (125, 36445), (135, 36469), (141, 36502), (183, 36709), (186, 36721), (187, 36724), (215, 36871), (217, 36901), (222, 36925), (230, 36955), (231, 36958), (235, 36985), (237, 37009), (245, 37039), (258, 37096), (272, 37156), (274, 37168), (280, 37192), (281, 37195), (289, 37237), (309, 37333), (310, 37336), (351, 37540), (361, 37591), (390, 37735), (401, 37795), (410, 37867), (411, 37870), (428, 37966), (460, 38140), (464, 38161), (482, 38254), (485, 38266), (494, 38356), (504, 38431), (514, 38476), (538, 38677), (543, 38731), (548, 38746),

Gene: Firehouse51_19 Start: 17957, Stop: 20494, Start Num: 63

Candidate Starts for Firehouse51_19:

(60, 17945), (Start: 63 @17957 has 221 MA's), (72, 17978), (Start: 86 @17999 has 1 MA's), (95, 18038), (118, 18107), (124, 18116), (125, 18119), (131, 18137), (141, 18170), (144, 18185), (156, 18233), (178, 18344), (179, 18347), (188, 18377), (193, 18389), (194, 18392), (208, 18470), (212, 18494), (222, 18560), (230, 18605), (235, 18635), (236, 18641), (237, 18659), (244, 18683), (246, 18692), (254, 18725), (255, 18731), (262, 18761), (272, 18800), (274, 18812), (276, 18821), (280, 18836), (281, 18839), (303, 18950), (304, 18953), (305, 18962), (306, 18968), (309, 18983), (310, 18986), (312, 19007), (319, 19037), (321, 19049), (325, 19082), (351, 19193), (352, 19196), (357, 19223), (358, 19229), (367, 19283), (368, 19286), (390, 19388), (392, 19400), (393, 19403), (405, 19469), (409, 19493), (411, 19514), (413, 19523), (423, 19583), (424, 19586), (431, 19622), (433, 19640), (437, 19652), (440, 19661), (444, 19688), (457, 19757), (460, 19775), (462, 19784), (464, 19796), (473, 19832), (477, 19862), (481, 19883), (486, 19907), (490, 19943), (494, 19997), (501, 20057), (506, 20099), (515, 20177), (523, 20234), (527, 20258), (532, 20312), (536, 20360), (542, 20402), (544, 20426), (545, 20429),

Gene: Flathead_19 Start: 17265, Stop: 19802, Start Num: 63

Candidate Starts for Flathead_19:

(60, 17253), (Start: 63 @17265 has 221 MA's), (72, 17286), (Start: 86 @17307 has 1 MA's), (95, 17346), (118, 17415), (124, 17424), (125, 17427), (131, 17445), (141, 17478), (144, 17493), (156, 17541), (178, 17652), (179, 17655), (188, 17685), (193, 17697), (194, 17700), (208, 17778), (212, 17802), (222, 17868), (230, 17913), (235, 17943), (236, 17949), (237, 17967), (244, 17991), (246, 18000), (254, 18033), (255, 18039), (262, 18069), (272, 18108), (274, 18120), (276, 18129), (280, 18144), (281, 18147), (303, 18258), (304, 18261), (305, 18270), (306, 18276), (309, 18291), (310, 18294), (312, 18315), (319, 18345), (321, 18357), (325, 18390), (339, 18456), (351, 18501), (352, 18504), (357, 18531), (358, 18537), (367, 18591), (368, 18594), (387, 18681), (390, 18696), (392, 18708), (393, 18711), (405, 18777), (409, 18801), (411, 18822), (413, 18831), (423, 18891), (424, 18894), (431, 18930), (433, 18948), (437, 18960), (440, 18969), (444, 18996), (457, 19065), (460, 19083), (462, 19092), (464, 19104), (473, 19140), (477, 19170), (481, 19191), (486, 19215), (490,

19251), (494, 19305), (501, 19365), (506, 19407), (523, 19542), (527, 19566), (532, 19620), (536, 19668), (542, 19710), (544, 19734), (545, 19737),

Gene: Florinda_18 Start: 17419, Stop: 19956, Start Num: 63

Candidate Starts for Florinda_18:

(Start: 63 @17419 has 221 MA's), (72, 17440), (Start: 86 @17461 has 1 MA's), (95, 17500), (118, 17569), (124, 17578), (125, 17581), (131, 17599), (141, 17632), (144, 17647), (156, 17695), (178, 17806), (179, 17809), (188, 17839), (194, 17854), (208, 17932), (212, 17956), (222, 18022), (230, 18067), (235, 18097), (236, 18103), (237, 18121), (244, 18145), (246, 18154), (254, 18187), (255, 18193), (262, 18223), (272, 18262), (276, 18283), (280, 18298), (281, 18301), (304, 18415), (305, 18424), (306, 18430), (310, 18448), (312, 18469), (319, 18499), (321, 18511), (325, 18544), (351, 18655), (352, 18658), (357, 18685), (358, 18691), (367, 18745), (368, 18748), (387, 18835), (390, 18850), (393, 18865), (409, 18955), (411, 18976), (413, 18985), (423, 19045), (424, 19048), (430, 19078), (433, 19102), (440, 19123), (457, 19219), (460, 19237), (462, 19246), (464, 19258), (473, 19294), (477, 19324), (481, 19345), (486, 19369), (490, 19405), (494, 19459), (501, 19519), (506, 19561), (515, 19639), (523, 19696), (527, 19720), (532, 19774), (536, 19822), (542, 19864), (544, 19888), (545, 19891),

Gene: Flypotenuse_24 Start: 21900, Stop: 24296, Start Num: 99

Candidate Starts for Flypotenuse_24:

(Start: 99 @21900 has 123 MA's), (152, 22077), (160, 22098), (199, 22245), (223, 22386), (229, 22419), (235, 22452), (240, 22488), (262, 22581), (276, 22641), (281, 22659), (307, 22791), (339, 22968), (351, 23013), (385, 23187), (390, 23208), (398, 23247), (401, 23268), (404, 23283), (431, 23439), (433, 23457), (445, 23511), (460, 23595), (508, 23919), (536, 24150), (545, 24234), (552, 24267),

Gene: FoulBall_58 Start: 36096, Stop: 38606, Start Num: 82

Candidate Starts for FoulBall_58:

(Start: 82 @36096 has 28 MA's), (90, 36129), (105, 36198), (106, 36201), (115, 36225), (125, 36249), (135, 36273), (141, 36306), (183, 36513), (186, 36525), (187, 36528), (215, 36675), (217, 36705), (222, 36729), (230, 36759), (231, 36762), (235, 36789), (237, 36813), (245, 36843), (258, 36900), (263, 36924), (272, 36960), (274, 36972), (280, 36996), (281, 36999), (289, 37041), (309, 37137), (310, 37140), (361, 37395), (390, 37539), (401, 37599), (410, 37671), (411, 37674), (428, 37770), (460, 37944), (464, 37965), (482, 38058), (485, 38070), (494, 38160), (504, 38235), (514, 38280), (538, 38481), (543, 38535), (548, 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), (24, 21075), (29, 21171), (30, 21174), (32, 21180), (37, 21207), (41, 21225), (148, 21675), (154, 21696), (190, 21879), (192, 21882), (204, 21951), (205, 21957), (219, 22053), (223, 22077), (226, 22101), (239, 22176), (257, 22251), (276, 22338), (284, 22374), (295, 22425), (296, 22428), (306, 22488), (321, 22566), (325, 22599), (333, 22638), (351, 22710), (422, 23100), (429, 23136), (442, 23211), (465, 23334), (531, 23790), (554, 23973),

Gene: Frankie_19 Start: 17503, Stop: 20040, Start Num: 63

Candidate Starts for Frankie_19:

(Start: 63 @17503 has 221 MA's), (72, 17524), (Start: 86 @17545 has 1 MA's), (95, 17584), (118, 17653), (124, 17662), (125, 17665), (131, 17683), (141, 17716), (144, 17731), (156, 17779), (178, 17890), (179, 17893), (188, 17923), (194, 17938), (208, 18016), (212, 18040), (222, 18106), (230, 18151), (235, 18181), (236, 18187), (237, 18205), (244, 18229), (246, 18238), (254, 18271), (255, 18277), (262, 18307), (272, 18346), (276, 18367), (280, 18382), (282, 18388), (310, 18532), (312, 18553), (319, 18583), (321, 18595), (325, 18628), (337, 18691), (339, 18694), (357, 18769), (358,

18775), (367, 18829), (368, 18832), (371, 18859), (372, 18868), (390, 18934), (392, 18946), (393, 18949), (405, 19015), (408, 19036), (409, 19039), (411, 19060), (420, 19111), (423, 19129), (424, 19132), (430, 19162), (433, 19186), (440, 19207), (445, 19240), (457, 19303), (460, 19321), (462, 19330), (464, 19342), (477, 19408), (480, 19417), (481, 19429), (501, 19603), (506, 19645), (515, 19723), (523, 19780), (527, 19804), (532, 19858), (536, 19906), (544, 19972), (545, 19975),

Gene: FreddyB_18 Start: 17407, Stop: 19959, Start Num: 63

Candidate Starts for FreddyB_18:

(Start: 63 @17407 has 221 MA's), (95, 17488), (118, 17557), (124, 17566), (125, 17569), (131, 17587), (144, 17635), (155, 17680), (178, 17794), (179, 17797), (182, 17809), (189, 17830), (193, 17839), (194, 17842), (202, 17890), (208, 17920), (217, 17986), (223, 18019), (230, 18055), (234, 18079), (245, 18139), (246, 18142), (251, 18160), (267, 18223), (269, 18226), (272, 18244), (276, 18265), (281, 18283), (287, 18310), (291, 18331), (298, 18364), (305, 18406), (306, 18412), (307, 18415), (310, 18430), (313, 18457), (319, 18481), (321, 18493), (325, 18526), (347, 18619), (367, 18727), (370, 18751), (378, 18775), (379, 18778), (384, 18802), (390, 18832), (394, 18856), (401, 18892), (402, 18898), (404, 18907), (408, 18934), (417, 18997), (420, 19021), (421, 19036), (430, 19078), (441, 19129), (458, 19225), (460, 19240), (462, 19249), (468, 19273), (480, 19336), (486, 19372), (521, 19678), (527, 19723), (536, 19825),

Gene: Fruitloop_18 Start: 17429, Stop: 19966, Start Num: 63

Candidate Starts for Fruitloop_18:

(60, 17417), (Start: 63 @17429 has 221 MA's), (72, 17450), (Start: 86 @17471 has 1 MA's), (95, 17510), (118, 17579), (124, 17588), (125, 17591), (131, 17609), (141, 17642), (144, 17657), (156, 17705), (178, 17816), (179, 17819), (188, 17849), (193, 17861), (194, 17864), (208, 17942), (212, 17966), (222, 18032), (230, 18077), (235, 18107), (236, 18113), (237, 18131), (244, 18155), (246, 18164), (254, 18197), (255, 18203), (262, 18233), (272, 18272), (274, 18284), (276, 18293), (280, 18308), (281, 18311), (303, 18422), (304, 18425), (305, 18434), (306, 18440), (309, 18455), (310, 18458), (312, 18479), (319, 18509), (321, 18521), (325, 18554), (351, 18665), (352, 18668), (357, 18695), (358, 18701), (367, 18755), (368, 18758), (387, 18845), (390, 18860), (392, 18872), (393, 18875), (405, 18941), (409, 18965), (411, 18986), (413, 18995), (423, 19055), (424, 19058), (431, 19094), (433, 19112), (437, 19124), (440, 19133), (444, 19160), (457, 19229), (460, 19247), (462, 19256), (464, 19268), (473, 19304), (477, 19334), (481, 19355), (486, 19379), (490, 19415), (494, 19469), (501, 19529), (506, 19571), (515, 19649), (523, 19706), (527, 19730), (532, 19784), (536, 19832), (542, 19874), (544, 19898), (545, 19901),

Gene: GUmbie_18 Start: 17402, Stop: 19939, Start Num: 63

Candidate Starts for GUmbie_18:

(Start: 63 @17402 has 221 MA's), (72, 17423), (Start: 86 @17444 has 1 MA's), (95, 17483), (118, 17552), (124, 17561), (125, 17564), (131, 17582), (141, 17615), (144, 17630), (177, 17783), (179, 17792), (194, 17837), (211, 17936), (212, 17939), (222, 18005), (235, 18080), (236, 18086), (244, 18128), (245, 18134), (246, 18137), (254, 18170), (255, 18176), (262, 18206), (269, 18227), (274, 18257), (276, 18266), (280, 18281), (281, 18284), (303, 18395), (304, 18398), (305, 18407), (306, 18413), (309, 18428), (310, 18431), (312, 18452), (319, 18482), (321, 18494), (325, 18527), (351, 18638), (352, 18641), (357, 18668), (358, 18674), (367, 18728), (368, 18731), (387, 18818), (390, 18833), (392, 18845), (393, 18848), (405, 18914), (409, 18938), (411, 18959), (413, 18968), (420, 19010), (423, 19028), (424, 19031), (430, 19061), (433, 19085), (437, 19097), (440, 19106), (457, 19202), (460, 19220), (462, 19229), (464, 19241), (473, 19277), (477, 19307), (480, 19316), (481, 19328), (490, 19388), (494, 19442), (501, 19502), (506, 19544), (523, 19679), (527, 19703), (532, 19757), (536, 19805), (542, 19847), (544, 19871), (545, 19874),

Gene: Gage_28 Start: 22274, Stop: 24670, Start Num: 99

Candidate Starts for Gage_28:

(Start: 99 @22274 has 123 MA's), (152, 22451), (160, 22472), (199, 22619), (223, 22760), (229, 22793), (235, 22826), (240, 22862), (262, 22955), (276, 23015), (281, 23033), (307, 23165), (314, 23210), (339, 23342), (351, 23387), (363, 23447), (385, 23561), (390, 23582), (398, 23621), (401, 23642), (404, 23657), (430, 23807), (431, 23813), (433, 23831), (445, 23885), (460, 23969), (480, 24062), (510, 24308), (536, 24524), (545, 24608), (552, 24641),

Gene: Gaia_21 Start: 19931, Stop: 22501, Start Num: 56

Candidate Starts for Gaia_21:

(Start: 56 @19931 has 2 MA's), (88, 20021), (110, 20090), (114, 20099), (116, 20102), (136, 20156), (139, 20168), (150, 20216), (159, 20261), (175, 20333), (179, 20354), (185, 20375), (193, 20396), (194, 20399), (217, 20543), (223, 20576), (236, 20633), (246, 20684), (251, 20702), (274, 20798), (276, 20807), (278, 20813), (280, 20822), (281, 20825), (287, 20852), (291, 20873), (298, 20906), (299, 20915), (303, 20936), (305, 20948), (309, 20969), (319, 21023), (321, 21035), (325, 21068), (342, 21143), (349, 21170), (370, 21293), (379, 21320), (384, 21344), (390, 21374), (394, 21398), (402, 21440), (404, 21449), (421, 21578), (426, 21605), (437, 21656), (458, 21767), (460, 21782), (502, 22073), (523, 22241), (527, 22265), (542, 22409), (545, 22436), (547, 22442), (548, 22445),

Gene: Galactic_18 Start: 17394, Stop: 19931, Start Num: 63

Candidate Starts for Galactic_18:

(60, 17382), (Start: 63 @17394 has 221 MA's), (72, 17415), (Start: 86 @17436 has 1 MA's), (95, 17475), (118, 17544), (124, 17553), (125, 17556), (131, 17574), (141, 17607), (144, 17622), (156, 17670), (178, 17781), (179, 17784), (188, 17814), (194, 17829), (208, 17907), (212, 17931), (222, 17997), (230, 18042), (235, 18072), (236, 18078), (237, 18096), (244, 18120), (246, 18129), (254, 18162), (255, 18168), (262, 18198), (272, 18237), (274, 18249), (276, 18258), (280, 18273), (281, 18276), (303, 18387), (304, 18390), (305, 18399), (306, 18405), (309, 18420), (310, 18423), (312, 18444), (319, 18474), (321, 18486), (325, 18519), (351, 18630), (352, 18633), (357, 18660), (358, 18666), (367, 18720), (368, 18723), (390, 18825), (392, 18837), (393, 18840), (405, 18906), (409, 18930), (411, 18951), (413, 18960), (423, 19020), (424, 19023), (431, 19059), (433, 19077), (437, 19089), (440, 19098), (444, 19125), (457, 19194), (460, 19212), (462, 19221), (464, 19233), (473, 19269), (477, 19299), (481, 19320), (486, 19344), (490, 19380), (494, 19434), (501, 19494), (506, 19536), (515, 19614), (523, 19671), (527, 19695), (532, 19749), (536, 19797), (542, 19839), (544, 19863), (545, 19866),

Gene: Gandolph_18 Start: 17413, Stop: 19965, Start Num: 63

Candidate Starts for Gandolph_18:

(Start: 63 @17413 has 221 MA's), (95, 17494), (118, 17563), (124, 17572), (125, 17575), (131, 17593), (144, 17641), (155, 17686), (178, 17800), (179, 17803), (182, 17815), (189, 17836), (193, 17845), (194, 17848), (202, 17896), (208, 17926), (217, 17992), (223, 18025), (230, 18061), (234, 18085), (245, 18145), (246, 18148), (251, 18166), (267, 18229), (269, 18232), (272, 18250), (276, 18271), (281, 18289), (287, 18316), (291, 18337), (298, 18370), (305, 18412), (306, 18418), (307, 18421), (310, 18436), (313, 18463), (314, 18466), (319, 18487), (321, 18499), (325, 18532), (347, 18625), (367, 18733), (370, 18757), (371, 18763), (378, 18781), (379, 18784), (384, 18808), (390, 18838), (394, 18862), (401, 18898), (402, 18904), (404, 18913), (408, 18940), (417, 19003), (420, 19027), (421, 19042), (430, 19084), (441, 19135), (458, 19231), (460, 19246), (462, 19255), (468, 19279), (480, 19342), (486, 19378), (521, 19684), (527, 19729), (536, 19831),

Gene: Gator_24 Start: 21899, Stop: 24295, Start Num: 99

Candidate Starts for Gator_24:

(Start: 99 @21899 has 123 MA's), (152, 22076), (160, 22097), (199, 22244), (223, 22385), (229, 22418), (235, 22451), (240, 22487), (262, 22580), (276, 22640), (281, 22658), (298, 22739), (339, 22967), (351, 23012), (390, 23207), (391, 23213), (393, 23222), (401, 23267), (404, 23282), (431, 23438), (433, 23456), (436, 23465), (446, 23519), (460, 23594), (461, 23597), (493, 23807), (495, 23819), (510, 23933), (536, 24149), (545, 24233), (550, 24257), (552, 24266),

Gene: Gemini_29 Start: 22791, Stop: 25187, Start Num: 99

Candidate Starts for Gemini_29:

(Start: 99 @22791 has 123 MA's), (152, 22968), (160, 22989), (199, 23136), (223, 23277), (229, 23310), (235, 23343), (240, 23379), (262, 23472), (276, 23532), (281, 23550), (307, 23682), (314, 23727), (339, 23859), (351, 23904), (363, 23964), (385, 24078), (390, 24099), (398, 24138), (401, 24159), (404, 24174), (430, 24324), (431, 24330), (433, 24348), (445, 24402), (460, 24486), (480, 24579), (510, 24825), (536, 25041), (545, 25125), (552, 25158),

Gene: Geralt_18 Start: 17396, Stop: 19933, Start Num: 63

Candidate Starts for Geralt_18:

(Start: 63 @17396 has 221 MA's), (72, 17417), (Start: 86 @17438 has 1 MA's), (95, 17477), (118, 17546), (124, 17555), (125, 17558), (131, 17576), (144, 17624), (156, 17672), (178, 17783), (179, 17786), (194, 17831), (208, 17909), (212, 17933), (222, 17999), (235, 18074), (236, 18080), (237, 18098), (244, 18122), (246, 18131), (254, 18164), (255, 18170), (262, 18200), (269, 18221), (274, 18251), (276, 18260), (299, 18368), (301, 18380), (303, 18389), (304, 18392), (306, 18407), (309, 18422), (310, 18425), (312, 18446), (321, 18488), (325, 18521), (351, 18632), (352, 18635), (357, 18662), (358, 18668), (367, 18722), (368, 18725), (371, 18752), (390, 18827), (392, 18839), (393, 18842), (405, 18908), (408, 18929), (409, 18932), (411, 18953), (413, 18962), (420, 19004), (423, 19022), (424, 19025), (430, 19055), (433, 19079), (437, 19091), (440, 19100), (457, 19196), (460, 19214), (462, 19223), (464, 19235), (473, 19271), (477, 19301), (480, 19310), (481, 19322), (490, 19382), (494, 19436), (501, 19496), (506, 19538), (523, 19673), (527, 19697), (532, 19751), (536, 19799), (542, 19841), (544, 19865), (545, 19868),

Gene: GigiOuiOui_18 Start: 17527, Stop: 20064, Start Num: 63

Candidate Starts for GigiOuiOui_18:

(Start: 63 @17527 has 221 MA's), (72, 17548), (Start: 86 @17569 has 1 MA's), (95, 17608), (118, 17677), (124, 17686), (125, 17689), (131, 17707), (144, 17755), (177, 17908), (179, 17917), (194, 17962), (211, 18061), (212, 18064), (222, 18130), (235, 18205), (236, 18211), (237, 18229), (244, 18253), (245, 18259), (246, 18262), (254, 18295), (255, 18301), (262, 18331), (269, 18352), (274, 18382), (276, 18391), (280, 18406), (281, 18409), (303, 18520), (304, 18523), (305, 18532), (306, 18538), (309, 18553), (310, 18556), (312, 18577), (319, 18607), (321, 18619), (325, 18652), (351, 18763), (352, 18766), (357, 18793), (358, 18799), (367, 18853), (368, 18856), (390, 18958), (392, 18970), (393, 18973), (405, 19039), (409, 19063), (411, 19084), (413, 19093), (423, 19153), (424, 19156), (431, 19192), (433, 19210), (437, 19222), (440, 19231), (444, 19258), (455, 19315), (457, 19327), (460, 19345), (462, 19354), (464, 19366), (473, 19402), (477, 19432), (480, 19441), (481, 19453), (490, 19513), (494, 19567), (501, 19627), (506, 19669), (523, 19804), (527, 19828), (532, 19882), (536, 19930), (542, 19972), (544, 19996), (545, 19999),

Gene: Girafales_19 Start: 17227, Stop: 19764, Start Num: 63

Candidate Starts for Girafales_19:

(Start: 63 @17227 has 221 MA's), (72, 17248), (Start: 86 @17269 has 1 MA's), (95, 17308), (118, 17377), (124, 17386), (125, 17389), (131, 17407), (141, 17440), (144, 17455), (156, 17503), (178, 17614), (179, 17617), (188, 17647), (194, 17662), (208, 17740), (212, 17764), (222, 17830), (230, 17875), (235, 17905), (236, 17911), (237, 17929), (244, 17953), (246, 17962), (254, 17995), (255, 18001), (262, 18031), (272, 18070), (276, 18091), (280, 18106), (281, 18109), (304, 18223), (305, 18232), (306, 18238), (310, 18256), (312, 18277), (319, 18307), (321, 18319), (325, 18352), (351, 18463), (352, 18466), (357, 18493), (358, 18499), (367, 18553), (368, 18556), (387, 18643), (390, 18658), (393, 18673), (409, 18763), (411, 18784), (413, 18793), (423, 18853), (424, 18856), (430, 18886), (433, 18910), (440, 18931), (457, 19027), (460, 19045), (462, 19054), (464, 19066), (473, 19102), (477, 19132), (481, 19153), (486, 19177), (490, 19213), (494, 19267), (501, 19327), (506, 19369), (515, 19447), (523, 19504), (527, 19528), (532, 19582), (536, 19630), (542, 19672), (544, 19696), (545, 19699),

Gene: Girr_18 Start: 17371, Stop: 19908, Start Num: 63

Candidate Starts for Girr_18:

(Start: 63 @17371 has 221 MA's), (72, 17392), (Start: 86 @17413 has 1 MA's), (95, 17452), (118, 17521), (124, 17530), (125, 17533), (131, 17551), (141, 17584), (144, 17599), (177, 17752), (179, 17761), (194, 17806), (211, 17905), (212, 17908), (222, 17974), (235, 18049), (236, 18055), (244, 18097), (245, 18103), (246, 18106), (254, 18139), (255, 18145), (262, 18175), (269, 18196), (274, 18226), (276, 18235), (280, 18250), (281, 18253), (303, 18364), (304, 18367), (305, 18376), (306, 18382), (309, 18397), (310, 18400), (312, 18421), (319, 18451), (321, 18463), (325, 18496), (351, 18607), (352, 18610), (357, 18637), (358, 18643), (367, 18697), (368, 18700), (387, 18787), (390, 18802), (392, 18814), (393, 18817), (405, 18883), (409, 18907), (411, 18928), (413, 18937), (420, 18979), (423, 18997), (424, 19000), (430, 19030), (433, 19054), (437, 19066), (440, 19075), (457, 19171), (460, 19189), (462, 19198), (464, 19210), (473, 19246), (477, 19276), (480, 19285), (481, 19297), (490, 19357), (494, 19411), (501, 19471), (506, 19513), (523, 19648), (527, 19672), (532, 19726), (536, 19774), (542, 19816), (544, 19840), (545, 19843),

Gene: Giuseppe_30 Start: 24308, Stop: 26578, Start Num: 23

Candidate Starts for Giuseppe_30:

(Start: 23 @24308 has 22 MA's), (34, 24443), (35, 24452), (Start: 71 @24626 has 2 MA's), (73, 24632), (76, 24644), (123, 24797), (127, 24812), (133, 24827), (211, 25208), (213, 25214), (218, 25259), (234, 25346), (278, 25547), (279, 25553), (289, 25601), (297, 25631), (301, 25655), (337, 25844), (346, 25871), (357, 25919), (369, 25991), (375, 26030), (381, 26051), (383, 26066), (386, 26084), (395, 26114), (408, 26198), (441, 26399), (447, 26441), (472, 26567),

Gene: Glexan_24 Start: 21900, Stop: 24296, Start Num: 99

Candidate Starts for Glexan_24:

(Start: 99 @21900 has 123 MA's), (152, 22077), (160, 22098), (199, 22245), (223, 22386), (229, 22419), (235, 22452), (240, 22488), (262, 22581), (276, 22641), (281, 22659), (307, 22791), (339, 22968), (351, 23013), (385, 23187), (390, 23208), (398, 23247), (401, 23268), (404, 23283), (431, 23439), (433, 23457), (445, 23511), (460, 23595), (508, 23919), (536, 24150), (545, 24234), (552, 24267),

Gene: Goku_26 Start: 21998, Stop: 24394, Start Num: 99

Candidate Starts for Goku_26:

(Start: 99 @21998 has 123 MA's), (152, 22175), (160, 22196), (199, 22343), (223, 22484), (229, 22517), (235, 22550), (240, 22586), (262, 22679), (276, 22739), (281, 22757), (298, 22838), (339, 23066), (351, 23111), (390, 23306), (391, 23312), (393, 23321), (401, 23366), (404, 23381), (431, 23537), (433, 23555), (436, 23564), (446, 23618), (460, 23693), (461, 23696), (493, 23906), (495, 23918), (510, 24032), (536, 24248), (545, 24332), (550, 24356), (552, 24365),

Gene: GoldenSpark_28 Start: 22274, Stop: 24670, Start Num: 99

Candidate Starts for GoldenSpark_28:

(Start: 99 @22274 has 123 MA's), (152, 22451), (160, 22472), (199, 22619), (229, 22793), (235, 22826), (240, 22862), (262, 22955), (276, 23015), (281, 23033), (307, 23165), (314, 23210), (339, 23342), (351, 23387), (363, 23447), (385, 23561), (390, 23582), (398, 23621), (401, 23642), (404, 23657), (430, 23807), (431, 23813), (433, 23831), (445, 23885), (460, 23969), (510, 24308), (536, 24524), (545, 24608), (552, 24641),

Gene: Goldilocks_27 Start: 21694, Stop: 24090, Start Num: 99

Candidate Starts for Goldilocks_27:

(Start: 99 @21694 has 123 MA's), (152, 21871), (160, 21892), (199, 22039), (223, 22180), (229, 22213), (235, 22246), (240, 22282), (262, 22375), (276, 22435), (281, 22453), (307, 22585), (314, 22630), (339, 22762), (351, 22807), (363, 22867), (385, 22981), (390, 23002), (398, 23041), (401,

23062), (404, 23077), (430, 23227), (431, 23233), (433, 23251), (445, 23305), (460, 23389), (480, 23482), (510, 23728), (536, 23944), (545, 24028), (552, 24061),

Gene: Gonephishing_34 Start: 28088, Stop: 30448, Start Num: 131

Candidate Starts for Gonephishing_34:

(Start: 63 @27893 has 221 MA's), (131, 28088), (141, 28124), (144, 28139), (156, 28187), (178, 28298), (179, 28301), (188, 28331), (194, 28346), (208, 28424), (212, 28448), (222, 28514), (230, 28559), (235, 28589), (236, 28595), (237, 28613), (244, 28637), (246, 28646), (254, 28679), (255, 28685), (262, 28715), (272, 28754), (274, 28766), (276, 28775), (280, 28790), (281, 28793), (303, 28904), (304, 28907), (305, 28916), (306, 28922), (309, 28937), (310, 28940), (319, 28991), (321, 29003), (325, 29036), (339, 29102), (351, 29147), (352, 29150), (357, 29177), (358, 29183), (367, 29237), (368, 29240), (387, 29327), (390, 29342), (392, 29354), (393, 29357), (405, 29423), (411, 29468), (413, 29477), (423, 29537), (424, 29540), (431, 29576), (433, 29594), (437, 29606), (440, 29615), (444, 29642), (457, 29711), (460, 29729), (462, 29738), (464, 29750), (473, 29786), (477, 29816), (481, 29837), (486, 29861), (490, 29897), (494, 29951), (501, 30011), (506, 30053), (523, 30188), (527, 30212), (532, 30266), (536, 30314), (542, 30356), (544, 30380), (545, 30383),

Gene: GooberAzure_28 Start: 22274, Stop: 24670, Start Num: 99

Candidate Starts for GooberAzure_28:

(Start: 99 @22274 has 123 MA's), (152, 22451), (160, 22472), (199, 22619), (223, 22760), (229, 22793), (235, 22826), (240, 22862), (262, 22955), (276, 23015), (281, 23033), (307, 23165), (314, 23210), (339, 23342), (351, 23387), (363, 23447), (385, 23561), (390, 23582), (398, 23621), (401, 23642), (404, 23657), (430, 23807), (431, 23813), (433, 23831), (445, 23885), (460, 23969), (480, 24062), (510, 24308), (536, 24524), (545, 24608), (552, 24641),

Gene: Gorge_18 Start: 17383, Stop: 19926, Start Num: 63

Candidate Starts for Gorge_18:

(Start: 63 @17383 has 221 MA's), (72, 17404), (Start: 86 @17425 has 1 MA's), (95, 17464), (118, 17533), (124, 17542), (125, 17545), (131, 17563), (144, 17611), (156, 17659), (178, 17770), (179, 17773), (189, 17806), (194, 17818), (208, 17896), (217, 17962), (223, 17995), (232, 18049), (235, 18061), (245, 18115), (246, 18118), (249, 18127), (256, 18160), (267, 18199), (269, 18202), (271, 18217), (272, 18220), (278, 18247), (279, 18253), (280, 18256), (281, 18259), (287, 18286), (290, 18304), (291, 18307), (305, 18382), (309, 18403), (310, 18406), (313, 18433), (319, 18457), (325, 18502), (326, 18505), (336, 18556), (352, 18619), (354, 18628), (358, 18652), (379, 18757), (380, 18760), (390, 18811), (391, 18817), (392, 18823), (393, 18826), (401, 18871), (404, 18886), (408, 18913), (411, 18937), (420, 18988), (423, 19006), (424, 19009), (425, 19021), (437, 19075), (460, 19198), (474, 19261), (484, 19324), (492, 19399), (518, 19600), (541, 19828), (547, 19867), (548, 19870),

Gene: Grimmer_19 Start: 18060, Stop: 20597, Start Num: 63

Candidate Starts for Grimmer_19:

(Start: 63 @18060 has 221 MA's), (72, 18081), (Start: 86 @18102 has 1 MA's), (95, 18141), (118, 18210), (124, 18219), (125, 18222), (131, 18240), (144, 18288), (178, 18447), (179, 18450), (194, 18495), (208, 18573), (211, 18594), (212, 18597), (222, 18663), (235, 18738), (236, 18744), (244, 18786), (245, 18792), (246, 18795), (254, 18828), (255, 18834), (262, 18864), (269, 18885), (274, 18915), (276, 18924), (299, 19032), (301, 19044), (303, 19053), (304, 19056), (305, 19065), (306, 19071), (309, 19086), (310, 19089), (312, 19110), (319, 19140), (321, 19152), (325, 19185), (326, 19188), (339, 19251), (351, 19296), (352, 19299), (357, 19326), (358, 19332), (367, 19386), (368, 19389), (371, 19416), (390, 19491), (392, 19503), (393, 19506), (405, 19572), (408, 19593), (409, 19596), (411, 19617), (423, 19686), (424, 19689), (431, 19725), (433, 19743), (440, 19764), (457, 19860), (460, 19878), (462, 19887), (464, 19899), (473, 19935), (477, 19965), (490, 20046), (494, 20100), (506, 20202), (523, 20337), (527, 20361), (532, 20415), (539, 20484), (544, 20529), (545, 20532),

Gene: Gumball_29 Start: 24266, Stop: 26536, Start Num: 23

Candidate Starts for Gumball_29:

(Start: 23 @24266 has 22 MA's), (34, 24401), (35, 24410), (Start: 71 @24584 has 2 MA's), (73, 24590), (76, 24602), (123, 24755), (127, 24770), (133, 24785), (211, 25166), (213, 25172), (218, 25217), (234, 25304), (261, 25430), (278, 25505), (279, 25511), (289, 25559), (297, 25589), (301, 25613), (337, 25802), (346, 25829), (357, 25877), (369, 25949), (375, 25988), (381, 26009), (383, 26024), (386, 26042), (395, 26072), (408, 26156), (441, 26357), (447, 26399), (472, 26525),

Gene: Guppsters_19 Start: 17584, Stop: 20109, Start Num: 63

Candidate Starts for Guppsters_19:

(Start: 63 @17584 has 221 MA's), (102, 17674), (118, 17734), (124, 17743), (125, 17746), (131, 17764), (144, 17812), (155, 17857), (178, 17971), (179, 17974), (185, 17995), (189, 18007), (194, 18019), (208, 18097), (217, 18163), (223, 18196), (232, 18250), (235, 18262), (245, 18316), (246, 18319), (249, 18328), (256, 18361), (269, 18403), (271, 18418), (278, 18448), (279, 18454), (280, 18457), (281, 18460), (287, 18487), (290, 18505), (291, 18508), (305, 18583), (309, 18604), (310, 18607), (313, 18634), (319, 18658), (321, 18670), (336, 18757), (352, 18820), (354, 18829), (358, 18853), (379, 18958), (380, 18961), (390, 19012), (391, 19018), (392, 19024), (393, 19027), (401, 19072), (404, 19087), (408, 19114), (411, 19138), (413, 19147), (423, 19207), (424, 19210), (425, 19222), (433, 19264), (437, 19276), (460, 19399), (474, 19462), (484, 19525), (492, 19600), (518, 19801), (536, 19972), (541, 20011), (547, 20050), (548, 20053),

Gene: Hades_18 Start: 17406, Stop: 19958, Start Num: 63

Candidate Starts for Hades_18:

(Start: 63 @17406 has 221 MA's), (102, 17496), (118, 17556), (124, 17565), (125, 17568), (131, 17586), (144, 17634), (155, 17679), (178, 17793), (179, 17796), (182, 17808), (189, 17829), (193, 17838), (194, 17841), (208, 17919), (217, 17985), (223, 18018), (230, 18054), (234, 18078), (245, 18138), (246, 18141), (251, 18159), (267, 18222), (269, 18225), (272, 18243), (276, 18264), (281, 18282), (287, 18309), (291, 18330), (298, 18363), (305, 18405), (306, 18411), (307, 18414), (310, 18429), (313, 18456), (314, 18459), (319, 18480), (321, 18492), (325, 18525), (347, 18618), (367, 18726), (370, 18750), (371, 18756), (378, 18774), (379, 18777), (384, 18801), (390, 18831), (394, 18855), (401, 18891), (402, 18897), (404, 18906), (408, 18933), (417, 18996), (420, 19020), (421, 19035), (430, 19077), (441, 19128), (458, 19224), (460, 19239), (462, 19248), (468, 19272), (480, 19335), (486, 19371), (521, 19677), (527, 19722), (536, 19824),

Gene: Hamulus_18 Start: 17403, Stop: 19940, Start Num: 63

Candidate Starts for Hamulus_18:

(60, 17391), (Start: 63 @17403 has 221 MA's), (72, 17424), (Start: 86 @17445 has 1 MA's), (95, 17484), (118, 17553), (124, 17562), (125, 17565), (131, 17583), (141, 17616), (144, 17631), (156, 17679), (177, 17784), (178, 17790), (179, 17793), (188, 17823), (193, 17835), (194, 17838), (208, 17916), (212, 17940), (222, 18006), (235, 18081), (236, 18087), (237, 18105), (244, 18129), (246, 18138), (254, 18171), (255, 18177), (262, 18207), (272, 18246), (274, 18258), (276, 18267), (280, 18282), (281, 18285), (303, 18396), (304, 18399), (305, 18408), (306, 18414), (309, 18429), (310, 18432), (312, 18453), (319, 18483), (321, 18495), (325, 18528), (339, 18594), (351, 18639), (352, 18642), (357, 18669), (358, 18675), (367, 18729), (368, 18732), (387, 18819), (390, 18834), (392, 18846), (393, 18849), (405, 18915), (411, 18960), (413, 18969), (423, 19029), (424, 19032), (431, 19068), (433, 19086), (437, 19098), (440, 19107), (444, 19134), (457, 19203), (460, 19221), (462, 19230), (464, 19242), (473, 19278), (477, 19308), (481, 19329), (486, 19353), (490, 19389), (494, 19443), (501, 19503), (506, 19545), (523, 19680), (527, 19704), (532, 19758), (536, 19806), (542, 19848), (544, 19872), (545, 19875),

Gene: HanKaySha_27 Start: 22026, Stop: 24422, Start Num: 99

Candidate Starts for HanKaySha_27:

(Start: 99 @22026 has 123 MA's), (152, 22203), (160, 22224), (199, 22371), (229, 22545), (235, 22578), (240, 22614), (262, 22707), (276, 22767), (281, 22785), (307, 22917), (314, 22962), (339, 23094), (351, 23139), (363, 23199), (385, 23313), (390, 23334), (398, 23373), (401, 23394), (404, 23409), (430, 23559), (431, 23565), (433, 23583), (445, 23637), (460, 23721), (480, 23814), (510, 24060), (536, 24276), (545, 24360), (552, 24393),

Gene: Hannaconda_33 Start: 26378, Stop: 28873, Start Num: 63

Candidate Starts for Hannaconda_33:

(Start: 63 @26378 has 221 MA's), (131, 26573), (141, 26609), (144, 26624), (168, 26711), (172, 26726), (179, 26762), (180, 26768), (194, 26801), (197, 26813), (227, 26984), (230, 26993), (235, 27017), (245, 27071), (254, 27107), (255, 27113), (262, 27143), (270, 27173), (274, 27194), (276, 27203), (280, 27218), (295, 27287), (310, 27368), (311, 27377), (314, 27398), (315, 27401), (321, 27431), (326, 27467), (336, 27518), (337, 27527), (339, 27530), (347, 27557), (349, 27566), (354, 27587), (367, 27665), (368, 27668), (384, 27740), (391, 27776), (392, 27782), (400, 27824), (401, 27830), (408, 27872), (409, 27875), (411, 27896), (412, 27902), (413, 27905), (419, 27935), (443, 28076), (445, 28085), (446, 28094), (449, 28127), (457, 28151), (458, 28154), (460, 28169), (464, 28190), (473, 28226), (474, 28232), (475, 28238), (478, 28259), (482, 28286), (497, 28421), (505, 28493), (507, 28499), (510, 28517), (523, 28616), (536, 28733), (546, 28814), (548, 28817), (552, 28844),

Gene: Harella_25 Start: 22416, Stop: 24812, Start Num: 99

Candidate Starts for Harella_25:

(Start: 99 @22416 has 123 MA's), (152, 22593), (160, 22614), (199, 22761), (223, 22902), (229, 22935), (235, 22968), (240, 23004), (262, 23097), (276, 23157), (281, 23175), (307, 23307), (339, 23484), (351, 23529), (385, 23703), (390, 23724), (398, 23763), (401, 23784), (404, 23799), (431, 23955), (433, 23973), (445, 24027), (460, 24111), (508, 24435), (536, 24666), (545, 24750), (552, 24783),

Gene: Harley_18 Start: 17393, Stop: 19930, Start Num: 63

Candidate Starts for Harley_18:

(Start: 63 @17393 has 221 MA's), (72, 17414), (Start: 86 @17435 has 1 MA's), (95, 17474), (118, 17543), (124, 17552), (125, 17555), (131, 17573), (144, 17621), (178, 17780), (179, 17783), (194, 17828), (211, 17927), (212, 17930), (222, 17996), (235, 18071), (236, 18077), (237, 18095), (244, 18119), (245, 18125), (246, 18128), (254, 18161), (255, 18167), (262, 18197), (269, 18218), (272, 18236), (276, 18257), (299, 18365), (301, 18377), (303, 18386), (304, 18389), (305, 18398), (306, 18404), (309, 18419), (310, 18422), (312, 18443), (321, 18485), (325, 18518), (326, 18521), (339, 18584), (351, 18629), (352, 18632), (358, 18665), (367, 18719), (368, 18722), (371, 18749), (390, 18824), (392, 18836), (393, 18839), (405, 18905), (408, 18926), (409, 18929), (411, 18950), (420, 19001), (423, 19019), (424, 19022), (430, 19052), (433, 19076), (437, 19088), (440, 19097), (457, 19193), (460, 19211), (462, 19220), (464, 19232), (473, 19268), (477, 19298), (480, 19307), (481, 19319), (486, 19343), (490, 19379), (501, 19493), (506, 19535), (523, 19670), (527, 19694), (532, 19748), (536, 19796), (539, 19817), (544, 19862), (545, 19865),

Gene: Hawkeye_32 Start: 24298, Stop: 27204, Start Num: 23

Candidate Starts for Hawkeye_32:

(Start: 23 @24298 has 22 MA's), (27, 24391), (30, 24412), (34, 24433), (35, 24442), (84, 24658), (171, 25009), (196, 25105), (209, 25180), (254, 25429), (260, 25456), (295, 25609), (299, 25633), (306, 25672), (353, 25903), (354, 25906), (371, 26014), (390, 26089), (402, 26155), (433, 26347), (437, 26359), (446, 26410), (473, 26542), (499, 26761), (528, 26992), (537, 27076),

Gene: Hegedechwinu_19 Start: 17254, Stop: 19785, Start Num: 63

Candidate Starts for Hegedechwinu_19:

(60, 17242), (Start: 63 @17254 has 221 MA's), (72, 17275), (Start: 86 @17296 has 1 MA's), (95, 17335), (118, 17404), (124, 17413), (125, 17416), (131, 17434), (141, 17467), (144, 17482), (156, 17524), (178, 17635), (179, 17638), (188, 17668), (194, 17683), (208, 17761), (222, 17851), (230, 17896), (235, 17926), (236, 17932), (237, 17950), (244, 17974), (246, 17983), (254, 18016), (255, 18022), (262, 18052), (272, 18091), (274, 18103), (276, 18112), (280, 18127), (281, 18130), (303, 18241), (304, 18244), (305, 18253), (306, 18259), (309, 18274), (310, 18277), (312, 18298), (319, 18328), (321, 18340), (325, 18373), (351, 18484), (352, 18487), (357, 18514), (358, 18520), (367, 18574), (368, 18577), (390, 18679), (392, 18691), (393, 18694), (405, 18760), (409, 18784), (411, 18805), (413, 18814), (423, 18874), (424, 18877), (431, 18913), (433, 18931), (437, 18943), (440, 18952), (444, 18979), (457, 19048), (460, 19066), (462, 19075), (464, 19087), (473, 19123), (477, 19153), (481, 19174), (486, 19198), (490, 19234), (494, 19288), (501, 19348), (506, 19390), (515, 19468), (523, 19525), (527, 19549), (532, 19603), (536, 19651), (542, 19693), (544, 19717), (545, 19720),

Gene: Helpful_31 Start: 24316, Stop: 26586, Start Num: 23

Candidate Starts for Helpful_31:

(Start: 23 @24316 has 22 MA's), (34, 24451), (35, 24460), (Start: 71 @24634 has 2 MA's), (73, 24640), (76, 24652), (123, 24805), (127, 24820), (133, 24835), (211, 25216), (213, 25222), (218, 25267), (234, 25354), (279, 25561), (289, 25609), (297, 25639), (301, 25663), (337, 25852), (346, 25879), (357, 25927), (369, 25999), (375, 26038), (381, 26059), (383, 26074), (386, 26092), (395, 26122), (408, 26206), (441, 26407), (447, 26449), (472, 26575),

Gene: Henry_26 Start: 22283, Stop: 24679, Start Num: 99

Candidate Starts for Henry_26:

(Start: 99 @22283 has 123 MA's), (152, 22460), (160, 22481), (199, 22628), (223, 22769), (229, 22802), (235, 22835), (240, 22871), (262, 22964), (276, 23024), (281, 23042), (311, 23198), (314, 23219), (336, 23339), (339, 23351), (351, 23396), (390, 23591), (393, 23606), (401, 23651), (404, 23666), (431, 23822), (433, 23840), (436, 23849), (460, 23978), (461, 23981), (493, 24191), (495, 24203), (510, 24317), (536, 24533), (545, 24617), (550, 24641), (552, 24650),

Gene: Highbury_27 Start: 21945, Stop: 24341, Start Num: 99

Candidate Starts for Highbury_27:

(Start: 99 @21945 has 123 MA's), (152, 22122), (160, 22143), (199, 22290), (223, 22431), (229, 22464), (235, 22497), (240, 22533), (262, 22626), (276, 22686), (281, 22704), (307, 22836), (314, 22881), (339, 23013), (351, 23058), (363, 23118), (385, 23232), (390, 23253), (398, 23292), (401, 23313), (404, 23328), (430, 23478), (431, 23484), (433, 23502), (445, 23556), (460, 23640), (480, 23733), (510, 23979), (536, 24195), (545, 24279), (552, 24312),

Gene: Hlubikazi_18 Start: 17495, Stop: 20032, Start Num: 63

Candidate Starts for Hlubikazi_18:

(Start: 63 @17495 has 221 MA's), (72, 17516), (Start: 86 @17537 has 1 MA's), (95, 17576), (118, 17645), (124, 17654), (125, 17657), (131, 17675), (144, 17723), (178, 17882), (179, 17885), (193, 17927), (194, 17930), (208, 18008), (211, 18029), (212, 18032), (222, 18098), (235, 18173), (236, 18179), (244, 18221), (245, 18227), (246, 18230), (254, 18263), (255, 18269), (262, 18299), (269, 18320), (274, 18350), (276, 18359), (299, 18467), (301, 18479), (303, 18488), (304, 18491), (305, 18500), (306, 18506), (309, 18521), (310, 18524), (312, 18545), (321, 18587), (325, 18620), (357, 18761), (358, 18767), (367, 18821), (368, 18824), (371, 18851), (390, 18926), (392, 18938), (393, 18941), (405, 19007), (409, 19031), (411, 19052), (413, 19061), (423, 19121), (424, 19124), (431, 19160), (433, 19178), (440, 19199), (444, 19226), (457, 19295), (460, 19313), (462, 19322), (464, 19334), (473, 19370), (477, 19400), (490, 19481), (501, 19595), (506, 19637), (523, 19772), (527, 19796), (532, 19850), (544, 19964), (545, 19967),

Gene: Holt_27 Start: 21564, Stop: 23960, Start Num: 99

Candidate Starts for Holt_27:

(Start: 99 @21564 has 123 MA's), (152, 21741), (160, 21762), (199, 21909), (223, 22050), (229, 22083), (235, 22116), (240, 22152), (262, 22245), (276, 22305), (281, 22323), (307, 22455), (314, 22500), (339, 22632), (351, 22677), (363, 22737), (385, 22851), (390, 22872), (398, 22911), (401, 22932), (404, 22947), (430, 23097), (431, 23103), (433, 23121), (445, 23175), (460, 23259), (480, 23352), (510, 23598), (536, 23814), (545, 23898), (552, 23931),

Gene: Hoonter_28 Start: 22274, Stop: 24670, Start Num: 99

Candidate Starts for Hoonter_28:

(Start: 99 @22274 has 123 MA's), (152, 22451), (160, 22472), (199, 22619), (229, 22793), (235, 22826), (240, 22862), (262, 22955), (276, 23015), (281, 23033), (307, 23165), (314, 23210), (339, 23342), (351, 23387), (363, 23447), (385, 23561), (390, 23582), (398, 23621), (401, 23642), (404, 23657), (430, 23807), (431, 23813), (433, 23831), (445, 23885), (460, 23969), (480, 24062), (510, 24308), (536, 24524), (545, 24608), (552, 24641),

Gene: Hokey_28 Start: 22561, Stop: 24957, Start Num: 99

Candidate Starts for Hokey_28:

(Start: 99 @22561 has 123 MA's), (152, 22738), (160, 22759), (199, 22906), (229, 23080), (235, 23113), (240, 23149), (262, 23242), (276, 23302), (281, 23320), (307, 23452), (314, 23497), (339, 23629), (351, 23674), (363, 23734), (385, 23848), (390, 23869), (398, 23908), (401, 23929), (404, 23944), (430, 24094), (431, 24100), (433, 24118), (445, 24172), (460, 24256), (480, 24349), (510, 24595), (536, 24811), (545, 24895), (552, 24928),

Gene: HufflyPuff_25 Start: 22268, Stop: 24664, Start Num: 99

Candidate Starts for HufflyPuff_25:

(Start: 99 @22268 has 123 MA's), (152, 22445), (160, 22466), (199, 22613), (223, 22754), (229, 22787), (235, 22820), (240, 22856), (262, 22949), (276, 23009), (281, 23027), (307, 23159), (314, 23204), (339, 23336), (351, 23381), (363, 23441), (385, 23555), (390, 23576), (398, 23615), (401, 23636), (404, 23651), (430, 23801), (431, 23807), (433, 23825), (445, 23879), (460, 23963), (480, 24056), (510, 24302), (536, 24518), (545, 24602), (552, 24635),

Gene: IHOP_26 Start: 22460, Stop: 24856, Start Num: 99

Candidate Starts for IHOP_26:

(Start: 99 @22460 has 123 MA's), (152, 22637), (160, 22658), (199, 22805), (223, 22946), (229, 22979), (235, 23012), (240, 23048), (262, 23141), (276, 23201), (281, 23219), (311, 23375), (314, 23396), (336, 23516), (339, 23528), (351, 23573), (390, 23768), (391, 23774), (393, 23783), (401, 23828), (404, 23843), (431, 23999), (433, 24017), (436, 24026), (446, 24080), (460, 24155), (461, 24158), (493, 24368), (495, 24380), (510, 24494), (536, 24710), (545, 24794), (550, 24818), (552, 24827),

Gene: IMpilo_18 Start: 17430, Stop: 19967, Start Num: 63

Candidate Starts for IMpilo_18:

(60, 17418), (Start: 63 @17430 has 221 MA's), (72, 17451), (Start: 86 @17472 has 1 MA's), (95, 17511), (118, 17580), (124, 17589), (125, 17592), (131, 17610), (141, 17643), (144, 17658), (156, 17706), (178, 17817), (179, 17820), (188, 17850), (193, 17862), (194, 17865), (208, 17943), (212, 17967), (222, 18033), (230, 18078), (235, 18108), (236, 18114), (237, 18132), (244, 18156), (246, 18165), (254, 18198), (255, 18204), (262, 18234), (272, 18273), (274, 18285), (276, 18294), (280, 18309), (281, 18312), (303, 18423), (304, 18426), (305, 18435), (306, 18441), (309, 18456), (310, 18459), (312, 18480), (319, 18510), (321, 18522), (325, 18555), (351, 18666), (352, 18669), (357, 18696), (358, 18702), (367, 18756), (368, 18759), (390, 18861), (392, 18873), (393, 18876), (405, 18942), (409, 18966), (411, 18987), (413, 18996), (423, 19056), (424, 19059), (431, 19095), (433, 19113), (437, 19125), (440, 19134), (444, 19161), (457, 19230), (460, 19248), (462, 19257), (464, 19269), (473, 19305), (477, 19335), (481, 19356), (486, 19380), (490, 19416), (494, 19470), (501,

19530), (506, 19572), (515, 19650), (523, 19707), (527, 19731), (532, 19785), (536, 19833), (542, 19875), (544, 19899), (545, 19902),

Gene: lbOuu_18 Start: 17397, Stop: 19934, Start Num: 63

Candidate Starts for lbOuu_18:

(60, 17385), (Start: 63 @17397 has 221 MA's), (72, 17418), (Start: 86 @17439 has 1 MA's), (95, 17478), (118, 17547), (124, 17556), (125, 17559), (131, 17577), (144, 17625), (156, 17673), (178, 17784), (179, 17787), (194, 17832), (208, 17910), (212, 17934), (222, 18000), (230, 18045), (235, 18075), (236, 18081), (237, 18099), (244, 18123), (246, 18132), (254, 18165), (255, 18171), (262, 18201), (272, 18240), (274, 18252), (276, 18261), (280, 18276), (281, 18279), (303, 18390), (304, 18393), (305, 18402), (306, 18408), (309, 18423), (310, 18426), (312, 18447), (319, 18477), (321, 18489), (325, 18522), (351, 18633), (352, 18636), (357, 18663), (358, 18669), (367, 18723), (368, 18726), (390, 18828), (392, 18840), (393, 18843), (405, 18909), (409, 18933), (411, 18954), (413, 18963), (423, 19023), (424, 19026), (431, 19062), (433, 19080), (440, 19101), (444, 19128), (457, 19197), (460, 19215), (462, 19224), (464, 19236), (473, 19272), (481, 19323), (484, 19341), (490, 19383), (494, 19437), (506, 19539), (523, 19674), (527, 19698), (532, 19752), (539, 19821), (544, 19866), (545, 19869),

Gene: lbhubesi_18 Start: 17393, Stop: 19930, Start Num: 63

Candidate Starts for lbhubesi_18:

(Start: 63 @17393 has 221 MA's), (72, 17414), (Start: 86 @17435 has 1 MA's), (95, 17474), (118, 17543), (124, 17552), (125, 17555), (131, 17573), (144, 17621), (178, 17780), (179, 17783), (194, 17828), (211, 17927), (212, 17930), (222, 17996), (235, 18071), (236, 18077), (237, 18095), (244, 18119), (245, 18125), (246, 18128), (254, 18161), (255, 18167), (262, 18197), (269, 18218), (272, 18236), (276, 18257), (299, 18365), (301, 18377), (303, 18386), (304, 18389), (305, 18398), (306, 18404), (309, 18419), (310, 18422), (312, 18443), (321, 18485), (325, 18518), (326, 18521), (339, 18584), (351, 18629), (352, 18632), (358, 18665), (367, 18719), (368, 18722), (371, 18749), (390, 18824), (392, 18836), (393, 18839), (405, 18905), (408, 18926), (409, 18929), (411, 18950), (420, 19001), (423, 19019), (424, 19022), (430, 19052), (433, 19076), (437, 19088), (440, 19097), (457, 19193), (460, 19211), (462, 19220), (464, 19232), (473, 19268), (477, 19298), (480, 19307), (481, 19319), (486, 19343), (490, 19379), (501, 19493), (506, 19535), (523, 19670), (527, 19694), (532, 19748), (536, 19796), (539, 19817), (544, 19862), (545, 19865),

Gene: lcee_25 Start: 21943, Stop: 24339, Start Num: 99

Candidate Starts for lcee_25:

(Start: 99 @21943 has 123 MA's), (152, 22120), (160, 22141), (199, 22288), (223, 22429), (229, 22462), (235, 22495), (240, 22531), (262, 22624), (276, 22684), (281, 22702), (298, 22783), (339, 23011), (351, 23056), (390, 23251), (391, 23257), (393, 23266), (401, 23311), (404, 23326), (431, 23482), (433, 23500), (436, 23509), (460, 23638), (461, 23641), (493, 23851), (495, 23863), (510, 23977), (536, 24193), (545, 24277), (550, 24301), (552, 24310),

Gene: ldergollasper_58 Start: 36096, Stop: 38606, Start Num: 82

Candidate Starts for ldergollasper_58:

(Start: 82 @36096 has 28 MA's), (90, 36129), (105, 36198), (106, 36201), (115, 36225), (125, 36249), (135, 36273), (141, 36306), (183, 36513), (186, 36525), (187, 36528), (215, 36675), (217, 36705), (222, 36729), (230, 36759), (231, 36762), (235, 36789), (237, 36813), (245, 36843), (258, 36900), (263, 36924), (272, 36960), (274, 36972), (280, 36996), (281, 36999), (289, 37041), (309, 37137), (310, 37140), (361, 37395), (390, 37539), (401, 37599), (410, 37671), (411, 37674), (428, 37770), (460, 37944), (464, 37965), (482, 38058), (485, 38070), (494, 38160), (504, 38235), (514, 38280), (538, 38481), (543, 38535), (548, 38550),

Gene: Inca_25 Start: 20963, Stop: 23359, Start Num: 99

Candidate Starts for Inca_25:

(Start: 99 @20963 has 123 MA's), (152, 21140), (160, 21161), (199, 21308), (223, 21449), (229, 21482), (235, 21515), (240, 21551), (262, 21644), (276, 21704), (281, 21722), (307, 21854), (314, 21899), (339, 22031), (351, 22076), (363, 22136), (385, 22250), (390, 22271), (398, 22310), (401, 22331), (404, 22346), (430, 22496), (431, 22502), (433, 22520), (445, 22574), (460, 22658), (480, 22751), (510, 22997), (536, 23213), (545, 23297), (552, 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), (18, 23401), (21, 23425), (22, 23434), (29, 23551), (30, 23554), (31, 23560), (33, 23572), (36, 23587), (38, 23596), (45, 23641), (138, 24019), (149, 24088), (161, 24154), (165, 24175), (166, 24181), (173, 24205), (210, 24430), (224, 24535), (238, 24619), (274, 24799), (276, 24808), (279, 24820), (287, 24853), (297, 24904), (304, 24940), (314, 25003), (321, 25045), (323, 25072), (334, 25126), (335, 25135), (345, 25180), (367, 25300), (371, 25330), (372, 25339), (373, 25342), (401, 25486), (406, 25522), (409, 25531), (412, 25558), (416, 25579), (426, 25639), (433, 25678), (440, 25702), (451, 25780), (512, 26194), (519, 26251), (523, 26293), (533, 26371),

Gene: Inventum_18 Start: 17532, Stop: 20069, Start Num: 63

Candidate Starts for Inventum_18:

(Start: 63 @17532 has 221 MA's), (72, 17553), (Start: 86 @17574 has 1 MA's), (95, 17613), (118, 17682), (124, 17691), (125, 17694), (131, 17712), (144, 17760), (156, 17808), (178, 17919), (179, 17922), (194, 17967), (208, 18045), (212, 18069), (222, 18135), (235, 18210), (236, 18216), (237, 18234), (244, 18258), (246, 18267), (254, 18300), (255, 18306), (262, 18336), (269, 18357), (274, 18387), (276, 18396), (299, 18504), (301, 18516), (303, 18525), (304, 18528), (306, 18543), (309, 18558), (310, 18561), (312, 18582), (321, 18624), (325, 18657), (351, 18768), (352, 18771), (357, 18798), (358, 18804), (367, 18858), (368, 18861), (371, 18888), (390, 18963), (392, 18975), (393, 18978), (405, 19044), (408, 19065), (409, 19068), (411, 19089), (413, 19098), (420, 19140), (423, 19158), (424, 19161), (430, 19191), (433, 19215), (437, 19227), (440, 19236), (457, 19332), (460, 19350), (462, 19359), (464, 19371), (473, 19407), (477, 19437), (480, 19446), (481, 19458), (490, 19518), (494, 19572), (501, 19632), (506, 19674), (523, 19809), (527, 19833), (532, 19887), (536, 19935), (542, 19977), (544, 20001), (545, 20004),

Gene: IrishSherpFalk_19 Start: 18757, Stop: 21294, Start Num: 63

Candidate Starts for IrishSherpFalk_19:

(Start: 63 @18757 has 221 MA's), (72, 18778), (Start: 86 @18799 has 1 MA's), (95, 18838), (118, 18907), (124, 18916), (125, 18919), (131, 18937), (144, 18985), (177, 19138), (179, 19147), (194, 19192), (211, 19291), (212, 19294), (222, 19360), (235, 19435), (236, 19441), (237, 19459), (244, 19483), (245, 19489), (246, 19492), (254, 19525), (255, 19531), (262, 19561), (269, 19582), (274, 19612), (276, 19621), (280, 19636), (281, 19639), (303, 19750), (304, 19753), (305, 19762), (306, 19768), (309, 19783), (310, 19786), (312, 19807), (319, 19837), (321, 19849), (325, 19882), (351, 19993), (352, 19996), (357, 20023), (358, 20029), (367, 20083), (368, 20086), (387, 20173), (390, 20188), (392, 20200), (393, 20203), (405, 20269), (409, 20293), (411, 20314), (413, 20323), (423, 20383), (424, 20386), (431, 20422), (433, 20440), (437, 20452), (440, 20461), (444, 20488), (455, 20545), (457, 20557), (460, 20575), (462, 20584), (464, 20596), (473, 20632), (477, 20662), (480, 20671), (481, 20683), (490, 20743), (494, 20797), (501, 20857), (506, 20899), (523, 21034), (527, 21058), (532, 21112), (536, 21160), (542, 21202), (544, 21226), (545, 21229),

Gene: Island3_21 Start: 19089, Stop: 21620, Start Num: 71

Candidate Starts for Island3_21:

(Start: 71 @19089 has 2 MA's), (81, 19113), (109, 19224), (113, 19233), (125, 19260), (159, 19407), (211, 19674), (215, 19689), (217, 19719), (218, 19725), (222, 19743), (244, 19851), (255, 19902), (281, 20013), (282, 20016), (289, 20055), (298, 20088), (310, 20154), (321, 20214), (324, 20241), (325, 20247), (390, 20553), (401, 20613), (407, 20661), (408, 20664), (410, 20685), (411, 20688),

(460, 20949), (484, 21072), (485, 21075), (494, 21165), (501, 21222), (504, 21243), (518, 21303), (540, 21504), (543, 21546),

Gene: Jabbawokkie_26 Start: 17616, Stop: 20168, Start Num: 52

Candidate Starts for Jabbawokkie_26:

(50, 17607), (Start: 52 @17616 has 7 MA's), (Start: 63 @17676 has 221 MA's), (80, 17712), (113, 17811), (159, 17952), (168, 17991), (172, 18006), (179, 18042), (180, 18048), (181, 18051), (189, 18069), (197, 18093), (201, 18117), (202, 18120), (227, 18264), (230, 18273), (235, 18297), (237, 18321), (244, 18345), (245, 18351), (251, 18372), (252, 18375), (255, 18393), (262, 18426), (270, 18456), (274, 18477), (295, 18570), (298, 18585), (299, 18594), (303, 18615), (304, 18618), (311, 18660), (319, 18702), (320, 18705), (321, 18714), (324, 18741), (326, 18750), (334, 18789), (337, 18810), (339, 18813), (349, 18849), (354, 18870), (367, 18948), (368, 18951), (382, 19005), (392, 19065), (407, 19152), (409, 19158), (411, 19179), (419, 19215), (427, 19269), (430, 19278), (443, 19356), (446, 19374), (450, 19410), (452, 19413), (457, 19431), (460, 19449), (473, 19506), (475, 19518), (486, 19581), (490, 19614), (497, 19701), (503, 19749), (505, 19773), (510, 19809), (514, 19848), (520, 19887), (523, 19911), (526, 19932), (536, 20028), (539, 20049), (546, 20109), (548, 20112), (552, 20139),

Gene: JacoRen57_20 Start: 18844, Stop: 20730, Start Num: 74

Candidate Starts for JacoRen57_20:

(Start: 74 @18844 has 1 MA's), (100, 18928), (142, 19060), (160, 19135), (170, 19171), (171, 19174), (195, 19261), (198, 19279), (203, 19306), (213, 19363), (227, 19462), (242, 19543), (253, 19588), (262, 19633), (274, 19684), (276, 19693), (292, 19762), (303, 19816), (313, 19876), (330, 19960), (337, 19996), (344, 20017), (346, 20023), (348, 20032), (357, 20071), (375, 20182), (381, 20203), (395, 20266), (396, 20269), (403, 20311), (408, 20350), (461, 20665), (462, 20671), (463, 20680), (467, 20695), (470, 20704), (472, 20719),

Gene: JalFarm20_20 Start: 17767, Stop: 20304, Start Num: 63

Candidate Starts for JalFarm20_20:

(60, 17755), (Start: 63 @17767 has 221 MA's), (72, 17788), (Start: 86 @17809 has 1 MA's), (95, 17848), (118, 17917), (124, 17926), (125, 17929), (131, 17947), (141, 17980), (144, 17995), (156, 18043), (178, 18154), (179, 18157), (188, 18187), (193, 18199), (194, 18202), (208, 18280), (212, 18304), (222, 18370), (230, 18415), (235, 18445), (236, 18451), (237, 18469), (244, 18493), (246, 18502), (254, 18535), (255, 18541), (262, 18571), (272, 18610), (274, 18622), (276, 18631), (280, 18646), (281, 18649), (303, 18760), (304, 18763), (305, 18772), (306, 18778), (309, 18793), (310, 18796), (312, 18817), (319, 18847), (321, 18859), (325, 18892), (351, 19003), (352, 19006), (357, 19033), (358, 19039), (367, 19093), (368, 19096), (387, 19183), (390, 19198), (392, 19210), (393, 19213), (405, 19279), (409, 19303), (411, 19324), (413, 19333), (423, 19393), (424, 19396), (431, 19432), (433, 19450), (437, 19462), (440, 19471), (444, 19498), (457, 19567), (460, 19585), (462, 19594), (464, 19606), (473, 19642), (477, 19672), (481, 19693), (486, 19717), (490, 19753), (494, 19807), (501, 19867), (506, 19909), (515, 19987), (523, 20044), (527, 20068), (532, 20122), (536, 20170), (542, 20212), (544, 20236), (545, 20239),

Gene: James_18 Start: 17397, Stop: 19922, Start Num: 63

Candidate Starts for James_18:

(Start: 63 @17397 has 221 MA's), (72, 17418), (Start: 86 @17439 has 1 MA's), (95, 17478), (118, 17547), (124, 17556), (125, 17559), (131, 17577), (144, 17625), (156, 17673), (178, 17784), (179, 17787), (189, 17820), (194, 17832), (208, 17910), (217, 17976), (223, 18009), (232, 18063), (235, 18075), (245, 18129), (246, 18132), (249, 18141), (256, 18174), (267, 18213), (269, 18216), (271, 18231), (272, 18234), (278, 18261), (279, 18267), (280, 18270), (281, 18273), (287, 18300), (290, 18318), (291, 18321), (305, 18396), (309, 18417), (310, 18420), (313, 18447), (319, 18471), (325, 18516), (326, 18519), (336, 18570), (352, 18633), (354, 18642), (358, 18666), (379, 18771), (380, 18774), (390, 18825), (391, 18831), (392, 18837), (393, 18840), (401, 18885), (404, 18900), (408,

18927), (411, 18951), (420, 19002), (423, 19020), (424, 19023), (425, 19035), (437, 19089), (460, 19212), (474, 19275), (484, 19338), (492, 19413), (518, 19614), (541, 19824), (547, 19863), (548, 19866),

Gene: JangDynasty_58 Start: 36182, Stop: 38692, Start Num: 82

Candidate Starts for JangDynasty_58:

(Start: 82 @36182 has 28 MA's), (90, 36215), (105, 36284), (106, 36287), (115, 36311), (125, 36335), (135, 36359), (141, 36392), (183, 36599), (186, 36611), (187, 36614), (215, 36761), (217, 36791), (222, 36815), (230, 36845), (231, 36848), (235, 36875), (237, 36899), (245, 36929), (258, 36986), (263, 37010), (272, 37046), (274, 37058), (280, 37082), (281, 37085), (289, 37127), (309, 37223), (310, 37226), (361, 37481), (390, 37625), (401, 37685), (410, 37757), (411, 37760), (428, 37856), (460, 38030), (464, 38051), (482, 38144), (485, 38156), (494, 38246), (504, 38321), (514, 38366), (538, 38567), (543, 38621), (548, 38636),

Gene: Jarcob_18 Start: 17405, Stop: 19957, Start Num: 63

Candidate Starts for Jarcob_18:

(Start: 63 @17405 has 221 MA's), (95, 17486), (118, 17555), (124, 17564), (125, 17567), (131, 17585), (144, 17633), (155, 17678), (178, 17792), (179, 17795), (182, 17807), (189, 17828), (193, 17837), (194, 17840), (202, 17888), (208, 17918), (217, 17984), (223, 18017), (230, 18053), (234, 18077), (245, 18137), (246, 18140), (251, 18158), (267, 18221), (269, 18224), (272, 18242), (276, 18263), (281, 18281), (287, 18308), (291, 18329), (298, 18362), (305, 18404), (306, 18410), (307, 18413), (310, 18428), (313, 18455), (314, 18458), (319, 18479), (321, 18491), (325, 18524), (347, 18617), (367, 18725), (370, 18749), (371, 18755), (378, 18773), (379, 18776), (384, 18800), (390, 18830), (394, 18854), (401, 18890), (402, 18896), (404, 18905), (408, 18932), (417, 18995), (420, 19019), (421, 19034), (430, 19076), (441, 19127), (458, 19223), (460, 19238), (462, 19247), (468, 19271), (480, 19334), (486, 19370), (521, 19676), (527, 19721), (536, 19823),

Gene: JeTaime_28 Start: 23085, Stop: 25481, Start Num: 99

Candidate Starts for JeTaime_28:

(Start: 99 @23085 has 123 MA's), (152, 23262), (160, 23283), (199, 23430), (229, 23604), (235, 23637), (240, 23673), (262, 23766), (276, 23826), (281, 23844), (307, 23976), (314, 24021), (339, 24153), (351, 24198), (363, 24258), (385, 24372), (390, 24393), (398, 24432), (401, 24453), (404, 24468), (430, 24618), (431, 24624), (433, 24642), (445, 24696), (460, 24780), (480, 24873), (510, 25119), (536, 25335), (545, 25419), (552, 25452),

Gene: Jinglebell_17 Start: 17634, Stop: 20171, Start Num: 63

Candidate Starts for Jinglebell_17:

(Start: 63 @17634 has 221 MA's), (72, 17655), (Start: 86 @17676 has 1 MA's), (95, 17715), (118, 17784), (124, 17793), (125, 17796), (131, 17814), (144, 17862), (178, 18021), (179, 18024), (193, 18066), (194, 18069), (208, 18147), (211, 18168), (212, 18171), (222, 18237), (223, 18246), (230, 18282), (235, 18312), (236, 18318), (244, 18360), (245, 18366), (246, 18369), (254, 18402), (255, 18408), (262, 18438), (269, 18459), (274, 18489), (276, 18498), (299, 18606), (301, 18618), (303, 18627), (304, 18630), (305, 18639), (306, 18645), (309, 18660), (310, 18663), (312, 18684), (321, 18726), (325, 18759), (357, 18900), (358, 18906), (367, 18960), (368, 18963), (371, 18990), (390, 19065), (392, 19077), (393, 19080), (405, 19146), (408, 19167), (409, 19170), (411, 19191), (420, 19242), (423, 19260), (424, 19263), (430, 19293), (433, 19317), (437, 19329), (457, 19434), (460, 19452), (462, 19461), (464, 19473), (473, 19509), (477, 19539), (481, 19560), (486, 19584), (490, 19620), (501, 19734), (506, 19776), (515, 19854), (523, 19911), (527, 19935), (532, 19989), (536, 20037), (542, 20079), (544, 20103), (545, 20106),

Gene: Job42_21 Start: 19082, Stop: 21619, Start Num: 63

Candidate Starts for Job42_21:

(Start: 63 @19082 has 221 MA's), (Start: 86 @19124 has 1 MA's), (102, 19172), (118, 19232), (124, 19241), (125, 19244), (131, 19262), (141, 19295), (144, 19310), (156, 19358), (178, 19469), (179, 19472), (188, 19502), (193, 19514), (194, 19517), (208, 19595), (212, 19619), (222, 19685), (230, 19730), (235, 19760), (236, 19766), (237, 19784), (244, 19808), (246, 19817), (254, 19850), (255, 19856), (262, 19886), (272, 19925), (274, 19937), (276, 19946), (280, 19961), (281, 19964), (303, 20075), (304, 20078), (305, 20087), (306, 20093), (309, 20108), (310, 20111), (312, 20132), (319, 20162), (321, 20174), (325, 20207), (351, 20318), (352, 20321), (357, 20348), (358, 20354), (367, 20408), (368, 20411), (390, 20513), (392, 20525), (393, 20528), (405, 20594), (409, 20618), (411, 20639), (413, 20648), (423, 20708), (424, 20711), (431, 20747), (433, 20765), (437, 20777), (440, 20786), (444, 20813), (457, 20882), (460, 20900), (462, 20909), (464, 20921), (473, 20957), (477, 20987), (481, 21008), (486, 21032), (490, 21068), (494, 21122), (501, 21182), (506, 21224), (515, 21302), (523, 21359), (527, 21383), (532, 21437), (536, 21485), (542, 21527), (544, 21551), (545, 21554),

Gene: JoeyJr_18 Start: 17568, Stop: 20105, Start Num: 63

Candidate Starts for JoeyJr_18:

(60, 17556), (Start: 63 @17568 has 221 MA's), (72, 17589), (Start: 86 @17610 has 1 MA's), (95, 17649), (118, 17718), (124, 17727), (125, 17730), (131, 17748), (144, 17796), (156, 17844), (178, 17955), (179, 17958), (194, 18003), (208, 18081), (212, 18105), (222, 18171), (230, 18216), (235, 18246), (236, 18252), (237, 18270), (244, 18294), (246, 18303), (254, 18336), (255, 18342), (262, 18372), (272, 18411), (274, 18423), (276, 18432), (280, 18447), (281, 18450), (303, 18561), (304, 18564), (305, 18573), (306, 18579), (309, 18594), (310, 18597), (312, 18618), (319, 18648), (321, 18660), (325, 18693), (351, 18804), (352, 18807), (357, 18834), (358, 18840), (367, 18894), (368, 18897), (390, 18999), (392, 19011), (393, 19014), (405, 19080), (409, 19104), (411, 19125), (413, 19134), (423, 19194), (424, 19197), (431, 19233), (433, 19251), (440, 19272), (444, 19299), (457, 19368), (460, 19386), (462, 19395), (464, 19407), (473, 19443), (481, 19494), (484, 19512), (490, 19554), (494, 19608), (506, 19710), (523, 19845), (527, 19869), (532, 19923), (539, 19992), (544, 20037), (545, 20040),

Gene: Juice456_20 Start: 18519, Stop: 21056, Start Num: 63

Candidate Starts for Juice456_20:

(60, 18507), (Start: 63 @18519 has 221 MA's), (72, 18540), (Start: 86 @18561 has 1 MA's), (95, 18600), (118, 18669), (124, 18678), (125, 18681), (131, 18699), (141, 18732), (144, 18747), (156, 18795), (178, 18906), (179, 18909), (188, 18939), (193, 18951), (194, 18954), (208, 19032), (212, 19056), (222, 19122), (230, 19167), (235, 19197), (236, 19203), (237, 19221), (244, 19245), (246, 19254), (254, 19287), (255, 19293), (262, 19323), (272, 19362), (274, 19374), (276, 19383), (280, 19398), (281, 19401), (303, 19512), (304, 19515), (305, 19524), (306, 19530), (309, 19545), (310, 19548), (312, 19569), (319, 19599), (321, 19611), (325, 19644), (351, 19755), (352, 19758), (357, 19785), (358, 19791), (367, 19845), (368, 19848), (387, 19935), (390, 19950), (392, 19962), (393, 19965), (405, 20031), (409, 20055), (411, 20076), (413, 20085), (420, 20127), (423, 20145), (424, 20148), (431, 20184), (433, 20202), (437, 20214), (440, 20223), (444, 20250), (457, 20319), (460, 20337), (462, 20346), (464, 20358), (473, 20394), (477, 20424), (481, 20445), (486, 20469), (490, 20505), (494, 20559), (501, 20619), (506, 20661), (515, 20739), (523, 20796), (527, 20820), (532, 20874), (536, 20922), (542, 20964), (544, 20988), (545, 20991),

Gene: Juniper1_18 Start: 17394, Stop: 19931, Start Num: 63

Candidate Starts for Juniper1_18:

(Start: 63 @17394 has 221 MA's), (72, 17415), (Start: 86 @17436 has 1 MA's), (95, 17475), (118, 17544), (124, 17553), (125, 17556), (131, 17574), (141, 17607), (144, 17622), (178, 17781), (179, 17784), (194, 17829), (208, 17907), (212, 17931), (222, 17997), (235, 18072), (236, 18078), (244, 18120), (245, 18126), (246, 18129), (254, 18162), (255, 18168), (262, 18198), (269, 18219), (274, 18249), (276, 18258), (299, 18366), (301, 18378), (303, 18387), (304, 18390), (305, 18399), (306, 18405), (309, 18420), (310, 18423), (312, 18444), (321, 18486), (325, 18519), (351, 18630), (352,

18633), (357, 18660), (358, 18666), (367, 18720), (368, 18723), (371, 18750), (372, 18759), (390, 18825), (392, 18837), (393, 18840), (405, 18906), (408, 18927), (409, 18930), (411, 18951), (420, 19002), (423, 19020), (424, 19023), (430, 19053), (433, 19077), (437, 19089), (440, 19098), (457, 19194), (460, 19212), (462, 19221), (464, 19233), (473, 19269), (477, 19299), (481, 19320), (486, 19344), (490, 19380), (501, 19494), (506, 19536), (523, 19671), (527, 19695), (532, 19749), (539, 19818), (544, 19863), (545, 19866), (547, 19872),

Gene: KandZ_30 Start: 24416, Stop: 26686, Start Num: 23

Candidate Starts for KandZ_30:

(Start: 23 @24416 has 22 MA's), (34, 24551), (35, 24560), (Start: 71 @24734 has 2 MA's), (73, 24740), (76, 24752), (123, 24905), (127, 24920), (133, 24935), (211, 25316), (213, 25322), (218, 25367), (234, 25454), (278, 25655), (279, 25661), (289, 25709), (297, 25739), (301, 25763), (337, 25952), (346, 25979), (357, 26027), (369, 26099), (375, 26138), (381, 26159), (383, 26174), (386, 26192), (395, 26222), (408, 26306), (441, 26507), (447, 26549), (472, 26675),

Gene: Kanye_28 Start: 23270, Stop: 25666, Start Num: 99

Candidate Starts for Kanye_28:

(Start: 99 @23270 has 123 MA's), (152, 23447), (160, 23468), (199, 23615), (223, 23756), (229, 23789), (235, 23822), (240, 23858), (262, 23951), (276, 24011), (281, 24029), (307, 24161), (314, 24206), (339, 24338), (351, 24383), (363, 24443), (385, 24557), (390, 24578), (398, 24617), (401, 24638), (404, 24653), (430, 24803), (431, 24809), (433, 24827), (445, 24881), (460, 24965), (480, 25058), (510, 25304), (536, 25520), (545, 25604), (552, 25637),

Gene: Karhdo_18 Start: 17528, Stop: 20065, Start Num: 63

Candidate Starts for Karhdo_18:

(60, 17516), (Start: 63 @17528 has 221 MA's), (72, 17549), (Start: 86 @17570 has 1 MA's), (95, 17609), (118, 17678), (124, 17687), (125, 17690), (131, 17708), (141, 17741), (144, 17756), (156, 17804), (178, 17915), (179, 17918), (188, 17948), (193, 17960), (194, 17963), (208, 18041), (212, 18065), (222, 18131), (230, 18176), (235, 18206), (236, 18212), (237, 18230), (244, 18254), (246, 18263), (254, 18296), (255, 18302), (262, 18332), (272, 18371), (274, 18383), (276, 18392), (280, 18407), (281, 18410), (303, 18521), (304, 18524), (305, 18533), (306, 18539), (309, 18554), (310, 18557), (312, 18578), (319, 18608), (321, 18620), (325, 18653), (351, 18764), (352, 18767), (357, 18794), (358, 18800), (367, 18854), (368, 18857), (387, 18944), (390, 18959), (392, 18971), (393, 18974), (405, 19040), (409, 19064), (411, 19085), (413, 19094), (420, 19136), (423, 19154), (424, 19157), (430, 19187), (433, 19211), (437, 19223), (440, 19232), (457, 19328), (460, 19346), (462, 19355), (464, 19367), (473, 19403), (477, 19433), (480, 19442), (481, 19454), (490, 19514), (494, 19568), (501, 19628), (506, 19670), (523, 19805), (527, 19829), (532, 19883), (536, 19931), (542, 19973), (544, 19997), (545, 20000),

Gene: KashFlow_30 Start: 26008, Stop: 28503, Start Num: 63

Candidate Starts for KashFlow_30:

(Start: 63 @26008 has 221 MA's), (131, 26203), (141, 26239), (144, 26254), (168, 26341), (172, 26356), (179, 26392), (180, 26398), (194, 26431), (197, 26443), (227, 26614), (230, 26623), (235, 26647), (245, 26701), (254, 26737), (255, 26743), (262, 26773), (270, 26803), (274, 26824), (276, 26833), (280, 26848), (295, 26917), (310, 26998), (311, 27007), (314, 27028), (315, 27031), (321, 27061), (326, 27097), (336, 27148), (337, 27157), (339, 27160), (347, 27187), (349, 27196), (354, 27217), (367, 27295), (368, 27298), (384, 27370), (391, 27406), (392, 27412), (400, 27454), (401, 27460), (408, 27502), (409, 27505), (411, 27526), (412, 27532), (413, 27535), (419, 27565), (443, 27706), (445, 27715), (446, 27724), (449, 27757), (457, 27781), (458, 27784), (460, 27799), (464, 27820), (473, 27856), (474, 27862), (475, 27868), (478, 27889), (482, 27916), (497, 28051), (505, 28123), (507, 28129), (510, 28147), (523, 28246), (536, 28363), (546, 28444), (548, 28447), (552, 28474),

Gene: Kenuha5_18 Start: 17523, Stop: 20015, Start Num: 63

Candidate Starts for Kenuha5_18:

(61, 17511), (Start: 63 @17523 has 221 MA's), (72, 17544), (Start: 86 @17565 has 1 MA's), (96, 17604), (118, 17673), (124, 17682), (125, 17685), (131, 17703), (141, 17736), (147, 17769), (159, 17802), (172, 17856), (179, 17892), (180, 17898), (181, 17901), (189, 17919), (194, 17931), (197, 17943), (201, 17967), (214, 18030), (227, 18114), (230, 18123), (235, 18147), (237, 18171), (244, 18195), (245, 18201), (251, 18222), (255, 18243), (262, 18273), (270, 18303), (274, 18324), (295, 18417), (298, 18432), (299, 18441), (303, 18462), (304, 18465), (319, 18549), (320, 18552), (321, 18561), (324, 18588), (326, 18597), (334, 18636), (337, 18657), (339, 18660), (349, 18696), (354, 18717), (367, 18795), (368, 18798), (382, 18852), (392, 18912), (409, 19005), (410, 19023), (411, 19026), (419, 19062), (427, 19116), (430, 19125), (443, 19203), (446, 19221), (450, 19257), (452, 19260), (457, 19278), (458, 19281), (460, 19296), (464, 19317), (473, 19353), (475, 19365), (486, 19428), (490, 19461), (497, 19548), (503, 19596), (505, 19620), (509, 19647), (510, 19656), (514, 19695), (520, 19734), (523, 19758), (526, 19779), (536, 19875), (539, 19896), (548, 19959), (552, 19986), (553, 19995),

Gene: Kersh_19 Start: 17568, Stop: 20060, Start Num: 63

Candidate Starts for Kersh_19:

(Start: 63 @17568 has 221 MA's), (72, 17589), (Start: 86 @17610 has 1 MA's), (96, 17649), (118, 17718), (124, 17727), (125, 17730), (131, 17748), (141, 17781), (147, 17814), (159, 17847), (172, 17901), (179, 17937), (181, 17946), (189, 17964), (197, 17988), (201, 18012), (219, 18120), (223, 18144), (227, 18159), (230, 18168), (235, 18192), (236, 18198), (237, 18216), (240, 18228), (242, 18234), (244, 18240), (245, 18246), (246, 18249), (249, 18258), (251, 18267), (254, 18282), (262, 18318), (272, 18357), (274, 18369), (276, 18378), (295, 18462), (310, 18543), (311, 18552), (315, 18576), (321, 18606), (326, 18642), (336, 18693), (337, 18702), (339, 18705), (349, 18741), (354, 18762), (367, 18840), (368, 18843), (382, 18897), (392, 18957), (407, 19044), (409, 19050), (411, 19071), (419, 19107), (427, 19161), (430, 19170), (443, 19248), (446, 19266), (450, 19302), (452, 19305), (457, 19323), (460, 19341), (473, 19398), (475, 19410), (486, 19473), (490, 19506), (497, 19593), (503, 19641), (505, 19665), (509, 19692), (510, 19701), (514, 19740), (520, 19779), (523, 19803), (526, 19824), (536, 19920), (539, 19941), (546, 20001), (548, 20004), (552, 20031),

Gene: Kimberlium_20 Start: 18519, Stop: 21056, Start Num: 63

Candidate Starts for Kimberlium_20:

(60, 18507), (Start: 63 @18519 has 221 MA's), (72, 18540), (Start: 86 @18561 has 1 MA's), (95, 18600), (118, 18669), (124, 18678), (125, 18681), (131, 18699), (141, 18732), (144, 18747), (156, 18795), (178, 18906), (179, 18909), (188, 18939), (193, 18951), (194, 18954), (208, 19032), (212, 19056), (222, 19122), (230, 19167), (235, 19197), (236, 19203), (237, 19221), (244, 19245), (246, 19254), (254, 19287), (255, 19293), (262, 19323), (272, 19362), (274, 19374), (276, 19383), (280, 19398), (281, 19401), (303, 19512), (304, 19515), (305, 19524), (306, 19530), (309, 19545), (310, 19548), (312, 19569), (319, 19599), (321, 19611), (325, 19644), (351, 19755), (352, 19758), (357, 19785), (358, 19791), (367, 19845), (368, 19848), (387, 19935), (390, 19950), (392, 19962), (393, 19965), (405, 20031), (409, 20055), (411, 20076), (413, 20085), (420, 20127), (423, 20145), (424, 20148), (431, 20184), (433, 20202), (437, 20214), (440, 20223), (444, 20250), (457, 20319), (460, 20337), (462, 20346), (464, 20358), (473, 20394), (477, 20424), (481, 20445), (486, 20469), (490, 20505), (494, 20559), (501, 20619), (506, 20661), (515, 20739), (523, 20796), (527, 20820), (532, 20874), (536, 20922), (542, 20964), (544, 20988), (545, 20991),

Gene: Kimchi_28 Start: 22277, Stop: 24673, Start Num: 99

Candidate Starts for Kimchi_28:

(Start: 99 @22277 has 123 MA's), (152, 22454), (160, 22475), (199, 22622), (223, 22763), (229, 22796), (235, 22829), (240, 22865), (262, 22958), (276, 23018), (281, 23036), (307, 23168), (314, 23213), (339, 23345), (351, 23390), (363, 23450), (385, 23564), (390, 23585), (398, 23624), (401, 23645), (404, 23660), (430, 23810), (431, 23816), (433, 23834), (445, 23888), (460, 23972), (480,

24065), (510, 24311), (536, 24527), (545, 24611), (552, 24644),

Gene: KingMidas_19 Start: 18701, Stop: 21238, Start Num: 63

Candidate Starts for KingMidas_19:

(60, 18689), (Start: 63 @18701 has 221 MA's), (72, 18722), (Start: 86 @18743 has 1 MA's), (95, 18782), (118, 18851), (124, 18860), (125, 18863), (131, 18881), (144, 18929), (156, 18977), (178, 19088), (179, 19091), (194, 19136), (208, 19214), (212, 19238), (222, 19304), (230, 19349), (235, 19379), (236, 19385), (237, 19403), (244, 19427), (246, 19436), (254, 19469), (255, 19475), (262, 19505), (272, 19544), (274, 19556), (276, 19565), (280, 19580), (281, 19583), (303, 19694), (304, 19697), (305, 19706), (306, 19712), (309, 19727), (310, 19730), (312, 19751), (319, 19781), (321, 19793), (325, 19826), (351, 19937), (352, 19940), (357, 19967), (358, 19973), (367, 20027), (368, 20030), (390, 20132), (392, 20144), (393, 20147), (405, 20213), (409, 20237), (411, 20258), (413, 20267), (423, 20327), (424, 20330), (431, 20366), (433, 20384), (440, 20405), (444, 20432), (457, 20501), (460, 20519), (462, 20528), (464, 20540), (473, 20576), (481, 20627), (484, 20645), (490, 20687), (494, 20741), (506, 20843), (523, 20978), (527, 21002), (532, 21056), (539, 21125), (544, 21170), (545, 21173),

Gene: Kingsley_19 Start: 17253, Stop: 19730, Start Num: 63

Candidate Starts for Kingsley_19:

(61, 17241), (Start: 63 @17253 has 221 MA's), (72, 17274), (Start: 86 @17295 has 1 MA's), (96, 17334), (118, 17403), (124, 17412), (125, 17415), (131, 17433), (141, 17466), (144, 17481), (168, 17568), (172, 17583), (179, 17619), (180, 17625), (194, 17658), (197, 17670), (227, 17841), (230, 17850), (235, 17874), (245, 17928), (254, 17964), (255, 17970), (262, 18000), (270, 18030), (274, 18051), (276, 18060), (295, 18144), (306, 18207), (310, 18225), (311, 18234), (314, 18255), (315, 18258), (319, 18276), (321, 18288), (324, 18315), (326, 18324), (336, 18375), (337, 18384), (339, 18387), (347, 18414), (349, 18423), (354, 18444), (367, 18522), (368, 18525), (391, 18633), (392, 18639), (401, 18687), (408, 18729), (409, 18732), (411, 18753), (412, 18759), (413, 18762), (419, 18792), (443, 18933), (446, 18951), (449, 18984), (457, 19008), (458, 19011), (460, 19026), (464, 19047), (473, 19083), (474, 19089), (478, 19116), (482, 19143), (497, 19278), (503, 19326), (505, 19350), (507, 19356), (510, 19374), (523, 19473), (526, 19494), (528, 19512), (536, 19590), (539, 19611), (548, 19674), (550, 19692), (553, 19710),

Gene: Konstantine_34 Start: 26883, Stop: 29726, Start Num: 25

Candidate Starts for Konstantine_34:

(Start: 25 @26883 has 8 MA's), (44, 27015), (46, 27027), (48, 27036), (59, 27105), (87, 27171), (89, 27192), (103, 27240), (111, 27282), (122, 27306), (134, 27339), (143, 27375), (145, 27387), (167, 27480), (179, 27537), (189, 27576), (223, 27771), (228, 27801), (236, 27843), (269, 27984), (272, 28002), (289, 28083), (298, 28122), (301, 28143), (325, 28281), (333, 28320), (349, 28383), (368, 28485), (410, 28710), (478, 29073), (482, 29100), (517, 29343), (521, 29376), (524, 29400), (536, 29520), (546, 29598), (555, 29685), (556, 29700), (557, 29706),

Gene: Kostya_26 Start: 22283, Stop: 24679, Start Num: 99

Candidate Starts for Kostya_26:

(Start: 99 @22283 has 123 MA's), (152, 22460), (160, 22481), (199, 22628), (223, 22769), (229, 22802), (235, 22835), (240, 22871), (262, 22964), (276, 23024), (281, 23042), (298, 23123), (339, 23351), (351, 23396), (390, 23591), (391, 23597), (393, 23606), (401, 23651), (404, 23666), (431, 23822), (433, 23840), (436, 23849), (460, 23978), (461, 23981), (493, 24191), (495, 24203), (510, 24317), (536, 24533), (545, 24617), (550, 24641), (552, 24650),

Gene: Krakatau_19 Start: 18095, Stop: 20632, Start Num: 63

Candidate Starts for Krakatau_19:

(Start: 63 @18095 has 221 MA's), (72, 18116), (Start: 86 @18137 has 1 MA's), (95, 18176), (118, 18245), (124, 18254), (125, 18257), (131, 18275), (141, 18308), (144, 18323), (156, 18371), (178,

18482), (179, 18485), (188, 18515), (193, 18527), (194, 18530), (212, 18632), (222, 18698), (230, 18743), (235, 18773), (236, 18779), (237, 18797), (244, 18821), (246, 18830), (254, 18863), (255, 18869), (262, 18899), (272, 18938), (274, 18950), (276, 18959), (280, 18974), (282, 18980), (303, 19088), (304, 19091), (305, 19100), (306, 19106), (309, 19121), (310, 19124), (312, 19145), (319, 19175), (321, 19187), (325, 19220), (351, 19331), (352, 19334), (357, 19361), (358, 19367), (367, 19421), (368, 19424), (390, 19526), (392, 19538), (393, 19541), (405, 19607), (409, 19631), (411, 19652), (413, 19661), (423, 19721), (424, 19724), (431, 19760), (433, 19778), (437, 19790), (440, 19799), (444, 19826), (457, 19895), (460, 19913), (462, 19922), (464, 19934), (473, 19970), (477, 20000), (481, 20021), (486, 20045), (490, 20081), (494, 20135), (501, 20195), (506, 20237), (515, 20315), (523, 20372), (527, 20396), (532, 20450), (536, 20498), (544, 20564), (545, 20567),

Gene: Krili_57 Start: 35606, Stop: 38116, Start Num: 82

Candidate Starts for Krili_57:

(Start: 82 @35606 has 28 MA's), (90, 35639), (105, 35708), (106, 35711), (115, 35735), (125, 35759), (135, 35783), (141, 35816), (183, 36023), (186, 36035), (187, 36038), (215, 36185), (217, 36215), (222, 36239), (230, 36269), (231, 36272), (235, 36299), (237, 36323), (245, 36353), (258, 36410), (263, 36434), (272, 36470), (274, 36482), (280, 36506), (281, 36509), (289, 36551), (309, 36647), (310, 36650), (361, 36905), (390, 37049), (401, 37109), (410, 37181), (411, 37184), (428, 37280), (460, 37454), (464, 37475), (482, 37568), (485, 37580), (494, 37670), (504, 37745), (514, 37790), (538, 37991), (543, 38045), (548, 38060),

Gene: KristaRAM_19 Start: 18070, Stop: 20607, Start Num: 63

Candidate Starts for KristaRAM_19:

(60, 18058), (Start: 63 @18070 has 221 MA's), (72, 18091), (Start: 86 @18112 has 1 MA's), (95, 18151), (118, 18220), (124, 18229), (125, 18232), (131, 18250), (141, 18283), (144, 18298), (156, 18346), (178, 18457), (179, 18460), (188, 18490), (193, 18502), (194, 18505), (208, 18583), (212, 18607), (222, 18673), (230, 18718), (235, 18748), (236, 18754), (237, 18772), (244, 18796), (246, 18805), (254, 18838), (255, 18844), (262, 18874), (272, 18913), (274, 18925), (276, 18934), (280, 18949), (281, 18952), (303, 19063), (304, 19066), (305, 19075), (306, 19081), (309, 19096), (310, 19099), (312, 19120), (319, 19150), (321, 19162), (325, 19195), (351, 19306), (352, 19309), (357, 19336), (358, 19342), (367, 19396), (368, 19399), (387, 19486), (390, 19501), (392, 19513), (393, 19516), (405, 19582), (409, 19606), (411, 19627), (413, 19636), (423, 19696), (424, 19699), (431, 19735), (433, 19753), (437, 19765), (440, 19774), (444, 19801), (457, 19870), (460, 19888), (462, 19897), (464, 19909), (473, 19945), (477, 19975), (481, 19996), (486, 20020), (490, 20056), (494, 20110), (501, 20170), (506, 20212), (515, 20290), (523, 20347), (527, 20371), (532, 20425), (536, 20473), (542, 20515), (544, 20539), (545, 20542),

Gene: Kumao_30 Start: 23701, Stop: 26268, Start Num: 58

Candidate Starts for Kumao_30:

(Start: 58 @23701 has 6 MA's), (Start: 86 @23767 has 1 MA's), (121, 23899), (129, 23923), (140, 23956), (157, 24031), (159, 24049), (170, 24100), (193, 24166), (227, 24370), (246, 24469), (254, 24502), (265, 24553), (293, 24676), (294, 24679), (325, 24856), (339, 24922), (355, 24988), (359, 25006), (362, 25021), (365, 25045), (388, 25150), (390, 25162), (414, 25300), (430, 25399), (431, 25405), (435, 25435), (443, 25477), (479, 25660), (480, 25663), (482, 25684), (483, 25690), (494, 25789), (498, 25828), (509, 25915), (522, 26014), (529, 26065), (530, 26083), (535, 26137), (544, 26212),

Gene: Latretium_19 Start: 18077, Stop: 20614, Start Num: 63

Candidate Starts for Latretium_19:

(60, 18065), (Start: 63 @18077 has 221 MA's), (72, 18098), (Start: 86 @18119 has 1 MA's), (95, 18158), (118, 18227), (124, 18236), (125, 18239), (131, 18257), (144, 18305), (178, 18464), (179, 18467), (188, 18497), (194, 18512), (208, 18590), (211, 18611), (212, 18614), (222, 18680), (235, 18755), (236, 18761), (237, 18779), (244, 18803), (245, 18809), (246, 18812), (254, 18845), (255,

18851), (262, 18881), (269, 18902), (274, 18932), (276, 18941), (299, 19049), (303, 19070), (304, 19073), (305, 19082), (306, 19088), (309, 19103), (310, 19106), (312, 19127), (321, 19169), (325, 19202), (357, 19343), (358, 19349), (367, 19403), (368, 19406), (371, 19433), (390, 19508), (392, 19520), (393, 19523), (405, 19589), (409, 19613), (411, 19634), (413, 19643), (423, 19703), (424, 19706), (431, 19742), (433, 19760), (440, 19781), (444, 19808), (455, 19865), (457, 19877), (460, 19895), (462, 19904), (464, 19916), (473, 19952), (477, 19982), (490, 20063), (494, 20117), (501, 20177), (506, 20219), (523, 20354), (527, 20378), (532, 20432), (542, 20522), (544, 20546), (545, 20549),

Gene: Leozinho_19 Start: 17243, Stop: 19780, Start Num: 63

Candidate Starts for Leozinho_19:

(60, 17231), (Start: 63 @17243 has 221 MA's), (72, 17264), (Start: 86 @17285 has 1 MA's), (95, 17324), (118, 17393), (124, 17402), (125, 17405), (131, 17423), (141, 17456), (144, 17471), (156, 17519), (178, 17630), (179, 17633), (188, 17663), (193, 17675), (194, 17678), (208, 17756), (212, 17780), (222, 17846), (230, 17891), (235, 17921), (236, 17927), (237, 17945), (244, 17969), (246, 17978), (254, 18011), (255, 18017), (262, 18047), (272, 18086), (274, 18098), (276, 18107), (280, 18122), (281, 18125), (303, 18236), (304, 18239), (305, 18248), (306, 18254), (309, 18269), (310, 18272), (312, 18293), (319, 18323), (321, 18335), (325, 18368), (351, 18479), (352, 18482), (357, 18509), (358, 18515), (367, 18569), (368, 18572), (390, 18674), (392, 18686), (393, 18689), (405, 18755), (409, 18779), (411, 18800), (413, 18809), (423, 18869), (424, 18872), (431, 18908), (433, 18926), (437, 18938), (440, 18947), (444, 18974), (457, 19043), (460, 19061), (462, 19070), (464, 19082), (473, 19118), (477, 19148), (481, 19169), (486, 19193), (490, 19229), (494, 19283), (501, 19343), (506, 19385), (515, 19463), (523, 19520), (527, 19544), (532, 19598), (536, 19646), (542, 19688), (544, 19712), (545, 19715),

Gene: Leperchaun_18 Start: 17387, Stop: 19939, Start Num: 63

Candidate Starts for Leperchaun_18:

(Start: 63 @17387 has 221 MA's), (72, 17408), (Start: 86 @17429 has 1 MA's), (95, 17468), (118, 17537), (124, 17546), (125, 17549), (131, 17567), (141, 17600), (144, 17615), (156, 17663), (178, 17774), (179, 17777), (189, 17810), (193, 17819), (194, 17822), (208, 17900), (217, 17966), (223, 17999), (232, 18053), (235, 18065), (244, 18113), (246, 18122), (249, 18131), (256, 18164), (269, 18206), (271, 18221), (278, 18251), (279, 18257), (280, 18260), (281, 18263), (287, 18290), (291, 18311), (298, 18344), (305, 18386), (306, 18392), (307, 18395), (309, 18407), (310, 18410), (313, 18437), (319, 18461), (321, 18473), (325, 18506), (329, 18527), (347, 18599), (352, 18620), (370, 18731), (378, 18755), (379, 18758), (384, 18782), (390, 18812), (394, 18836), (401, 18872), (402, 18878), (404, 18887), (417, 18977), (420, 19001), (421, 19016), (430, 19058), (431, 19064), (441, 19109), (458, 19205), (460, 19220), (462, 19229), (468, 19253), (480, 19316), (521, 19658), (527, 19703), (536, 19805),

Gene: LilMoolah_18 Start: 17531, Stop: 20056, Start Num: 63

Candidate Starts for LilMoolah_18:

(Start: 63 @17531 has 221 MA's), (72, 17552), (Start: 86 @17573 has 1 MA's), (95, 17612), (118, 17681), (124, 17690), (125, 17693), (131, 17711), (144, 17759), (156, 17807), (178, 17918), (179, 17921), (189, 17954), (194, 17966), (208, 18044), (217, 18110), (223, 18143), (232, 18197), (235, 18209), (245, 18263), (246, 18266), (249, 18275), (256, 18308), (267, 18347), (269, 18350), (271, 18365), (272, 18368), (278, 18395), (279, 18401), (280, 18404), (281, 18407), (287, 18434), (290, 18452), (291, 18455), (305, 18530), (309, 18551), (310, 18554), (313, 18581), (319, 18605), (325, 18650), (326, 18653), (336, 18704), (352, 18767), (354, 18776), (358, 18800), (379, 18905), (380, 18908), (390, 18959), (391, 18965), (392, 18971), (393, 18974), (401, 19019), (404, 19034), (408, 19061), (411, 19085), (420, 19136), (423, 19154), (424, 19157), (425, 19169), (437, 19223), (460, 19346), (474, 19409), (484, 19472), (492, 19547), (518, 19748), (541, 19958), (547, 19997), (548, 20000),

Gene: Lilac_28 Start: 21781, Stop: 24177, Start Num: 99

Candidate Starts for Lilac_28:

(Start: 99 @21781 has 123 MA's), (152, 21958), (160, 21979), (199, 22126), (229, 22300), (235, 22333), (240, 22369), (262, 22462), (276, 22522), (281, 22540), (307, 22672), (314, 22717), (339, 22849), (351, 22894), (363, 22954), (385, 23068), (390, 23089), (398, 23128), (401, 23149), (404, 23164), (430, 23314), (431, 23320), (433, 23338), (445, 23392), (460, 23476), (480, 23569), (510, 23815), (536, 24031), (545, 24115), (552, 24148),

Gene: Lilizi_28 Start: 21989, Stop: 24385, Start Num: 99

Candidate Starts for Lilizi_28:

(Start: 99 @21989 has 123 MA's), (152, 22166), (160, 22187), (199, 22334), (229, 22508), (235, 22541), (240, 22577), (262, 22670), (276, 22730), (281, 22748), (307, 22880), (314, 22925), (339, 23057), (351, 23102), (363, 23162), (385, 23276), (390, 23297), (398, 23336), (401, 23357), (404, 23372), (430, 23522), (431, 23528), (433, 23546), (445, 23600), (460, 23684), (480, 23777), (510, 24023), (536, 24239), (545, 24323), (552, 24356),

Gene: Lilpickle_25 Start: 21491, Stop: 23887, Start Num: 99

Candidate Starts for Lilpickle_25:

(Start: 99 @21491 has 123 MA's), (152, 21668), (160, 21689), (199, 21836), (229, 22010), (235, 22043), (240, 22079), (262, 22172), (276, 22232), (281, 22250), (307, 22382), (314, 22427), (339, 22559), (351, 22604), (363, 22664), (385, 22778), (390, 22799), (398, 22838), (401, 22859), (404, 22874), (430, 23024), (431, 23030), (433, 23048), (445, 23102), (460, 23186), (480, 23279), (510, 23525), (536, 23741), (545, 23825), (552, 23858),

Gene: LittleE_39 Start: 30972, Stop: 33527, Start Num: 63

Candidate Starts for LittleE_39:

(Start: 63 @30972 has 221 MA's), (131, 31167), (141, 31203), (144, 31218), (156, 31266), (178, 31377), (179, 31380), (188, 31410), (194, 31425), (208, 31503), (212, 31527), (222, 31593), (230, 31638), (235, 31668), (236, 31674), (237, 31692), (244, 31716), (246, 31725), (254, 31758), (255, 31764), (262, 31794), (272, 31833), (274, 31845), (276, 31854), (280, 31869), (281, 31872), (303, 31983), (304, 31986), (305, 31995), (306, 32001), (309, 32016), (310, 32019), (319, 32070), (321, 32082), (325, 32115), (339, 32181), (351, 32226), (352, 32229), (357, 32256), (358, 32262), (367, 32316), (368, 32319), (387, 32406), (390, 32421), (392, 32433), (393, 32436), (405, 32502), (411, 32547), (413, 32556), (423, 32616), (424, 32619), (431, 32655), (433, 32673), (437, 32685), (440, 32694), (444, 32721), (457, 32790), (460, 32808), (462, 32817), (464, 32829), (473, 32865), (477, 32895), (481, 32916), (486, 32940), (490, 32976), (494, 33030), (501, 33090), (506, 33132), (523, 33267), (527, 33291), (532, 33345), (536, 33393), (542, 33435), (544, 33459), (545, 33462),

Gene: LittleShirley_19 Start: 17218, Stop: 19755, Start Num: 63

Candidate Starts for LittleShirley_19:

(Start: 63 @17218 has 221 MA's), (72, 17239), (Start: 86 @17260 has 1 MA's), (95, 17299), (118, 17368), (124, 17377), (125, 17380), (131, 17398), (144, 17446), (177, 17599), (179, 17608), (194, 17653), (211, 17752), (212, 17755), (222, 17821), (235, 17896), (236, 17902), (237, 17920), (244, 17944), (245, 17950), (246, 17953), (254, 17986), (255, 17992), (262, 18022), (269, 18043), (274, 18073), (276, 18082), (280, 18097), (281, 18100), (303, 18211), (304, 18214), (305, 18223), (306, 18229), (309, 18244), (310, 18247), (312, 18268), (319, 18298), (321, 18310), (325, 18343), (351, 18454), (352, 18457), (357, 18484), (358, 18490), (367, 18544), (368, 18547), (390, 18649), (392, 18661), (393, 18664), (405, 18730), (409, 18754), (411, 18775), (413, 18784), (423, 18844), (424, 18847), (431, 18883), (433, 18901), (437, 18913), (440, 18922), (444, 18949), (455, 19006), (457, 19018), (460, 19036), (462, 19045), (464, 19057), (473, 19093), (477, 19123), (480, 19132), (481, 19144), (490, 19204), (494, 19258), (501, 19318), (506, 19360), (523, 19495), (527, 19519), (532, 19573), (536, 19621), (542, 19663), (544, 19687), (545, 19690),

Gene: Lizziana_18 Start: 17406, Stop: 19931, Start Num: 63

Candidate Starts for Lizziana_18:

(Start: 63 @17406 has 221 MA's), (95, 17487), (118, 17556), (124, 17565), (125, 17568), (131, 17586), (144, 17634), (155, 17679), (178, 17793), (179, 17796), (182, 17808), (189, 17829), (193, 17838), (194, 17841), (202, 17889), (208, 17919), (217, 17985), (223, 18018), (230, 18054), (234, 18078), (245, 18138), (246, 18141), (251, 18159), (267, 18222), (269, 18225), (272, 18243), (276, 18264), (281, 18282), (287, 18309), (291, 18330), (298, 18363), (306, 18411), (307, 18414), (309, 18426), (310, 18429), (313, 18456), (319, 18480), (325, 18525), (354, 18651), (358, 18675), (380, 18783), (390, 18834), (392, 18846), (393, 18849), (401, 18894), (404, 18909), (408, 18936), (411, 18960), (420, 19011), (423, 19029), (424, 19032), (425, 19044), (437, 19098), (445, 19140), (474, 19284), (482, 19338), (483, 19344), (484, 19347), (488, 19383), (489, 19386), (491, 19395), (492, 19422), (518, 19623), (536, 19794), (541, 19833), (547, 19872), (548, 19875),

Gene: Llama_18 Start: 17634, Stop: 20171, Start Num: 63

Candidate Starts for Llama_18:

(Start: 63 @17634 has 221 MA's), (72, 17655), (Start: 86 @17676 has 1 MA's), (95, 17715), (118, 17784), (124, 17793), (125, 17796), (131, 17814), (144, 17862), (178, 18021), (179, 18024), (193, 18066), (194, 18069), (208, 18147), (211, 18168), (212, 18171), (222, 18237), (223, 18246), (230, 18282), (235, 18312), (236, 18318), (244, 18360), (245, 18366), (246, 18369), (254, 18402), (255, 18408), (262, 18438), (269, 18459), (274, 18489), (276, 18498), (299, 18606), (301, 18618), (303, 18627), (304, 18630), (305, 18639), (306, 18645), (309, 18660), (310, 18663), (312, 18684), (321, 18726), (325, 18759), (357, 18900), (358, 18906), (367, 18960), (368, 18963), (371, 18990), (390, 19065), (392, 19077), (393, 19080), (405, 19146), (408, 19167), (409, 19170), (411, 19191), (420, 19242), (423, 19260), (424, 19263), (430, 19293), (433, 19317), (437, 19329), (457, 19434), (460, 19452), (462, 19461), (464, 19473), (473, 19509), (477, 19539), (481, 19560), (486, 19584), (490, 19620), (501, 19734), (506, 19776), (515, 19854), (523, 19911), (527, 19935), (532, 19989), (536, 20037), (542, 20079), (544, 20103), (545, 20106),

Gene: Llij_18 Start: 17383, Stop: 19920, Start Num: 63

Candidate Starts for Llij_18:

(Start: 63 @17383 has 221 MA's), (102, 17473), (118, 17533), (124, 17542), (125, 17545), (131, 17563), (144, 17611), (156, 17659), (177, 17764), (178, 17770), (179, 17773), (193, 17815), (194, 17818), (212, 17920), (222, 17986), (230, 18031), (235, 18061), (236, 18067), (237, 18085), (244, 18109), (246, 18118), (254, 18151), (255, 18157), (269, 18208), (272, 18226), (274, 18238), (276, 18247), (280, 18262), (282, 18268), (303, 18376), (305, 18388), (306, 18394), (309, 18409), (310, 18412), (312, 18433), (319, 18463), (321, 18475), (325, 18508), (339, 18574), (351, 18619), (352, 18622), (357, 18649), (358, 18655), (367, 18709), (368, 18712), (371, 18739), (390, 18814), (392, 18826), (393, 18829), (405, 18895), (408, 18916), (409, 18919), (413, 18949), (420, 18991), (423, 19009), (424, 19012), (430, 19042), (433, 19066), (437, 19078), (440, 19087), (457, 19183), (460, 19201), (462, 19210), (464, 19222), (477, 19288), (480, 19297), (481, 19309), (490, 19369), (506, 19525), (523, 19660), (527, 19684), (532, 19738), (539, 19807), (544, 19852), (545, 19855),

Gene: Lorde_19 Start: 17219, Stop: 19756, Start Num: 63

Candidate Starts for Lorde_19:

(60, 17207), (Start: 63 @17219 has 221 MA's), (72, 17240), (Start: 86 @17261 has 1 MA's), (95, 17300), (118, 17369), (124, 17378), (125, 17381), (131, 17399), (141, 17432), (144, 17447), (156, 17495), (177, 17600), (179, 17609), (193, 17651), (194, 17654), (208, 17732), (212, 17756), (222, 17822), (230, 17867), (235, 17897), (236, 17903), (237, 17921), (244, 17945), (246, 17954), (254, 17987), (255, 17993), (262, 18023), (272, 18062), (274, 18074), (276, 18083), (280, 18098), (281, 18101), (303, 18212), (305, 18224), (306, 18230), (309, 18245), (310, 18248), (312, 18269), (319, 18299), (321, 18311), (325, 18344), (339, 18410), (351, 18455), (352, 18458), (357, 18485), (358, 18491), (367, 18545), (368, 18548), (371, 18575), (390, 18650), (392, 18662), (393, 18665), (405, 18731), (409, 18755), (413, 18785), (420, 18827), (423, 18845), (424, 18848), (431, 18884), (433,

18902), (440, 18923), (444, 18950), (457, 19019), (460, 19037), (462, 19046), (464, 19058), (473, 19094), (477, 19124), (480, 19133), (481, 19145), (490, 19205), (494, 19259), (501, 19319), (506, 19361), (515, 19439), (523, 19496), (527, 19520), (532, 19574), (536, 19622), (542, 19664), (544, 19688), (545, 19691),

Gene: Lucky2013_36 Start: 27869, Stop: 30376, Start Num: 63

Candidate Starts for Lucky2013_36:

(Start: 63 @27869 has 221 MA's), (131, 28064), (141, 28100), (144, 28115), (168, 28202), (172, 28217), (194, 28292), (197, 28304), (202, 28331), (219, 28436), (227, 28475), (230, 28484), (235, 28508), (236, 28514), (237, 28532), (242, 28550), (246, 28565), (249, 28574), (251, 28583), (254, 28598), (260, 28625), (262, 28634), (272, 28673), (274, 28685), (276, 28694), (295, 28778), (310, 28859), (314, 28889), (315, 28892), (321, 28922), (324, 28949), (326, 28958), (336, 29009), (337, 29018), (339, 29021), (349, 29057), (354, 29078), (360, 29114), (391, 29267), (401, 29321), (409, 29366), (410, 29384), (411, 29387), (419, 29426), (443, 29573), (445, 29582), (458, 29651), (460, 29666), (490, 29831), (497, 29918), (503, 29966), (510, 30017), (520, 30095), (546, 30317), (548, 30320), (552, 30347),

Gene: LunaBlu_19 Start: 17477, Stop: 20014, Start Num: 63

Candidate Starts for LunaBlu_19:

(Start: 63 @17477 has 221 MA's), (102, 17567), (118, 17627), (124, 17636), (125, 17639), (131, 17657), (141, 17690), (144, 17705), (156, 17753), (178, 17864), (179, 17867), (188, 17897), (194, 17912), (208, 17990), (222, 18080), (230, 18125), (235, 18155), (236, 18161), (237, 18179), (244, 18203), (246, 18212), (254, 18245), (255, 18251), (262, 18281), (272, 18320), (274, 18332), (276, 18341), (280, 18356), (281, 18359), (303, 18470), (305, 18482), (306, 18488), (309, 18503), (310, 18506), (312, 18527), (319, 18557), (321, 18569), (325, 18602), (339, 18668), (351, 18713), (352, 18716), (357, 18743), (358, 18749), (367, 18803), (368, 18806), (390, 18908), (392, 18920), (393, 18923), (405, 18989), (409, 19013), (413, 19043), (423, 19103), (424, 19106), (431, 19142), (433, 19160), (437, 19172), (440, 19181), (444, 19208), (457, 19277), (460, 19295), (462, 19304), (464, 19316), (473, 19352), (477, 19382), (481, 19403), (486, 19427), (490, 19463), (494, 19517), (501, 19577), (506, 19619), (515, 19697), (523, 19754), (527, 19778), (532, 19832), (536, 19880), (542, 19922), (544, 19946), (545, 19949),

Gene: LunaStella_20 Start: 17940, Stop: 20417, Start Num: 65

Candidate Starts for LunaStella_20:

(Start: 65 @17940 has 3 MA's), (72, 17952), (101, 18015), (107, 18042), (128, 18096), (131, 18105), (135, 18111), (141, 18138), (147, 18171), (168, 18243), (172, 18258), (179, 18294), (181, 18303), (189, 18321), (197, 18345), (201, 18369), (227, 18516), (230, 18525), (235, 18549), (237, 18573), (244, 18597), (245, 18603), (251, 18624), (255, 18645), (262, 18675), (270, 18705), (274, 18726), (295, 18819), (298, 18834), (299, 18843), (300, 18852), (303, 18864), (304, 18867), (319, 18951), (320, 18954), (321, 18963), (324, 18990), (326, 18999), (334, 19038), (337, 19059), (339, 19062), (349, 19098), (354, 19119), (367, 19197), (368, 19200), (382, 19254), (392, 19314), (407, 19401), (409, 19407), (410, 19425), (411, 19428), (419, 19464), (427, 19518), (430, 19527), (443, 19605), (446, 19623), (450, 19659), (452, 19662), (457, 19680), (458, 19683), (460, 19698), (473, 19755), (475, 19767), (486, 19830), (490, 19863), (497, 19950), (503, 19998), (505, 20022), (509, 20049), (510, 20058), (514, 20097), (520, 20136), (523, 20160), (526, 20181), (536, 20277), (539, 20298), (548, 20361), (552, 20388), (553, 20397),

Gene: MISSy_25 Start: 21796, Stop: 24192, Start Num: 99

Candidate Starts for MISSy_25:

(Start: 99 @21796 has 123 MA's), (152, 21973), (160, 21994), (199, 22141), (223, 22282), (229, 22315), (235, 22348), (240, 22384), (262, 22477), (276, 22537), (281, 22555), (307, 22687), (314, 22732), (339, 22864), (351, 22909), (363, 22969), (385, 23083), (390, 23104), (398, 23143), (401, 23164), (404, 23179), (430, 23329), (431, 23335), (433, 23353), (445, 23407), (460, 23491), (480,

23584), (510, 23830), (536, 24046), (545, 24130), (552, 24163),

Gene: MPhalcon_25 Start: 21790, Stop: 24186, Start Num: 99

Candidate Starts for MPhalcon_25:

(Start: 99 @21790 has 123 MA's), (152, 21967), (160, 21988), (199, 22135), (223, 22276), (229, 22309), (235, 22342), (240, 22378), (262, 22471), (276, 22531), (281, 22549), (307, 22681), (314, 22726), (339, 22858), (351, 22903), (363, 22963), (385, 23077), (390, 23098), (398, 23137), (401, 23158), (404, 23173), (430, 23323), (431, 23329), (433, 23347), (445, 23401), (460, 23485), (480, 23578), (510, 23824), (536, 24040), (545, 24124), (552, 24157),

Gene: MadKillah_59 Start: 35875, Stop: 38385, Start Num: 82

Candidate Starts for MadKillah_59:

(Start: 82 @35875 has 28 MA's), (90, 35908), (105, 35977), (106, 35980), (115, 36004), (125, 36028), (135, 36052), (141, 36085), (183, 36292), (186, 36304), (187, 36307), (215, 36454), (217, 36484), (222, 36508), (230, 36538), (231, 36541), (235, 36568), (237, 36592), (245, 36622), (258, 36679), (263, 36703), (272, 36739), (274, 36751), (280, 36775), (281, 36778), (289, 36820), (309, 36916), (310, 36919), (361, 37174), (390, 37318), (401, 37378), (410, 37450), (411, 37453), (428, 37549), (460, 37723), (464, 37744), (482, 37837), (485, 37849), (494, 37939), (504, 38014), (514, 38059), (538, 38260), (543, 38314), (548, 38329),

Gene: MadMen_19 Start: 17637, Stop: 20129, Start Num: 63

Candidate Starts for MadMen_19:

(Start: 63 @17637 has 221 MA's), (72, 17658), (Start: 86 @17679 has 1 MA's), (96, 17718), (118, 17787), (124, 17796), (125, 17799), (131, 17817), (141, 17850), (147, 17883), (159, 17916), (168, 17955), (172, 17970), (179, 18006), (181, 18015), (189, 18033), (197, 18057), (201, 18081), (227, 18228), (230, 18237), (235, 18261), (237, 18285), (244, 18309), (245, 18315), (251, 18336), (255, 18357), (262, 18387), (270, 18417), (274, 18438), (295, 18531), (298, 18546), (299, 18555), (303, 18576), (304, 18579), (319, 18663), (320, 18666), (321, 18675), (324, 18702), (326, 18711), (334, 18750), (337, 18771), (339, 18774), (349, 18810), (354, 18831), (367, 18909), (368, 18912), (382, 18966), (392, 19026), (409, 19119), (410, 19137), (411, 19140), (419, 19176), (427, 19230), (430, 19239), (443, 19317), (446, 19335), (450, 19371), (452, 19374), (457, 19392), (458, 19395), (460, 19410), (473, 19467), (475, 19479), (490, 19575), (497, 19662), (503, 19710), (505, 19734), (510, 19770), (514, 19809), (520, 19848), (523, 19872), (526, 19893), (536, 19989), (539, 20010), (548, 20073), (552, 20100), (553, 20109),

Gene: MadamMonkfish_26 Start: 21702, Stop: 24098, Start Num: 99

Candidate Starts for MadamMonkfish_26:

(Start: 99 @21702 has 123 MA's), (152, 21879), (160, 21900), (199, 22047), (229, 22221), (235, 22254), (240, 22290), (262, 22383), (276, 22443), (281, 22461), (307, 22593), (314, 22638), (339, 22770), (351, 22815), (363, 22875), (385, 22989), (390, 23010), (398, 23049), (401, 23070), (404, 23085), (430, 23235), (431, 23241), (433, 23259), (445, 23313), (460, 23397), (480, 23490), (510, 23736), (536, 23952), (545, 24036), (552, 24069),

Gene: Madiba_19 Start: 17273, Stop: 19762, Start Num: 63

Candidate Starts for Madiba_19:

(Start: 63 @17273 has 221 MA's), (72, 17294), (Start: 86 @17315 has 1 MA's), (96, 17354), (118, 17423), (124, 17432), (125, 17435), (131, 17453), (144, 17501), (172, 17603), (179, 17639), (180, 17645), (181, 17648), (189, 17666), (197, 17690), (201, 17714), (214, 17777), (227, 17861), (230, 17870), (235, 17894), (237, 17918), (244, 17942), (245, 17948), (251, 17969), (255, 17990), (262, 18020), (270, 18050), (274, 18071), (295, 18164), (298, 18179), (299, 18188), (303, 18209), (304, 18212), (319, 18296), (320, 18299), (321, 18308), (324, 18335), (326, 18344), (334, 18383), (337, 18404), (339, 18407), (349, 18443), (354, 18464), (367, 18542), (368, 18545), (382, 18599), (392, 18659), (409, 18752), (410, 18770), (411, 18773), (419, 18809), (427, 18863), (430, 18872), (443,

18950), (446, 18968), (450, 19004), (452, 19007), (457, 19025), (458, 19028), (460, 19043), (473, 19100), (475, 19112), (490, 19208), (497, 19295), (503, 19343), (505, 19367), (509, 19394), (510, 19403), (514, 19442), (520, 19481), (523, 19505), (526, 19526), (536, 19622), (539, 19643), (548, 19706), (552, 19733), (553, 19742),

Gene: Mahavrat_18 Start: 17394, Stop: 19931, Start Num: 63

Candidate Starts for Mahavrat_18:

(Start: 63 @17394 has 221 MA's), (72, 17415), (Start: 86 @17436 has 1 MA's), (95, 17475), (118, 17544), (124, 17553), (125, 17556), (131, 17574), (141, 17607), (144, 17622), (178, 17781), (179, 17784), (194, 17829), (208, 17907), (212, 17931), (222, 17997), (235, 18072), (236, 18078), (244, 18120), (245, 18126), (246, 18129), (254, 18162), (255, 18168), (262, 18198), (269, 18219), (274, 18249), (276, 18258), (299, 18366), (301, 18378), (303, 18387), (304, 18390), (305, 18399), (306, 18405), (309, 18420), (310, 18423), (312, 18444), (321, 18486), (325, 18519), (351, 18630), (352, 18633), (357, 18660), (358, 18666), (367, 18720), (368, 18723), (371, 18750), (372, 18759), (390, 18825), (392, 18837), (393, 18840), (405, 18906), (408, 18927), (409, 18930), (411, 18951), (420, 19002), (423, 19020), (424, 19023), (430, 19053), (433, 19077), (437, 19089), (440, 19098), (457, 19194), (460, 19212), (462, 19221), (464, 19233), (473, 19269), (477, 19299), (481, 19320), (486, 19344), (490, 19380), (501, 19494), (506, 19536), (523, 19671), (527, 19695), (532, 19749), (539, 19818), (544, 19863), (545, 19866), (547, 19872),

Gene: Manda_27 Start: 22769, Stop: 25165, Start Num: 99

Candidate Starts for Manda_27:

(Start: 99 @22769 has 123 MA's), (152, 22946), (160, 22967), (199, 23114), (223, 23255), (229, 23288), (235, 23321), (240, 23357), (262, 23450), (276, 23510), (281, 23528), (307, 23660), (314, 23705), (339, 23837), (351, 23882), (363, 23942), (385, 24056), (390, 24077), (398, 24116), (401, 24137), (404, 24152), (430, 24302), (431, 24308), (433, 24326), (445, 24380), (460, 24464), (480, 24557), (510, 24803), (536, 25019), (545, 25103), (552, 25136),

Gene: Mandlovu_18 Start: 17495, Stop: 20032, Start Num: 63

Candidate Starts for Mandlovu_18:

(Start: 63 @17495 has 221 MA's), (72, 17516), (Start: 86 @17537 has 1 MA's), (95, 17576), (118, 17645), (124, 17654), (125, 17657), (131, 17675), (144, 17723), (178, 17882), (179, 17885), (193, 17927), (194, 17930), (208, 18008), (211, 18029), (212, 18032), (222, 18098), (235, 18173), (236, 18179), (244, 18221), (245, 18227), (246, 18230), (254, 18263), (255, 18269), (262, 18299), (269, 18320), (274, 18350), (276, 18359), (299, 18467), (301, 18479), (303, 18488), (304, 18491), (305, 18500), (306, 18506), (309, 18521), (310, 18524), (312, 18545), (321, 18587), (325, 18620), (357, 18761), (358, 18767), (367, 18821), (368, 18824), (371, 18851), (390, 18926), (392, 18938), (393, 18941), (405, 19007), (409, 19031), (411, 19052), (413, 19061), (423, 19121), (424, 19124), (431, 19160), (433, 19178), (440, 19199), (444, 19226), (457, 19295), (460, 19313), (462, 19322), (464, 19334), (473, 19370), (477, 19400), (490, 19481), (501, 19595), (506, 19637), (523, 19772), (527, 19796), (532, 19850), (544, 19964), (545, 19967),

Gene: Mantra_18 Start: 17496, Stop: 20033, Start Num: 63

Candidate Starts for Mantra_18:

(Start: 63 @17496 has 221 MA's), (72, 17517), (Start: 86 @17538 has 1 MA's), (95, 17577), (118, 17646), (124, 17655), (125, 17658), (131, 17676), (144, 17724), (177, 17877), (179, 17886), (194, 17931), (211, 18030), (212, 18033), (222, 18099), (235, 18174), (236, 18180), (237, 18198), (244, 18222), (245, 18228), (246, 18231), (254, 18264), (255, 18270), (262, 18300), (269, 18321), (274, 18351), (276, 18360), (280, 18375), (281, 18378), (303, 18489), (304, 18492), (305, 18501), (306, 18507), (309, 18522), (310, 18525), (312, 18546), (319, 18576), (321, 18588), (325, 18621), (351, 18732), (352, 18735), (357, 18762), (358, 18768), (367, 18822), (368, 18825), (387, 18912), (390, 18927), (392, 18939), (393, 18942), (405, 19008), (409, 19032), (411, 19053), (413, 19062), (423, 19122), (424, 19125), (431, 19161), (433, 19179), (437, 19191), (440, 19200), (444, 19227), (455,

19284), (457, 19296), (460, 19314), (462, 19323), (464, 19335), (473, 19371), (477, 19401), (480, 19410), (481, 19422), (490, 19482), (494, 19536), (501, 19596), (506, 19638), (523, 19773), (527, 19797), (532, 19851), (536, 19899), (542, 19941), (544, 19965), (545, 19968),

Gene: Maravista_18 Start: 17343, Stop: 19880, Start Num: 63

Candidate Starts for Maravista_18:

(60, 17331), (Start: 63 @17343 has 221 MA's), (72, 17364), (Start: 86 @17385 has 1 MA's), (95, 17424), (118, 17493), (124, 17502), (125, 17505), (131, 17523), (141, 17556), (144, 17571), (156, 17619), (178, 17730), (179, 17733), (188, 17763), (193, 17775), (194, 17778), (208, 17856), (212, 17880), (222, 17946), (230, 17991), (235, 18021), (236, 18027), (237, 18045), (244, 18069), (246, 18078), (254, 18111), (255, 18117), (262, 18147), (272, 18186), (274, 18198), (276, 18207), (280, 18222), (281, 18225), (303, 18336), (304, 18339), (305, 18348), (306, 18354), (309, 18369), (310, 18372), (312, 18393), (319, 18423), (321, 18435), (325, 18468), (351, 18579), (352, 18582), (357, 18609), (358, 18615), (367, 18669), (368, 18672), (390, 18774), (392, 18786), (393, 18789), (405, 18855), (409, 18879), (411, 18900), (413, 18909), (423, 18969), (424, 18972), (431, 19008), (433, 19026), (437, 19038), (440, 19047), (444, 19074), (457, 19143), (460, 19161), (462, 19170), (464, 19182), (473, 19218), (477, 19248), (481, 19269), (486, 19293), (490, 19329), (494, 19383), (501, 19443), (506, 19485), (523, 19620), (527, 19644), (532, 19698), (536, 19746), (539, 19767), (542, 19788), (544, 19812), (545, 19815),

Gene: Marker_19 Start: 17246, Stop: 19783, Start Num: 63

Candidate Starts for Marker_19:

(Start: 63 @17246 has 221 MA's), (72, 17267), (Start: 86 @17288 has 1 MA's), (95, 17327), (118, 17396), (124, 17405), (125, 17408), (131, 17426), (144, 17474), (177, 17627), (179, 17636), (194, 17681), (211, 17780), (212, 17783), (222, 17849), (235, 17924), (236, 17930), (237, 17948), (244, 17972), (246, 17981), (254, 18014), (255, 18020), (262, 18050), (269, 18071), (272, 18089), (274, 18101), (276, 18110), (280, 18125), (281, 18128), (303, 18239), (304, 18242), (305, 18251), (306, 18257), (309, 18272), (310, 18275), (312, 18296), (319, 18326), (321, 18338), (325, 18371), (351, 18482), (352, 18485), (357, 18512), (358, 18518), (367, 18572), (368, 18575), (379, 18623), (387, 18662), (390, 18677), (392, 18689), (393, 18692), (397, 18713), (405, 18758), (409, 18782), (413, 18812), (420, 18854), (423, 18872), (424, 18875), (431, 18911), (433, 18929), (437, 18941), (440, 18950), (445, 18983), (457, 19046), (460, 19064), (462, 19073), (464, 19085), (477, 19151), (481, 19172), (486, 19196), (490, 19232), (494, 19286), (501, 19346), (506, 19388), (515, 19466), (523, 19523), (527, 19547), (532, 19601), (536, 19649), (542, 19691), (544, 19715), (545, 19718),

Gene: Marshmallow_26 Start: 22283, Stop: 24679, Start Num: 99

Candidate Starts for Marshmallow_26:

(Start: 99 @22283 has 123 MA's), (152, 22460), (160, 22481), (199, 22628), (223, 22769), (229, 22802), (235, 22835), (240, 22871), (262, 22964), (276, 23024), (281, 23042), (298, 23123), (339, 23351), (351, 23396), (390, 23591), (391, 23597), (393, 23606), (401, 23651), (404, 23666), (431, 23822), (433, 23840), (436, 23849), (460, 23978), (461, 23981), (493, 24191), (495, 24203), (510, 24317), (536, 24533), (545, 24617), (550, 24641), (552, 24650),

Gene: Martik_18 Start: 17406, Stop: 19958, Start Num: 63

Candidate Starts for Martik_18:

(Start: 63 @17406 has 221 MA's), (95, 17487), (118, 17556), (124, 17565), (125, 17568), (131, 17586), (144, 17634), (155, 17679), (178, 17793), (179, 17796), (182, 17808), (189, 17829), (193, 17838), (194, 17841), (202, 17889), (208, 17919), (217, 17985), (223, 18018), (230, 18054), (234, 18078), (245, 18138), (246, 18141), (251, 18159), (267, 18222), (269, 18225), (272, 18243), (276, 18264), (281, 18282), (287, 18309), (291, 18330), (298, 18363), (305, 18405), (306, 18411), (307, 18414), (310, 18429), (313, 18456), (314, 18459), (319, 18480), (321, 18492), (325, 18525), (347, 18618), (367, 18726), (370, 18750), (371, 18756), (378, 18774), (379, 18777), (384, 18801), (390, 18831), (394, 18855), (401, 18891), (402, 18897), (404, 18906), (408, 18933), (417, 18996), (420, 19020),

(421, 19035), (430, 19077), (441, 19128), (458, 19224), (460, 19239), (462, 19248), (468, 19272), (480, 19335), (486, 19371), (521, 19677), (527, 19722), (536, 19824),

Gene: MaryV_43 Start: 28332, Stop: 30899, Start Num: 58

Candidate Starts for MaryV_43:

(Start: 58 @28332 has 6 MA's), (Start: 86 @28401 has 1 MA's), (117, 28524), (119, 28530), (121, 28533), (129, 28557), (137, 28578), (170, 28734), (172, 28740), (174, 28746), (179, 28776), (180, 28782), (194, 28803), (196, 28812), (207, 28872), (218, 28950), (236, 29049), (241, 29082), (245, 29097), (246, 29100), (255, 29139), (269, 29190), (272, 29208), (276, 29229), (278, 29235), (284, 29262), (289, 29289), (303, 29358), (308, 29382), (311, 29403), (314, 29424), (318, 29433), (321, 29454), (325, 29487), (326, 29490), (336, 29541), (339, 29553), (355, 29619), (359, 29637), (365, 29676), (390, 29793), (399, 29838), (408, 29895), (411, 29919), (413, 29928), (416, 29946), (423, 29991), (430, 30024), (435, 30060), (469, 30234), (473, 30252), (474, 30258), (483, 30315), (522, 30639), (525, 30657), (530, 30708), (537, 30771), (544, 30846),

Gene: Mattes_18 Start: 17397, Stop: 19922, Start Num: 63

Candidate Starts for Mattes_18:

(Start: 63 @17397 has 221 MA's), (72, 17418), (Start: 86 @17439 has 1 MA's), (95, 17478), (118, 17547), (124, 17556), (125, 17559), (131, 17577), (144, 17625), (156, 17673), (178, 17784), (179, 17787), (189, 17820), (194, 17832), (208, 17910), (217, 17976), (223, 18009), (232, 18063), (235, 18075), (245, 18129), (246, 18132), (249, 18141), (256, 18174), (267, 18213), (269, 18216), (271, 18231), (272, 18234), (278, 18261), (279, 18267), (280, 18270), (281, 18273), (287, 18300), (290, 18318), (291, 18321), (305, 18396), (309, 18417), (310, 18420), (313, 18447), (319, 18471), (325, 18516), (326, 18519), (336, 18570), (352, 18633), (354, 18642), (358, 18666), (379, 18771), (380, 18774), (390, 18825), (391, 18831), (392, 18837), (393, 18840), (401, 18885), (404, 18900), (408, 18927), (411, 18951), (420, 19002), (423, 19020), (424, 19023), (425, 19035), (437, 19089), (460, 19212), (474, 19275), (484, 19338), (492, 19413), (518, 19614), (541, 19824), (547, 19863), (548, 19866),

Gene: Maxxinista_27 Start: 21751, Stop: 24147, Start Num: 99

Candidate Starts for Maxxinista_27:

(Start: 99 @21751 has 123 MA's), (152, 21928), (160, 21949), (199, 22096), (229, 22270), (235, 22303), (240, 22339), (262, 22432), (276, 22492), (281, 22510), (307, 22642), (314, 22687), (339, 22819), (351, 22864), (363, 22924), (385, 23038), (390, 23059), (398, 23098), (401, 23119), (404, 23134), (430, 23284), (431, 23290), (433, 23308), (445, 23362), (460, 23446), (480, 23539), (510, 23785), (536, 24001), (545, 24085), (552, 24118),

Gene: Megatron06_31 Start: 26215, Stop: 29058, Start Num: 25

Candidate Starts for Megatron06_31:

(Start: 25 @26215 has 8 MA's), (44, 26347), (46, 26359), (48, 26368), (59, 26437), (62, 26443), (87, 26503), (89, 26524), (103, 26572), (111, 26614), (122, 26638), (134, 26671), (143, 26707), (145, 26719), (167, 26812), (179, 26869), (189, 26908), (214, 27034), (223, 27103), (228, 27133), (236, 27175), (246, 27226), (269, 27316), (272, 27334), (289, 27415), (298, 27454), (301, 27475), (325, 27613), (333, 27652), (349, 27715), (368, 27817), (410, 28042), (478, 28405), (482, 28432), (517, 28675), (521, 28708), (524, 28732), (536, 28852), (546, 28930), (555, 29017), (556, 29032), (557, 29038),

Gene: Melissauren88_18 Start: 17470, Stop: 19965, Start Num: 86

Candidate Starts for Melissauren88_18:

(60, 17416), (Start: 63 @17428 has 221 MA's), (72, 17449), (Start: 86 @17470 has 1 MA's), (95, 17509), (118, 17578), (124, 17587), (125, 17590), (131, 17608), (141, 17641), (144, 17656), (156, 17704), (178, 17815), (179, 17818), (188, 17848), (193, 17860), (194, 17863), (208, 17941), (212, 17965), (222, 18031), (230, 18076), (235, 18106), (236, 18112), (237, 18130), (244, 18154), (246,

18163), (254, 18196), (255, 18202), (262, 18232), (272, 18271), (274, 18283), (276, 18292), (280, 18307), (281, 18310), (303, 18421), (304, 18424), (305, 18433), (306, 18439), (309, 18454), (310, 18457), (312, 18478), (319, 18508), (321, 18520), (325, 18553), (351, 18664), (352, 18667), (357, 18694), (358, 18700), (367, 18754), (368, 18757), (387, 18844), (390, 18859), (392, 18871), (393, 18874), (405, 18940), (409, 18964), (411, 18985), (413, 18994), (423, 19054), (424, 19057), (431, 19093), (433, 19111), (437, 19123), (440, 19132), (444, 19159), (457, 19228), (460, 19246), (462, 19255), (464, 19267), (473, 19303), (477, 19333), (481, 19354), (486, 19378), (490, 19414), (494, 19468), (501, 19528), (506, 19570), (515, 19648), (523, 19705), (527, 19729), (532, 19783), (536, 19831), (542, 19873), (544, 19897), (545, 19900),

Gene: MiaZeal_36 Start: 27554, Stop: 30061, Start Num: 63

Candidate Starts for MiaZeal_36:

(Start: 63 @27554 has 221 MA's), (131, 27749), (141, 27785), (144, 27800), (168, 27887), (172, 27902), (194, 27977), (197, 27989), (202, 28016), (219, 28121), (227, 28160), (230, 28169), (235, 28193), (236, 28199), (237, 28217), (246, 28250), (249, 28259), (251, 28268), (254, 28283), (260, 28310), (262, 28319), (272, 28358), (274, 28370), (276, 28379), (295, 28463), (310, 28544), (314, 28574), (315, 28577), (321, 28607), (324, 28634), (326, 28643), (336, 28694), (337, 28703), (339, 28706), (349, 28742), (354, 28763), (360, 28799), (391, 28952), (401, 29006), (409, 29051), (410, 29069), (411, 29072), (419, 29111), (443, 29258), (445, 29267), (458, 29336), (460, 29351), (490, 29516), (497, 29603), (503, 29651), (510, 29702), (520, 29780), (546, 30002), (548, 30005), (552, 30032),

Gene: MilleniumForce_19 Start: 18211, Stop: 20748, Start Num: 63

Candidate Starts for MilleniumForce_19:

(60, 18199), (Start: 63 @18211 has 221 MA's), (72, 18232), (Start: 86 @18253 has 1 MA's), (95, 18292), (118, 18361), (124, 18370), (125, 18373), (131, 18391), (141, 18424), (144, 18439), (156, 18487), (178, 18598), (179, 18601), (188, 18631), (193, 18643), (194, 18646), (208, 18724), (212, 18748), (222, 18814), (230, 18859), (235, 18889), (236, 18895), (237, 18913), (244, 18937), (246, 18946), (254, 18979), (255, 18985), (262, 19015), (272, 19054), (274, 19066), (276, 19075), (280, 19090), (281, 19093), (303, 19204), (304, 19207), (305, 19216), (306, 19222), (309, 19237), (310, 19240), (312, 19261), (319, 19291), (321, 19303), (325, 19336), (351, 19447), (352, 19450), (357, 19477), (358, 19483), (367, 19537), (368, 19540), (390, 19642), (392, 19654), (393, 19657), (405, 19723), (409, 19747), (411, 19768), (413, 19777), (423, 19837), (424, 19840), (431, 19876), (433, 19894), (437, 19906), (440, 19915), (444, 19942), (457, 20011), (460, 20029), (462, 20038), (464, 20050), (473, 20086), (477, 20116), (481, 20137), (486, 20161), (490, 20197), (494, 20251), (501, 20311), (506, 20353), (515, 20431), (523, 20488), (527, 20512), (532, 20566), (536, 20614), (542, 20656), (544, 20680), (545, 20683),

Gene: Mindy_26 Start: 22062, Stop: 24458, Start Num: 99

Candidate Starts for Mindy_26:

(Start: 99 @22062 has 123 MA's), (152, 22239), (160, 22260), (199, 22407), (223, 22548), (229, 22581), (235, 22614), (240, 22650), (262, 22743), (276, 22803), (281, 22821), (311, 22977), (314, 22998), (336, 23118), (339, 23130), (351, 23175), (390, 23370), (393, 23385), (401, 23430), (404, 23445), (431, 23601), (433, 23619), (436, 23628), (460, 23757), (461, 23760), (493, 23970), (495, 23982), (510, 24096), (536, 24312), (545, 24396), (550, 24420), (552, 24429),

Gene: Minerva_39 Start: 31221, Stop: 33764, Start Num: 63

Candidate Starts for Minerva_39:

(53, 31164), (Start: 63 @31221 has 221 MA's), (129, 31410), (144, 31467), (155, 31512), (178, 31626), (179, 31629), (185, 31650), (189, 31662), (194, 31674), (208, 31752), (217, 31818), (223, 31851), (230, 31887), (234, 31911), (245, 31971), (246, 31974), (251, 31992), (267, 32055), (269, 32058), (272, 32076), (276, 32097), (281, 32115), (287, 32142), (291, 32163), (298, 32196), (306, 32244), (307, 32247), (310, 32262), (313, 32289), (319, 32313), (325, 32358), (354, 32484), (367, 32562),

(380, 32616), (390, 32667), (391, 32673), (392, 32679), (393, 32682), (401, 32727), (404, 32742), (408, 32769), (411, 32793), (420, 32844), (423, 32862), (424, 32865), (425, 32877), (437, 32931), (445, 32973), (474, 33117), (482, 33171), (483, 33177), (484, 33180), (488, 33216), (489, 33219), (491, 33228), (492, 33255), (518, 33456), (536, 33627), (541, 33666), (548, 33708),

Gene: MinionDave_19 Start: 18080, Stop: 20617, Start Num: 63

Candidate Starts for MinionDave_19:

(Start: 63 @18080 has 221 MA's), (102, 18170), (118, 18230), (124, 18239), (125, 18242), (131, 18260), (141, 18293), (144, 18308), (156, 18356), (178, 18467), (179, 18470), (188, 18500), (193, 18512), (194, 18515), (208, 18593), (212, 18617), (222, 18683), (230, 18728), (235, 18758), (236, 18764), (237, 18782), (244, 18806), (246, 18815), (254, 18848), (255, 18854), (262, 18884), (272, 18923), (274, 18935), (276, 18944), (280, 18959), (281, 18962), (303, 19073), (304, 19076), (305, 19085), (306, 19091), (309, 19106), (310, 19109), (312, 19130), (319, 19160), (321, 19172), (325, 19205), (351, 19316), (352, 19319), (357, 19346), (358, 19352), (367, 19406), (368, 19409), (387, 19496), (390, 19511), (392, 19523), (393, 19526), (405, 19592), (409, 19616), (411, 19637), (413, 19646), (423, 19706), (424, 19709), (431, 19745), (433, 19763), (437, 19775), (440, 19784), (444, 19811), (457, 19880), (460, 19898), (462, 19907), (464, 19919), (473, 19955), (477, 19985), (481, 20006), (486, 20030), (490, 20066), (494, 20120), (501, 20180), (506, 20222), (515, 20300), (523, 20357), (527, 20381), (532, 20435), (536, 20483), (542, 20525), (544, 20549), (545, 20552),

Gene: Miniwave_26 Start: 22481, Stop: 24877, Start Num: 99

Candidate Starts for Miniwave_26:

(Start: 99 @22481 has 123 MA's), (152, 22658), (160, 22679), (199, 22826), (223, 22967), (229, 23000), (235, 23033), (240, 23069), (262, 23162), (276, 23222), (281, 23240), (307, 23372), (314, 23417), (339, 23549), (351, 23594), (363, 23654), (385, 23768), (390, 23789), (398, 23828), (401, 23849), (404, 23864), (430, 24014), (431, 24020), (433, 24038), (445, 24092), (460, 24176), (480, 24269), (510, 24515), (536, 24731), (545, 24815), (552, 24848),

Gene: Minnie_19 Start: 17940, Stop: 20477, Start Num: 63

Candidate Starts for Minnie_19:

(60, 17928), (Start: 63 @17940 has 221 MA's), (72, 17961), (Start: 86 @17982 has 1 MA's), (95, 18021), (118, 18090), (124, 18099), (125, 18102), (131, 18120), (141, 18153), (144, 18168), (156, 18216), (178, 18327), (179, 18330), (188, 18360), (193, 18372), (194, 18375), (208, 18453), (212, 18477), (222, 18543), (230, 18588), (235, 18618), (236, 18624), (237, 18642), (244, 18666), (246, 18675), (254, 18708), (255, 18714), (262, 18744), (272, 18783), (274, 18795), (276, 18804), (280, 18819), (281, 18822), (303, 18933), (304, 18936), (305, 18945), (306, 18951), (309, 18966), (310, 18969), (312, 18990), (319, 19020), (321, 19032), (325, 19065), (351, 19176), (352, 19179), (357, 19206), (358, 19212), (367, 19266), (368, 19269), (390, 19371), (392, 19383), (393, 19386), (405, 19452), (409, 19476), (411, 19497), (413, 19506), (423, 19566), (424, 19569), (431, 19605), (433, 19623), (437, 19635), (440, 19644), (444, 19671), (457, 19740), (460, 19758), (462, 19767), (464, 19779), (473, 19815), (477, 19845), (481, 19866), (486, 19890), (490, 19926), (494, 19980), (501, 20040), (506, 20082), (515, 20160), (523, 20217), (527, 20241), (532, 20295), (536, 20343), (542, 20385), (544, 20409), (545, 20412),

Gene: Misfit_26 Start: 22371, Stop: 24767, Start Num: 99

Candidate Starts for Misfit_26:

(Start: 99 @22371 has 123 MA's), (152, 22548), (160, 22569), (199, 22716), (223, 22857), (229, 22890), (235, 22923), (240, 22959), (262, 23052), (276, 23112), (281, 23130), (307, 23262), (314, 23307), (339, 23439), (351, 23484), (363, 23544), (385, 23658), (390, 23679), (398, 23718), (401, 23739), (404, 23754), (430, 23904), (431, 23910), (433, 23928), (445, 23982), (460, 24066), (480, 24159), (510, 24405), (536, 24621), (545, 24705), (552, 24738),

Gene: Misha28_19 Start: 17273, Stop: 19798, Start Num: 63

Candidate Starts for Misha28_19:

(Start: 63 @17273 has 221 MA's), (72, 17294), (Start: 86 @17315 has 1 MA's), (95, 17354), (118, 17423), (124, 17432), (125, 17435), (131, 17453), (141, 17486), (144, 17501), (156, 17549), (178, 17660), (179, 17663), (194, 17708), (208, 17786), (212, 17810), (222, 17876), (230, 17921), (235, 17951), (236, 17957), (237, 17975), (244, 17999), (246, 18008), (254, 18041), (255, 18047), (262, 18077), (272, 18116), (274, 18128), (276, 18137), (280, 18152), (281, 18155), (310, 18302), (319, 18353), (338, 18464), (352, 18515), (356, 18539), (371, 18632), (384, 18677), (385, 18686), (390, 18707), (392, 18719), (393, 18722), (401, 18767), (409, 18812), (410, 18830), (411, 18833), (420, 18884), (430, 18935), (431, 18941), (433, 18959), (437, 18971), (440, 18980), (445, 19013), (460, 19094), (475, 19163), (480, 19190), (483, 19217), (491, 19268), (494, 19316), (526, 19559), (536, 19664), (539, 19685), (547, 19739), (551, 19763),

Gene: MisterCuddles_18 Start: 17371, Stop: 19908, Start Num: 63

Candidate Starts for MisterCuddles_18:

(Start: 63 @17371 has 221 MA's), (72, 17392), (Start: 86 @17413 has 1 MA's), (95, 17452), (118, 17521), (124, 17530), (125, 17533), (131, 17551), (141, 17584), (144, 17599), (177, 17752), (179, 17761), (194, 17806), (211, 17905), (212, 17908), (222, 17974), (235, 18049), (236, 18055), (244, 18097), (245, 18103), (246, 18106), (254, 18139), (255, 18145), (262, 18175), (269, 18196), (274, 18226), (276, 18235), (280, 18250), (281, 18253), (303, 18364), (304, 18367), (305, 18376), (306, 18382), (309, 18397), (310, 18400), (312, 18421), (319, 18451), (321, 18463), (325, 18496), (351, 18607), (352, 18610), (357, 18637), (358, 18643), (367, 18697), (368, 18700), (387, 18787), (390, 18802), (392, 18814), (393, 18817), (405, 18883), (409, 18907), (411, 18928), (413, 18937), (420, 18979), (423, 18997), (424, 19000), (430, 19030), (433, 19054), (437, 19066), (440, 19075), (457, 19171), (460, 19189), (462, 19198), (464, 19210), (473, 19246), (477, 19276), (480, 19285), (481, 19297), (490, 19357), (494, 19411), (501, 19471), (506, 19513), (523, 19648), (527, 19672), (532, 19726), (536, 19774), (542, 19816), (544, 19840), (545, 19843),

Gene: Modragons_18 Start: 17634, Stop: 20171, Start Num: 63

Candidate Starts for Modragons_18:

(Start: 63 @17634 has 221 MA's), (72, 17655), (Start: 86 @17676 has 1 MA's), (95, 17715), (118, 17784), (124, 17793), (125, 17796), (131, 17814), (144, 17862), (178, 18021), (179, 18024), (193, 18066), (194, 18069), (208, 18147), (211, 18168), (212, 18171), (222, 18237), (223, 18246), (230, 18282), (235, 18312), (236, 18318), (244, 18360), (245, 18366), (246, 18369), (254, 18402), (255, 18408), (262, 18438), (269, 18459), (274, 18489), (276, 18498), (299, 18606), (301, 18618), (303, 18627), (304, 18630), (305, 18639), (306, 18645), (309, 18660), (310, 18663), (312, 18684), (321, 18726), (325, 18759), (357, 18900), (358, 18906), (367, 18960), (368, 18963), (371, 18990), (390, 19065), (392, 19077), (393, 19080), (405, 19146), (408, 19167), (409, 19170), (411, 19191), (420, 19242), (423, 19260), (424, 19263), (430, 19293), (433, 19317), (437, 19329), (457, 19434), (460, 19452), (462, 19461), (464, 19473), (473, 19509), (477, 19539), (481, 19560), (486, 19584), (490, 19620), (501, 19734), (506, 19776), (515, 19854), (523, 19911), (527, 19935), (532, 19989), (536, 20037), (542, 20079), (544, 20103), (545, 20106),

Gene: Moldemort_27 Start: 22026, Stop: 24422, Start Num: 99

Candidate Starts for Moldemort_27:

(Start: 99 @22026 has 123 MA's), (152, 22203), (160, 22224), (199, 22371), (229, 22545), (235, 22578), (240, 22614), (262, 22707), (276, 22767), (281, 22785), (307, 22917), (314, 22962), (339, 23094), (351, 23139), (363, 23199), (385, 23313), (390, 23334), (398, 23373), (401, 23394), (404, 23409), (430, 23559), (431, 23565), (433, 23583), (445, 23637), (460, 23721), (480, 23814), (510, 24060), (536, 24276), (545, 24360), (552, 24393),

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

Candidate Starts for MontyDev_30:

(Start: 1 @24278 has 8 MA's), (4, 24290), (Start: 5 @24302 has 1 MA's), (8, 24485), (10, 24566), (14, 24665), (15, 24689), (16, 24707), (26, 24866), (29, 24899), (39, 24947), (44, 24986), (67, 25112), (Start: 71 @25121 has 2 MA's), (120, 25307), (166, 25508), (201, 25685), (217, 25784), (223, 25817), (234, 25862), (236, 25874), (244, 25916), (245, 25922), (246, 25925), (260, 25994), (275, 26072), (276, 26078), (285, 26123), (287, 26126), (303, 26210), (316, 26279), (322, 26324), (331, 26369), (341, 26414), (347, 26435), (351, 26453), (352, 26456), (353, 26462), (354, 26465), (377, 26603), (388, 26651), (389, 26657), (404, 26738), (419, 26831), (427, 26891), (430, 26900), (431, 26906), (434, 26927), (465, 27092), (480, 27158), (481, 27170), (484, 27188), (486, 27194), (512, 27428), (516, 27467), (522, 27512), (526, 27542), (535, 27635), (539, 27662),

Gene: MooMoo_18 Start: 17135, Stop: 19570, Start Num: 63

Candidate Starts for MooMoo_18:

(Start: 63 @17135 has 221 MA's), (68, 17147), (77, 17168), (92, 17213), (97, 17231), (103, 17243), (126, 17318), (152, 17414), (162, 17441), (164, 17450), (169, 17468), (170, 17471), (173, 17480), (197, 17555), (198, 17564), (200, 17573), (220, 17651), (235, 17717), (236, 17723), (242, 17759), (243, 17762), (244, 17765), (245, 17771), (249, 17783), (251, 17792), (254, 17807), (265, 17858), (271, 17879), (272, 17882), (276, 17903), (283, 17927), (292, 17972), (303, 18032), (304, 18035), (308, 18056), (311, 18077), (318, 18110), (319, 18119), (325, 18164), (326, 18167), (327, 18173), (334, 18206), (336, 18218), (337, 18227), (339, 18230), (363, 18335), (368, 18368), (392, 18482), (402, 18536), (407, 18569), (408, 18572), (409, 18575), (410, 18593), (419, 18632), (430, 18695), (443, 18773), (446, 18791), (457, 18848), (458, 18851), (461, 18869), (474, 18929), (476, 18944), (486, 18998), (494, 19085), (505, 19190), (511, 19217), (520, 19289), (523, 19313), (536, 19430), (539, 19451), (546, 19511), (548, 19514), (552, 19541), (553, 19550),

Gene: Moonbeam_19 Start: 17889, Stop: 20426, Start Num: 63

Candidate Starts for Moonbeam_19:

(60, 17877), (Start: 63 @17889 has 221 MA's), (72, 17910), (Start: 86 @17931 has 1 MA's), (95, 17970), (118, 18039), (124, 18048), (125, 18051), (131, 18069), (141, 18102), (144, 18117), (156, 18165), (178, 18276), (179, 18279), (188, 18309), (193, 18321), (194, 18324), (208, 18402), (212, 18426), (222, 18492), (230, 18537), (235, 18567), (236, 18573), (237, 18591), (244, 18615), (246, 18624), (254, 18657), (255, 18663), (262, 18693), (272, 18732), (274, 18744), (276, 18753), (280, 18768), (281, 18771), (303, 18882), (304, 18885), (305, 18894), (306, 18900), (309, 18915), (310, 18918), (312, 18939), (319, 18969), (321, 18981), (325, 19014), (351, 19125), (352, 19128), (357, 19155), (358, 19161), (367, 19215), (368, 19218), (387, 19305), (390, 19320), (392, 19332), (393, 19335), (405, 19401), (409, 19425), (411, 19446), (413, 19455), (420, 19497), (423, 19515), (424, 19518), (431, 19554), (433, 19572), (437, 19584), (440, 19593), (444, 19620), (457, 19689), (460, 19707), (462, 19716), (464, 19728), (473, 19764), (477, 19794), (481, 19815), (486, 19839), (490, 19875), (494, 19929), (501, 19989), (506, 20031), (515, 20109), (523, 20166), (527, 20190), (532, 20244), (536, 20292), (542, 20334), (544, 20358), (545, 20361),

Gene: Mopey_30 Start: 24316, Stop: 26586, Start Num: 23

Candidate Starts for Mopey_30:

(Start: 23 @24316 has 22 MA's), (34, 24451), (35, 24460), (Start: 71 @24634 has 2 MA's), (73, 24640), (76, 24652), (123, 24805), (127, 24820), (133, 24835), (211, 25216), (213, 25222), (218, 25267), (234, 25354), (278, 25555), (279, 25561), (289, 25609), (297, 25639), (301, 25663), (337, 25852), (346, 25879), (357, 25927), (369, 25999), (375, 26038), (381, 26059), (383, 26074), (386, 26092), (395, 26122), (408, 26206), (441, 26407), (447, 26449), (472, 26575),

Gene: Mori_58 Start: 36137, Stop: 38647, Start Num: 82

Candidate Starts for Mori_58:

(Start: 82 @36137 has 28 MA's), (90, 36170), (105, 36239), (106, 36242), (115, 36266), (125, 36290), (135, 36314), (141, 36347), (183, 36554), (186, 36566), (187, 36569), (215, 36716), (217, 36746), (222, 36770), (230, 36800), (231, 36803), (235, 36830), (237, 36854), (245, 36884), (258, 36941),

(263, 36965), (272, 37001), (274, 37013), (280, 37037), (281, 37040), (289, 37082), (309, 37178), (310, 37181), (361, 37436), (390, 37580), (401, 37640), (410, 37712), (411, 37715), (428, 37811), (460, 37985), (464, 38006), (482, 38099), (485, 38111), (494, 38201), (504, 38276), (514, 38321), (538, 38522), (543, 38576), (548, 38591),

Gene: Mosby_25 Start: 21791, Stop: 24187, Start Num: 99

Candidate Starts for Mosby_25:

(Start: 99 @21791 has 123 MA's), (152, 21968), (160, 21989), (199, 22136), (223, 22277), (229, 22310), (235, 22343), (240, 22379), (262, 22472), (276, 22532), (281, 22550), (307, 22682), (314, 22727), (339, 22859), (351, 22904), (385, 23078), (390, 23099), (398, 23138), (401, 23159), (404, 23174), (431, 23330), (433, 23348), (445, 23402), (460, 23486), (480, 23579), (510, 23825), (536, 24041), (545, 24125), (552, 24158),

Gene: Mova_19 Start: 17248, Stop: 19785, Start Num: 63

Candidate Starts for Mova_19:

(Start: 63 @17248 has 221 MA's), (72, 17269), (Start: 86 @17290 has 1 MA's), (95, 17329), (118, 17398), (124, 17407), (125, 17410), (131, 17428), (141, 17461), (144, 17476), (178, 17635), (179, 17638), (194, 17683), (208, 17761), (212, 17785), (222, 17851), (235, 17926), (236, 17932), (237, 17950), (244, 17974), (246, 17983), (254, 18016), (255, 18022), (262, 18052), (269, 18073), (272, 18091), (276, 18112), (280, 18127), (281, 18130), (299, 18220), (303, 18241), (304, 18244), (305, 18253), (306, 18259), (309, 18274), (310, 18277), (312, 18298), (321, 18340), (325, 18373), (339, 18439), (351, 18484), (352, 18487), (357, 18514), (358, 18520), (367, 18574), (368, 18577), (371, 18604), (387, 18664), (390, 18679), (392, 18691), (393, 18694), (405, 18760), (409, 18784), (413, 18814), (420, 18856), (423, 18874), (424, 18877), (431, 18913), (433, 18931), (437, 18943), (440, 18952), (444, 18979), (457, 19048), (460, 19066), (462, 19075), (464, 19087), (473, 19123), (477, 19153), (481, 19174), (486, 19198), (490, 19234), (494, 19288), (506, 19390), (523, 19525), (527, 19549), (532, 19603), (536, 19651), (542, 19693), (544, 19717), (545, 19720),

Gene: Mozy_19 Start: 17298, Stop: 19835, Start Num: 63

Candidate Starts for Mozy_19:

(Start: 63 @17298 has 221 MA's), (72, 17319), (Start: 86 @17340 has 1 MA's), (95, 17379), (118, 17448), (124, 17457), (125, 17460), (131, 17478), (141, 17511), (144, 17526), (178, 17685), (179, 17688), (188, 17718), (194, 17733), (208, 17811), (211, 17832), (212, 17835), (222, 17901), (235, 17976), (236, 17982), (244, 18024), (245, 18030), (246, 18033), (254, 18066), (255, 18072), (262, 18102), (269, 18123), (274, 18153), (276, 18162), (303, 18291), (304, 18294), (305, 18303), (306, 18309), (309, 18324), (310, 18327), (312, 18348), (319, 18378), (321, 18390), (325, 18423), (326, 18426), (339, 18489), (357, 18564), (358, 18570), (367, 18624), (368, 18627), (371, 18654), (390, 18729), (392, 18741), (393, 18744), (405, 18810), (409, 18834), (413, 18864), (423, 18924), (424, 18927), (431, 18963), (433, 18981), (440, 19002), (457, 19098), (460, 19116), (462, 19125), (464, 19137), (473, 19173), (481, 19224), (490, 19284), (494, 19338), (506, 19440), (515, 19518), (523, 19575), (527, 19599), (532, 19653), (536, 19701), (542, 19743), (544, 19767), (545, 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), (24, 21095), (29, 21191), (30, 21194), (32, 21200), (37, 21227), (41, 21245), (148, 21695), (154, 21716), (166, 21782), (192, 21902), (204, 21971), (205, 21977), (226, 22121), (233, 22154), (239, 22196), (257, 22271), (276, 22358), (295, 22445), (296, 22448), (298, 22460), (321, 22586), (325, 22619), (341, 22691), (351, 22730), (409, 23030), (422, 23120), (429, 23156), (531, 23810),

Gene: MulchExplorer_21 Start: 18519, Stop: 21056, Start Num: 63

Candidate Starts for MulchExplorer_21:

(60, 18507), (Start: 63 @18519 has 221 MA's), (72, 18540), (Start: 86 @18561 has 1 MA's), (95, 18600), (118, 18669), (124, 18678), (125, 18681), (131, 18699), (141, 18732), (144, 18747), (156, 18795), (178, 18906), (179, 18909), (188, 18939), (193, 18951), (194, 18954), (208, 19032), (212, 19056), (222, 19122), (230, 19167), (235, 19197), (236, 19203), (237, 19221), (244, 19245), (246, 19254), (254, 19287), (255, 19293), (262, 19323), (272, 19362), (274, 19374), (276, 19383), (280, 19398), (281, 19401), (303, 19512), (304, 19515), (305, 19524), (306, 19530), (309, 19545), (310, 19548), (312, 19569), (319, 19599), (321, 19611), (325, 19644), (351, 19755), (352, 19758), (357, 19785), (358, 19791), (367, 19845), (368, 19848), (387, 19935), (390, 19950), (392, 19962), (393, 19965), (405, 20031), (409, 20055), (411, 20076), (413, 20085), (420, 20127), (423, 20145), (424, 20148), (431, 20184), (433, 20202), (437, 20214), (440, 20223), (444, 20250), (457, 20319), (460, 20337), (462, 20346), (464, 20358), (473, 20394), (477, 20424), (481, 20445), (486, 20469), (490, 20505), (494, 20559), (501, 20619), (506, 20661), (515, 20739), (523, 20796), (527, 20820), (532, 20874), (536, 20922), (542, 20964), (544, 20988), (545, 20991),

Gene: Murai_59 Start: 36318, Stop: 38828, Start Num: 82

Candidate Starts for Murai_59:

(Start: 82 @36318 has 28 MA's), (90, 36351), (105, 36420), (106, 36423), (115, 36447), (125, 36471), (135, 36495), (141, 36528), (183, 36735), (186, 36747), (187, 36750), (215, 36897), (217, 36927), (222, 36951), (230, 36981), (231, 36984), (235, 37011), (237, 37035), (245, 37065), (258, 37122), (272, 37182), (274, 37194), (280, 37218), (281, 37221), (289, 37263), (309, 37359), (310, 37362), (361, 37617), (390, 37761), (401, 37821), (410, 37893), (411, 37896), (428, 37992), (460, 38166), (464, 38187), (482, 38280), (485, 38292), (494, 38382), (504, 38457), (514, 38502), (538, 38703), (543, 38757), (548, 38772),

Gene: Murica_25 Start: 22268, Stop: 24664, Start Num: 99

Candidate Starts for Murica_25:

(Start: 99 @22268 has 123 MA's), (152, 22445), (160, 22466), (199, 22613), (223, 22754), (229, 22787), (235, 22820), (240, 22856), (262, 22949), (276, 23009), (281, 23027), (307, 23159), (314, 23204), (339, 23336), (351, 23381), (363, 23441), (385, 23555), (390, 23576), (398, 23615), (401, 23636), (404, 23651), (430, 23801), (431, 23807), (433, 23825), (445, 23879), (460, 23963), (480, 24056), (510, 24302), (536, 24518), (545, 24602), (552, 24635),

Gene: Murphy_27 Start: 22263, Stop: 24659, Start Num: 99

Candidate Starts for Murphy_27:

(Start: 99 @22263 has 123 MA's), (152, 22440), (160, 22461), (199, 22608), (223, 22749), (229, 22782), (235, 22815), (240, 22851), (262, 22944), (276, 23004), (281, 23022), (307, 23154), (314, 23199), (339, 23331), (351, 23376), (363, 23436), (385, 23550), (390, 23571), (398, 23610), (401, 23631), (404, 23646), (430, 23796), (431, 23802), (433, 23820), (445, 23874), (460, 23958), (480, 24051), (510, 24297), (536, 24513), (545, 24597), (552, 24630),

Gene: Mutaforma13_18 Start: 17444, Stop: 19981, Start Num: 63

Candidate Starts for Mutaforma13_18:

(60, 17432), (Start: 63 @17444 has 221 MA's), (72, 17465), (Start: 86 @17486 has 1 MA's), (94, 17522), (95, 17525), (118, 17594), (124, 17603), (125, 17606), (131, 17624), (141, 17657), (144, 17672), (156, 17720), (177, 17825), (178, 17831), (179, 17834), (188, 17864), (193, 17876), (194, 17879), (212, 17981), (222, 18047), (230, 18092), (235, 18122), (236, 18128), (237, 18146), (244, 18170), (246, 18179), (254, 18212), (255, 18218), (269, 18269), (272, 18287), (274, 18299), (276, 18308), (280, 18323), (282, 18329), (303, 18437), (305, 18449), (306, 18455), (309, 18470), (310, 18473), (312, 18494), (319, 18524), (321, 18536), (325, 18569), (339, 18635), (351, 18680), (352, 18683), (357, 18710), (358, 18716), (367, 18770), (368, 18773), (371, 18800), (390, 18875), (392, 18887), (393, 18890), (405, 18956), (409, 18980), (413, 19010), (420, 19052), (423, 19070), (424, 19073), (431, 19109), (433, 19127), (440, 19148), (444, 19175), (457, 19244), (460, 19262), (462, 19271), (464, 19283), (473, 19319), (481, 19370), (484, 19388), (490, 19430), (494, 19484), (506,

19586), (523, 19721), (527, 19745), (532, 19799), (536, 19847), (542, 19889), (544, 19913), (545, 19916),

Gene: Myrale_26 Start: 22154, Stop: 24550, Start Num: 99

Candidate Starts for Myrale_26:

(Start: 99 @22154 has 123 MA's), (152, 22331), (160, 22352), (199, 22499), (223, 22640), (229, 22673), (235, 22706), (240, 22742), (262, 22835), (276, 22895), (281, 22913), (298, 22994), (339, 23222), (351, 23267), (390, 23462), (391, 23468), (393, 23477), (401, 23522), (404, 23537), (431, 23693), (433, 23711), (436, 23720), (446, 23774), (460, 23849), (461, 23852), (493, 24062), (495, 24074), (510, 24188), (536, 24404), (545, 24488), (550, 24512), (552, 24521),

Gene: Nala_26 Start: 22310, Stop: 24706, Start Num: 99

Candidate Starts for Nala_26:

(Start: 99 @22310 has 123 MA's), (152, 22487), (160, 22508), (199, 22655), (223, 22796), (229, 22829), (235, 22862), (240, 22898), (262, 22991), (276, 23051), (281, 23069), (307, 23201), (314, 23246), (339, 23378), (351, 23423), (363, 23483), (385, 23597), (390, 23618), (398, 23657), (401, 23678), (404, 23693), (430, 23843), (431, 23849), (433, 23867), (445, 23921), (460, 24005), (480, 24098), (510, 24344), (536, 24560), (545, 24644), (552, 24677),

Gene: Nebkiss_22 Start: 19932, Stop: 22502, Start Num: 56

Candidate Starts for Nebkiss_22:

(Start: 56 @19932 has 2 MA's), (76, 19989), (88, 20022), (114, 20100), (116, 20103), (136, 20157), (139, 20169), (150, 20217), (159, 20262), (175, 20334), (179, 20355), (185, 20376), (193, 20397), (194, 20400), (201, 20445), (217, 20544), (227, 20589), (236, 20634), (246, 20685), (251, 20703), (276, 20808), (278, 20814), (280, 20823), (281, 20826), (287, 20853), (291, 20874), (298, 20907), (299, 20916), (303, 20937), (305, 20949), (309, 20970), (319, 21024), (321, 21036), (325, 21069), (342, 21144), (349, 21171), (370, 21294), (379, 21321), (384, 21345), (390, 21375), (394, 21399), (402, 21441), (404, 21450), (421, 21579), (426, 21606), (437, 21657), (458, 21768), (460, 21783), (502, 22074), (523, 22242), (527, 22266), (542, 22410), (545, 22437), (547, 22443), (548, 22446),

Gene: NelitzaMV_26 Start: 22353, Stop: 24749, Start Num: 99

Candidate Starts for NelitzaMV_26:

(Start: 99 @22353 has 123 MA's), (152, 22530), (160, 22551), (199, 22698), (223, 22839), (229, 22872), (235, 22905), (240, 22941), (262, 23034), (276, 23094), (281, 23112), (311, 23268), (314, 23289), (336, 23409), (339, 23421), (351, 23466), (390, 23661), (393, 23676), (401, 23721), (404, 23736), (431, 23892), (433, 23910), (436, 23919), (460, 24048), (461, 24051), (493, 24261), (495, 24273), (510, 24387), (536, 24603), (545, 24687), (550, 24711), (552, 24720),

Gene: NiebruSaylor_57 Start: 35525, Stop: 38035, Start Num: 82

Candidate Starts for NiebruSaylor_57:

(Start: 82 @35525 has 28 MA's), (90, 35558), (105, 35627), (106, 35630), (115, 35654), (125, 35678), (135, 35702), (141, 35735), (183, 35942), (186, 35954), (187, 35957), (215, 36104), (217, 36134), (222, 36158), (230, 36188), (231, 36191), (235, 36218), (237, 36242), (245, 36272), (258, 36329), (263, 36353), (272, 36389), (274, 36401), (280, 36425), (281, 36428), (289, 36470), (309, 36566), (310, 36569), (361, 36824), (390, 36968), (401, 37028), (410, 37100), (411, 37103), (428, 37199), (460, 37373), (464, 37394), (482, 37487), (485, 37499), (494, 37589), (504, 37664), (514, 37709), (538, 37910), (543, 37964), (548, 37979),

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

Candidate Starts for Nilo_31:

(Start: 1 @24634 has 8 MA's), (4, 24646), (Start: 5 @24658 has 1 MA's), (8, 24841), (10, 24922), (14, 25021), (15, 25045), (16, 25063), (26, 25222), (29, 25255), (39, 25303), (44, 25342), (67, 25468), (Start: 71 @25477 has 2 MA's), (120, 25663), (166, 25864), (201, 26041), (217, 26140), (223, 26173),

(234, 26218), (236, 26230), (244, 26272), (247, 26284), (260, 26350), (276, 26434), (279, 26449), (285, 26479), (306, 26584), (316, 26635), (322, 26680), (331, 26725), (341, 26770), (347, 26791), (351, 26809), (352, 26812), (353, 26818), (354, 26821), (377, 26959), (388, 27007), (389, 27013), (404, 27094), (419, 27187), (427, 27247), (430, 27256), (431, 27262), (434, 27283), (465, 27448), (480, 27514), (481, 27526), (484, 27544), (486, 27550), (512, 27784), (516, 27823), (522, 27868), (526, 27898), (535, 27991), (539, 28018),

Gene: Nimbo_18 Start: 17400, Stop: 19937, Start Num: 63

Candidate Starts for Nimbo_18:

(Start: 63 @17400 has 221 MA's), (72, 17421), (Start: 86 @17442 has 1 MA's), (95, 17481), (118, 17550), (124, 17559), (125, 17562), (131, 17580), (144, 17628), (156, 17676), (178, 17787), (179, 17790), (194, 17835), (208, 17913), (212, 17937), (222, 18003), (235, 18078), (236, 18084), (237, 18102), (244, 18126), (246, 18135), (254, 18168), (255, 18174), (262, 18204), (269, 18225), (274, 18255), (276, 18264), (299, 18372), (301, 18384), (303, 18393), (304, 18396), (306, 18411), (309, 18426), (310, 18429), (312, 18450), (321, 18492), (325, 18525), (351, 18636), (352, 18639), (357, 18666), (358, 18672), (367, 18726), (368, 18729), (371, 18756), (390, 18831), (392, 18843), (393, 18846), (405, 18912), (408, 18933), (409, 18936), (411, 18957), (413, 18966), (420, 19008), (423, 19026), (424, 19029), (430, 19059), (433, 19083), (437, 19095), (440, 19104), (457, 19200), (460, 19218), (462, 19227), (464, 19239), (473, 19275), (477, 19305), (480, 19314), (481, 19326), (490, 19386), (494, 19440), (501, 19500), (506, 19542), (523, 19677), (527, 19701), (532, 19755), (536, 19803), (542, 19845), (544, 19869), (545, 19872),

Gene: Nimrod_26 Start: 22529, Stop: 24925, Start Num: 99

Candidate Starts for Nimrod_26:

(Start: 99 @22529 has 123 MA's), (152, 22706), (160, 22727), (199, 22874), (223, 23015), (229, 23048), (235, 23081), (240, 23117), (262, 23210), (276, 23270), (281, 23288), (307, 23420), (314, 23465), (339, 23597), (351, 23642), (363, 23702), (385, 23816), (390, 23837), (398, 23876), (401, 23897), (404, 23912), (430, 24062), (431, 24068), (433, 24086), (445, 24140), (460, 24224), (480, 24317), (510, 24563), (536, 24779), (545, 24863), (552, 24896),

Gene: Nitzel_19 Start: 18136, Stop: 20673, Start Num: 63

Candidate Starts for Nitzel_19:

(Start: 63 @18136 has 221 MA's), (72, 18157), (Start: 86 @18178 has 1 MA's), (95, 18217), (118, 18286), (124, 18295), (125, 18298), (131, 18316), (141, 18349), (144, 18364), (156, 18412), (177, 18517), (178, 18523), (179, 18526), (193, 18568), (194, 18571), (212, 18673), (222, 18739), (230, 18784), (235, 18814), (236, 18820), (237, 18838), (244, 18862), (246, 18871), (254, 18904), (255, 18910), (269, 18961), (272, 18979), (274, 18991), (276, 19000), (280, 19015), (282, 19021), (303, 19129), (305, 19141), (306, 19147), (309, 19162), (310, 19165), (312, 19186), (319, 19216), (321, 19228), (325, 19261), (339, 19327), (351, 19372), (352, 19375), (357, 19402), (358, 19408), (367, 19462), (368, 19465), (371, 19492), (390, 19567), (392, 19579), (393, 19582), (405, 19648), (409, 19672), (413, 19702), (420, 19744), (423, 19762), (424, 19765), (431, 19801), (433, 19819), (437, 19831), (440, 19840), (444, 19867), (457, 19936), (460, 19954), (462, 19963), (464, 19975), (473, 20011), (481, 20062), (484, 20080), (490, 20122), (494, 20176), (501, 20236), (506, 20278), (523, 20413), (527, 20437), (532, 20491), (536, 20539), (542, 20581), (544, 20605), (545, 20608),

Gene: Nivrat_18 Start: 17405, Stop: 19930, Start Num: 63

Candidate Starts for Nivrat_18:

(Start: 63 @17405 has 221 MA's), (95, 17486), (118, 17555), (124, 17564), (125, 17567), (131, 17585), (144, 17633), (155, 17678), (178, 17792), (179, 17795), (182, 17807), (189, 17828), (193, 17837), (194, 17840), (202, 17888), (208, 17918), (217, 17984), (223, 18017), (230, 18053), (234, 18077), (245, 18137), (246, 18140), (251, 18158), (267, 18221), (269, 18224), (272, 18242), (276, 18263), (281, 18281), (287, 18308), (291, 18329), (298, 18362), (306, 18410), (307, 18413), (309, 18425), (310, 18428), (313, 18455), (319, 18479), (325, 18524), (354, 18650), (358, 18674), (380, 18782),

(390, 18833), (392, 18845), (393, 18848), (401, 18893), (404, 18908), (408, 18935), (411, 18959), (420, 19010), (423, 19028), (424, 19031), (425, 19043), (437, 19097), (445, 19139), (474, 19283), (482, 19337), (483, 19343), (484, 19346), (488, 19382), (489, 19385), (491, 19394), (492, 19421), (518, 19622), (536, 19793), (541, 19832), (547, 19871), (548, 19874),

Gene: NoSleep_27 Start: 22023, Stop: 24419, Start Num: 99

Candidate Starts for NoSleep_27:

(Start: 99 @22023 has 123 MA's), (152, 22200), (160, 22221), (199, 22368), (229, 22542), (235, 22575), (240, 22611), (262, 22704), (276, 22764), (281, 22782), (307, 22914), (314, 22959), (339, 23091), (351, 23136), (363, 23196), (385, 23310), (390, 23331), (398, 23370), (401, 23391), (404, 23406), (430, 23556), (431, 23562), (433, 23580), (445, 23634), (460, 23718), (480, 23811), (510, 24057), (536, 24273), (545, 24357), (552, 24390),

Gene: NormanBulbieJr_18 Start: 17393, Stop: 19945, Start Num: 63

Candidate Starts for NormanBulbieJr_18:

(Start: 63 @17393 has 221 MA's), (95, 17474), (118, 17543), (124, 17552), (125, 17555), (131, 17573), (144, 17621), (155, 17666), (178, 17780), (179, 17783), (182, 17795), (189, 17816), (193, 17825), (194, 17828), (202, 17876), (208, 17906), (217, 17972), (223, 18005), (230, 18041), (234, 18065), (245, 18125), (246, 18128), (251, 18146), (267, 18209), (269, 18212), (272, 18230), (276, 18251), (281, 18269), (287, 18296), (291, 18317), (298, 18350), (305, 18392), (306, 18398), (307, 18401), (310, 18416), (313, 18443), (314, 18446), (319, 18467), (321, 18479), (325, 18512), (347, 18605), (367, 18713), (370, 18737), (371, 18743), (378, 18761), (379, 18764), (384, 18788), (390, 18818), (394, 18842), (401, 18878), (402, 18884), (404, 18893), (408, 18920), (417, 18983), (420, 19007), (421, 19022), (430, 19064), (441, 19115), (458, 19211), (460, 19226), (462, 19235), (468, 19259), (480, 19322), (486, 19358), (521, 19664), (527, 19709), (536, 19811),

Gene: Nova_30 Start: 24743, Stop: 27013, Start Num: 23

Candidate Starts for Nova_30:

(Start: 23 @24743 has 22 MA's), (34, 24878), (35, 24887), (Start: 71 @25061 has 2 MA's), (73, 25067), (76, 25079), (123, 25232), (127, 25247), (133, 25262), (158, 25376), (211, 25643), (213, 25649), (218, 25694), (234, 25781), (278, 25982), (279, 25988), (289, 26036), (297, 26066), (301, 26090), (337, 26279), (346, 26306), (357, 26354), (369, 26426), (375, 26465), (381, 26486), (383, 26501), (386, 26519), (395, 26549), (441, 26834), (447, 26876), (472, 27002),

Gene: Oaker_29 Start: 25939, Stop: 28782, Start Num: 25

Candidate Starts for Oaker_29:

(Start: 25 @25939 has 8 MA's), (44, 26071), (46, 26083), (48, 26092), (59, 26161), (62, 26167), (87, 26227), (89, 26248), (103, 26296), (111, 26338), (122, 26362), (134, 26395), (143, 26431), (145, 26443), (167, 26536), (179, 26593), (189, 26632), (223, 26827), (228, 26857), (236, 26899), (246, 26950), (269, 27040), (272, 27058), (289, 27139), (298, 27178), (301, 27199), (325, 27337), (333, 27376), (349, 27439), (368, 27541), (410, 27766), (478, 28129), (482, 28156), (517, 28399), (521, 28432), (524, 28456), (536, 28576), (546, 28654), (555, 28741), (556, 28756), (557, 28762),

Gene: Ochi17_18 Start: 17634, Stop: 20171, Start Num: 63

Candidate Starts for Ochi17_18:

(Start: 63 @17634 has 221 MA's), (72, 17655), (Start: 86 @17676 has 1 MA's), (95, 17715), (118, 17784), (124, 17793), (125, 17796), (131, 17814), (144, 17862), (178, 18021), (179, 18024), (193, 18066), (194, 18069), (208, 18147), (211, 18168), (212, 18171), (222, 18237), (223, 18246), (230, 18282), (235, 18312), (236, 18318), (244, 18360), (245, 18366), (246, 18369), (254, 18402), (255, 18408), (262, 18438), (269, 18459), (274, 18489), (276, 18498), (299, 18606), (301, 18618), (303, 18627), (304, 18630), (305, 18639), (306, 18645), (309, 18660), (310, 18663), (312, 18684), (321, 18726), (325, 18759), (357, 18900), (358, 18906), (367, 18960), (368, 18963), (371, 18990), (390, 19065), (392, 19077), (393, 19080), (405, 19146), (408, 19167), (409, 19170), (411, 19191), (420,

19242), (423, 19260), (424, 19263), (430, 19293), (433, 19317), (437, 19329), (457, 19434), (460, 19452), (462, 19461), (464, 19473), (473, 19509), (477, 19539), (481, 19560), (486, 19584), (490, 19620), (501, 19734), (506, 19776), (515, 19854), (523, 19911), (527, 19935), (532, 19989), (536, 20037), (542, 20079), (544, 20103), (545, 20106),

Gene: OfUltron_18 Start: 17634, Stop: 20171, Start Num: 63

Candidate Starts for OfUltron_18:

(Start: 63 @17634 has 221 MA's), (72, 17655), (Start: 86 @17676 has 1 MA's), (95, 17715), (118, 17784), (124, 17793), (125, 17796), (131, 17814), (144, 17862), (178, 18021), (179, 18024), (193, 18066), (194, 18069), (208, 18147), (211, 18168), (212, 18171), (222, 18237), (223, 18246), (230, 18282), (235, 18312), (236, 18318), (244, 18360), (245, 18366), (246, 18369), (254, 18402), (255, 18408), (262, 18438), (269, 18459), (274, 18489), (276, 18498), (299, 18606), (301, 18618), (303, 18627), (304, 18630), (305, 18639), (306, 18645), (309, 18660), (310, 18663), (312, 18684), (321, 18726), (325, 18759), (357, 18900), (358, 18906), (367, 18960), (368, 18963), (371, 18990), (390, 19065), (392, 19077), (393, 19080), (405, 19146), (408, 19167), (409, 19170), (411, 19191), (420, 19242), (423, 19260), (424, 19263), (430, 19293), (433, 19317), (437, 19329), (457, 19434), (460, 19452), (462, 19461), (464, 19473), (473, 19509), (477, 19539), (481, 19560), (486, 19584), (490, 19620), (501, 19734), (506, 19776), (515, 19854), (523, 19911), (527, 19935), (532, 19989), (536, 20037), (542, 20079), (544, 20103), (545, 20106),

Gene: Ogopogo_21 Start: 17660, Stop: 20149, Start Num: 63

Candidate Starts for Ogopogo_21:

(Start: 63 @17660 has 221 MA's), (72, 17681), (Start: 86 @17702 has 1 MA's), (96, 17741), (118, 17810), (124, 17819), (125, 17822), (131, 17840), (144, 17888), (159, 17936), (172, 17990), (179, 18026), (180, 18032), (181, 18035), (189, 18053), (197, 18077), (201, 18101), (214, 18164), (227, 18248), (230, 18257), (235, 18281), (237, 18305), (244, 18329), (245, 18335), (251, 18356), (255, 18377), (262, 18407), (270, 18437), (274, 18458), (295, 18551), (298, 18566), (299, 18575), (303, 18596), (304, 18599), (319, 18683), (320, 18686), (321, 18695), (324, 18722), (326, 18731), (334, 18770), (337, 18791), (339, 18794), (349, 18830), (354, 18851), (367, 18929), (368, 18932), (382, 18986), (392, 19046), (409, 19139), (410, 19157), (411, 19160), (419, 19196), (427, 19250), (430, 19259), (443, 19337), (446, 19355), (450, 19391), (452, 19394), (457, 19412), (458, 19415), (460, 19430), (464, 19451), (473, 19487), (475, 19499), (486, 19562), (490, 19595), (497, 19682), (503, 19730), (505, 19754), (509, 19781), (510, 19790), (514, 19829), (520, 19868), (523, 19892), (526, 19913), (536, 20009), (539, 20030), (548, 20093), (552, 20120), (553, 20129),

Gene: Oksu_19 Start: 17479, Stop: 20016, Start Num: 63

Candidate Starts for Oksu_19:

(Start: 63 @17479 has 221 MA's), (72, 17500), (Start: 86 @17521 has 1 MA's), (95, 17560), (118, 17629), (124, 17638), (125, 17641), (131, 17659), (144, 17707), (177, 17860), (179, 17869), (194, 17914), (211, 18013), (212, 18016), (222, 18082), (235, 18157), (236, 18163), (237, 18181), (244, 18205), (245, 18211), (246, 18214), (254, 18247), (255, 18253), (262, 18283), (269, 18304), (274, 18334), (276, 18343), (280, 18358), (281, 18361), (303, 18472), (304, 18475), (305, 18484), (306, 18490), (309, 18505), (310, 18508), (312, 18529), (321, 18571), (325, 18604), (357, 18745), (358, 18751), (367, 18805), (368, 18808), (371, 18835), (390, 18910), (392, 18922), (393, 18925), (405, 18991), (408, 19012), (409, 19015), (411, 19036), (420, 19087), (423, 19105), (424, 19108), (430, 19138), (433, 19162), (437, 19174), (457, 19279), (460, 19297), (462, 19306), (464, 19318), (473, 19354), (477, 19384), (481, 19405), (486, 19429), (490, 19465), (501, 19579), (506, 19621), (515, 19699), (523, 19756), (527, 19780), (532, 19834), (536, 19882), (542, 19924), (544, 19948), (545, 19951),

Gene: OldBen_18 Start: 17370, Stop: 19907, Start Num: 63

Candidate Starts for OldBen_18:

(60, 17358), (Start: 63 @17370 has 221 MA's), (72, 17391), (Start: 86 @17412 has 1 MA's), (95, 17451), (118, 17520), (124, 17529), (125, 17532), (131, 17550), (144, 17598), (156, 17646), (178, 17757), (179, 17760), (194, 17805), (208, 17883), (212, 17907), (222, 17973), (230, 18018), (235, 18048), (236, 18054), (237, 18072), (244, 18096), (246, 18105), (254, 18138), (255, 18144), (262, 18174), (272, 18213), (274, 18225), (276, 18234), (280, 18249), (281, 18252), (303, 18363), (304, 18366), (305, 18375), (306, 18381), (309, 18396), (310, 18399), (312, 18420), (319, 18450), (321, 18462), (325, 18495), (351, 18606), (352, 18609), (357, 18636), (358, 18642), (367, 18696), (368, 18699), (390, 18801), (392, 18813), (393, 18816), (405, 18882), (409, 18906), (411, 18927), (413, 18936), (423, 18996), (424, 18999), (431, 19035), (433, 19053), (440, 19074), (444, 19101), (457, 19170), (460, 19188), (462, 19197), (464, 19209), (473, 19245), (481, 19296), (484, 19314), (490, 19356), (494, 19410), (506, 19512), (523, 19647), (527, 19671), (532, 19725), (539, 19794), (544, 19839), (545, 19842),

Gene: OlympiaSaint_18 Start: 17593, Stop: 20145, Start Num: 63

Candidate Starts for OlympiaSaint_18:

(Start: 63 @17593 has 221 MA's), (95, 17674), (118, 17743), (124, 17752), (125, 17755), (131, 17773), (144, 17821), (155, 17866), (178, 17980), (179, 17983), (182, 17995), (189, 18016), (193, 18025), (194, 18028), (202, 18076), (208, 18106), (217, 18172), (223, 18205), (230, 18241), (234, 18265), (245, 18325), (246, 18328), (251, 18346), (267, 18409), (269, 18412), (272, 18430), (276, 18451), (281, 18469), (287, 18496), (291, 18517), (298, 18550), (305, 18592), (306, 18598), (307, 18601), (310, 18616), (313, 18643), (314, 18646), (319, 18667), (321, 18679), (325, 18712), (347, 18805), (367, 18913), (370, 18937), (371, 18943), (378, 18961), (379, 18964), (384, 18988), (390, 19018), (394, 19042), (401, 19078), (402, 19084), (404, 19093), (408, 19120), (417, 19183), (420, 19207), (421, 19222), (430, 19264), (441, 19315), (458, 19411), (460, 19426), (462, 19435), (468, 19459), (480, 19522), (486, 19558), (521, 19864), (527, 19909), (536, 20011),

Gene: Omega_38 Start: 31431, Stop: 33986, Start Num: 63

Candidate Starts for Omega_38:

(Start: 63 @31431 has 221 MA's), (131, 31626), (141, 31662), (144, 31677), (156, 31725), (178, 31836), (179, 31839), (188, 31869), (194, 31884), (208, 31962), (212, 31986), (222, 32052), (230, 32097), (235, 32127), (236, 32133), (237, 32151), (244, 32175), (246, 32184), (254, 32217), (255, 32223), (262, 32253), (272, 32292), (274, 32304), (276, 32313), (280, 32328), (281, 32331), (303, 32442), (304, 32445), (305, 32454), (306, 32460), (309, 32475), (310, 32478), (312, 32499), (319, 32529), (321, 32541), (325, 32574), (339, 32640), (351, 32685), (352, 32688), (357, 32715), (358, 32721), (367, 32775), (368, 32778), (387, 32865), (390, 32880), (392, 32892), (393, 32895), (405, 32961), (411, 33006), (413, 33015), (423, 33075), (424, 33078), (431, 33114), (433, 33132), (437, 33144), (440, 33153), (444, 33180), (457, 33249), (460, 33267), (462, 33276), (464, 33288), (473, 33324), (477, 33354), (481, 33375), (486, 33399), (490, 33435), (494, 33489), (501, 33549), (506, 33591), (523, 33726), (527, 33750), (532, 33804), (536, 33852), (542, 33894), (544, 33918), (545, 33921),

Gene: Optimus_37 Start: 30775, Stop: 33330, Start Num: 63

Candidate Starts for Optimus_37:

(53, 30718), (Start: 63 @30775 has 221 MA's), (131, 30970), (141, 31006), (144, 31021), (156, 31069), (177, 31174), (179, 31183), (194, 31228), (211, 31327), (212, 31330), (222, 31396), (235, 31471), (236, 31477), (237, 31495), (244, 31519), (246, 31528), (254, 31561), (255, 31567), (262, 31597), (272, 31636), (274, 31648), (276, 31657), (303, 31786), (304, 31789), (305, 31798), (306, 31804), (309, 31819), (310, 31822), (312, 31843), (319, 31873), (321, 31885), (325, 31918), (351, 32029), (352, 32032), (357, 32059), (358, 32065), (367, 32119), (368, 32122), (390, 32224), (392, 32236), (393, 32239), (405, 32305), (409, 32329), (411, 32350), (420, 32401), (423, 32419), (424, 32422), (430, 32452), (433, 32476), (437, 32488), (440, 32497), (457, 32593), (460, 32611), (462, 32620), (464, 32632), (477, 32698), (480, 32707), (481, 32719), (490, 32779), (506, 32935), (523, 33070), (527, 33094), (532, 33148), (539, 33217), (544, 33262), (545, 33265),

Gene: OrionPax_27 Start: 22029, Stop: 24425, Start Num: 99

Candidate Starts for OrionPax_27:

(Start: 99 @22029 has 123 MA's), (152, 22206), (160, 22227), (199, 22374), (229, 22548), (235, 22581), (240, 22617), (262, 22710), (276, 22770), (281, 22788), (307, 22920), (314, 22965), (339, 23097), (351, 23142), (363, 23202), (385, 23316), (390, 23337), (398, 23376), (401, 23397), (404, 23412), (430, 23562), (431, 23568), (433, 23586), (445, 23640), (460, 23724), (480, 23817), (510, 24063), (536, 24279), (545, 24363), (552, 24396),

Gene: Ovechkin_18 Start: 17427, Stop: 19964, Start Num: 63

Candidate Starts for Ovechkin_18:

(Start: 63 @17427 has 221 MA's), (72, 17448), (Start: 86 @17469 has 1 MA's), (94, 17505), (95, 17508), (118, 17577), (124, 17586), (125, 17589), (131, 17607), (141, 17640), (144, 17655), (156, 17703), (178, 17814), (179, 17817), (188, 17847), (193, 17859), (194, 17862), (208, 17940), (212, 17964), (222, 18030), (230, 18075), (235, 18105), (236, 18111), (237, 18129), (244, 18153), (246, 18162), (254, 18195), (255, 18201), (262, 18231), (272, 18270), (274, 18282), (276, 18291), (280, 18306), (281, 18309), (303, 18420), (304, 18423), (305, 18432), (306, 18438), (309, 18453), (310, 18456), (312, 18477), (319, 18507), (321, 18519), (325, 18552), (351, 18663), (352, 18666), (357, 18693), (358, 18699), (367, 18753), (368, 18756), (390, 18858), (392, 18870), (393, 18873), (405, 18939), (409, 18963), (411, 18984), (413, 18993), (423, 19053), (424, 19056), (431, 19092), (433, 19110), (437, 19122), (440, 19131), (444, 19158), (457, 19227), (460, 19245), (462, 19254), (464, 19266), (473, 19302), (477, 19332), (481, 19353), (486, 19377), (490, 19413), (494, 19467), (501, 19527), (506, 19569), (515, 19647), (523, 19704), (527, 19728), (532, 19782), (536, 19830), (542, 19872), (544, 19896), (545, 19899),

Gene: OwlsT2W_20 Start: 17765, Stop: 20317, Start Num: 63

Candidate Starts for OwlsT2W_20:

(Start: 63 @17765 has 221 MA's), (102, 17855), (118, 17915), (124, 17924), (125, 17927), (131, 17945), (144, 17993), (155, 18038), (178, 18152), (179, 18155), (182, 18167), (189, 18188), (193, 18197), (194, 18200), (208, 18278), (217, 18344), (223, 18377), (230, 18413), (234, 18437), (245, 18497), (246, 18500), (251, 18518), (267, 18581), (269, 18584), (272, 18602), (276, 18623), (281, 18641), (287, 18668), (291, 18689), (298, 18722), (305, 18764), (306, 18770), (307, 18773), (310, 18788), (313, 18815), (314, 18818), (319, 18839), (321, 18851), (325, 18884), (347, 18977), (367, 19085), (370, 19109), (371, 19115), (378, 19133), (379, 19136), (384, 19160), (390, 19190), (394, 19214), (401, 19250), (402, 19256), (404, 19265), (408, 19292), (417, 19355), (420, 19379), (421, 19394), (430, 19436), (441, 19487), (458, 19583), (460, 19598), (462, 19607), (468, 19631), (480, 19694), (486, 19730), (521, 20036), (527, 20081), (536, 20183),

Gene: PBI1_30 Start: 24247, Stop: 26517, Start Num: 23

Candidate Starts for PBI1_30:

(Start: 23 @24247 has 22 MA's), (34, 24382), (35, 24391), (Start: 71 @24565 has 2 MA's), (73, 24571), (76, 24583), (123, 24736), (127, 24751), (133, 24766), (211, 25147), (213, 25153), (218, 25198), (234, 25285), (278, 25486), (279, 25492), (289, 25540), (297, 25570), (301, 25594), (337, 25783), (346, 25810), (357, 25858), (369, 25930), (375, 25969), (381, 25990), (383, 26005), (386, 26023), (395, 26053), (408, 26137), (441, 26338), (447, 26380), (472, 26506),

Gene: PHappiness_18 Start: 17378, Stop: 19915, Start Num: 63

Candidate Starts for PHappiness_18:

(60, 17366), (Start: 63 @17378 has 221 MA's), (72, 17399), (Start: 86 @17420 has 1 MA's), (95, 17459), (118, 17528), (124, 17537), (125, 17540), (131, 17558), (144, 17606), (156, 17654), (178, 17765), (179, 17768), (194, 17813), (208, 17891), (212, 17915), (222, 17981), (230, 18026), (235, 18056), (236, 18062), (237, 18080), (244, 18104), (246, 18113), (254, 18146), (255, 18152), (262, 18182), (272, 18221), (274, 18233), (276, 18242), (280, 18257), (281, 18260), (303, 18371), (304,

18374), (305, 18383), (306, 18389), (309, 18404), (310, 18407), (312, 18428), (319, 18458), (321, 18470), (325, 18503), (351, 18614), (352, 18617), (357, 18644), (358, 18650), (367, 18704), (368, 18707), (390, 18809), (392, 18821), (393, 18824), (405, 18890), (409, 18914), (411, 18935), (413, 18944), (423, 19004), (424, 19007), (431, 19043), (433, 19061), (440, 19082), (444, 19109), (457, 19178), (460, 19196), (462, 19205), (464, 19217), (473, 19253), (481, 19304), (484, 19322), (490, 19364), (494, 19418), (506, 19520), (523, 19655), (527, 19679), (532, 19733), (539, 19802), (544, 19847), (545, 19850),

Gene: PLOT_31 Start: 24319, Stop: 26589, Start Num: 23

Candidate Starts for PLOT_31:

(Start: 23 @24319 has 22 MA's), (34, 24454), (35, 24463), (Start: 71 @24637 has 2 MA's), (73, 24643), (76, 24655), (123, 24808), (127, 24823), (133, 24838), (211, 25219), (213, 25225), (218, 25270), (234, 25357), (278, 25558), (279, 25564), (289, 25612), (297, 25642), (301, 25666), (337, 25855), (346, 25882), (357, 25930), (369, 26002), (375, 26041), (381, 26062), (383, 26077), (386, 26095), (395, 26125), (408, 26209), (441, 26410), (447, 26452), (472, 26578),

Gene: PMC_18 Start: 17383, Stop: 19920, Start Num: 63

Candidate Starts for PMC_18:

(Start: 63 @17383 has 221 MA's), (102, 17473), (118, 17533), (124, 17542), (125, 17545), (131, 17563), (144, 17611), (156, 17659), (177, 17764), (178, 17770), (179, 17773), (193, 17815), (194, 17818), (212, 17920), (222, 17986), (230, 18031), (235, 18061), (236, 18067), (237, 18085), (244, 18109), (246, 18118), (254, 18151), (255, 18157), (269, 18208), (272, 18226), (274, 18238), (276, 18247), (280, 18262), (282, 18268), (303, 18376), (305, 18388), (306, 18394), (309, 18409), (310, 18412), (312, 18433), (319, 18463), (321, 18475), (325, 18508), (339, 18574), (351, 18619), (352, 18622), (357, 18649), (358, 18655), (367, 18709), (368, 18712), (371, 18739), (390, 18814), (392, 18826), (393, 18829), (405, 18895), (408, 18916), (409, 18919), (413, 18949), (420, 18991), (423, 19009), (424, 19012), (430, 19042), (433, 19066), (437, 19078), (440, 19087), (457, 19183), (460, 19201), (462, 19210), (464, 19222), (477, 19288), (480, 19297), (481, 19309), (490, 19369), (506, 19525), (523, 19660), (527, 19684), (532, 19738), (539, 19807), (544, 19852), (545, 19855),

Gene: Pacc40_18 Start: 17568, Stop: 20105, Start Num: 63

Candidate Starts for Pacc40_18:

(60, 17556), (Start: 63 @17568 has 221 MA's), (72, 17589), (Start: 86 @17610 has 1 MA's), (95, 17649), (118, 17718), (124, 17727), (125, 17730), (131, 17748), (144, 17796), (156, 17844), (178, 17955), (179, 17958), (194, 18003), (208, 18081), (212, 18105), (222, 18171), (230, 18216), (235, 18246), (236, 18252), (237, 18270), (244, 18294), (246, 18303), (254, 18336), (255, 18342), (262, 18372), (272, 18411), (274, 18423), (276, 18432), (280, 18447), (281, 18450), (303, 18561), (304, 18564), (305, 18573), (306, 18579), (309, 18594), (310, 18597), (312, 18618), (319, 18648), (321, 18660), (325, 18693), (351, 18804), (352, 18807), (357, 18834), (358, 18840), (367, 18894), (368, 18897), (390, 18999), (392, 19011), (393, 19014), (405, 19080), (409, 19104), (411, 19125), (413, 19134), (423, 19194), (424, 19197), (431, 19233), (433, 19251), (440, 19272), (444, 19299), (457, 19368), (460, 19386), (462, 19395), (464, 19407), (473, 19443), (481, 19494), (484, 19512), (490, 19554), (494, 19608), (506, 19710), (523, 19845), (527, 19869), (532, 19923), (539, 19992), (544, 20037), (545, 20040),

Gene: Palpatine_26 Start: 22301, Stop: 24697, Start Num: 99

Candidate Starts for Palpatine_26:

(Start: 99 @22301 has 123 MA's), (152, 22478), (160, 22499), (199, 22646), (223, 22787), (229, 22820), (235, 22853), (240, 22889), (262, 22982), (276, 23042), (281, 23060), (307, 23192), (314, 23237), (339, 23369), (351, 23414), (363, 23474), (385, 23588), (390, 23609), (398, 23648), (401, 23669), (404, 23684), (430, 23834), (431, 23840), (433, 23858), (445, 23912), (460, 23996), (480, 24089), (510, 24335), (536, 24551), (545, 24635), (552, 24668),

Gene: Paperbeatsrock_28 Start: 23264, Stop: 25660, Start Num: 99

Candidate Starts for Paperbeatsrock_28:

(Start: 99 @23264 has 123 MA's), (152, 23441), (160, 23462), (199, 23609), (223, 23750), (229, 23783), (235, 23816), (240, 23852), (262, 23945), (276, 24005), (281, 24023), (307, 24155), (314, 24200), (339, 24332), (351, 24377), (363, 24437), (385, 24551), (390, 24572), (398, 24611), (401, 24632), (404, 24647), (430, 24797), (431, 24803), (433, 24821), (445, 24875), (460, 24959), (480, 25052), (510, 25298), (536, 25514), (545, 25598), (552, 25631),

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

Candidate Starts for Papyrus_30:

(Start: 1 @24299 has 8 MA's), (4, 24311), (Start: 5 @24323 has 1 MA's), (8, 24506), (10, 24587), (14, 24686), (15, 24710), (16, 24728), (26, 24887), (29, 24920), (39, 24968), (44, 25007), (67, 25133), (Start: 71 @25142 has 2 MA's), (120, 25328), (166, 25529), (201, 25706), (217, 25805), (223, 25838), (234, 25883), (246, 25946), (260, 26015), (275, 26093), (276, 26099), (285, 26144), (287, 26147), (303, 26231), (354, 26486), (361, 26525), (388, 26672), (389, 26678), (419, 26852), (424, 26885), (427, 26906), (430, 26915), (434, 26942), (481, 27185), (497, 27329), (522, 27527), (526, 27557), (532, 27614), (535, 27650), (539, 27677), (540, 27689),

Gene: Pat3_25 Start: 21010, Stop: 23406, Start Num: 99

Candidate Starts for Pat3_25:

(Start: 99 @21010 has 123 MA's), (152, 21187), (160, 21208), (199, 21355), (223, 21496), (229, 21529), (235, 21562), (240, 21598), (262, 21691), (276, 21751), (281, 21769), (307, 21901), (314, 21946), (339, 22078), (351, 22123), (385, 22297), (390, 22318), (398, 22357), (401, 22378), (404, 22393), (431, 22549), (433, 22567), (445, 22621), (460, 22705), (508, 23029), (536, 23260), (545, 23344), (552, 23377),

Gene: Penelope2018_30 Start: 24316, Stop: 26586, Start Num: 23

Candidate Starts for Penelope2018_30:

(Start: 23 @24316 has 22 MA's), (34, 24451), (35, 24460), (Start: 71 @24634 has 2 MA's), (73, 24640), (76, 24652), (123, 24805), (127, 24820), (133, 24835), (211, 25216), (213, 25222), (218, 25267), (234, 25354), (279, 25561), (289, 25609), (297, 25639), (301, 25663), (337, 25852), (346, 25879), (357, 25927), (369, 25999), (375, 26038), (381, 26059), (383, 26074), (386, 26092), (395, 26122), (408, 26206), (441, 26407), (447, 26449), (472, 26575),

Gene: Petra64142_28 Start: 22744, Stop: 25140, Start Num: 99

Candidate Starts for Petra64142_28:

(Start: 99 @22744 has 123 MA's), (152, 22921), (160, 22942), (199, 23089), (223, 23230), (229, 23263), (235, 23296), (240, 23332), (262, 23425), (276, 23485), (281, 23503), (307, 23635), (314, 23680), (339, 23812), (351, 23857), (363, 23917), (385, 24031), (390, 24052), (398, 24091), (401, 24112), (404, 24127), (430, 24277), (431, 24283), (433, 24301), (445, 24355), (460, 24439), (480, 24532), (510, 24778), (536, 24994), (545, 25078), (552, 25111),

Gene: Phaja_26 Start: 22460, Stop: 24856, Start Num: 99

Candidate Starts for Phaja_26:

(Start: 99 @22460 has 123 MA's), (152, 22637), (160, 22658), (199, 22805), (223, 22946), (229, 22979), (235, 23012), (240, 23048), (262, 23141), (276, 23201), (281, 23219), (311, 23375), (314, 23396), (336, 23516), (339, 23528), (351, 23573), (390, 23768), (391, 23774), (393, 23783), (401, 23828), (404, 23843), (431, 23999), (433, 24017), (436, 24026), (446, 24080), (460, 24155), (461, 24158), (493, 24368), (495, 24380), (510, 24494), (536, 24710), (545, 24794), (550, 24818), (552, 24827),

Gene: Phalconet_18 Start: 17448, Stop: 19979, Start Num: 63

Candidate Starts for Phalconet_18:

(60, 17436), (Start: 63 @17448 has 221 MA's), (72, 17469), (Start: 86 @17490 has 1 MA's), (95, 17529), (118, 17598), (124, 17607), (125, 17610), (141, 17661), (144, 17676), (156, 17718), (178, 17829), (179, 17832), (188, 17862), (194, 17877), (208, 17955), (222, 18045), (230, 18090), (235, 18120), (236, 18126), (237, 18144), (244, 18168), (246, 18177), (254, 18210), (255, 18216), (262, 18246), (272, 18285), (274, 18297), (276, 18306), (280, 18321), (281, 18324), (303, 18435), (304, 18438), (305, 18447), (306, 18453), (309, 18468), (310, 18471), (312, 18492), (319, 18522), (321, 18534), (325, 18567), (339, 18633), (351, 18678), (352, 18681), (357, 18708), (358, 18714), (367, 18768), (368, 18771), (387, 18858), (390, 18873), (392, 18885), (393, 18888), (405, 18954), (411, 18999), (413, 19008), (423, 19068), (424, 19071), (431, 19107), (433, 19125), (437, 19137), (440, 19146), (444, 19173), (457, 19242), (460, 19260), (462, 19269), (464, 19281), (473, 19317), (477, 19347), (481, 19368), (486, 19392), (490, 19428), (494, 19482), (501, 19542), (506, 19584), (515, 19662), (523, 19719), (527, 19743), (532, 19797), (536, 19845), (542, 19887), (544, 19911), (545, 19914),

Gene: Phanphagia_18 Start: 17450, Stop: 19927, Start Num: 63

Candidate Starts for Phanphagia_18:

(61, 17438), (Start: 63 @17450 has 221 MA's), (72, 17471), (Start: 86 @17492 has 1 MA's), (96, 17531), (118, 17600), (124, 17609), (125, 17612), (131, 17630), (141, 17663), (144, 17678), (168, 17765), (172, 17780), (179, 17816), (180, 17822), (194, 17855), (197, 17867), (227, 18038), (230, 18047), (235, 18071), (245, 18125), (254, 18161), (255, 18167), (262, 18197), (270, 18227), (274, 18248), (276, 18257), (295, 18341), (306, 18404), (310, 18422), (311, 18431), (314, 18452), (315, 18455), (319, 18473), (321, 18485), (324, 18512), (326, 18521), (336, 18572), (337, 18581), (339, 18584), (347, 18611), (349, 18620), (354, 18641), (367, 18719), (368, 18722), (391, 18830), (392, 18836), (401, 18884), (408, 18926), (409, 18929), (411, 18950), (412, 18956), (413, 18959), (419, 18989), (443, 19130), (446, 19148), (449, 19181), (457, 19205), (458, 19208), (460, 19223), (464, 19244), (473, 19280), (474, 19286), (478, 19313), (482, 19340), (497, 19475), (503, 19523), (505, 19547), (507, 19553), (510, 19571), (523, 19670), (526, 19691), (528, 19709), (536, 19787), (539, 19808), (548, 19871), (550, 19889), (553, 19907),

Gene: Pharsalus_27 Start: 23064, Stop: 25460, Start Num: 99

Candidate Starts for Pharsalus_27:

(Start: 99 @23064 has 123 MA's), (152, 23241), (160, 23262), (199, 23409), (223, 23550), (229, 23583), (235, 23616), (240, 23652), (262, 23745), (276, 23805), (281, 23823), (307, 23955), (314, 24000), (339, 24132), (351, 24177), (363, 24237), (385, 24351), (390, 24372), (398, 24411), (401, 24432), (404, 24447), (430, 24597), (431, 24603), (433, 24621), (445, 24675), (460, 24759), (480, 24852), (510, 25098), (536, 25314), (545, 25398), (552, 25431),

Gene: Phasih_19 Start: 17939, Stop: 20476, Start Num: 63

Candidate Starts for Phasih_19:

(Start: 63 @17939 has 221 MA's), (72, 17960), (Start: 86 @17981 has 1 MA's), (95, 18020), (118, 18089), (124, 18098), (125, 18101), (131, 18119), (141, 18152), (144, 18167), (177, 18320), (179, 18329), (194, 18374), (211, 18473), (212, 18476), (222, 18542), (235, 18617), (236, 18623), (244, 18665), (245, 18671), (246, 18674), (254, 18707), (255, 18713), (262, 18743), (269, 18764), (274, 18794), (276, 18803), (280, 18818), (281, 18821), (303, 18932), (304, 18935), (305, 18944), (306, 18950), (309, 18965), (310, 18968), (312, 18989), (319, 19019), (321, 19031), (325, 19064), (351, 19175), (352, 19178), (357, 19205), (358, 19211), (367, 19265), (368, 19268), (387, 19355), (390, 19370), (392, 19382), (393, 19385), (405, 19451), (409, 19475), (411, 19496), (413, 19505), (420, 19547), (423, 19565), (424, 19568), (430, 19598), (433, 19622), (437, 19634), (440, 19643), (457, 19739), (460, 19757), (462, 19766), (464, 19778), (473, 19814), (477, 19844), (480, 19853), (481, 19865), (490, 19925), (494, 19979), (501, 20039), (506, 20081), (523, 20216), (527, 20240), (532, 20294), (536, 20342), (542, 20384), (544, 20408), (545, 20411),

Gene: PhatBacter_26 Start: 22312, Stop: 24708, Start Num: 99

Candidate Starts for PhatBacter_26:

(Start: 99 @22312 has 123 MA's), (152, 22489), (160, 22510), (199, 22657), (223, 22798), (229, 22831), (235, 22864), (240, 22900), (262, 22993), (276, 23053), (281, 23071), (307, 23203), (314, 23248), (339, 23380), (351, 23425), (363, 23485), (385, 23599), (390, 23620), (398, 23659), (401, 23680), (404, 23695), (430, 23845), (431, 23851), (433, 23869), (445, 23923), (460, 24007), (480, 24100), (510, 24346), (536, 24562), (545, 24646), (552, 24679),

Gene: Phatniss_19 Start: 17901, Stop: 20438, Start Num: 63

Candidate Starts for Phatniss_19:

(60, 17889), (Start: 63 @17901 has 221 MA's), (72, 17922), (Start: 86 @17943 has 1 MA's), (95, 17982), (118, 18051), (124, 18060), (125, 18063), (131, 18081), (141, 18114), (144, 18129), (156, 18177), (177, 18282), (179, 18291), (193, 18333), (194, 18336), (208, 18414), (212, 18438), (222, 18504), (230, 18549), (235, 18579), (236, 18585), (237, 18603), (244, 18627), (246, 18636), (254, 18669), (255, 18675), (262, 18705), (272, 18744), (274, 18756), (276, 18765), (280, 18780), (281, 18783), (303, 18894), (305, 18906), (306, 18912), (309, 18927), (310, 18930), (312, 18951), (319, 18981), (321, 18993), (325, 19026), (339, 19092), (351, 19137), (352, 19140), (357, 19167), (358, 19173), (367, 19227), (368, 19230), (371, 19257), (390, 19332), (392, 19344), (393, 19347), (405, 19413), (409, 19437), (413, 19467), (420, 19509), (423, 19527), (424, 19530), (431, 19566), (433, 19584), (440, 19605), (444, 19632), (457, 19701), (460, 19719), (462, 19728), (464, 19740), (473, 19776), (477, 19806), (480, 19815), (481, 19827), (490, 19887), (494, 19941), (501, 20001), (506, 20043), (515, 20121), (523, 20178), (527, 20202), (532, 20256), (536, 20304), (542, 20346), (544, 20370), (545, 20373),

Gene: Phaux_25 Start: 22310, Stop: 24706, Start Num: 99

Candidate Starts for Phaux_25:

(Start: 99 @22310 has 123 MA's), (152, 22487), (160, 22508), (199, 22655), (223, 22796), (229, 22829), (235, 22862), (240, 22898), (262, 22991), (276, 23051), (281, 23069), (307, 23201), (314, 23246), (339, 23378), (351, 23423), (363, 23483), (385, 23597), (390, 23618), (398, 23657), (401, 23678), (404, 23693), (430, 23843), (431, 23849), (433, 23867), (445, 23921), (460, 24005), (480, 24098), (510, 24344), (536, 24560), (545, 24644), (552, 24677),

Gene: PhesterPhotato_18 Start: 17419, Stop: 19956, Start Num: 63

Candidate Starts for PhesterPhotato_18:

(60, 17407), (Start: 63 @17419 has 221 MA's), (72, 17440), (Start: 86 @17461 has 1 MA's), (95, 17500), (118, 17569), (124, 17578), (125, 17581), (131, 17599), (141, 17632), (144, 17647), (156, 17695), (178, 17806), (179, 17809), (188, 17839), (194, 17854), (208, 17932), (212, 17956), (222, 18022), (230, 18067), (235, 18097), (236, 18103), (237, 18121), (244, 18145), (246, 18154), (254, 18187), (255, 18193), (262, 18223), (272, 18262), (274, 18274), (276, 18283), (280, 18298), (281, 18301), (303, 18412), (304, 18415), (305, 18424), (306, 18430), (309, 18445), (310, 18448), (312, 18469), (319, 18499), (321, 18511), (325, 18544), (351, 18655), (352, 18658), (357, 18685), (358, 18691), (367, 18745), (368, 18748), (390, 18850), (392, 18862), (393, 18865), (405, 18931), (409, 18955), (411, 18976), (413, 18985), (423, 19045), (424, 19048), (431, 19084), (433, 19102), (437, 19114), (440, 19123), (444, 19150), (457, 19219), (460, 19237), (462, 19246), (464, 19258), (473, 19294), (477, 19324), (481, 19345), (486, 19369), (490, 19405), (494, 19459), (501, 19519), (506, 19561), (515, 19639), (523, 19696), (527, 19720), (528, 19735), (532, 19774), (536, 19822), (542, 19864), (544, 19888), (545, 19891),

Gene: Philus_18 Start: 17405, Stop: 19942, Start Num: 63

Candidate Starts for Philus_18:

(Start: 63 @17405 has 221 MA's), (72, 17426), (Start: 86 @17447 has 1 MA's), (95, 17486), (118, 17555), (124, 17564), (125, 17567), (131, 17585), (144, 17633), (177, 17786), (179, 17795), (194, 17840), (208, 17918), (212, 17942), (222, 18008), (230, 18053), (235, 18083), (236, 18089), (237, 18107), (244, 18131), (246, 18140), (254, 18173), (255, 18179), (262, 18209), (272, 18248), (276,

18269), (280, 18284), (281, 18287), (304, 18401), (305, 18410), (306, 18416), (310, 18434), (312, 18455), (319, 18485), (321, 18497), (325, 18530), (351, 18641), (352, 18644), (357, 18671), (358, 18677), (367, 18731), (368, 18734), (387, 18821), (390, 18836), (393, 18851), (409, 18941), (411, 18962), (413, 18971), (423, 19031), (424, 19034), (431, 19070), (433, 19088), (437, 19100), (440, 19109), (444, 19136), (457, 19205), (460, 19223), (462, 19232), (464, 19244), (473, 19280), (477, 19310), (481, 19331), (486, 19355), (490, 19391), (494, 19445), (506, 19547), (515, 19625), (523, 19682), (527, 19706), (532, 19760), (536, 19808), (542, 19850), (547, 19883), (548, 19886),

Gene: Phreeze_29 Start: 25682, Stop: 28525, Start Num: 25

Candidate Starts for Phreeze_29:

(Start: 25 @25682 has 8 MA's), (44, 25814), (46, 25826), (48, 25835), (59, 25904), (87, 25970), (89, 25991), (103, 26039), (111, 26081), (122, 26105), (134, 26138), (143, 26174), (145, 26186), (167, 26279), (179, 26336), (189, 26375), (223, 26570), (228, 26600), (236, 26642), (269, 26783), (272, 26801), (289, 26882), (298, 26921), (301, 26942), (325, 27080), (333, 27119), (349, 27182), (368, 27284), (410, 27509), (478, 27872), (482, 27899), (517, 28142), (521, 28175), (524, 28199), (536, 28319), (546, 28397), (555, 28484), (556, 28499), (557, 28505),

Gene: Phrux_26 Start: 22025, Stop: 24421, Start Num: 99

Candidate Starts for Phrux_26:

(Start: 99 @22025 has 123 MA's), (152, 22202), (160, 22223), (199, 22370), (229, 22544), (235, 22577), (240, 22613), (262, 22706), (276, 22766), (281, 22784), (307, 22916), (314, 22961), (339, 23093), (351, 23138), (363, 23198), (385, 23312), (390, 23333), (398, 23372), (401, 23393), (404, 23408), (430, 23558), (431, 23564), (433, 23582), (445, 23636), (460, 23720), (480, 23813), (510, 24059), (536, 24275), (545, 24359), (552, 24392),

Gene: Piper2020_19 Start: 17270, Stop: 19795, Start Num: 63

Candidate Starts for Piper2020_19:

(Start: 63 @17270 has 221 MA's), (72, 17291), (Start: 86 @17312 has 1 MA's), (95, 17351), (118, 17420), (124, 17429), (125, 17432), (131, 17450), (141, 17483), (144, 17498), (156, 17546), (178, 17657), (179, 17660), (194, 17705), (208, 17783), (212, 17807), (222, 17873), (223, 17882), (235, 17948), (236, 17954), (237, 17972), (244, 17996), (245, 18002), (246, 18005), (254, 18038), (255, 18044), (262, 18074), (269, 18095), (276, 18134), (280, 18149), (282, 18155), (310, 18299), (319, 18350), (338, 18461), (352, 18512), (356, 18536), (371, 18629), (384, 18674), (385, 18683), (390, 18704), (392, 18716), (393, 18719), (401, 18764), (409, 18809), (410, 18827), (411, 18830), (420, 18881), (430, 18932), (431, 18938), (433, 18956), (437, 18968), (440, 18977), (445, 19010), (460, 19091), (475, 19160), (480, 19187), (483, 19214), (491, 19265), (494, 19313), (526, 19556), (536, 19661), (539, 19682), (547, 19736), (551, 19760),

Gene: Plumbus_19 Start: 17226, Stop: 19763, Start Num: 63

Candidate Starts for Plumbus_19:

(60, 17214), (Start: 63 @17226 has 221 MA's), (72, 17247), (Start: 86 @17268 has 1 MA's), (95, 17307), (118, 17376), (124, 17385), (125, 17388), (131, 17406), (141, 17439), (144, 17454), (156, 17502), (178, 17613), (179, 17616), (188, 17646), (193, 17658), (194, 17661), (208, 17739), (212, 17763), (222, 17829), (230, 17874), (235, 17904), (236, 17910), (237, 17928), (244, 17952), (246, 17961), (254, 17994), (255, 18000), (262, 18030), (272, 18069), (274, 18081), (276, 18090), (280, 18105), (281, 18108), (303, 18219), (304, 18222), (305, 18231), (306, 18237), (309, 18252), (310, 18255), (312, 18276), (319, 18306), (321, 18318), (325, 18351), (339, 18417), (351, 18462), (352, 18465), (357, 18492), (358, 18498), (367, 18552), (368, 18555), (387, 18642), (390, 18657), (392, 18669), (393, 18672), (405, 18738), (409, 18762), (411, 18783), (413, 18792), (423, 18852), (424, 18855), (431, 18891), (433, 18909), (437, 18921), (440, 18930), (444, 18957), (457, 19026), (460, 19044), (462, 19053), (464, 19065), (473, 19101), (477, 19131), (481, 19152), (486, 19176), (490, 19212), (494, 19266), (501, 19326), (506, 19368), (515, 19446), (523, 19503), (527, 19527), (532, 19581), (536, 19629), (542, 19671), (544, 19695), (545, 19698),

Gene: Poenanya_18 Start: 17534, Stop: 20071, Start Num: 63

Candidate Starts for Poenanya_18:

(Start: 63 @17534 has 221 MA's), (72, 17555), (Start: 86 @17576 has 1 MA's), (95, 17615), (118, 17684), (124, 17693), (125, 17696), (131, 17714), (144, 17762), (178, 17921), (179, 17924), (194, 17969), (208, 18047), (212, 18071), (222, 18137), (235, 18212), (236, 18218), (237, 18236), (244, 18260), (245, 18266), (246, 18269), (254, 18302), (255, 18308), (262, 18338), (269, 18359), (274, 18389), (276, 18398), (299, 18506), (301, 18518), (303, 18527), (304, 18530), (306, 18545), (309, 18560), (310, 18563), (312, 18584), (321, 18626), (325, 18659), (351, 18770), (352, 18773), (357, 18800), (358, 18806), (367, 18860), (368, 18863), (371, 18890), (390, 18965), (392, 18977), (393, 18980), (405, 19046), (408, 19067), (409, 19070), (411, 19091), (413, 19100), (423, 19160), (424, 19163), (431, 19199), (433, 19217), (437, 19229), (440, 19238), (444, 19265), (455, 19322), (457, 19334), (460, 19352), (462, 19361), (464, 19373), (473, 19409), (477, 19439), (480, 19448), (481, 19460), (490, 19520), (494, 19574), (501, 19634), (506, 19676), (523, 19811), (527, 19835), (532, 19889), (536, 19937), (542, 19979), (544, 20003), (545, 20006),

Gene: Policronamos_26 Start: 22312, Stop: 24708, Start Num: 99

Candidate Starts for Policronamos_26:

(Start: 99 @22312 has 123 MA's), (152, 22489), (160, 22510), (199, 22657), (223, 22798), (229, 22831), (235, 22864), (240, 22900), (262, 22993), (276, 23053), (281, 23071), (298, 23152), (339, 23380), (351, 23425), (390, 23620), (391, 23626), (393, 23635), (401, 23680), (404, 23695), (431, 23851), (433, 23869), (436, 23878), (446, 23932), (460, 24007), (493, 24220), (495, 24232), (510, 24346), (536, 24562), (545, 24646), (550, 24670), (552, 24679),

Gene: Polka14_19 Start: 17940, Stop: 20477, Start Num: 63

Candidate Starts for Polka14_19:

(60, 17928), (Start: 63 @17940 has 221 MA's), (72, 17961), (Start: 86 @17982 has 1 MA's), (95, 18021), (118, 18090), (124, 18099), (125, 18102), (131, 18120), (144, 18168), (156, 18216), (178, 18327), (179, 18330), (194, 18375), (208, 18453), (212, 18477), (222, 18543), (230, 18588), (235, 18618), (236, 18624), (237, 18642), (244, 18666), (246, 18675), (254, 18708), (255, 18714), (262, 18744), (272, 18783), (274, 18795), (276, 18804), (280, 18819), (281, 18822), (303, 18933), (304, 18936), (305, 18945), (306, 18951), (309, 18966), (310, 18969), (312, 18990), (319, 19020), (321, 19032), (325, 19065), (351, 19176), (352, 19179), (357, 19206), (358, 19212), (367, 19266), (368, 19269), (390, 19371), (392, 19383), (393, 19386), (405, 19452), (409, 19476), (411, 19497), (413, 19506), (423, 19566), (424, 19569), (431, 19605), (433, 19623), (440, 19644), (444, 19671), (457, 19740), (460, 19758), (462, 19767), (464, 19779), (473, 19815), (481, 19866), (484, 19884), (490, 19926), (494, 19980), (506, 20082), (523, 20217), (527, 20241), (532, 20295), (539, 20364), (544, 20409), (545, 20412),

Gene: Pollywog_21 Start: 18605, Stop: 21094, Start Num: 63

Candidate Starts for Pollywog_21:

(Start: 63 @18605 has 221 MA's), (72, 18626), (Start: 86 @18647 has 1 MA's), (96, 18686), (118, 18755), (124, 18764), (125, 18767), (131, 18785), (144, 18833), (159, 18881), (172, 18935), (179, 18971), (180, 18977), (181, 18980), (189, 18998), (197, 19022), (201, 19046), (214, 19109), (227, 19193), (230, 19202), (235, 19226), (237, 19250), (244, 19274), (245, 19280), (251, 19301), (255, 19322), (262, 19352), (270, 19382), (274, 19403), (295, 19496), (298, 19511), (299, 19520), (303, 19541), (304, 19544), (319, 19628), (320, 19631), (321, 19640), (324, 19667), (326, 19676), (334, 19715), (337, 19736), (339, 19739), (349, 19775), (354, 19796), (367, 19874), (368, 19877), (382, 19931), (392, 19991), (409, 20084), (410, 20102), (411, 20105), (419, 20141), (427, 20195), (430, 20204), (443, 20282), (446, 20300), (450, 20336), (452, 20339), (457, 20357), (458, 20360), (460, 20375), (464, 20396), (473, 20432), (475, 20444), (486, 20507), (490, 20540), (497, 20627), (503, 20675), (505, 20699), (509, 20726), (510, 20735), (514, 20774), (520, 20813), (523, 20837), (526, 20858), (536, 20954), (539, 20975), (548, 21038), (552, 21065), (553, 21074),

Gene: PopTart_18 Start: 17445, Stop: 19982, Start Num: 63

Candidate Starts for PopTart_18:

(60, 17433), (Start: 63 @17445 has 221 MA's), (72, 17466), (Start: 86 @17487 has 1 MA's), (95, 17526), (118, 17595), (124, 17604), (125, 17607), (131, 17625), (141, 17658), (144, 17673), (178, 17832), (179, 17835), (194, 17880), (208, 17958), (212, 17982), (222, 18048), (235, 18123), (236, 18129), (237, 18147), (244, 18171), (245, 18177), (246, 18180), (254, 18213), (255, 18219), (262, 18249), (269, 18270), (274, 18300), (276, 18309), (294, 18390), (305, 18450), (306, 18456), (309, 18471), (310, 18474), (312, 18495), (321, 18537), (325, 18570), (326, 18573), (357, 18711), (358, 18717), (367, 18771), (368, 18774), (371, 18801), (390, 18876), (392, 18888), (393, 18891), (405, 18957), (409, 18981), (411, 19002), (413, 19011), (423, 19071), (424, 19074), (431, 19110), (433, 19128), (440, 19149), (457, 19245), (460, 19263), (462, 19272), (464, 19284), (473, 19320), (477, 19350), (490, 19431), (494, 19485), (506, 19587), (523, 19722), (527, 19746), (532, 19800), (536, 19848), (542, 19890), (544, 19914), (545, 19917),

Gene: Porcelain_35 Start: 27554, Stop: 30061, Start Num: 63

Candidate Starts for Porcelain_35:

(Start: 63 @27554 has 221 MA's), (131, 27749), (141, 27785), (144, 27800), (168, 27887), (172, 27902), (194, 27977), (197, 27989), (202, 28016), (219, 28121), (227, 28160), (230, 28169), (235, 28193), (236, 28199), (237, 28217), (242, 28235), (246, 28250), (249, 28259), (251, 28268), (254, 28283), (260, 28310), (262, 28319), (272, 28358), (274, 28370), (276, 28379), (295, 28463), (310, 28544), (314, 28574), (315, 28577), (321, 28607), (324, 28634), (326, 28643), (336, 28694), (337, 28703), (339, 28706), (349, 28742), (354, 28763), (360, 28799), (391, 28952), (401, 29006), (409, 29051), (410, 29069), (411, 29072), (419, 29111), (443, 29258), (445, 29267), (458, 29336), (460, 29351), (490, 29516), (497, 29603), (503, 29651), (510, 29702), (520, 29780), (546, 30002), (548, 30005), (552, 30032),

Gene: Porky_26 Start: 22121, Stop: 24517, Start Num: 99

Candidate Starts for Porky_26:

(Start: 99 @22121 has 123 MA's), (152, 22298), (160, 22319), (199, 22466), (223, 22607), (229, 22640), (235, 22673), (240, 22709), (262, 22802), (276, 22862), (281, 22880), (307, 23012), (314, 23057), (339, 23189), (351, 23234), (363, 23294), (385, 23408), (390, 23429), (398, 23468), (401, 23489), (404, 23504), (430, 23654), (431, 23660), (433, 23678), (445, 23732), (460, 23816), (480, 23909), (510, 24155), (536, 24371), (545, 24455), (552, 24488),

Gene: Prager_30 Start: 24328, Stop: 26598, Start Num: 23

Candidate Starts for Prager_30:

(Start: 23 @24328 has 22 MA's), (34, 24463), (35, 24472), (Start: 71 @24646 has 2 MA's), (73, 24652), (76, 24664), (123, 24817), (127, 24832), (133, 24847), (211, 25228), (213, 25234), (218, 25279), (234, 25366), (278, 25567), (279, 25573), (289, 25621), (297, 25651), (301, 25675), (337, 25864), (346, 25891), (357, 25939), (369, 26011), (375, 26050), (381, 26071), (383, 26086), (386, 26104), (395, 26134), (408, 26218), (441, 26419), (447, 26461), (472, 26587),

Gene: Priscilla_18 Start: 17407, Stop: 19959, Start Num: 63

Candidate Starts for Priscilla_18:

(Start: 63 @17407 has 221 MA's), (95, 17488), (118, 17557), (124, 17566), (125, 17569), (131, 17587), (144, 17635), (155, 17680), (178, 17794), (179, 17797), (182, 17809), (189, 17830), (193, 17839), (194, 17842), (202, 17890), (208, 17920), (217, 17986), (223, 18019), (230, 18055), (234, 18079), (245, 18139), (246, 18142), (251, 18160), (267, 18223), (269, 18226), (272, 18244), (276, 18265), (281, 18283), (287, 18310), (291, 18331), (298, 18364), (305, 18406), (306, 18412), (307, 18415), (310, 18430), (313, 18457), (314, 18460), (319, 18481), (321, 18493), (325, 18526), (347, 18619), (367, 18727), (370, 18751), (371, 18757), (378, 18775), (379, 18778), (384, 18802), (390, 18832), (394, 18856), (401, 18892), (402, 18898), (404, 18907), (408, 18934), (417, 18997), (420, 19021),

(421, 19036), (430, 19078), (441, 19129), (458, 19225), (460, 19240), (462, 19249), (468, 19273), (480, 19336), (486, 19372), (521, 19678), (527, 19723), (536, 19825),

Gene: Puissant_28 Start: 26145, Stop: 28988, Start Num: 25

Candidate Starts for Puissant_28:

(Start: 25 @26145 has 8 MA's), (40, 26247), (44, 26277), (46, 26289), (48, 26298), (62, 26373), (83, 26427), (87, 26433), (89, 26454), (94, 26475), (103, 26502), (160, 26715), (163, 26727), (181, 26808), (184, 26817), (202, 26904), (204, 26910), (214, 26964), (234, 27093), (236, 27105), (262, 27225), (269, 27246), (298, 27384), (321, 27510), (368, 27747), (384, 27819), (392, 27861), (394, 27873), (410, 27972), (426, 28068), (473, 28308), (490, 28416), (517, 28608), (521, 28641), (524, 28665), (526, 28683), (536, 28785), (546, 28863), (554, 28920), (555, 28950), (556, 28965),

Gene: Pumpkin_28 Start: 22364, Stop: 24760, Start Num: 99

Candidate Starts for Pumpkin_28:

(Start: 99 @22364 has 123 MA's), (152, 22541), (160, 22562), (199, 22709), (229, 22883), (235, 22916), (240, 22952), (262, 23045), (276, 23105), (281, 23123), (307, 23255), (314, 23300), (339, 23432), (351, 23477), (363, 23537), (385, 23651), (390, 23672), (398, 23711), (401, 23732), (404, 23747), (430, 23897), (431, 23903), (433, 23921), (445, 23975), (460, 24059), (480, 24152), (510, 24398), (536, 24614), (545, 24698), (552, 24731),

Gene: Pygmy_20 Start: 18761, Stop: 21265, Start Num: 75

Candidate Starts for Pygmy_20:

(Start: 75 @18761 has 3 MA's), (78, 18770), (125, 18914), (211, 19319), (215, 19334), (217, 19364), (218, 19370), (222, 19388), (244, 19496), (255, 19547), (281, 19658), (282, 19661), (289, 19700), (298, 19733), (310, 19799), (321, 19859), (324, 19886), (325, 19892), (390, 20198), (401, 20258), (407, 20306), (408, 20309), (410, 20330), (411, 20333), (460, 20594), (484, 20717), (485, 20720), (494, 20810), (501, 20867), (504, 20888), (518, 20948), (540, 21149), (543, 21191),

Gene: Quallification_27 Start: 22490, Stop: 24886, Start Num: 99

Candidate Starts for Quallification_27:

(Start: 99 @22490 has 123 MA's), (152, 22667), (160, 22688), (199, 22835), (223, 22976), (229, 23009), (235, 23042), (240, 23078), (262, 23171), (276, 23231), (281, 23249), (307, 23381), (314, 23426), (339, 23558), (351, 23603), (363, 23663), (385, 23777), (390, 23798), (398, 23837), (401, 23858), (404, 23873), (430, 24023), (431, 24029), (433, 24047), (445, 24101), (460, 24185), (480, 24278), (510, 24524), (536, 24740), (545, 24824), (552, 24857),

Gene: QuickMath_19 Start: 18743, Stop: 21280, Start Num: 63

Candidate Starts for QuickMath_19:

(60, 18731), (Start: 63 @18743 has 221 MA's), (72, 18764), (Start: 86 @18785 has 1 MA's), (95, 18824), (118, 18893), (124, 18902), (125, 18905), (131, 18923), (141, 18956), (144, 18971), (156, 19019), (178, 19130), (179, 19133), (188, 19163), (193, 19175), (194, 19178), (208, 19256), (212, 19280), (222, 19346), (230, 19391), (235, 19421), (236, 19427), (237, 19445), (244, 19469), (246, 19478), (254, 19511), (255, 19517), (262, 19547), (272, 19586), (274, 19598), (276, 19607), (280, 19622), (281, 19625), (303, 19736), (304, 19739), (305, 19748), (306, 19754), (309, 19769), (310, 19772), (312, 19793), (319, 19823), (321, 19835), (325, 19868), (351, 19979), (352, 19982), (357, 20009), (358, 20015), (367, 20069), (368, 20072), (387, 20159), (390, 20174), (392, 20186), (393, 20189), (405, 20255), (409, 20279), (411, 20300), (413, 20309), (420, 20351), (423, 20369), (424, 20372), (431, 20408), (433, 20426), (437, 20438), (440, 20447), (444, 20474), (457, 20543), (460, 20561), (462, 20570), (464, 20582), (473, 20618), (477, 20648), (481, 20669), (486, 20693), (490, 20729), (494, 20783), (501, 20843), (506, 20885), (515, 20963), (523, 21020), (527, 21044), (532, 21098), (536, 21146), (542, 21188), (544, 21212), (545, 21215),

Gene: Quico_19 Start: 17227, Stop: 19764, Start Num: 63

Candidate Starts for Quico_19:

(Start: 63 @17227 has 221 MA's), (72, 17248), (Start: 86 @17269 has 1 MA's), (95, 17308), (118, 17377), (124, 17386), (125, 17389), (131, 17407), (141, 17440), (144, 17455), (156, 17503), (178, 17614), (179, 17617), (188, 17647), (194, 17662), (208, 17740), (212, 17764), (222, 17830), (230, 17875), (235, 17905), (236, 17911), (237, 17929), (244, 17953), (246, 17962), (254, 17995), (255, 18001), (262, 18031), (272, 18070), (276, 18091), (280, 18106), (281, 18109), (304, 18223), (305, 18232), (306, 18238), (310, 18256), (312, 18277), (319, 18307), (321, 18319), (325, 18352), (351, 18463), (352, 18466), (357, 18493), (358, 18499), (367, 18553), (368, 18556), (387, 18643), (390, 18658), (393, 18673), (409, 18763), (411, 18784), (413, 18793), (423, 18853), (424, 18856), (430, 18886), (433, 18910), (440, 18931), (457, 19027), (460, 19045), (462, 19054), (464, 19066), (473, 19102), (477, 19132), (481, 19153), (486, 19177), (490, 19213), (494, 19267), (501, 19327), (506, 19369), (515, 19447), (523, 19504), (527, 19528), (532, 19582), (536, 19630), (542, 19672), (544, 19696), (545, 19699),

Gene: Radiance_18 Start: 17380, Stop: 19917, Start Num: 63

Candidate Starts for Radiance_18:

(60, 17368), (Start: 63 @17380 has 221 MA's), (72, 17401), (Start: 86 @17422 has 1 MA's), (95, 17461), (118, 17530), (124, 17539), (125, 17542), (131, 17560), (141, 17593), (144, 17608), (156, 17656), (177, 17761), (178, 17767), (179, 17770), (193, 17812), (194, 17815), (212, 17917), (222, 17983), (230, 18028), (235, 18058), (236, 18064), (237, 18082), (244, 18106), (246, 18115), (254, 18148), (255, 18154), (262, 18184), (274, 18235), (276, 18244), (299, 18352), (301, 18364), (303, 18373), (304, 18376), (306, 18391), (309, 18406), (310, 18409), (312, 18430), (319, 18460), (321, 18472), (325, 18505), (351, 18616), (352, 18619), (357, 18646), (358, 18652), (367, 18706), (368, 18709), (371, 18736), (390, 18811), (392, 18823), (393, 18826), (405, 18892), (408, 18913), (409, 18916), (411, 18937), (413, 18946), (423, 19006), (424, 19009), (430, 19039), (433, 19063), (437, 19075), (440, 19084), (457, 19180), (460, 19198), (462, 19207), (464, 19219), (477, 19285), (480, 19294), (481, 19306), (486, 19330), (490, 19366), (506, 19522), (523, 19657), (527, 19681), (532, 19735), (539, 19804), (544, 19849), (545, 19852),

Gene: Rakim_27 Start: 22397, Stop: 24793, Start Num: 99

Candidate Starts for Rakim_27:

(Start: 99 @22397 has 123 MA's), (152, 22574), (160, 22595), (199, 22742), (223, 22883), (229, 22916), (235, 22949), (240, 22985), (262, 23078), (276, 23138), (281, 23156), (298, 23237), (339, 23465), (351, 23510), (390, 23705), (391, 23711), (393, 23720), (401, 23765), (404, 23780), (431, 23936), (433, 23954), (436, 23963), (446, 24017), (460, 24092), (461, 24095), (493, 24305), (495, 24317), (510, 24431), (536, 24647), (545, 24731), (550, 24755), (552, 24764),

Gene: Ramsey_19 Start: 17429, Stop: 19966, Start Num: 63

Candidate Starts for Ramsey_19:

(Start: 63 @17429 has 221 MA's), (72, 17450), (Start: 86 @17471 has 1 MA's), (95, 17510), (118, 17579), (124, 17588), (125, 17591), (131, 17609), (144, 17657), (178, 17816), (179, 17819), (194, 17864), (208, 17942), (212, 17966), (222, 18032), (235, 18107), (236, 18113), (237, 18131), (244, 18155), (245, 18161), (246, 18164), (254, 18197), (255, 18203), (262, 18233), (269, 18254), (274, 18284), (276, 18293), (299, 18401), (301, 18413), (303, 18422), (304, 18425), (306, 18440), (309, 18455), (310, 18458), (312, 18479), (321, 18521), (325, 18554), (351, 18665), (352, 18668), (357, 18695), (358, 18701), (367, 18755), (368, 18758), (371, 18785), (390, 18860), (392, 18872), (393, 18875), (405, 18941), (408, 18962), (409, 18965), (411, 18986), (413, 18995), (420, 19037), (423, 19055), (424, 19058), (430, 19088), (433, 19112), (437, 19124), (440, 19133), (457, 19229), (460, 19247), (462, 19256), (464, 19268), (473, 19304), (477, 19334), (480, 19343), (481, 19355), (490, 19415), (494, 19469), (501, 19529), (506, 19571), (523, 19706), (527, 19730), (532, 19784), (536, 19832), (542, 19874), (544, 19898), (545, 19901),

Gene: RedBird_18 Start: 17357, Stop: 19894, Start Num: 63

Candidate Starts for RedBird_18:

(Start: 63 @17357 has 221 MA's), (72, 17378), (Start: 86 @17399 has 1 MA's), (95, 17438), (118, 17507), (124, 17516), (125, 17519), (131, 17537), (144, 17585), (177, 17738), (179, 17747), (194, 17792), (211, 17891), (212, 17894), (222, 17960), (235, 18035), (236, 18041), (237, 18059), (244, 18083), (245, 18089), (246, 18092), (254, 18125), (255, 18131), (262, 18161), (269, 18182), (274, 18212), (276, 18221), (280, 18236), (281, 18239), (303, 18350), (304, 18353), (305, 18362), (306, 18368), (309, 18383), (310, 18386), (312, 18407), (319, 18437), (321, 18449), (325, 18482), (351, 18593), (352, 18596), (357, 18623), (358, 18629), (367, 18683), (368, 18686), (387, 18773), (390, 18788), (392, 18800), (393, 18803), (405, 18869), (409, 18893), (411, 18914), (413, 18923), (423, 18983), (424, 18986), (431, 19022), (433, 19040), (437, 19052), (440, 19061), (444, 19088), (455, 19145), (457, 19157), (460, 19175), (462, 19184), (464, 19196), (473, 19232), (477, 19262), (480, 19271), (481, 19283), (490, 19343), (494, 19397), (501, 19457), (506, 19499), (523, 19634), (527, 19658), (532, 19712), (536, 19760), (542, 19802), (544, 19826), (545, 19829),

Gene: Renaud18_20 Start: 17833, Stop: 20313, Start Num: 65

Candidate Starts for Renaud18_20:

(Start: 65 @17833 has 3 MA's), (70, 17839), (72, 17845), (Start: 99 @17908 has 123 MA's), (101, 17911), (107, 17938), (128, 17992), (131, 18001), (141, 18034), (147, 18067), (159, 18100), (168, 18139), (172, 18154), (179, 18190), (180, 18196), (181, 18199), (189, 18217), (194, 18229), (197, 18241), (201, 18265), (202, 18268), (227, 18412), (230, 18421), (235, 18445), (237, 18469), (244, 18493), (245, 18499), (251, 18520), (255, 18541), (262, 18571), (270, 18601), (274, 18622), (295, 18715), (298, 18730), (299, 18739), (303, 18760), (304, 18763), (311, 18805), (319, 18847), (320, 18850), (321, 18859), (324, 18886), (334, 18934), (337, 18955), (339, 18958), (349, 18994), (354, 19015), (367, 19093), (368, 19096), (382, 19150), (392, 19210), (409, 19303), (411, 19324), (419, 19360), (427, 19414), (430, 19423), (443, 19501), (446, 19519), (450, 19555), (452, 19558), (457, 19576), (458, 19579), (460, 19594), (464, 19615), (473, 19651), (475, 19663), (486, 19726), (490, 19759), (497, 19846), (503, 19894), (505, 19918), (509, 19945), (510, 19954), (514, 19993), (520, 20032), (523, 20056), (526, 20077), (536, 20173), (539, 20194), (548, 20257), (552, 20284), (553, 20293),

Gene: Rialto_20 Start: 17909, Stop: 20446, Start Num: 63

Candidate Starts for Rialto_20:

(Start: 63 @17909 has 221 MA's), (72, 17930), (Start: 86 @17951 has 1 MA's), (95, 17990), (118, 18059), (124, 18068), (125, 18071), (131, 18089), (144, 18137), (177, 18290), (179, 18299), (194, 18344), (211, 18443), (212, 18446), (222, 18512), (235, 18587), (236, 18593), (237, 18611), (244, 18635), (245, 18641), (246, 18644), (254, 18677), (255, 18683), (262, 18713), (269, 18734), (274, 18764), (276, 18773), (280, 18788), (281, 18791), (303, 18902), (304, 18905), (305, 18914), (306, 18920), (309, 18935), (310, 18938), (312, 18959), (319, 18989), (321, 19001), (325, 19034), (351, 19145), (352, 19148), (357, 19175), (358, 19181), (367, 19235), (368, 19238), (390, 19340), (392, 19352), (393, 19355), (405, 19421), (409, 19445), (411, 19466), (413, 19475), (423, 19535), (424, 19538), (431, 19574), (433, 19592), (437, 19604), (440, 19613), (444, 19640), (455, 19697), (457, 19709), (460, 19727), (462, 19736), (464, 19748), (473, 19784), (477, 19814), (480, 19823), (481, 19835), (490, 19895), (494, 19949), (501, 20009), (506, 20051), (523, 20186), (527, 20210), (532, 20264), (536, 20312), (542, 20354), (544, 20378), (545, 20381),

Gene: Rimmer_25 Start: 21850, Stop: 24246, Start Num: 99

Candidate Starts for Rimmer_25:

(Start: 99 @21850 has 123 MA's), (152, 22027), (160, 22048), (199, 22195), (223, 22336), (229, 22369), (235, 22402), (240, 22438), (262, 22531), (276, 22591), (281, 22609), (307, 22741), (314, 22786), (339, 22918), (351, 22963), (385, 23137), (390, 23158), (398, 23197), (401, 23218), (404, 23233), (431, 23389), (433, 23407), (445, 23461), (460, 23545), (480, 23638), (510, 23884), (536, 24100), (545, 24184), (552, 24217),

Gene: Riparian_30 Start: 24095, Stop: 27595, Start Num: 1

Candidate Starts for Riparian_30:

(Start: 1 @24095 has 8 MA's), (4, 24107), (Start: 5 @24119 has 1 MA's), (8, 24302), (10, 24383), (14, 24482), (15, 24506), (16, 24524), (26, 24683), (29, 24716), (39, 24764), (44, 24803), (67, 24929), (Start: 71 @24938 has 2 MA's), (120, 25124), (166, 25325), (201, 25502), (217, 25601), (223, 25634), (234, 25679), (244, 25733), (247, 25745), (260, 25811), (276, 25895), (279, 25910), (285, 25940), (306, 26045), (316, 26096), (322, 26141), (331, 26186), (341, 26231), (347, 26252), (351, 26270), (352, 26273), (353, 26279), (354, 26282), (377, 26420), (388, 26468), (389, 26474), (400, 26534), (404, 26555), (419, 26648), (427, 26708), (430, 26717), (431, 26723), (434, 26744), (465, 26909), (480, 26975), (481, 26987), (484, 27005), (486, 27011), (512, 27245), (516, 27284), (522, 27329), (526, 27359), (535, 27452), (539, 27479),

Gene: Rita_18 Start: 17410, Stop: 19947, Start Num: 63

Candidate Starts for Rita_18:

(Start: 63 @17410 has 221 MA's), (102, 17500), (118, 17560), (124, 17569), (125, 17572), (131, 17590), (144, 17638), (155, 17683), (178, 17797), (179, 17800), (188, 17830), (193, 17842), (194, 17845), (208, 17923), (212, 17947), (222, 18013), (230, 18058), (235, 18088), (236, 18094), (237, 18112), (244, 18136), (246, 18145), (254, 18178), (255, 18184), (262, 18214), (272, 18253), (274, 18265), (276, 18274), (280, 18289), (281, 18292), (303, 18403), (304, 18406), (305, 18415), (306, 18421), (309, 18436), (310, 18439), (312, 18460), (319, 18490), (321, 18502), (325, 18535), (351, 18646), (352, 18649), (357, 18676), (358, 18682), (367, 18736), (368, 18739), (390, 18841), (392, 18853), (393, 18856), (405, 18922), (409, 18946), (411, 18967), (413, 18976), (423, 19036), (424, 19039), (431, 19075), (433, 19093), (437, 19105), (440, 19114), (444, 19141), (457, 19210), (460, 19228), (462, 19237), (464, 19249), (473, 19285), (477, 19315), (481, 19336), (486, 19360), (490, 19396), (494, 19450), (501, 19510), (506, 19552), (515, 19630), (523, 19687), (527, 19711), (532, 19765), (536, 19813), (542, 19855), (544, 19879), (545, 19882),

Gene: RitaG_18 Start: 17539, Stop: 20091, Start Num: 63

Candidate Starts for RitaG_18:

(Start: 63 @17539 has 221 MA's), (72, 17560), (Start: 86 @17581 has 1 MA's), (95, 17620), (118, 17689), (124, 17698), (125, 17701), (131, 17719), (141, 17752), (144, 17767), (156, 17815), (178, 17926), (179, 17929), (189, 17962), (193, 17971), (194, 17974), (208, 18052), (217, 18118), (223, 18151), (232, 18205), (235, 18217), (244, 18265), (246, 18274), (249, 18283), (256, 18316), (269, 18358), (271, 18373), (278, 18403), (279, 18409), (280, 18412), (281, 18415), (287, 18442), (291, 18463), (298, 18496), (305, 18538), (306, 18544), (307, 18547), (309, 18559), (310, 18562), (313, 18589), (319, 18613), (321, 18625), (325, 18658), (329, 18679), (347, 18751), (352, 18772), (370, 18883), (378, 18907), (379, 18910), (384, 18934), (390, 18964), (394, 18988), (401, 19024), (402, 19030), (404, 19039), (417, 19129), (420, 19153), (421, 19168), (430, 19210), (431, 19216), (441, 19261), (458, 19357), (460, 19372), (462, 19381), (468, 19405), (480, 19468), (494, 19594), (521, 19810), (527, 19855), (536, 19957), (548, 20035),

Gene: RiverMonster_26 Start: 22039, Stop: 24435, Start Num: 99

Candidate Starts for RiverMonster_26:

(Start: 99 @22039 has 123 MA's), (152, 22216), (160, 22237), (199, 22384), (229, 22558), (235, 22591), (240, 22627), (262, 22720), (276, 22780), (281, 22798), (307, 22930), (314, 22975), (339, 23107), (351, 23152), (363, 23212), (385, 23326), (390, 23347), (398, 23386), (401, 23407), (404, 23422), (430, 23572), (431, 23578), (433, 23596), (445, 23650), (460, 23734), (480, 23827), (510, 24073), (536, 24289), (545, 24373), (552, 24406),

Gene: Rockne_18 Start: 17383, Stop: 19920, Start Num: 63

Candidate Starts for Rockne_18:

(Start: 63 @17383 has 221 MA's), (102, 17473), (118, 17533), (124, 17542), (125, 17545), (131, 17563), (144, 17611), (156, 17659), (177, 17764), (178, 17770), (179, 17773), (193, 17815), (194,

17818), (212, 17920), (222, 17986), (230, 18031), (235, 18061), (236, 18067), (237, 18085), (244, 18109), (246, 18118), (254, 18151), (255, 18157), (269, 18208), (272, 18226), (274, 18238), (276, 18247), (280, 18262), (282, 18268), (303, 18376), (305, 18388), (306, 18394), (309, 18409), (310, 18412), (312, 18433), (319, 18463), (321, 18475), (325, 18508), (339, 18574), (351, 18619), (352, 18622), (357, 18649), (358, 18655), (367, 18709), (368, 18712), (371, 18739), (390, 18814), (392, 18826), (393, 18829), (405, 18895), (408, 18916), (409, 18919), (413, 18949), (420, 18991), (423, 19009), (424, 19012), (430, 19042), (433, 19066), (437, 19078), (440, 19087), (457, 19183), (460, 19201), (462, 19210), (464, 19222), (477, 19288), (480, 19297), (481, 19309), (490, 19369), (506, 19525), (523, 19660), (527, 19684), (532, 19738), (539, 19807), (544, 19852), (545, 19855),

Gene: RockyHorror_19 Start: 17258, Stop: 19795, Start Num: 63

Candidate Starts for RockyHorror_19:

(Start: 63 @17258 has 221 MA's), (72, 17279), (Start: 86 @17300 has 1 MA's), (95, 17339), (118, 17408), (124, 17417), (125, 17420), (131, 17438), (144, 17486), (177, 17639), (179, 17648), (194, 17693), (211, 17792), (212, 17795), (222, 17861), (235, 17936), (236, 17942), (237, 17960), (244, 17984), (245, 17990), (246, 17993), (254, 18026), (255, 18032), (262, 18062), (269, 18083), (274, 18113), (276, 18122), (280, 18137), (281, 18140), (303, 18251), (304, 18254), (305, 18263), (306, 18269), (309, 18284), (310, 18287), (312, 18308), (319, 18338), (321, 18350), (325, 18383), (351, 18494), (352, 18497), (357, 18524), (358, 18530), (367, 18584), (368, 18587), (387, 18674), (390, 18689), (392, 18701), (393, 18704), (405, 18770), (409, 18794), (411, 18815), (413, 18824), (423, 18884), (424, 18887), (431, 18923), (433, 18941), (437, 18953), (440, 18962), (444, 18989), (455, 19046), (457, 19058), (460, 19076), (462, 19085), (464, 19097), (473, 19133), (477, 19163), (480, 19172), (481, 19184), (490, 19244), (494, 19298), (501, 19358), (506, 19400), (523, 19535), (527, 19559), (532, 19613), (536, 19661), (542, 19703), (544, 19727), (545, 19730),

Gene: Rope_30 Start: 24281, Stop: 27775, Start Num: 1

Candidate Starts for Rope_30:

(Start: 1 @24281 has 8 MA's), (4, 24293), (Start: 5 @24305 has 1 MA's), (8, 24488), (10, 24569), (14, 24668), (15, 24692), (16, 24710), (26, 24869), (29, 24902), (39, 24950), (44, 24989), (67, 25115), (Start: 71 @25124 has 2 MA's), (120, 25310), (166, 25511), (201, 25688), (217, 25787), (223, 25820), (234, 25865), (236, 25877), (244, 25919), (245, 25925), (246, 25928), (260, 25997), (275, 26075), (276, 26081), (285, 26126), (287, 26129), (303, 26213), (354, 26468), (361, 26507), (388, 26654), (389, 26660), (419, 26834), (424, 26867), (427, 26888), (430, 26897), (434, 26924), (481, 27167), (497, 27311), (522, 27509), (526, 27539), (532, 27596), (535, 27632), (539, 27659), (540, 27671),

Gene: Royals2015_18 Start: 17417, Stop: 19948, Start Num: 63

Candidate Starts for Royals2015_18:

(Start: 63 @17417 has 221 MA's), (72, 17438), (102, 17507), (118, 17567), (124, 17576), (125, 17579), (131, 17597), (141, 17630), (144, 17645), (155, 17690), (178, 17804), (179, 17807), (182, 17819), (189, 17840), (193, 17849), (194, 17852), (208, 17930), (217, 17996), (223, 18029), (230, 18065), (234, 18089), (245, 18149), (246, 18152), (251, 18170), (266, 18233), (268, 18236), (272, 18254), (276, 18275), (281, 18293), (287, 18320), (291, 18341), (298, 18374), (306, 18422), (307, 18425), (309, 18437), (310, 18440), (312, 18461), (319, 18491), (321, 18503), (325, 18536), (339, 18602), (351, 18647), (352, 18650), (357, 18677), (358, 18683), (367, 18737), (368, 18740), (371, 18767), (390, 18842), (392, 18854), (393, 18857), (405, 18923), (409, 18947), (413, 18977), (420, 19019), (423, 19037), (424, 19040), (431, 19076), (433, 19094), (440, 19115), (444, 19142), (457, 19211), (460, 19229), (462, 19238), (464, 19250), (473, 19286), (481, 19337), (484, 19355), (490, 19397), (494, 19451), (506, 19553), (515, 19631), (523, 19688), (527, 19712), (532, 19766), (536, 19814), (544, 19880), (545, 19883),

Gene: Ruby_18 Start: 17371, Stop: 19908, Start Num: 63

Candidate Starts for Ruby_18:

(Start: 63 @17371 has 221 MA's), (72, 17392), (Start: 86 @17413 has 1 MA's), (95, 17452), (118, 17521), (124, 17530), (125, 17533), (131, 17551), (141, 17584), (144, 17599), (177, 17752), (179, 17761), (194, 17806), (211, 17905), (212, 17908), (222, 17974), (235, 18049), (236, 18055), (244, 18097), (245, 18103), (246, 18106), (254, 18139), (255, 18145), (262, 18175), (269, 18196), (274, 18226), (276, 18235), (280, 18250), (281, 18253), (303, 18364), (304, 18367), (305, 18376), (306, 18382), (309, 18397), (310, 18400), (312, 18421), (319, 18451), (321, 18463), (325, 18496), (351, 18607), (352, 18610), (357, 18637), (358, 18643), (367, 18697), (368, 18700), (387, 18787), (390, 18802), (392, 18814), (393, 18817), (405, 18883), (409, 18907), (411, 18928), (413, 18937), (420, 18979), (423, 18997), (424, 19000), (430, 19030), (433, 19054), (437, 19066), (440, 19075), (457, 19171), (460, 19189), (462, 19198), (464, 19210), (473, 19246), (477, 19276), (480, 19285), (481, 19297), (490, 19357), (494, 19411), (501, 19471), (506, 19513), (523, 19648), (527, 19672), (532, 19726), (536, 19774), (542, 19816), (544, 19840), (545, 19843),

Gene: Ryadel_62 Start: 36906, Stop: 39416, Start Num: 82

Candidate Starts for Ryadel_62:

(Start: 82 @36906 has 28 MA's), (90, 36939), (105, 37008), (106, 37011), (115, 37035), (125, 37059), (135, 37083), (141, 37116), (183, 37323), (186, 37335), (187, 37338), (215, 37485), (217, 37515), (222, 37539), (230, 37569), (231, 37572), (235, 37599), (237, 37623), (245, 37653), (258, 37710), (272, 37770), (274, 37782), (280, 37806), (281, 37809), (289, 37851), (309, 37947), (310, 37950), (361, 38205), (390, 38349), (401, 38409), (410, 38481), (411, 38484), (428, 38580), (460, 38754), (462, 38763), (464, 38775), (482, 38868), (485, 38880), (494, 38970), (504, 39045), (514, 39090), (538, 39291), (543, 39345), (548, 39360),

Gene: SG4_18 Start: 17548, Stop: 20085, Start Num: 63

Candidate Starts for SG4_18:

(Start: 63 @17548 has 221 MA's), (72, 17569), (Start: 86 @17590 has 1 MA's), (94, 17626), (95, 17629), (118, 17698), (124, 17707), (125, 17710), (131, 17728), (141, 17761), (144, 17776), (156, 17824), (178, 17935), (179, 17938), (188, 17968), (193, 17980), (194, 17983), (208, 18061), (212, 18085), (222, 18151), (230, 18196), (235, 18226), (236, 18232), (237, 18250), (244, 18274), (246, 18283), (254, 18316), (255, 18322), (269, 18373), (272, 18391), (274, 18403), (276, 18412), (280, 18427), (281, 18430), (303, 18541), (304, 18544), (305, 18553), (306, 18559), (309, 18574), (310, 18577), (312, 18598), (319, 18628), (321, 18640), (325, 18673), (339, 18739), (351, 18784), (352, 18787), (357, 18814), (358, 18820), (367, 18874), (368, 18877), (390, 18979), (392, 18991), (393, 18994), (405, 19060), (409, 19084), (411, 19105), (413, 19114), (423, 19174), (424, 19177), (431, 19213), (433, 19231), (437, 19243), (440, 19252), (444, 19279), (457, 19348), (460, 19366), (462, 19375), (464, 19387), (473, 19423), (477, 19453), (481, 19474), (486, 19498), (490, 19534), (494, 19588), (501, 19648), (506, 19690), (523, 19825), (527, 19849), (532, 19903), (536, 19951), (544, 20017), (545, 20020),

Gene: Saal_18 Start: 17383, Stop: 19920, Start Num: 63

Candidate Starts for Saal_18:

(Start: 63 @17383 has 221 MA's), (72, 17404), (Start: 86 @17425 has 1 MA's), (95, 17464), (118, 17533), (124, 17542), (125, 17545), (131, 17563), (144, 17611), (177, 17764), (179, 17773), (194, 17818), (208, 17896), (212, 17920), (222, 17986), (230, 18031), (235, 18061), (236, 18067), (237, 18085), (244, 18109), (246, 18118), (254, 18151), (255, 18157), (262, 18187), (272, 18226), (276, 18247), (280, 18262), (281, 18265), (304, 18379), (305, 18388), (306, 18394), (310, 18412), (312, 18433), (319, 18463), (321, 18475), (325, 18508), (351, 18619), (352, 18622), (357, 18649), (358, 18655), (367, 18709), (368, 18712), (387, 18799), (390, 18814), (393, 18829), (409, 18919), (411, 18940), (413, 18949), (423, 19009), (424, 19012), (431, 19048), (433, 19066), (437, 19078), (440, 19087), (444, 19114), (457, 19183), (460, 19201), (462, 19210), (464, 19222), (473, 19258), (477, 19288), (481, 19309), (486, 19333), (490, 19369), (494, 19423), (506, 19525), (515, 19603), (523, 19660), (527, 19684), (532, 19738), (536, 19786), (542, 19828), (547, 19861), (548, 19864),

Gene: Sabbb_19 Start: 17625, Stop: 20168, Start Num: 63

Candidate Starts for Sabbb_19:

(Start: 63 @17625 has 221 MA's), (72, 17646), (Start: 86 @17667 has 1 MA's), (95, 17706), (118, 17775), (124, 17784), (125, 17787), (131, 17805), (144, 17853), (156, 17901), (178, 18012), (179, 18015), (189, 18048), (194, 18060), (208, 18138), (217, 18204), (223, 18237), (232, 18291), (235, 18303), (245, 18357), (246, 18360), (249, 18369), (256, 18402), (267, 18441), (269, 18444), (271, 18459), (272, 18462), (278, 18489), (279, 18495), (280, 18498), (281, 18501), (287, 18528), (290, 18546), (291, 18549), (305, 18624), (309, 18645), (310, 18648), (313, 18675), (319, 18699), (325, 18744), (326, 18747), (336, 18798), (352, 18861), (354, 18870), (358, 18894), (379, 18999), (380, 19002), (390, 19053), (391, 19059), (392, 19065), (393, 19068), (401, 19113), (404, 19128), (408, 19155), (411, 19179), (420, 19230), (423, 19248), (424, 19251), (425, 19263), (437, 19317), (460, 19440), (474, 19503), (484, 19566), (492, 19641), (518, 19842), (541, 20070), (547, 20109), (548, 20112),

Gene: Saints25_27 Start: 21945, Stop: 24341, Start Num: 99

Candidate Starts for Saints25_27:

(Start: 99 @21945 has 123 MA's), (152, 22122), (160, 22143), (199, 22290), (223, 22431), (229, 22464), (235, 22497), (240, 22533), (262, 22626), (276, 22686), (281, 22704), (307, 22836), (314, 22881), (339, 23013), (351, 23058), (363, 23118), (385, 23232), (390, 23253), (398, 23292), (401, 23313), (404, 23328), (430, 23478), (431, 23484), (433, 23502), (445, 23556), (460, 23640), (480, 23733), (510, 23979), (536, 24195), (545, 24279), (552, 24312),

Gene: Sandalphon_19 Start: 17954, Stop: 20491, Start Num: 63

Candidate Starts for Sandalphon_19:

(60, 17942), (Start: 63 @17954 has 221 MA's), (72, 17975), (Start: 86 @17996 has 1 MA's), (95, 18035), (118, 18104), (124, 18113), (125, 18116), (141, 18167), (144, 18182), (156, 18230), (178, 18341), (179, 18344), (188, 18374), (193, 18386), (194, 18389), (208, 18467), (212, 18491), (222, 18557), (230, 18602), (235, 18632), (236, 18638), (237, 18656), (244, 18680), (246, 18689), (254, 18722), (255, 18728), (262, 18758), (272, 18797), (274, 18809), (276, 18818), (280, 18833), (281, 18836), (303, 18947), (304, 18950), (305, 18959), (306, 18965), (309, 18980), (310, 18983), (312, 19004), (319, 19034), (321, 19046), (325, 19079), (351, 19190), (352, 19193), (357, 19220), (358, 19226), (367, 19280), (368, 19283), (390, 19385), (392, 19397), (393, 19400), (405, 19466), (409, 19490), (411, 19511), (413, 19520), (423, 19580), (424, 19583), (431, 19619), (433, 19637), (437, 19649), (440, 19658), (444, 19685), (457, 19754), (460, 19772), (462, 19781), (464, 19793), (473, 19829), (477, 19859), (481, 19880), (486, 19904), (490, 19940), (494, 19994), (501, 20054), (506, 20096), (515, 20174), (523, 20231), (527, 20255), (532, 20309), (536, 20357), (542, 20399), (544, 20423), (545, 20426),

Gene: Sassafra_18 Start: 17532, Stop: 20069, Start Num: 63

Candidate Starts for Sassafra_18:

(Start: 63 @17532 has 221 MA's), (72, 17553), (Start: 86 @17574 has 1 MA's), (95, 17613), (118, 17682), (124, 17691), (125, 17694), (131, 17712), (144, 17760), (156, 17808), (178, 17919), (179, 17922), (194, 17967), (208, 18045), (212, 18069), (222, 18135), (235, 18210), (236, 18216), (237, 18234), (244, 18258), (246, 18267), (254, 18300), (255, 18306), (262, 18336), (269, 18357), (274, 18387), (276, 18396), (299, 18504), (301, 18516), (303, 18525), (304, 18528), (306, 18543), (309, 18558), (310, 18561), (312, 18582), (321, 18624), (325, 18657), (351, 18768), (352, 18771), (357, 18798), (358, 18804), (367, 18858), (368, 18861), (371, 18888), (390, 18963), (392, 18975), (393, 18978), (405, 19044), (408, 19065), (409, 19068), (411, 19089), (413, 19098), (420, 19140), (423, 19158), (424, 19161), (430, 19191), (433, 19215), (437, 19227), (440, 19236), (457, 19332), (460, 19350), (462, 19359), (464, 19371), (473, 19407), (477, 19437), (480, 19446), (481, 19458), (490, 19518), (494, 19572), (501, 19632), (506, 19674), (523, 19809), (527, 19833), (532, 19887), (536, 19935), (542, 19977), (544, 20001), (545, 20004),

Gene: Sassay_25 Start: 21788, Stop: 24184, Start Num: 99

Candidate Starts for Sassay_25:

(Start: 99 @21788 has 123 MA's), (152, 21965), (160, 21986), (199, 22133), (223, 22274), (229, 22307), (235, 22340), (240, 22376), (262, 22469), (276, 22529), (281, 22547), (307, 22679), (314, 22724), (339, 22856), (351, 22901), (363, 22961), (385, 23075), (390, 23096), (398, 23135), (401, 23156), (404, 23171), (430, 23321), (431, 23327), (433, 23345), (445, 23399), (460, 23483), (480, 23576), (510, 23822), (536, 24038), (545, 24122), (552, 24155),

Gene: SassyB_18 Start: 17445, Stop: 19982, Start Num: 63

Candidate Starts for SassyB_18:

(60, 17433), (Start: 63 @17445 has 221 MA's), (72, 17466), (Start: 86 @17487 has 1 MA's), (95, 17526), (118, 17595), (124, 17604), (125, 17607), (131, 17625), (141, 17658), (144, 17673), (178, 17832), (179, 17835), (194, 17880), (208, 17958), (212, 17982), (222, 18048), (235, 18123), (236, 18129), (237, 18147), (244, 18171), (245, 18177), (246, 18180), (254, 18213), (255, 18219), (262, 18249), (269, 18270), (274, 18300), (276, 18309), (294, 18390), (305, 18450), (306, 18456), (309, 18471), (310, 18474), (312, 18495), (321, 18537), (325, 18570), (326, 18573), (357, 18711), (358, 18717), (367, 18771), (368, 18774), (371, 18801), (390, 18876), (392, 18888), (393, 18891), (405, 18957), (409, 18981), (411, 19002), (413, 19011), (423, 19071), (424, 19074), (431, 19110), (433, 19128), (440, 19149), (457, 19245), (460, 19263), (462, 19272), (464, 19284), (473, 19320), (477, 19350), (490, 19431), (494, 19485), (506, 19587), (523, 19722), (527, 19746), (532, 19800), (536, 19848), (542, 19890), (544, 19914), (545, 19917),

Gene: SchoolBus_58 Start: 36090, Stop: 38600, Start Num: 82

Candidate Starts for SchoolBus_58:

(Start: 82 @36090 has 28 MA's), (90, 36123), (105, 36192), (106, 36195), (115, 36219), (125, 36243), (135, 36267), (141, 36300), (183, 36507), (186, 36519), (187, 36522), (215, 36669), (217, 36699), (222, 36723), (230, 36753), (231, 36756), (235, 36783), (237, 36807), (245, 36837), (258, 36894), (263, 36918), (272, 36954), (274, 36966), (280, 36990), (281, 36993), (289, 37035), (309, 37131), (310, 37134), (361, 37389), (390, 37533), (401, 37593), (410, 37665), (411, 37668), (428, 37764), (460, 37938), (464, 37959), (482, 38052), (485, 38064), (494, 38154), (504, 38229), (514, 38274), (538, 38475), (543, 38529), (548, 38544),

Gene: Schuy_59 Start: 35881, Stop: 38391, Start Num: 82

Candidate Starts for Schuy_59:

(Start: 82 @35881 has 28 MA's), (90, 35914), (105, 35983), (106, 35986), (115, 36010), (125, 36034), (135, 36058), (141, 36091), (183, 36298), (186, 36310), (187, 36313), (215, 36460), (217, 36490), (222, 36514), (230, 36544), (231, 36547), (235, 36574), (237, 36598), (245, 36628), (258, 36685), (263, 36709), (272, 36745), (274, 36757), (280, 36781), (281, 36784), (289, 36826), (309, 36922), (310, 36925), (361, 37180), (390, 37324), (401, 37384), (410, 37456), (411, 37459), (428, 37555), (460, 37729), (464, 37750), (482, 37843), (485, 37855), (494, 37945), (504, 38020), (514, 38065), (538, 38266), (543, 38320), (548, 38335),

Gene: Scottish_19 Start: 18701, Stop: 21238, Start Num: 63

Candidate Starts for Scottish_19:

(60, 18689), (Start: 63 @18701 has 221 MA's), (72, 18722), (Start: 86 @18743 has 1 MA's), (95, 18782), (118, 18851), (124, 18860), (125, 18863), (131, 18881), (144, 18929), (156, 18977), (178, 19088), (179, 19091), (194, 19136), (208, 19214), (212, 19238), (222, 19304), (230, 19349), (235, 19379), (236, 19385), (237, 19403), (244, 19427), (246, 19436), (254, 19469), (255, 19475), (262, 19505), (272, 19544), (274, 19556), (276, 19565), (280, 19580), (281, 19583), (303, 19694), (304, 19697), (305, 19706), (306, 19712), (309, 19727), (310, 19730), (312, 19751), (319, 19781), (321, 19793), (325, 19826), (351, 19937), (352, 19940), (357, 19967), (358, 19973), (367, 20027), (368, 20030), (390, 20132), (392, 20144), (393, 20147), (405, 20213), (409, 20237), (411, 20258), (413, 20267), (423, 20327), (424, 20330), (431, 20366), (433, 20384), (440, 20405), (444, 20432), (457,

20501), (460, 20519), (462, 20528), (464, 20540), (473, 20576), (481, 20627), (484, 20645), (490, 20687), (494, 20741), (506, 20843), (523, 20978), (527, 21002), (532, 21056), (539, 21125), (544, 21170), (545, 21173),

Gene: Seabastian_18 Start: 17634, Stop: 20171, Start Num: 63

Candidate Starts for Seabastian_18:

(Start: 63 @17634 has 221 MA's), (72, 17655), (Start: 86 @17676 has 1 MA's), (95, 17715), (118, 17784), (124, 17793), (125, 17796), (131, 17814), (144, 17862), (178, 18021), (179, 18024), (193, 18066), (194, 18069), (208, 18147), (211, 18168), (212, 18171), (222, 18237), (223, 18246), (230, 18282), (235, 18312), (236, 18318), (244, 18360), (245, 18366), (246, 18369), (254, 18402), (255, 18408), (262, 18438), (269, 18459), (274, 18489), (276, 18498), (299, 18606), (301, 18618), (303, 18627), (304, 18630), (305, 18639), (306, 18645), (309, 18660), (310, 18663), (312, 18684), (321, 18726), (325, 18759), (357, 18900), (358, 18906), (367, 18960), (368, 18963), (371, 18990), (390, 19065), (392, 19077), (393, 19080), (405, 19146), (408, 19167), (409, 19170), (411, 19191), (420, 19242), (423, 19260), (424, 19263), (430, 19293), (433, 19317), (437, 19329), (457, 19434), (460, 19452), (462, 19461), (464, 19473), (473, 19509), (477, 19539), (481, 19560), (486, 19584), (490, 19620), (501, 19734), (506, 19776), (515, 19854), (523, 19911), (527, 19935), (532, 19989), (536, 20037), (542, 20079), (544, 20103), (545, 20106),

Gene: Seagreen_19 Start: 17241, Stop: 19778, Start Num: 63

Candidate Starts for Seagreen_19:

(60, 17229), (Start: 63 @17241 has 221 MA's), (72, 17262), (Start: 86 @17283 has 1 MA's), (95, 17322), (118, 17391), (124, 17400), (125, 17403), (131, 17421), (141, 17454), (144, 17469), (156, 17517), (177, 17622), (178, 17628), (179, 17631), (193, 17673), (194, 17676), (208, 17754), (212, 17778), (222, 17844), (230, 17889), (235, 17919), (236, 17925), (237, 17943), (244, 17967), (246, 17976), (254, 18009), (255, 18015), (262, 18045), (272, 18084), (274, 18096), (276, 18105), (280, 18120), (281, 18123), (303, 18234), (304, 18237), (305, 18246), (306, 18252), (309, 18267), (310, 18270), (312, 18291), (319, 18321), (321, 18333), (325, 18366), (351, 18477), (352, 18480), (357, 18507), (358, 18513), (367, 18567), (368, 18570), (390, 18672), (392, 18684), (393, 18687), (405, 18753), (409, 18777), (411, 18798), (413, 18807), (423, 18867), (424, 18870), (431, 18906), (433, 18924), (437, 18936), (440, 18945), (444, 18972), (457, 19041), (460, 19059), (462, 19068), (464, 19080), (473, 19116), (477, 19146), (481, 19167), (486, 19191), (490, 19227), (494, 19281), (501, 19341), (506, 19383), (515, 19461), (523, 19518), (527, 19542), (532, 19596), (536, 19644), (542, 19686), (544, 19710), (545, 19713),

Gene: Send513_30 Start: 24637, Stop: 28131, Start Num: 1

Candidate Starts for Send513_30:

(Start: 1 @24637 has 8 MA's), (4, 24649), (Start: 5 @24661 has 1 MA's), (8, 24844), (10, 24925), (14, 25024), (15, 25048), (16, 25066), (26, 25225), (29, 25258), (39, 25306), (44, 25345), (67, 25471), (Start: 71 @25480 has 2 MA's), (120, 25666), (166, 25867), (201, 26044), (217, 26143), (223, 26176), (234, 26221), (236, 26233), (244, 26275), (245, 26281), (246, 26284), (260, 26353), (275, 26431), (276, 26437), (285, 26482), (287, 26485), (303, 26569), (354, 26824), (361, 26863), (388, 27010), (389, 27016), (419, 27190), (424, 27223), (427, 27244), (430, 27253), (434, 27280), (481, 27523), (497, 27667), (522, 27865), (526, 27895), (532, 27952), (535, 27988), (539, 28015), (540, 28027),

Gene: ShamWow_26 Start: 22284, Stop: 24680, Start Num: 99

Candidate Starts for ShamWow_26:

(Start: 99 @22284 has 123 MA's), (152, 22461), (160, 22482), (199, 22629), (223, 22770), (229, 22803), (235, 22836), (240, 22872), (262, 22965), (276, 23025), (281, 23043), (311, 23199), (314, 23220), (336, 23340), (339, 23352), (351, 23397), (390, 23592), (393, 23607), (401, 23652), (404, 23667), (431, 23823), (433, 23841), (436, 23850), (460, 23979), (461, 23982), (493, 24192), (495, 24204), (510, 24318), (536, 24534), (545, 24618), (550, 24642), (552, 24651),

Gene: Shauna1_18 Start: 17450, Stop: 19927, Start Num: 63

Candidate Starts for Shauna1_18:

(61, 17438), (Start: 63 @17450 has 221 MA's), (72, 17471), (Start: 86 @17492 has 1 MA's), (96, 17531), (118, 17600), (124, 17609), (125, 17612), (131, 17630), (141, 17663), (144, 17678), (168, 17765), (172, 17780), (179, 17816), (180, 17822), (194, 17855), (197, 17867), (227, 18038), (230, 18047), (235, 18071), (245, 18125), (254, 18161), (255, 18167), (262, 18197), (270, 18227), (274, 18248), (276, 18257), (295, 18341), (306, 18404), (310, 18422), (311, 18431), (314, 18452), (315, 18455), (319, 18473), (321, 18485), (324, 18512), (326, 18521), (336, 18572), (337, 18581), (339, 18584), (347, 18611), (349, 18620), (354, 18641), (367, 18719), (368, 18722), (391, 18830), (392, 18836), (401, 18884), (408, 18926), (409, 18929), (411, 18950), (412, 18956), (413, 18959), (419, 18989), (443, 19130), (446, 19148), (449, 19181), (457, 19205), (458, 19208), (460, 19223), (464, 19244), (473, 19280), (474, 19286), (478, 19313), (482, 19340), (497, 19475), (503, 19523), (505, 19547), (510, 19571), (523, 19670), (526, 19691), (528, 19709), (536, 19787), (539, 19808), (548, 19871), (550, 19889), (553, 19907),

Gene: ShereKhan_28 Start: 23267, Stop: 25663, Start Num: 99

Candidate Starts for ShereKhan_28:

(Start: 99 @23267 has 123 MA's), (152, 23444), (160, 23465), (199, 23612), (223, 23753), (229, 23786), (235, 23819), (240, 23855), (262, 23948), (276, 24008), (281, 24026), (307, 24158), (314, 24203), (339, 24335), (351, 24380), (363, 24440), (385, 24554), (390, 24575), (398, 24614), (401, 24635), (404, 24650), (430, 24800), (431, 24806), (433, 24824), (445, 24878), (460, 24962), (480, 25055), (510, 25301), (536, 25517), (545, 25601), (552, 25634),

Gene: ShiLan_18 Start: 17405, Stop: 19957, Start Num: 63

Candidate Starts for ShiLan_18:

(Start: 63 @17405 has 221 MA's), (95, 17486), (118, 17555), (124, 17564), (125, 17567), (131, 17585), (144, 17633), (155, 17678), (178, 17792), (179, 17795), (182, 17807), (189, 17828), (193, 17837), (194, 17840), (202, 17888), (208, 17918), (217, 17984), (223, 18017), (230, 18053), (234, 18077), (245, 18137), (246, 18140), (251, 18158), (267, 18221), (269, 18224), (272, 18242), (276, 18263), (281, 18281), (287, 18308), (291, 18329), (298, 18362), (305, 18404), (306, 18410), (307, 18413), (310, 18428), (313, 18455), (314, 18458), (319, 18479), (321, 18491), (325, 18524), (347, 18617), (367, 18725), (370, 18749), (371, 18755), (378, 18773), (379, 18776), (384, 18800), (390, 18830), (394, 18854), (401, 18890), (402, 18896), (404, 18905), (408, 18932), (417, 18995), (420, 19019), (421, 19034), (430, 19076), (441, 19127), (458, 19223), (460, 19238), (462, 19247), (468, 19271), (480, 19334), (486, 19370), (521, 19676), (527, 19721), (536, 19823),

Gene: Shida_58 Start: 35788, Stop: 38298, Start Num: 82

Candidate Starts for Shida_58:

(Start: 82 @35788 has 28 MA's), (90, 35821), (105, 35890), (106, 35893), (115, 35917), (125, 35941), (135, 35965), (141, 35998), (183, 36205), (186, 36217), (187, 36220), (215, 36367), (217, 36397), (222, 36421), (230, 36451), (231, 36454), (235, 36481), (237, 36505), (245, 36535), (258, 36592), (272, 36652), (274, 36664), (280, 36688), (281, 36691), (289, 36733), (309, 36829), (310, 36832), (361, 37087), (390, 37231), (401, 37291), (410, 37363), (411, 37366), (428, 37462), (460, 37636), (464, 37657), (482, 37750), (485, 37762), (494, 37852), (504, 37927), (514, 37972), (538, 38173), (543, 38227), (548, 38242),

Gene: Shipwreck_20 Start: 18739, Stop: 21243, Start Num: 75

Candidate Starts for Shipwreck_20:

(Start: 75 @18739 has 3 MA's), (125, 18892), (211, 19297), (215, 19312), (217, 19342), (218, 19348), (222, 19366), (244, 19474), (255, 19525), (281, 19636), (282, 19639), (289, 19678), (298, 19711), (310, 19777), (321, 19837), (324, 19864), (325, 19870), (390, 20176), (401, 20236), (407, 20284), (408, 20287), (410, 20308), (411, 20311), (460, 20572), (484, 20695), (485, 20698), (494, 20788), (501, 20845), (504, 20866), (518, 20926), (540, 21127), (543, 21169),

Gene: ShowerHandel_18 Start: 17406, Stop: 19958, Start Num: 63

Candidate Starts for ShowerHandel_18:

(Start: 63 @17406 has 221 MA's), (95, 17487), (118, 17556), (124, 17565), (125, 17568), (131, 17586), (144, 17634), (155, 17679), (178, 17793), (179, 17796), (182, 17808), (189, 17829), (193, 17838), (194, 17841), (202, 17889), (208, 17919), (217, 17985), (223, 18018), (230, 18054), (234, 18078), (245, 18138), (246, 18141), (251, 18159), (267, 18222), (269, 18225), (272, 18243), (276, 18264), (281, 18282), (287, 18309), (291, 18330), (298, 18363), (305, 18405), (306, 18411), (307, 18414), (310, 18429), (313, 18456), (314, 18459), (319, 18480), (321, 18492), (325, 18525), (347, 18618), (367, 18726), (370, 18750), (371, 18756), (378, 18774), (379, 18777), (384, 18801), (390, 18831), (394, 18855), (401, 18891), (402, 18897), (404, 18906), (408, 18933), (417, 18996), (420, 19020), (421, 19035), (430, 19077), (441, 19128), (458, 19224), (460, 19239), (462, 19248), (468, 19272), (480, 19335), (486, 19371), (521, 19677), (527, 19722), (536, 19824),

Gene: ShroomBoi_18 Start: 17435, Stop: 19912, Start Num: 63

Candidate Starts for ShroomBoi_18:

(Start: 63 @17435 has 221 MA's), (72, 17456), (Start: 86 @17477 has 1 MA's), (96, 17516), (118, 17585), (124, 17594), (125, 17597), (131, 17615), (144, 17663), (168, 17750), (172, 17765), (179, 17801), (180, 17807), (194, 17840), (197, 17852), (227, 18023), (230, 18032), (235, 18056), (245, 18110), (254, 18146), (255, 18152), (262, 18182), (270, 18212), (274, 18233), (276, 18242), (280, 18257), (295, 18326), (310, 18407), (311, 18416), (315, 18440), (321, 18470), (326, 18506), (336, 18557), (337, 18566), (339, 18569), (347, 18596), (349, 18605), (354, 18626), (367, 18704), (391, 18815), (392, 18821), (401, 18869), (408, 18911), (409, 18914), (411, 18935), (412, 18941), (413, 18944), (419, 18974), (443, 19115), (446, 19133), (449, 19166), (457, 19190), (458, 19193), (460, 19208), (464, 19229), (473, 19265), (474, 19271), (475, 19277), (478, 19298), (482, 19325), (497, 19460), (503, 19508), (505, 19532), (507, 19538), (510, 19556), (523, 19655), (536, 19772), (546, 19853), (548, 19856), (552, 19883),

Gene: SiSi_18 Start: 17389, Stop: 19926, Start Num: 63

Candidate Starts for SiSi_18:

(60, 17377), (Start: 63 @17389 has 221 MA's), (72, 17410), (Start: 86 @17431 has 1 MA's), (95, 17470), (118, 17539), (124, 17548), (125, 17551), (131, 17569), (141, 17602), (144, 17617), (156, 17665), (178, 17776), (179, 17779), (188, 17809), (193, 17821), (194, 17824), (208, 17902), (212, 17926), (222, 17992), (230, 18037), (235, 18067), (236, 18073), (237, 18091), (244, 18115), (246, 18124), (254, 18157), (255, 18163), (262, 18193), (272, 18232), (274, 18244), (276, 18253), (280, 18268), (281, 18271), (303, 18382), (305, 18394), (306, 18400), (309, 18415), (310, 18418), (312, 18439), (319, 18469), (321, 18481), (325, 18514), (339, 18580), (351, 18625), (352, 18628), (357, 18655), (358, 18661), (367, 18715), (368, 18718), (371, 18745), (390, 18820), (392, 18832), (393, 18835), (405, 18901), (409, 18925), (413, 18955), (420, 18997), (423, 19015), (424, 19018), (431, 19054), (433, 19072), (440, 19093), (444, 19120), (457, 19189), (460, 19207), (462, 19216), (464, 19228), (473, 19264), (481, 19315), (484, 19333), (490, 19375), (494, 19429), (501, 19489), (506, 19531), (515, 19609), (523, 19666), (527, 19690), (532, 19744), (536, 19792), (544, 19858), (545, 19861),

Gene: Simpliphy_27 Start: 22029, Stop: 24425, Start Num: 99

Candidate Starts for Simpliphy_27:

(Start: 99 @22029 has 123 MA's), (152, 22206), (160, 22227), (199, 22374), (229, 22548), (235, 22581), (240, 22617), (262, 22710), (276, 22770), (281, 22788), (307, 22920), (314, 22965), (339, 23097), (351, 23142), (363, 23202), (385, 23316), (390, 23337), (398, 23376), (401, 23397), (404, 23412), (430, 23562), (431, 23568), (433, 23586), (445, 23640), (460, 23724), (480, 23817), (510, 24063), (536, 24279), (545, 24363), (552, 24396),

Gene: SimranZ1_19 Start: 17257, Stop: 19794, Start Num: 63

Candidate Starts for SimranZ1_19:

(Start: 63 @17257 has 221 MA's), (72, 17278), (Start: 86 @17299 has 1 MA's), (95, 17338), (118, 17407), (124, 17416), (125, 17419), (131, 17437), (144, 17485), (178, 17644), (179, 17647), (188, 17677), (193, 17689), (194, 17692), (208, 17770), (212, 17794), (222, 17860), (235, 17935), (236, 17941), (237, 17959), (244, 17983), (246, 17992), (254, 18025), (255, 18031), (262, 18061), (269, 18082), (272, 18100), (274, 18112), (276, 18121), (284, 18154), (303, 18250), (304, 18253), (305, 18262), (306, 18268), (309, 18283), (310, 18286), (312, 18307), (321, 18349), (325, 18382), (339, 18448), (351, 18493), (352, 18496), (357, 18523), (358, 18529), (367, 18583), (368, 18586), (371, 18613), (379, 18634), (390, 18688), (392, 18700), (393, 18703), (405, 18769), (409, 18793), (411, 18814), (413, 18823), (420, 18865), (423, 18883), (424, 18886), (431, 18922), (433, 18940), (437, 18952), (440, 18961), (444, 18988), (455, 19045), (457, 19057), (460, 19075), (462, 19084), (464, 19096), (473, 19132), (477, 19162), (481, 19183), (486, 19207), (490, 19243), (506, 19399), (523, 19534), (527, 19558), (532, 19612), (536, 19660), (544, 19726), (545, 19729),

Gene: SirDuracell_25 Start: 20950, Stop: 23346, Start Num: 99

Candidate Starts for SirDuracell_25:

(Start: 99 @20950 has 123 MA's), (152, 21127), (160, 21148), (199, 21295), (223, 21436), (229, 21469), (235, 21502), (240, 21538), (262, 21631), (276, 21691), (281, 21709), (298, 21790), (339, 22018), (351, 22063), (390, 22258), (391, 22264), (393, 22273), (401, 22318), (404, 22333), (431, 22489), (433, 22507), (436, 22516), (460, 22645), (461, 22648), (493, 22858), (495, 22870), (510, 22984), (536, 23200), (545, 23284), (550, 23308), (552, 23317),

Gene: SirHarley_29 Start: 24248, Stop: 26518, Start Num: 23

Candidate Starts for SirHarley_29:

(Start: 23 @24248 has 22 MA's), (34, 24383), (35, 24392), (Start: 71 @24566 has 2 MA's), (73, 24572), (76, 24584), (123, 24737), (127, 24752), (133, 24767), (211, 25148), (213, 25154), (218, 25199), (234, 25286), (261, 25412), (278, 25487), (279, 25493), (289, 25541), (297, 25571), (301, 25595), (337, 25784), (346, 25811), (357, 25859), (369, 25931), (375, 25970), (381, 25991), (383, 26006), (386, 26024), (395, 26054), (408, 26138), (441, 26339), (447, 26381), (472, 26507),

Gene: Smooch_61 Start: 37810, Stop: 40320, Start Num: 82

Candidate Starts for Smooch_61:

(Start: 82 @37810 has 28 MA's), (90, 37843), (105, 37912), (106, 37915), (115, 37939), (125, 37963), (135, 37987), (141, 38020), (183, 38227), (186, 38239), (187, 38242), (215, 38389), (217, 38419), (222, 38443), (230, 38473), (231, 38476), (235, 38503), (237, 38527), (245, 38557), (258, 38614), (272, 38674), (274, 38686), (280, 38710), (281, 38713), (289, 38755), (309, 38851), (310, 38854), (351, 39058), (361, 39109), (390, 39253), (401, 39313), (410, 39385), (411, 39388), (428, 39484), (460, 39658), (464, 39679), (482, 39772), (485, 39784), (494, 39874), (504, 39949), (514, 39994), (538, 40195), (543, 40249), (548, 40264),

Gene: SophKB_26 Start: 22283, Stop: 24679, Start Num: 99

Candidate Starts for SophKB_26:

(Start: 99 @22283 has 123 MA's), (152, 22460), (160, 22481), (199, 22628), (223, 22769), (229, 22802), (235, 22835), (240, 22871), (262, 22964), (276, 23024), (281, 23042), (307, 23174), (314, 23219), (339, 23351), (351, 23396), (363, 23456), (385, 23570), (390, 23591), (398, 23630), (401, 23651), (404, 23666), (430, 23816), (431, 23822), (433, 23840), (445, 23894), (460, 23978), (480, 24071), (510, 24317), (536, 24533), (545, 24617), (552, 24650),

Gene: Sotrice96_26 Start: 22239, Stop: 24635, Start Num: 99

Candidate Starts for Sotrice96_26:

(Start: 99 @22239 has 123 MA's), (152, 22416), (160, 22437), (199, 22584), (223, 22725), (229, 22758), (235, 22791), (240, 22827), (262, 22920), (276, 22980), (281, 22998), (298, 23079), (339, 23307), (351, 23352), (390, 23547), (391, 23553), (393, 23562), (401, 23607), (404, 23622), (431,

23778), (433, 23796), (436, 23805), (460, 23934), (461, 23937), (493, 24147), (495, 24159), (510, 24273), (536, 24489), (545, 24573), (550, 24597), (552, 24606),

Gene: Soul22_24 Start: 17091, Stop: 19640, Start Num: 52

Candidate Starts for Soul22_24:

(50, 17082), (Start: 52 @17091 has 7 MA's), (Start: 63 @17151 has 221 MA's), (80, 17187), (113, 17286), (159, 17427), (168, 17466), (172, 17481), (179, 17517), (180, 17523), (181, 17526), (189, 17544), (197, 17568), (201, 17592), (202, 17595), (227, 17739), (230, 17748), (235, 17772), (237, 17796), (244, 17820), (245, 17826), (251, 17847), (255, 17868), (262, 17898), (270, 17928), (274, 17949), (295, 18042), (298, 18057), (299, 18066), (303, 18087), (304, 18090), (311, 18132), (319, 18174), (320, 18177), (321, 18186), (324, 18213), (326, 18222), (334, 18261), (337, 18282), (339, 18285), (349, 18321), (354, 18342), (367, 18420), (368, 18423), (382, 18477), (392, 18537), (407, 18624), (409, 18630), (410, 18648), (411, 18651), (419, 18687), (427, 18741), (430, 18750), (443, 18828), (446, 18846), (450, 18882), (452, 18885), (457, 18903), (458, 18906), (460, 18921), (473, 18978), (475, 18990), (486, 19053), (490, 19086), (497, 19173), (503, 19221), (505, 19245), (509, 19272), (510, 19281), (514, 19320), (520, 19359), (523, 19383), (526, 19404), (536, 19500), (539, 19521), (548, 19584), (552, 19611), (553, 19620),

Gene: Sparkdehlily_18 Start: 17429, Stop: 19966, Start Num: 63

Candidate Starts for Sparkdehlily_18:

(Start: 63 @17429 has 221 MA's), (72, 17450), (Start: 86 @17471 has 1 MA's), (95, 17510), (118, 17579), (124, 17588), (125, 17591), (131, 17609), (144, 17657), (177, 17810), (179, 17819), (194, 17864), (208, 17942), (212, 17966), (222, 18032), (230, 18077), (235, 18107), (236, 18113), (237, 18131), (244, 18155), (246, 18164), (254, 18197), (255, 18203), (262, 18233), (272, 18272), (276, 18293), (280, 18308), (281, 18311), (304, 18425), (305, 18434), (306, 18440), (310, 18458), (312, 18479), (319, 18509), (321, 18521), (325, 18554), (351, 18665), (352, 18668), (357, 18695), (358, 18701), (367, 18755), (368, 18758), (387, 18845), (390, 18860), (393, 18875), (409, 18965), (411, 18986), (413, 18995), (423, 19055), (424, 19058), (431, 19094), (433, 19112), (437, 19124), (440, 19133), (444, 19160), (457, 19229), (460, 19247), (462, 19256), (464, 19268), (473, 19304), (477, 19334), (481, 19355), (486, 19379), (490, 19415), (494, 19469), (506, 19571), (515, 19649), (523, 19706), (527, 19730), (532, 19784), (536, 19832), (542, 19874), (547, 19907), (548, 19910),

Gene: Spartacus_19 Start: 17481, Stop: 20018, Start Num: 63

Candidate Starts for Spartacus_19:

(Start: 63 @17481 has 221 MA's), (102, 17571), (118, 17631), (124, 17640), (125, 17643), (131, 17661), (141, 17694), (144, 17709), (156, 17757), (178, 17868), (179, 17871), (188, 17901), (194, 17916), (208, 17994), (222, 18084), (230, 18129), (235, 18159), (236, 18165), (237, 18183), (244, 18207), (246, 18216), (254, 18249), (255, 18255), (262, 18285), (272, 18324), (274, 18336), (276, 18345), (280, 18360), (281, 18363), (303, 18474), (304, 18477), (305, 18486), (306, 18492), (309, 18507), (310, 18510), (312, 18531), (319, 18561), (321, 18573), (325, 18606), (351, 18717), (352, 18720), (357, 18747), (358, 18753), (367, 18807), (368, 18810), (387, 18897), (390, 18912), (392, 18924), (393, 18927), (405, 18993), (411, 19038), (413, 19047), (423, 19107), (424, 19110), (431, 19146), (433, 19164), (437, 19176), (440, 19185), (444, 19212), (457, 19281), (460, 19299), (462, 19308), (464, 19320), (473, 19356), (477, 19386), (481, 19407), (486, 19431), (490, 19467), (494, 19521), (501, 19581), (506, 19623), (515, 19701), (523, 19758), (527, 19782), (532, 19836), (536, 19884), (542, 19926), (544, 19950), (545, 19953),

Gene: Spikelee_19 Start: 17223, Stop: 19760, Start Num: 63

Candidate Starts for Spikelee_19:

(Start: 63 @17223 has 221 MA's), (72, 17244), (Start: 86 @17265 has 1 MA's), (95, 17304), (118, 17373), (124, 17382), (125, 17385), (131, 17403), (144, 17451), (177, 17604), (179, 17613), (194, 17658), (211, 17757), (212, 17760), (222, 17826), (235, 17901), (236, 17907), (237, 17925), (244, 17949), (245, 17955), (246, 17958), (254, 17991), (255, 17997), (262, 18027), (269, 18048), (274,

18078), (276, 18087), (280, 18102), (281, 18105), (303, 18216), (304, 18219), (305, 18228), (306, 18234), (309, 18249), (310, 18252), (312, 18273), (319, 18303), (321, 18315), (325, 18348), (351, 18459), (352, 18462), (357, 18489), (358, 18495), (367, 18549), (368, 18552), (387, 18639), (390, 18654), (392, 18666), (393, 18669), (405, 18735), (409, 18759), (411, 18780), (413, 18789), (423, 18849), (424, 18852), (431, 18888), (433, 18906), (437, 18918), (440, 18927), (444, 18954), (455, 19011), (457, 19023), (460, 19041), (462, 19050), (464, 19062), (473, 19098), (477, 19128), (480, 19137), (481, 19149), (490, 19209), (494, 19263), (501, 19323), (506, 19365), (523, 19500), (527, 19524), (532, 19578), (536, 19626), (542, 19668), (544, 19692), (545, 19695),

Gene: Spoonbill_18 Start: 17404, Stop: 19956, Start Num: 63

Candidate Starts for Spoonbill_18:

(Start: 63 @17404 has 221 MA's), (95, 17485), (118, 17554), (124, 17563), (125, 17566), (131, 17584), (144, 17632), (155, 17677), (178, 17791), (179, 17794), (182, 17806), (189, 17827), (193, 17836), (194, 17839), (202, 17887), (208, 17917), (217, 17983), (223, 18016), (230, 18052), (234, 18076), (245, 18136), (246, 18139), (251, 18157), (267, 18220), (269, 18223), (272, 18241), (276, 18262), (281, 18280), (287, 18307), (291, 18328), (298, 18361), (305, 18403), (306, 18409), (307, 18412), (310, 18427), (313, 18454), (314, 18457), (319, 18478), (321, 18490), (325, 18523), (347, 18616), (367, 18724), (370, 18748), (371, 18754), (378, 18772), (379, 18775), (384, 18799), (390, 18829), (394, 18853), (401, 18889), (402, 18895), (404, 18904), (408, 18931), (417, 18994), (420, 19018), (421, 19033), (430, 19075), (441, 19126), (458, 19222), (460, 19237), (462, 19246), (468, 19270), (480, 19333), (486, 19369), (521, 19675), (527, 19720), (536, 19822),

Gene: Squint_35 Start: 27671, Stop: 30178, Start Num: 63

Candidate Starts for Squint_35:

(Start: 63 @27671 has 221 MA's), (131, 27866), (141, 27902), (144, 27917), (168, 28004), (172, 28019), (194, 28094), (197, 28106), (202, 28133), (219, 28238), (227, 28277), (230, 28286), (235, 28310), (236, 28316), (237, 28334), (242, 28352), (246, 28367), (249, 28376), (251, 28385), (254, 28400), (260, 28427), (262, 28436), (272, 28475), (274, 28487), (276, 28496), (295, 28580), (310, 28661), (314, 28691), (315, 28694), (321, 28724), (324, 28751), (326, 28760), (336, 28811), (337, 28820), (339, 28823), (349, 28859), (354, 28880), (360, 28916), (391, 29069), (401, 29123), (409, 29168), (410, 29186), (411, 29189), (419, 29228), (443, 29375), (445, 29384), (458, 29453), (460, 29468), (490, 29633), (497, 29720), (503, 29768), (510, 29819), (520, 29897), (546, 30119), (548, 30122), (552, 30149),

Gene: StAnnes_18 Start: 17447, Stop: 19984, Start Num: 63

Candidate Starts for StAnnes_18:

(60, 17435), (Start: 63 @17447 has 221 MA's), (72, 17468), (Start: 86 @17489 has 1 MA's), (95, 17528), (124, 17606), (125, 17609), (131, 17627), (141, 17660), (144, 17675), (156, 17723), (178, 17834), (179, 17837), (188, 17867), (193, 17879), (194, 17882), (208, 17960), (212, 17984), (222, 18050), (230, 18095), (235, 18125), (236, 18131), (237, 18149), (244, 18173), (246, 18182), (254, 18215), (255, 18221), (262, 18251), (274, 18302), (276, 18311), (280, 18326), (281, 18329), (303, 18440), (304, 18443), (305, 18452), (306, 18458), (309, 18473), (310, 18476), (312, 18497), (319, 18527), (321, 18539), (325, 18572), (351, 18683), (352, 18686), (357, 18713), (358, 18719), (367, 18773), (368, 18776), (387, 18863), (390, 18878), (392, 18890), (393, 18893), (405, 18959), (409, 18983), (411, 19004), (413, 19013), (423, 19073), (424, 19076), (431, 19112), (433, 19130), (437, 19142), (440, 19151), (444, 19178), (457, 19247), (460, 19265), (462, 19274), (464, 19286), (473, 19322), (477, 19352), (481, 19373), (486, 19397), (490, 19433), (494, 19487), (501, 19547), (506, 19589), (515, 19667), (523, 19724), (527, 19748), (532, 19802), (536, 19850), (542, 19892), (544, 19916), (545, 19919),

Gene: Stank_29 Start: 22790, Stop: 25186, Start Num: 99

Candidate Starts for Stank_29:

(Start: 99 @22790 has 123 MA's), (152, 22967), (160, 22988), (199, 23135), (223, 23276), (229, 23309), (235, 23342), (240, 23378), (262, 23471), (276, 23531), (281, 23549), (307, 23681), (314, 23726), (339, 23858), (351, 23903), (363, 23963), (385, 24077), (390, 24098), (398, 24137), (401, 24158), (404, 24173), (430, 24323), (431, 24329), (433, 24347), (445, 24401), (460, 24485), (480, 24578), (510, 24824), (536, 25040), (545, 25124), (552, 25157),

Gene: Stap_19 Start: 17430, Stop: 19967, Start Num: 63

Candidate Starts for Stap_19:

(Start: 63 @17430 has 221 MA's), (72, 17451), (Start: 86 @17472 has 1 MA's), (95, 17511), (118, 17580), (124, 17589), (125, 17592), (131, 17610), (141, 17643), (144, 17658), (156, 17706), (177, 17811), (178, 17817), (179, 17820), (193, 17862), (194, 17865), (212, 17967), (222, 18033), (230, 18078), (235, 18108), (236, 18114), (237, 18132), (244, 18156), (246, 18165), (254, 18198), (255, 18204), (262, 18234), (272, 18273), (274, 18285), (276, 18294), (280, 18309), (281, 18312), (303, 18423), (304, 18426), (305, 18435), (306, 18441), (309, 18456), (310, 18459), (312, 18480), (319, 18510), (321, 18522), (325, 18555), (351, 18666), (352, 18669), (357, 18696), (358, 18702), (367, 18756), (368, 18759), (390, 18861), (392, 18873), (393, 18876), (405, 18942), (409, 18966), (411, 18987), (413, 18996), (423, 19056), (424, 19059), (431, 19095), (433, 19113), (437, 19125), (440, 19134), (444, 19161), (457, 19230), (460, 19248), (462, 19257), (464, 19269), (473, 19305), (481, 19356), (484, 19374), (490, 19416), (494, 19470), (501, 19530), (506, 19572), (515, 19650), (523, 19707), (527, 19731), (532, 19785), (536, 19833), (544, 19899), (545, 19902),

Gene: Starcevich_19 Start: 17191, Stop: 19728, Start Num: 63

Candidate Starts for Starcevich_19:

(Start: 63 @17191 has 221 MA's), (72, 17212), (Start: 86 @17233 has 1 MA's), (95, 17272), (118, 17341), (124, 17350), (125, 17353), (131, 17371), (144, 17419), (177, 17572), (179, 17581), (194, 17626), (211, 17725), (212, 17728), (222, 17794), (235, 17869), (236, 17875), (237, 17893), (244, 17917), (245, 17923), (246, 17926), (254, 17959), (255, 17965), (262, 17995), (269, 18016), (274, 18046), (276, 18055), (280, 18070), (281, 18073), (303, 18184), (304, 18187), (305, 18196), (306, 18202), (309, 18217), (310, 18220), (312, 18241), (319, 18271), (321, 18283), (325, 18316), (351, 18427), (352, 18430), (357, 18457), (358, 18463), (367, 18517), (368, 18520), (390, 18622), (392, 18634), (393, 18637), (405, 18703), (409, 18727), (411, 18748), (413, 18757), (423, 18817), (424, 18820), (431, 18856), (433, 18874), (437, 18886), (440, 18895), (444, 18922), (455, 18979), (457, 18991), (460, 19009), (462, 19018), (464, 19030), (473, 19066), (477, 19096), (480, 19105), (481, 19117), (490, 19177), (494, 19231), (501, 19291), (506, 19333), (523, 19468), (527, 19492), (532, 19546), (536, 19594), (542, 19636), (544, 19660), (545, 19663),

Gene: Stark_27 Start: 22042, Stop: 24438, Start Num: 99

Candidate Starts for Stark_27:

(Start: 99 @22042 has 123 MA's), (152, 22219), (160, 22240), (199, 22387), (229, 22561), (235, 22594), (240, 22630), (262, 22723), (276, 22783), (281, 22801), (307, 22933), (314, 22978), (339, 23110), (351, 23155), (363, 23215), (385, 23329), (390, 23350), (398, 23389), (401, 23410), (404, 23425), (430, 23575), (431, 23581), (433, 23599), (445, 23653), (460, 23737), (480, 23830), (510, 24076), (536, 24292), (545, 24376), (552, 24409),

Gene: StellaBean_26 Start: 22283, Stop: 24679, Start Num: 99

Candidate Starts for StellaBean_26:

(Start: 99 @22283 has 123 MA's), (152, 22460), (160, 22481), (199, 22628), (223, 22769), (229, 22802), (235, 22835), (240, 22871), (262, 22964), (276, 23024), (281, 23042), (307, 23174), (314, 23219), (339, 23351), (351, 23396), (363, 23456), (385, 23570), (390, 23591), (398, 23630), (401, 23651), (404, 23666), (430, 23816), (431, 23822), (433, 23840), (445, 23894), (460, 23978), (480, 24071), (510, 24317), (536, 24533), (545, 24617), (552, 24650),

Gene: StolenFromERC_28 Start: 22274, Stop: 24670, Start Num: 99

Candidate Starts for StolenFromERC_28:

(Start: 99 @22274 has 123 MA's), (152, 22451), (160, 22472), (199, 22619), (229, 22793), (235, 22826), (240, 22862), (262, 22955), (276, 23015), (281, 23033), (307, 23165), (314, 23210), (339, 23342), (351, 23387), (363, 23447), (385, 23561), (390, 23582), (398, 23621), (401, 23642), (404, 23657), (430, 23807), (431, 23813), (433, 23831), (445, 23885), (460, 23969), (480, 24062), (510, 24308), (536, 24524), (545, 24608), (552, 24641),

Gene: Strokeseat_18 Start: 17495, Stop: 20032, Start Num: 63

Candidate Starts for Strokeseat_18:

(Start: 63 @17495 has 221 MA's), (72, 17516), (Start: 86 @17537 has 1 MA's), (95, 17576), (118, 17645), (124, 17654), (125, 17657), (131, 17675), (144, 17723), (178, 17882), (179, 17885), (193, 17927), (194, 17930), (208, 18008), (211, 18029), (212, 18032), (222, 18098), (235, 18173), (236, 18179), (244, 18221), (245, 18227), (246, 18230), (254, 18263), (255, 18269), (262, 18299), (269, 18320), (274, 18350), (276, 18359), (299, 18467), (301, 18479), (303, 18488), (304, 18491), (305, 18500), (306, 18506), (309, 18521), (310, 18524), (312, 18545), (321, 18587), (325, 18620), (357, 18761), (358, 18767), (367, 18821), (368, 18824), (371, 18851), (390, 18926), (392, 18938), (393, 18941), (405, 19007), (409, 19031), (411, 19052), (413, 19061), (423, 19121), (424, 19124), (431, 19160), (433, 19178), (440, 19199), (444, 19226), (457, 19295), (460, 19313), (462, 19322), (464, 19334), (473, 19370), (477, 19400), (490, 19481), (501, 19595), (506, 19637), (523, 19772), (527, 19796), (532, 19850), (544, 19964), (545, 19967),

Gene: SuperGrey_19 Start: 18074, Stop: 20611, Start Num: 63

Candidate Starts for SuperGrey_19:

(Start: 63 @18074 has 221 MA's), (72, 18095), (Start: 86 @18116 has 1 MA's), (95, 18155), (118, 18224), (124, 18233), (125, 18236), (131, 18254), (144, 18302), (178, 18461), (179, 18464), (194, 18509), (211, 18608), (212, 18611), (222, 18677), (235, 18752), (236, 18758), (237, 18776), (244, 18800), (245, 18806), (246, 18809), (254, 18842), (255, 18848), (262, 18878), (269, 18899), (274, 18929), (276, 18938), (280, 18953), (281, 18956), (303, 19067), (304, 19070), (305, 19079), (306, 19085), (309, 19100), (310, 19103), (312, 19124), (319, 19154), (321, 19166), (325, 19199), (351, 19310), (352, 19313), (357, 19340), (358, 19346), (367, 19400), (368, 19403), (387, 19490), (390, 19505), (392, 19517), (393, 19520), (405, 19586), (409, 19610), (411, 19631), (413, 19640), (423, 19700), (424, 19703), (431, 19739), (433, 19757), (437, 19769), (440, 19778), (444, 19805), (455, 19862), (457, 19874), (460, 19892), (462, 19901), (464, 19913), (473, 19949), (477, 19979), (480, 19988), (481, 20000), (490, 20060), (494, 20114), (501, 20174), (506, 20216), (515, 20294), (523, 20351), (527, 20375), (532, 20429), (536, 20477), (542, 20519), (544, 20543), (545, 20546),

Gene: Superphikiman_36 Start: 27736, Stop: 30243, Start Num: 63

Candidate Starts for Superphikiman_36:

(Start: 63 @27736 has 221 MA's), (131, 27931), (141, 27967), (144, 27982), (168, 28069), (172, 28084), (194, 28159), (197, 28171), (202, 28198), (219, 28303), (227, 28342), (230, 28351), (235, 28375), (236, 28381), (237, 28399), (242, 28417), (246, 28432), (249, 28441), (251, 28450), (254, 28465), (260, 28492), (262, 28501), (272, 28540), (274, 28552), (276, 28561), (295, 28645), (310, 28726), (314, 28756), (315, 28759), (321, 28789), (324, 28816), (326, 28825), (336, 28876), (337, 28885), (339, 28888), (349, 28924), (354, 28945), (360, 28981), (391, 29134), (401, 29188), (409, 29233), (410, 29251), (411, 29254), (419, 29293), (443, 29440), (445, 29449), (458, 29518), (460, 29533), (490, 29698), (497, 29785), (503, 29833), (510, 29884), (520, 29962), (546, 30184), (548, 30187), (552, 30214),

Gene: SwagPiggett_18 Start: 17406, Stop: 19943, Start Num: 63

Candidate Starts for SwagPiggett_18:

(Start: 63 @17406 has 221 MA's), (72, 17427), (Start: 86 @17448 has 1 MA's), (95, 17487), (118, 17556), (124, 17565), (125, 17568), (131, 17586), (144, 17634), (177, 17787), (179, 17796), (194, 17841), (208, 17919), (212, 17943), (222, 18009), (230, 18054), (235, 18084), (236, 18090), (237,

18108), (244, 18132), (246, 18141), (254, 18174), (255, 18180), (262, 18210), (272, 18249), (276, 18270), (280, 18285), (281, 18288), (304, 18402), (305, 18411), (306, 18417), (310, 18435), (312, 18456), (319, 18486), (321, 18498), (325, 18531), (351, 18642), (352, 18645), (357, 18672), (358, 18678), (367, 18732), (368, 18735), (387, 18822), (390, 18837), (393, 18852), (409, 18942), (411, 18963), (413, 18972), (423, 19032), (424, 19035), (431, 19071), (433, 19089), (437, 19101), (440, 19110), (444, 19137), (457, 19206), (460, 19224), (462, 19233), (464, 19245), (473, 19281), (477, 19311), (481, 19332), (486, 19356), (490, 19392), (494, 19446), (506, 19548), (515, 19626), (523, 19683), (527, 19707), (532, 19761), (536, 19809), (542, 19851), (547, 19884), (548, 19887),

Gene: TBrady12_28 Start: 22274, Stop: 24670, Start Num: 99

Candidate Starts for TBrady12_28:

(Start: 99 @22274 has 123 MA's), (152, 22451), (160, 22472), (199, 22619), (223, 22760), (229, 22793), (235, 22826), (240, 22862), (262, 22955), (276, 23015), (281, 23033), (307, 23165), (314, 23210), (339, 23342), (351, 23387), (363, 23447), (385, 23561), (390, 23582), (398, 23621), (401, 23642), (404, 23657), (430, 23807), (431, 23813), (433, 23831), (445, 23885), (460, 23969), (480, 24062), (510, 24308), (536, 24524), (545, 24608), (552, 24641),

Gene: TDanisky_18 Start: 17429, Stop: 19966, Start Num: 63

Candidate Starts for TDanisky_18:

(Start: 63 @17429 has 221 MA's), (72, 17450), (Start: 86 @17471 has 1 MA's), (95, 17510), (118, 17579), (124, 17588), (125, 17591), (131, 17609), (144, 17657), (177, 17810), (179, 17819), (194, 17864), (208, 17942), (212, 17966), (222, 18032), (230, 18077), (235, 18107), (236, 18113), (237, 18131), (244, 18155), (246, 18164), (254, 18197), (255, 18203), (262, 18233), (272, 18272), (276, 18293), (280, 18308), (281, 18311), (304, 18425), (305, 18434), (306, 18440), (310, 18458), (312, 18479), (319, 18509), (321, 18521), (325, 18554), (351, 18665), (352, 18668), (357, 18695), (358, 18701), (367, 18755), (368, 18758), (387, 18845), (390, 18860), (393, 18875), (409, 18965), (411, 18986), (413, 18995), (423, 19055), (424, 19058), (431, 19094), (433, 19112), (437, 19124), (440, 19133), (444, 19160), (457, 19229), (460, 19247), (462, 19256), (464, 19268), (473, 19304), (477, 19334), (481, 19355), (486, 19379), (490, 19415), (494, 19469), (506, 19571), (515, 19649), (523, 19706), (527, 19730), (532, 19784), (536, 19832), (542, 19874), (547, 19907), (548, 19910),

Gene: Taj_18 Start: 17430, Stop: 19967, Start Num: 63

Candidate Starts for Taj_18:

(60, 17418), (Start: 63 @17430 has 221 MA's), (72, 17451), (Start: 86 @17472 has 1 MA's), (95, 17511), (118, 17580), (124, 17589), (125, 17592), (131, 17610), (141, 17643), (144, 17658), (156, 17706), (177, 17811), (178, 17817), (179, 17820), (193, 17862), (194, 17865), (208, 17943), (222, 18033), (230, 18078), (235, 18108), (236, 18114), (237, 18132), (244, 18156), (246, 18165), (254, 18198), (255, 18204), (262, 18234), (272, 18273), (274, 18285), (276, 18294), (280, 18309), (281, 18312), (303, 18423), (304, 18426), (305, 18435), (306, 18441), (309, 18456), (310, 18459), (312, 18480), (319, 18510), (321, 18522), (325, 18555), (351, 18666), (352, 18669), (357, 18696), (358, 18702), (367, 18756), (368, 18759), (387, 18846), (390, 18861), (392, 18873), (393, 18876), (405, 18942), (409, 18966), (411, 18987), (413, 18996), (423, 19056), (424, 19059), (431, 19095), (433, 19113), (437, 19125), (440, 19134), (444, 19161), (457, 19230), (460, 19248), (462, 19257), (464, 19269), (473, 19305), (477, 19335), (481, 19356), (486, 19380), (490, 19416), (494, 19470), (501, 19530), (506, 19572), (523, 19707), (527, 19731), (532, 19785), (536, 19833), (542, 19875), (544, 19899), (545, 19902),

Gene: Tarkin_28 Start: 23273, Stop: 25669, Start Num: 99

Candidate Starts for Tarkin_28:

(Start: 99 @23273 has 123 MA's), (152, 23450), (160, 23471), (199, 23618), (223, 23759), (229, 23792), (235, 23825), (240, 23861), (262, 23954), (276, 24014), (281, 24032), (307, 24164), (314, 24209), (339, 24341), (351, 24386), (363, 24446), (385, 24560), (390, 24581), (398, 24620), (401, 24641), (404, 24656), (430, 24806), (431, 24812), (433, 24830), (445, 24884), (460, 24968), (480,

25061), (510, 25307), (536, 25523), (545, 25607), (552, 25640),

Gene: TeardropMSU_25 Start: 22191, Stop: 24587, Start Num: 99

Candidate Starts for TeardropMSU_25:

(Start: 99 @22191 has 123 MA's), (152, 22368), (160, 22389), (199, 22536), (223, 22677), (229, 22710), (235, 22743), (240, 22779), (262, 22872), (276, 22932), (281, 22950), (298, 23031), (339, 23259), (351, 23304), (390, 23499), (391, 23505), (393, 23514), (401, 23559), (404, 23574), (431, 23730), (433, 23748), (436, 23757), (446, 23811), (460, 23886), (461, 23889), (493, 24099), (495, 24111), (510, 24225), (536, 24441), (545, 24525), (550, 24549), (552, 24558),

Gene: Teaspoon_27 Start: 22237, Stop: 24633, Start Num: 99

Candidate Starts for Teaspoon_27:

(Start: 99 @22237 has 123 MA's), (152, 22414), (160, 22435), (199, 22582), (223, 22723), (229, 22756), (235, 22789), (240, 22825), (262, 22918), (276, 22978), (281, 22996), (307, 23128), (314, 23173), (339, 23305), (351, 23350), (363, 23410), (385, 23524), (390, 23545), (398, 23584), (401, 23605), (404, 23620), (430, 23770), (431, 23776), (433, 23794), (445, 23848), (460, 23932), (480, 24025), (510, 24271), (536, 24487), (545, 24571), (552, 24604),

Gene: TelAviv_55 Start: 36063, Stop: 38573, Start Num: 82

Candidate Starts for TelAviv_55:

(Start: 82 @36063 has 28 MA's), (90, 36096), (105, 36165), (106, 36168), (115, 36192), (125, 36216), (135, 36240), (141, 36273), (183, 36480), (186, 36492), (187, 36495), (215, 36642), (217, 36672), (222, 36696), (230, 36726), (231, 36729), (235, 36756), (237, 36780), (245, 36810), (258, 36867), (263, 36891), (272, 36927), (274, 36939), (280, 36963), (281, 36966), (289, 37008), (309, 37104), (310, 37107), (361, 37362), (390, 37506), (401, 37566), (410, 37638), (411, 37641), (428, 37737), (460, 37911), (464, 37932), (482, 38025), (485, 38037), (494, 38127), (504, 38202), (514, 38247), (538, 38448), (543, 38502), (548, 38517),

Gene: Terminus_26 Start: 22371, Stop: 24767, Start Num: 99

Candidate Starts for Terminus_26:

(Start: 99 @22371 has 123 MA's), (152, 22548), (160, 22569), (199, 22716), (223, 22857), (229, 22890), (235, 22923), (240, 22959), (262, 23052), (276, 23112), (281, 23130), (307, 23262), (314, 23307), (339, 23439), (351, 23484), (363, 23544), (385, 23658), (390, 23679), (398, 23718), (401, 23739), (404, 23754), (430, 23904), (431, 23910), (433, 23928), (445, 23982), (460, 24066), (480, 24159), (510, 24405), (536, 24621), (545, 24705), (552, 24738),

Gene: ThetaBob_20 Start: 17751, Stop: 20231, Start Num: 65

Candidate Starts for ThetaBob_20:

(Start: 65 @17751 has 3 MA's), (70, 17757), (72, 17763), (Start: 99 @17826 has 123 MA's), (101, 17829), (107, 17856), (128, 17910), (131, 17919), (141, 17952), (147, 17985), (159, 18018), (168, 18057), (172, 18072), (179, 18108), (180, 18114), (181, 18117), (189, 18135), (194, 18147), (197, 18159), (201, 18183), (202, 18186), (227, 18330), (230, 18339), (235, 18363), (237, 18387), (244, 18411), (245, 18417), (251, 18438), (252, 18441), (255, 18459), (262, 18489), (270, 18519), (274, 18540), (295, 18633), (298, 18648), (299, 18657), (303, 18678), (304, 18681), (311, 18723), (319, 18765), (320, 18768), (321, 18777), (324, 18804), (326, 18813), (334, 18852), (337, 18873), (339, 18876), (349, 18912), (354, 18933), (367, 19011), (368, 19014), (382, 19068), (392, 19128), (409, 19221), (411, 19242), (419, 19278), (427, 19332), (430, 19341), (443, 19419), (446, 19437), (450, 19473), (452, 19476), (457, 19494), (458, 19497), (460, 19512), (464, 19533), (473, 19569), (475, 19581), (486, 19644), (490, 19677), (497, 19764), (503, 19812), (505, 19836), (509, 19863), (510, 19872), (514, 19911), (520, 19950), (523, 19974), (526, 19995), (536, 20091), (539, 20112), (548, 20175), (552, 20202), (553, 20211),

Gene: Thoth_30 Start: 24313, Stop: 26583, Start Num: 23

Candidate Starts for Thoth_30:

(Start: 23 @24313 has 22 MA's), (34, 24448), (35, 24457), (Start: 71 @24631 has 2 MA's), (73, 24637), (76, 24649), (123, 24802), (127, 24817), (133, 24832), (211, 25213), (213, 25219), (218, 25264), (234, 25351), (278, 25552), (279, 25558), (289, 25606), (297, 25636), (301, 25660), (337, 25849), (346, 25876), (357, 25924), (369, 25996), (375, 26035), (381, 26056), (383, 26071), (386, 26089), (395, 26119), (408, 26203), (441, 26404), (447, 26446), (472, 26572),

Gene: Thresher_27 Start: 23038, Stop: 25434, Start Num: 99

Candidate Starts for Thresher_27:

(Start: 99 @23038 has 123 MA's), (152, 23215), (160, 23236), (199, 23383), (229, 23557), (235, 23590), (240, 23626), (262, 23719), (276, 23779), (281, 23797), (307, 23929), (314, 23974), (339, 24106), (351, 24151), (385, 24325), (390, 24346), (398, 24385), (401, 24406), (404, 24421), (430, 24571), (431, 24577), (433, 24595), (445, 24649), (460, 24733), (480, 24826), (510, 25072), (536, 25288), (545, 25372), (552, 25405),

Gene: Thumb_29 Start: 25682, Stop: 28525, Start Num: 25

Candidate Starts for Thumb_29:

(Start: 25 @25682 has 8 MA's), (44, 25814), (46, 25826), (48, 25835), (59, 25904), (87, 25970), (89, 25991), (103, 26039), (111, 26081), (122, 26105), (134, 26138), (143, 26174), (145, 26186), (167, 26279), (179, 26336), (189, 26375), (223, 26570), (228, 26600), (236, 26642), (269, 26783), (272, 26801), (289, 26882), (298, 26921), (301, 26942), (325, 27080), (333, 27119), (368, 27284), (384, 27356), (392, 27398), (394, 27410), (410, 27509), (478, 27872), (517, 28142), (521, 28175), (524, 28199), (536, 28319), (546, 28397), (555, 28484), (556, 28499), (557, 28505),

Gene: Tomaszewski_25 Start: 21884, Stop: 24280, Start Num: 99

Candidate Starts for Tomaszewski_25:

(Start: 99 @21884 has 123 MA's), (152, 22061), (160, 22082), (199, 22229), (223, 22370), (229, 22403), (235, 22436), (240, 22472), (262, 22565), (276, 22625), (281, 22643), (307, 22775), (314, 22820), (339, 22952), (351, 22997), (385, 23171), (390, 23192), (398, 23231), (401, 23252), (404, 23267), (431, 23423), (433, 23441), (445, 23495), (460, 23579), (480, 23672), (510, 23918), (536, 24134), (545, 24218), (552, 24251),

Gene: TootsiePop_19 Start: 17273, Stop: 19798, Start Num: 63

Candidate Starts for TootsiePop_19:

(Start: 63 @17273 has 221 MA's), (72, 17294), (Start: 86 @17315 has 1 MA's), (95, 17354), (118, 17423), (124, 17432), (125, 17435), (131, 17453), (141, 17486), (144, 17501), (156, 17549), (178, 17660), (179, 17663), (194, 17708), (208, 17786), (212, 17810), (222, 17876), (230, 17921), (235, 17951), (236, 17957), (237, 17975), (244, 17999), (246, 18008), (254, 18041), (255, 18047), (262, 18077), (272, 18116), (274, 18128), (276, 18137), (280, 18152), (281, 18155), (310, 18302), (319, 18353), (338, 18464), (352, 18515), (356, 18539), (371, 18632), (384, 18677), (385, 18686), (390, 18707), (392, 18719), (393, 18722), (401, 18767), (409, 18812), (410, 18830), (411, 18833), (420, 18884), (430, 18935), (431, 18941), (433, 18959), (437, 18971), (440, 18980), (445, 19013), (460, 19094), (475, 19163), (480, 19190), (483, 19217), (491, 19268), (494, 19316), (526, 19559), (536, 19664), (539, 19685), (547, 19739), (551, 19763),

Gene: Tootsieroll_19 Start: 17239, Stop: 19776, Start Num: 63

Candidate Starts for Tootsieroll_19:

(60, 17227), (Start: 63 @17239 has 221 MA's), (72, 17260), (Start: 86 @17281 has 1 MA's), (95, 17320), (118, 17389), (124, 17398), (125, 17401), (131, 17419), (141, 17452), (144, 17467), (156, 17515), (177, 17620), (178, 17626), (179, 17629), (193, 17671), (194, 17674), (212, 17776), (222, 17842), (230, 17887), (235, 17917), (236, 17923), (237, 17941), (244, 17965), (246, 17974), (254, 18007), (255, 18013), (262, 18043), (274, 18094), (276, 18103), (299, 18211), (301, 18223), (303, 18232), (304, 18235), (306, 18250), (309, 18265), (310, 18268), (312, 18289), (319, 18319), (321,

18331), (325, 18364), (351, 18475), (352, 18478), (357, 18505), (358, 18511), (367, 18565), (368, 18568), (371, 18595), (390, 18670), (392, 18682), (393, 18685), (405, 18751), (408, 18772), (409, 18775), (411, 18796), (413, 18805), (423, 18865), (424, 18868), (430, 18898), (433, 18922), (437, 18934), (440, 18943), (457, 19039), (460, 19057), (462, 19066), (464, 19078), (477, 19144), (480, 19153), (481, 19165), (486, 19189), (490, 19225), (506, 19381), (523, 19516), (527, 19540), (532, 19594), (539, 19663), (544, 19708), (545, 19711),

Gene: Toron_20 Start: 17872, Stop: 20292, Start Num: 93

Candidate Starts for Toron_20:

(93, 17872), (98, 17878), (101, 17884), (123, 17947), (130, 17971), (132, 17974), (150, 18037), (176, 18145), (179, 18154), (194, 18175), (196, 18184), (211, 18274), (217, 18319), (227, 18379), (246, 18475), (259, 18532), (267, 18556), (278, 18604), (280, 18613), (281, 18616), (291, 18664), (299, 18706), (304, 18730), (305, 18739), (306, 18745), (310, 18763), (312, 18784), (315, 18796), (319, 18814), (321, 18826), (325, 18859), (337, 18922), (339, 18925), (343, 18940), (347, 18952), (367, 19060), (370, 19084), (379, 19111), (382, 19117), (390, 19165), (394, 19189), (401, 19225), (402, 19231), (404, 19240), (420, 19354), (421, 19369), (437, 19447), (458, 19558), (460, 19573), (462, 19582), (480, 19669), (486, 19705), (490, 19741), (494, 19795), (523, 20032), (527, 20056), (539, 20179), (544, 20224), (551, 20257),

Gene: Totinger_19 Start: 17189, Stop: 19726, Start Num: 63

Candidate Starts for Totinger_19:

(Start: 63 @17189 has 221 MA's), (72, 17210), (Start: 86 @17231 has 1 MA's), (95, 17270), (118, 17339), (124, 17348), (125, 17351), (131, 17369), (144, 17417), (177, 17570), (179, 17579), (194, 17624), (211, 17723), (212, 17726), (222, 17792), (235, 17867), (236, 17873), (237, 17891), (244, 17915), (245, 17921), (246, 17924), (254, 17957), (255, 17963), (262, 17993), (269, 18014), (274, 18044), (276, 18053), (280, 18068), (281, 18071), (303, 18182), (304, 18185), (305, 18194), (306, 18200), (309, 18215), (310, 18218), (312, 18239), (319, 18269), (321, 18281), (325, 18314), (351, 18425), (352, 18428), (357, 18455), (358, 18461), (367, 18515), (368, 18518), (390, 18620), (392, 18632), (393, 18635), (405, 18701), (409, 18725), (411, 18746), (413, 18755), (423, 18815), (424, 18818), (431, 18854), (433, 18872), (437, 18884), (440, 18893), (444, 18920), (455, 18977), (457, 18989), (460, 19007), (462, 19016), (464, 19028), (473, 19064), (477, 19094), (480, 19103), (481, 19115), (490, 19175), (494, 19229), (501, 19289), (506, 19331), (523, 19466), (527, 19490), (532, 19544), (536, 19592), (542, 19634), (544, 19658), (545, 19661),

Gene: Toto_26 Start: 22284, Stop: 24680, Start Num: 99

Candidate Starts for Toto_26:

(Start: 99 @22284 has 123 MA's), (152, 22461), (160, 22482), (199, 22629), (223, 22770), (229, 22803), (235, 22836), (240, 22872), (262, 22965), (276, 23025), (281, 23043), (311, 23199), (314, 23220), (336, 23340), (339, 23352), (351, 23397), (390, 23592), (393, 23607), (401, 23652), (404, 23667), (431, 23823), (433, 23841), (436, 23850), (460, 23979), (461, 23982), (493, 24192), (495, 24204), (510, 24318), (536, 24534), (545, 24618), (550, 24642), (552, 24651),

Gene: Traaww1_24 Start: 21929, Stop: 24325, Start Num: 99

Candidate Starts for Traaww1_24:

(Start: 99 @21929 has 123 MA's), (152, 22106), (160, 22127), (199, 22274), (223, 22415), (229, 22448), (235, 22481), (240, 22517), (262, 22610), (276, 22670), (281, 22688), (298, 22769), (339, 22997), (351, 23042), (390, 23237), (391, 23243), (393, 23252), (401, 23297), (404, 23312), (431, 23468), (433, 23486), (436, 23495), (446, 23549), (460, 23624), (461, 23627), (493, 23837), (495, 23849), (510, 23963), (536, 24179), (545, 24263), (550, 24287), (552, 24296),

Gene: Troll4_30 Start: 24317, Stop: 26587, Start Num: 23

Candidate Starts for Troll4_30:

(Start: 23 @24317 has 22 MA's), (34, 24452), (35, 24461), (Start: 71 @24635 has 2 MA's), (73, 24641), (76, 24653), (123, 24806), (127, 24821), (133, 24836), (211, 25217), (213, 25223), (218, 25268), (234, 25355), (278, 25556), (279, 25562), (289, 25610), (297, 25640), (301, 25664), (337, 25853), (346, 25880), (357, 25928), (369, 26000), (375, 26039), (381, 26060), (383, 26075), (386, 26093), (395, 26123), (408, 26207), (441, 26408), (447, 26450), (472, 26576),

Gene: Tuco_27 Start: 22799, Stop: 25195, Start Num: 99

Candidate Starts for Tuco_27:

(Start: 99 @22799 has 123 MA's), (152, 22976), (160, 22997), (199, 23144), (223, 23285), (229, 23318), (235, 23351), (240, 23387), (262, 23480), (276, 23540), (281, 23558), (298, 23639), (339, 23867), (351, 23912), (390, 24107), (391, 24113), (393, 24122), (401, 24167), (404, 24182), (431, 24338), (433, 24356), (436, 24365), (446, 24419), (460, 24494), (461, 24497), (493, 24707), (495, 24719), (510, 24833), (536, 25049), (545, 25133), (550, 25157), (552, 25166),

Gene: Tweety_18 Start: 17451, Stop: 19988, Start Num: 63

Candidate Starts for Tweety_18:

(60, 17439), (Start: 63 @17451 has 221 MA's), (72, 17472), (Start: 86 @17493 has 1 MA's), (95, 17532), (118, 17601), (124, 17610), (125, 17613), (131, 17631), (141, 17664), (144, 17679), (156, 17727), (178, 17838), (179, 17841), (188, 17871), (194, 17886), (208, 17964), (212, 17988), (222, 18054), (230, 18099), (235, 18129), (236, 18135), (237, 18153), (244, 18177), (246, 18186), (254, 18219), (255, 18225), (262, 18255), (272, 18294), (274, 18306), (276, 18315), (280, 18330), (281, 18333), (303, 18444), (304, 18447), (305, 18456), (306, 18462), (309, 18477), (310, 18480), (312, 18501), (319, 18531), (321, 18543), (325, 18576), (339, 18642), (351, 18687), (352, 18690), (357, 18717), (358, 18723), (367, 18777), (368, 18780), (387, 18867), (390, 18882), (392, 18894), (393, 18897), (405, 18963), (409, 18987), (411, 19008), (413, 19017), (420, 19059), (423, 19077), (424, 19080), (431, 19116), (433, 19134), (437, 19146), (440, 19155), (444, 19182), (457, 19251), (460, 19269), (462, 19278), (464, 19290), (473, 19326), (477, 19356), (481, 19377), (486, 19401), (490, 19437), (494, 19491), (501, 19551), (506, 19593), (523, 19728), (527, 19752), (532, 19806), (536, 19854), (542, 19896), (544, 19920), (545, 19923),

Gene: Ukulele_26 Start: 22042, Stop: 24438, Start Num: 99

Candidate Starts for Ukulele_26:

(Start: 99 @22042 has 123 MA's), (152, 22219), (160, 22240), (199, 22387), (229, 22561), (235, 22594), (240, 22630), (262, 22723), (276, 22783), (281, 22801), (307, 22933), (314, 22978), (339, 23110), (351, 23155), (363, 23215), (385, 23329), (390, 23350), (398, 23389), (401, 23410), (404, 23425), (430, 23575), (431, 23581), (433, 23599), (445, 23653), (460, 23737), (480, 23830), (510, 24076), (536, 24292), (545, 24376), (552, 24409),

Gene: UncleRicky_19 Start: 17219, Stop: 19756, Start Num: 63

Candidate Starts for UncleRicky_19:

(60, 17207), (Start: 63 @17219 has 221 MA's), (72, 17240), (Start: 86 @17261 has 1 MA's), (95, 17300), (118, 17369), (124, 17378), (125, 17381), (131, 17399), (141, 17432), (144, 17447), (156, 17495), (177, 17600), (179, 17609), (193, 17651), (194, 17654), (208, 17732), (212, 17756), (222, 17822), (230, 17867), (235, 17897), (236, 17903), (237, 17921), (244, 17945), (246, 17954), (254, 17987), (255, 17993), (262, 18023), (272, 18062), (274, 18074), (276, 18083), (280, 18098), (281, 18101), (303, 18212), (305, 18224), (306, 18230), (309, 18245), (310, 18248), (312, 18269), (319, 18299), (321, 18311), (325, 18344), (339, 18410), (351, 18455), (352, 18458), (357, 18485), (358, 18491), (367, 18545), (368, 18548), (371, 18575), (390, 18650), (392, 18662), (393, 18665), (405, 18731), (409, 18755), (413, 18785), (420, 18827), (423, 18845), (424, 18848), (431, 18884), (433, 18902), (440, 18923), (444, 18950), (457, 19019), (460, 19037), (462, 19046), (464, 19058), (473, 19094), (477, 19124), (480, 19133), (481, 19145), (490, 19205), (494, 19259), (501, 19319), (506, 19361), (515, 19439), (523, 19496), (527, 19520), (532, 19574), (536, 19622), (542, 19664), (544, 19688), (545, 19691),

Gene: VRedHorse_18 Start: 17564, Stop: 20101, Start Num: 63

Candidate Starts for VRedHorse_18:

(60, 17552), (Start: 63 @17564 has 221 MA's), (72, 17585), (Start: 86 @17606 has 1 MA's), (94, 17642), (95, 17645), (118, 17714), (124, 17723), (125, 17726), (131, 17744), (141, 17777), (144, 17792), (156, 17840), (177, 17945), (178, 17951), (179, 17954), (193, 17996), (194, 17999), (212, 18101), (222, 18167), (230, 18212), (235, 18242), (236, 18248), (237, 18266), (244, 18290), (246, 18299), (254, 18332), (255, 18338), (269, 18389), (272, 18407), (274, 18419), (276, 18428), (280, 18443), (282, 18449), (303, 18557), (305, 18569), (306, 18575), (309, 18590), (310, 18593), (312, 18614), (319, 18644), (321, 18656), (325, 18689), (339, 18755), (351, 18800), (352, 18803), (357, 18830), (358, 18836), (367, 18890), (368, 18893), (390, 18995), (392, 19007), (393, 19010), (405, 19076), (409, 19100), (411, 19121), (413, 19130), (423, 19190), (424, 19193), (431, 19229), (433, 19247), (440, 19268), (444, 19295), (457, 19364), (460, 19382), (462, 19391), (464, 19403), (473, 19439), (481, 19490), (484, 19508), (490, 19550), (494, 19604), (506, 19706), (515, 19784), (523, 19841), (527, 19865), (532, 19919), (536, 19967), (544, 20033), (545, 20036),

Gene: Vagabond_58 Start: 35926, Stop: 38436, Start Num: 82

Candidate Starts for Vagabond_58:

(Start: 82 @35926 has 28 MA's), (90, 35959), (105, 36028), (106, 36031), (115, 36055), (125, 36079), (135, 36103), (141, 36136), (183, 36343), (186, 36355), (187, 36358), (215, 36505), (217, 36535), (222, 36559), (230, 36589), (231, 36592), (235, 36619), (237, 36643), (245, 36673), (258, 36730), (263, 36754), (272, 36790), (274, 36802), (280, 36826), (281, 36829), (289, 36871), (309, 36967), (310, 36970), (361, 37225), (390, 37369), (401, 37429), (410, 37501), (411, 37504), (428, 37600), (460, 37774), (464, 37795), (482, 37888), (485, 37900), (494, 37990), (504, 38065), (514, 38110), (538, 38311), (543, 38365), (548, 38380),

Gene: Veteran_18 Start: 17402, Stop: 19939, Start Num: 63

Candidate Starts for Veteran_18:

(Start: 63 @17402 has 221 MA's), (72, 17423), (Start: 86 @17444 has 1 MA's), (95, 17483), (118, 17552), (124, 17561), (125, 17564), (131, 17582), (141, 17615), (144, 17630), (177, 17783), (179, 17792), (194, 17837), (211, 17936), (212, 17939), (222, 18005), (235, 18080), (236, 18086), (244, 18128), (245, 18134), (246, 18137), (254, 18170), (255, 18176), (262, 18206), (269, 18227), (274, 18257), (276, 18266), (280, 18281), (281, 18284), (303, 18395), (304, 18398), (305, 18407), (306, 18413), (309, 18428), (310, 18431), (312, 18452), (319, 18482), (321, 18494), (325, 18527), (351, 18638), (352, 18641), (357, 18668), (358, 18674), (367, 18728), (368, 18731), (387, 18818), (390, 18833), (392, 18845), (393, 18848), (405, 18914), (409, 18938), (411, 18959), (413, 18968), (420, 19010), (423, 19028), (424, 19031), (430, 19061), (433, 19085), (437, 19097), (440, 19106), (457, 19202), (460, 19220), (462, 19229), (464, 19241), (473, 19277), (477, 19307), (480, 19316), (481, 19328), (490, 19388), (494, 19442), (501, 19502), (506, 19544), (523, 19679), (527, 19703), (532, 19757), (536, 19805), (542, 19847), (544, 19871), (545, 19874),

Gene: Visconti_30 Start: 24326, Stop: 26596, Start Num: 23

Candidate Starts for Visconti_30:

(Start: 23 @24326 has 22 MA's), (34, 24461), (35, 24470), (Start: 71 @24644 has 2 MA's), (73, 24650), (76, 24662), (123, 24815), (127, 24830), (133, 24845), (211, 25226), (213, 25232), (218, 25277), (234, 25364), (278, 25565), (279, 25571), (289, 25619), (297, 25649), (301, 25673), (337, 25862), (346, 25889), (357, 25937), (369, 26009), (375, 26048), (381, 26069), (383, 26084), (386, 26102), (395, 26132), (408, 26216), (441, 26417), (447, 26459), (472, 26585),

Gene: Vivum_18 Start: 17344, Stop: 19881, Start Num: 63

Candidate Starts for Vivum_18:

(Start: 63 @17344 has 221 MA's), (72, 17365), (Start: 86 @17386 has 1 MA's), (95, 17425), (118, 17494), (124, 17503), (125, 17506), (131, 17524), (144, 17572), (177, 17725), (179, 17734), (194,

17779), (211, 17878), (212, 17881), (222, 17947), (235, 18022), (236, 18028), (237, 18046), (244, 18070), (245, 18076), (246, 18079), (254, 18112), (255, 18118), (262, 18148), (269, 18169), (274, 18199), (276, 18208), (280, 18223), (281, 18226), (303, 18337), (304, 18340), (305, 18349), (306, 18355), (309, 18370), (310, 18373), (312, 18394), (319, 18424), (321, 18436), (325, 18469), (351, 18580), (352, 18583), (357, 18610), (358, 18616), (367, 18670), (368, 18673), (390, 18775), (392, 18787), (393, 18790), (405, 18856), (409, 18880), (411, 18901), (413, 18910), (423, 18970), (424, 18973), (431, 19009), (433, 19027), (437, 19039), (440, 19048), (444, 19075), (455, 19132), (457, 19144), (460, 19162), (462, 19171), (464, 19183), (473, 19219), (477, 19249), (480, 19258), (481, 19270), (490, 19330), (494, 19384), (501, 19444), (506, 19486), (523, 19621), (527, 19645), (532, 19699), (536, 19747), (542, 19789), (544, 19813), (545, 19816),

Gene: Vorrps_58 Start: 36138, Stop: 38648, Start Num: 82

Candidate Starts for Vorrps_58:

(Start: 82 @36138 has 28 MA's), (90, 36171), (105, 36240), (106, 36243), (115, 36267), (125, 36291), (135, 36315), (141, 36348), (183, 36555), (186, 36567), (187, 36570), (215, 36717), (217, 36747), (222, 36771), (230, 36801), (231, 36804), (235, 36831), (237, 36855), (245, 36885), (258, 36942), (263, 36966), (272, 37002), (274, 37014), (280, 37038), (281, 37041), (289, 37083), (309, 37179), (310, 37182), (361, 37437), (390, 37581), (401, 37641), (410, 37713), (411, 37716), (428, 37812), (460, 37986), (464, 38007), (482, 38100), (485, 38112), (494, 38202), (504, 38277), (514, 38322), (538, 38523), (543, 38577), (548, 38592),

Gene: Wachhund_18 Start: 17422, Stop: 19959, Start Num: 63

Candidate Starts for Wachhund_18:

(Start: 63 @17422 has 221 MA's), (72, 17443), (Start: 86 @17464 has 1 MA's), (95, 17503), (118, 17572), (124, 17581), (125, 17584), (131, 17602), (144, 17650), (178, 17809), (179, 17812), (194, 17857), (208, 17935), (211, 17956), (212, 17959), (222, 18025), (235, 18100), (236, 18106), (244, 18148), (245, 18154), (246, 18157), (254, 18190), (255, 18196), (262, 18226), (269, 18247), (274, 18277), (276, 18286), (299, 18394), (303, 18415), (304, 18418), (305, 18427), (306, 18433), (309, 18448), (310, 18451), (312, 18472), (319, 18502), (321, 18514), (325, 18547), (351, 18658), (352, 18661), (357, 18688), (358, 18694), (367, 18748), (368, 18751), (387, 18838), (390, 18853), (392, 18865), (393, 18868), (405, 18934), (411, 18979), (413, 18988), (423, 19048), (424, 19051), (431, 19087), (433, 19105), (437, 19117), (440, 19126), (444, 19153), (457, 19222), (460, 19240), (462, 19249), (464, 19261), (473, 19297), (477, 19327), (481, 19348), (486, 19372), (490, 19408), (494, 19462), (501, 19522), (506, 19564), (523, 19699), (527, 19723), (532, 19777), (536, 19825), (542, 19867), (544, 19891), (545, 19894),

Gene: WaldoWhy_31 Start: 24322, Stop: 26592, Start Num: 23

Candidate Starts for WaldoWhy_31:

(Start: 23 @24322 has 22 MA's), (34, 24457), (35, 24466), (Start: 71 @24640 has 2 MA's), (73, 24646), (76, 24658), (123, 24811), (127, 24826), (133, 24841), (211, 25222), (213, 25228), (218, 25273), (234, 25360), (278, 25561), (279, 25567), (289, 25615), (297, 25645), (301, 25669), (337, 25858), (346, 25885), (357, 25933), (369, 26005), (375, 26044), (381, 26065), (383, 26080), (386, 26098), (395, 26128), (408, 26212), (441, 26413), (447, 26455), (472, 26581),

Gene: Wanda_39 Start: 29807, Stop: 32362, Start Num: 63

Candidate Starts for Wanda_39:

(Start: 63 @29807 has 221 MA's), (131, 30002), (141, 30038), (144, 30053), (156, 30101), (178, 30212), (179, 30215), (188, 30245), (194, 30260), (208, 30338), (212, 30362), (222, 30428), (230, 30473), (235, 30503), (236, 30509), (237, 30527), (244, 30551), (246, 30560), (254, 30593), (255, 30599), (262, 30629), (272, 30668), (274, 30680), (276, 30689), (280, 30704), (281, 30707), (303, 30818), (304, 30821), (305, 30830), (306, 30836), (309, 30851), (310, 30854), (312, 30875), (319, 30905), (321, 30917), (325, 30950), (339, 31016), (351, 31061), (352, 31064), (357, 31091), (358, 31097), (367, 31151), (368, 31154), (387, 31241), (390, 31256), (392, 31268), (393, 31271), (405,

31337), (411, 31382), (413, 31391), (423, 31451), (424, 31454), (431, 31490), (433, 31508), (437, 31520), (440, 31529), (444, 31556), (457, 31625), (460, 31643), (462, 31652), (464, 31664), (473, 31700), (477, 31730), (481, 31751), (486, 31775), (490, 31811), (494, 31865), (501, 31925), (506, 31967), (523, 32102), (527, 32126), (532, 32180), (536, 32228), (542, 32270), (544, 32294), (545, 32297),

Gene: Wee_19 Start: 17971, Stop: 20508, Start Num: 63

Candidate Starts for Wee_19:

(60, 17959), (Start: 63 @17971 has 221 MA's), (72, 17992), (Start: 86 @18013 has 1 MA's), (95, 18052), (118, 18121), (124, 18130), (125, 18133), (131, 18151), (141, 18184), (144, 18199), (156, 18247), (177, 18352), (178, 18358), (179, 18361), (193, 18403), (194, 18406), (208, 18484), (222, 18574), (230, 18619), (235, 18649), (236, 18655), (237, 18673), (244, 18697), (246, 18706), (254, 18739), (255, 18745), (262, 18775), (272, 18814), (274, 18826), (276, 18835), (280, 18850), (281, 18853), (303, 18964), (304, 18967), (305, 18976), (306, 18982), (309, 18997), (310, 19000), (312, 19021), (319, 19051), (321, 19063), (325, 19096), (339, 19162), (351, 19207), (352, 19210), (357, 19237), (358, 19243), (367, 19297), (368, 19300), (387, 19387), (390, 19402), (392, 19414), (393, 19417), (405, 19483), (411, 19528), (413, 19537), (423, 19597), (424, 19600), (431, 19636), (433, 19654), (437, 19666), (440, 19675), (444, 19702), (457, 19771), (460, 19789), (462, 19798), (464, 19810), (473, 19846), (477, 19876), (481, 19897), (486, 19921), (490, 19957), (494, 20011), (501, 20071), (506, 20113), (523, 20248), (527, 20272), (532, 20326), (536, 20374), (542, 20416), (544, 20440), (545, 20443),

Gene: Weiss13_30 Start: 24327, Stop: 27827, Start Num: 1

Candidate Starts for Weiss13_30:

(Start: 1 @24327 has 8 MA's), (4, 24339), (Start: 5 @24351 has 1 MA's), (8, 24534), (10, 24615), (14, 24714), (15, 24738), (16, 24756), (26, 24915), (29, 24948), (39, 24996), (42, 25011), (44, 25035), (67, 25161), (Start: 71 @25170 has 2 MA's), (120, 25356), (166, 25557), (201, 25734), (217, 25833), (223, 25866), (234, 25911), (236, 25923), (244, 25965), (247, 25977), (260, 26043), (276, 26127), (279, 26142), (285, 26172), (306, 26277), (316, 26328), (322, 26373), (331, 26418), (341, 26463), (347, 26484), (351, 26502), (352, 26505), (353, 26511), (354, 26514), (377, 26652), (388, 26700), (389, 26706), (400, 26766), (404, 26787), (419, 26880), (427, 26940), (430, 26949), (431, 26955), (434, 26976), (454, 27081), (465, 27141), (480, 27207), (481, 27219), (484, 27237), (486, 27243), (512, 27477), (516, 27516), (522, 27561), (526, 27591), (535, 27684), (539, 27711),

Gene: Whatsapiecost_18 Start: 17447, Stop: 19984, Start Num: 63

Candidate Starts for Whatsapiecost_18:

(60, 17435), (Start: 63 @17447 has 221 MA's), (72, 17468), (Start: 86 @17489 has 1 MA's), (95, 17528), (118, 17597), (124, 17606), (125, 17609), (131, 17627), (141, 17660), (144, 17675), (156, 17723), (178, 17834), (179, 17837), (188, 17867), (193, 17879), (194, 17882), (208, 17960), (212, 17984), (222, 18050), (230, 18095), (235, 18125), (236, 18131), (237, 18149), (244, 18173), (246, 18182), (254, 18215), (255, 18221), (262, 18251), (272, 18290), (274, 18302), (276, 18311), (280, 18326), (281, 18329), (303, 18440), (304, 18443), (305, 18452), (306, 18458), (309, 18473), (310, 18476), (312, 18497), (319, 18527), (321, 18539), (325, 18572), (351, 18683), (352, 18686), (357, 18713), (358, 18719), (367, 18773), (368, 18776), (390, 18878), (392, 18890), (393, 18893), (405, 18959), (409, 18983), (411, 19004), (413, 19013), (423, 19073), (424, 19076), (431, 19112), (433, 19130), (437, 19142), (440, 19151), (444, 19178), (457, 19247), (460, 19265), (462, 19274), (464, 19286), (473, 19322), (477, 19352), (481, 19373), (486, 19397), (490, 19433), (494, 19487), (501, 19547), (506, 19589), (515, 19667), (523, 19724), (527, 19748), (532, 19802), (536, 19850), (542, 19892), (544, 19916), (545, 19919),

Gene: Whouxphf_18 Start: 17504, Stop: 20041, Start Num: 63

Candidate Starts for Whouxphf_18:

(Start: 63 @17504 has 221 MA's), (72, 17525), (Start: 86 @17546 has 1 MA's), (95, 17585), (118, 17654), (124, 17663), (125, 17666), (131, 17684), (144, 17732), (178, 17891), (179, 17894), (194, 17939), (211, 18038), (212, 18041), (235, 18182), (236, 18188), (244, 18230), (245, 18236), (246, 18239), (254, 18272), (255, 18278), (262, 18308), (269, 18329), (274, 18359), (276, 18368), (299, 18476), (301, 18488), (303, 18497), (304, 18500), (305, 18509), (306, 18515), (309, 18530), (310, 18533), (312, 18554), (321, 18596), (325, 18629), (357, 18770), (358, 18776), (367, 18830), (368, 18833), (371, 18860), (390, 18935), (392, 18947), (393, 18950), (405, 19016), (409, 19040), (411, 19061), (413, 19070), (420, 19112), (423, 19130), (424, 19133), (430, 19163), (433, 19187), (440, 19208), (457, 19304), (460, 19322), (462, 19331), (464, 19343), (473, 19379), (477, 19409), (480, 19418), (481, 19430), (490, 19490), (506, 19646), (515, 19724), (523, 19781), (527, 19805), (532, 19859), (536, 19907), (539, 19928), (544, 19973), (545, 19976),

Gene: Wiggin_29 Start: 22788, Stop: 25184, Start Num: 99

Candidate Starts for Wiggin_29:

(Start: 99 @22788 has 123 MA's), (152, 22965), (160, 22986), (199, 23133), (229, 23307), (235, 23340), (240, 23376), (262, 23469), (276, 23529), (281, 23547), (307, 23679), (314, 23724), (339, 23856), (351, 23901), (363, 23961), (385, 24075), (390, 24096), (398, 24135), (401, 24156), (404, 24171), (430, 24321), (431, 24327), (433, 24345), (445, 24399), (460, 24483), (480, 24576), (510, 24822), (536, 25038), (545, 25122), (552, 25155),

Gene: Wildcat_43 Start: 28342, Stop: 30909, Start Num: 58

Candidate Starts for Wildcat_43:

(Start: 58 @28342 has 6 MA's), (Start: 86 @28411 has 1 MA's), (117, 28534), (119, 28540), (121, 28543), (129, 28567), (137, 28588), (170, 28744), (172, 28750), (174, 28756), (179, 28786), (180, 28792), (194, 28813), (196, 28822), (207, 28882), (218, 28960), (236, 29059), (241, 29092), (245, 29107), (246, 29110), (255, 29149), (269, 29200), (272, 29218), (276, 29239), (278, 29245), (284, 29272), (289, 29299), (303, 29368), (308, 29392), (311, 29413), (314, 29434), (318, 29443), (321, 29464), (325, 29497), (326, 29500), (336, 29551), (339, 29563), (355, 29629), (359, 29647), (365, 29686), (390, 29803), (399, 29848), (408, 29905), (411, 29929), (413, 29938), (416, 29956), (423, 30001), (430, 30034), (435, 30070), (469, 30244), (473, 30262), (474, 30268), (483, 30325), (522, 30649), (525, 30667), (530, 30718), (537, 30781), (544, 30856),

Gene: Wildflower_58 Start: 35650, Stop: 38160, Start Num: 82

Candidate Starts for Wildflower_58:

(Start: 82 @35650 has 28 MA's), (90, 35683), (105, 35752), (106, 35755), (115, 35779), (125, 35803), (135, 35827), (141, 35860), (183, 36067), (186, 36079), (187, 36082), (215, 36229), (217, 36259), (222, 36283), (230, 36313), (231, 36316), (235, 36343), (237, 36367), (245, 36397), (258, 36454), (272, 36514), (274, 36526), (280, 36550), (281, 36553), (289, 36595), (309, 36691), (310, 36694), (361, 36949), (390, 37093), (401, 37153), (410, 37225), (411, 37228), (428, 37324), (460, 37498), (464, 37519), (482, 37612), (485, 37624), (494, 37714), (504, 37789), (514, 37834), (538, 38035), (543, 38089), (548, 38104),

Gene: WillSterrel_19 Start: 18757, Stop: 21294, Start Num: 63

Candidate Starts for WillSterrel_19:

(Start: 63 @18757 has 221 MA's), (72, 18778), (Start: 86 @18799 has 1 MA's), (95, 18838), (118, 18907), (124, 18916), (125, 18919), (131, 18937), (144, 18985), (177, 19138), (179, 19147), (194, 19192), (211, 19291), (212, 19294), (222, 19360), (235, 19435), (236, 19441), (237, 19459), (244, 19483), (245, 19489), (246, 19492), (254, 19525), (255, 19531), (262, 19561), (269, 19582), (274, 19612), (276, 19621), (280, 19636), (281, 19639), (303, 19750), (304, 19753), (305, 19762), (306, 19768), (309, 19783), (310, 19786), (312, 19807), (319, 19837), (321, 19849), (325, 19882), (351, 19993), (352, 19996), (357, 20023), (358, 20029), (367, 20083), (368, 20086), (387, 20173), (390, 20188), (392, 20200), (393, 20203), (405, 20269), (409, 20293), (411, 20314), (413, 20323), (423, 20383), (424, 20386), (431, 20422), (433, 20440), (437, 20452), (440, 20461), (444, 20488), (455,

20545), (457, 20557), (460, 20575), (462, 20584), (464, 20596), (473, 20632), (477, 20662), (480, 20671), (481, 20683), (490, 20743), (494, 20797), (501, 20857), (506, 20899), (523, 21034), (527, 21058), (532, 21112), (536, 21160), (542, 21202), (544, 21226), (545, 21229),

Gene: Willez_25 Start: 21788, Stop: 24184, Start Num: 99

Candidate Starts for Willez_25:

(Start: 99 @21788 has 123 MA's), (152, 21965), (160, 21986), (199, 22133), (223, 22274), (229, 22307), (235, 22340), (240, 22376), (262, 22469), (276, 22529), (281, 22547), (307, 22679), (314, 22724), (339, 22856), (351, 22901), (363, 22961), (385, 23075), (390, 23096), (398, 23135), (401, 23156), (404, 23171), (430, 23321), (431, 23327), (433, 23345), (445, 23399), (460, 23483), (480, 23576), (510, 23822), (536, 24038), (545, 24122), (552, 24155),

Gene: Winget_59 Start: 36356, Stop: 38866, Start Num: 82

Candidate Starts for Winget_59:

(Start: 82 @36356 has 28 MA's), (90, 36389), (105, 36458), (106, 36461), (115, 36485), (125, 36509), (135, 36533), (141, 36566), (183, 36773), (186, 36785), (187, 36788), (215, 36935), (217, 36965), (222, 36989), (230, 37019), (231, 37022), (235, 37049), (237, 37073), (245, 37103), (258, 37160), (263, 37184), (272, 37220), (274, 37232), (280, 37256), (281, 37259), (289, 37301), (309, 37397), (310, 37400), (361, 37655), (390, 37799), (401, 37859), (410, 37931), (411, 37934), (428, 38030), (460, 38204), (464, 38225), (482, 38318), (485, 38330), (494, 38420), (504, 38495), (514, 38540), (538, 38741), (543, 38795), (548, 38810),

Gene: XFactor_18 Start: 17403, Stop: 19940, Start Num: 63

Candidate Starts for XFactor_18:

(60, 17391), (Start: 63 @17403 has 221 MA's), (72, 17424), (Start: 86 @17445 has 1 MA's), (95, 17484), (118, 17553), (124, 17562), (125, 17565), (131, 17583), (141, 17616), (144, 17631), (156, 17679), (178, 17790), (179, 17793), (188, 17823), (194, 17838), (208, 17916), (212, 17940), (222, 18006), (230, 18051), (235, 18081), (236, 18087), (237, 18105), (244, 18129), (246, 18138), (254, 18171), (255, 18177), (262, 18207), (272, 18246), (274, 18258), (276, 18267), (280, 18282), (281, 18285), (303, 18396), (304, 18399), (305, 18408), (306, 18414), (309, 18429), (310, 18432), (312, 18453), (319, 18483), (321, 18495), (325, 18528), (351, 18639), (352, 18642), (357, 18669), (358, 18675), (367, 18729), (368, 18732), (390, 18834), (392, 18846), (393, 18849), (405, 18915), (409, 18939), (411, 18960), (413, 18969), (423, 19029), (424, 19032), (431, 19068), (433, 19086), (437, 19098), (440, 19107), (444, 19134), (457, 19203), (460, 19221), (462, 19230), (464, 19242), (473, 19278), (477, 19308), (481, 19329), (486, 19353), (490, 19389), (494, 19443), (501, 19503), (506, 19545), (515, 19623), (523, 19680), (527, 19704), (532, 19758), (536, 19806), (542, 19848), (544, 19872), (545, 19875),

Gene: Xandras_28 Start: 22274, Stop: 24670, Start Num: 99

Candidate Starts for Xandras_28:

(Start: 99 @22274 has 123 MA's), (152, 22451), (160, 22472), (199, 22619), (229, 22793), (235, 22826), (240, 22862), (262, 22955), (276, 23015), (281, 23033), (307, 23165), (314, 23210), (339, 23342), (351, 23387), (363, 23447), (385, 23561), (390, 23582), (398, 23621), (401, 23642), (404, 23657), (430, 23807), (431, 23813), (433, 23831), (445, 23885), (460, 23969), (480, 24062), (510, 24308), (536, 24524), (545, 24608), (552, 24641),

Gene: YassJohnny_27 Start: 22799, Stop: 25195, Start Num: 99

Candidate Starts for YassJohnny_27:

(Start: 99 @22799 has 123 MA's), (152, 22976), (160, 22997), (199, 23144), (223, 23285), (229, 23318), (235, 23351), (240, 23387), (262, 23480), (276, 23540), (281, 23558), (307, 23690), (314, 23735), (339, 23867), (351, 23912), (385, 24086), (390, 24107), (398, 24146), (401, 24167), (404, 24182), (431, 24338), (433, 24356), (445, 24410), (460, 24494), (480, 24587), (510, 24833), (536, 25049), (545, 25133), (552, 25166),

Gene: Yelo_30 Start: 24620, Stop: 28120, Start Num: 1

Candidate Starts for Yelo_30:

(Start: 1 @24620 has 8 MA's), (4, 24632), (Start: 5 @24644 has 1 MA's), (8, 24827), (10, 24908), (14, 25007), (15, 25031), (16, 25049), (26, 25208), (29, 25241), (39, 25289), (44, 25328), (67, 25454), (Start: 71 @25463 has 2 MA's), (120, 25649), (166, 25850), (201, 26027), (217, 26126), (223, 26159), (234, 26204), (244, 26258), (246, 26267), (247, 26270), (260, 26336), (276, 26420), (279, 26435), (285, 26465), (306, 26570), (316, 26621), (322, 26666), (331, 26711), (341, 26756), (347, 26777), (351, 26795), (352, 26798), (353, 26804), (354, 26807), (377, 26945), (388, 26993), (389, 26999), (400, 27059), (404, 27080), (419, 27173), (427, 27233), (430, 27242), (431, 27248), (434, 27269), (465, 27434), (480, 27500), (481, 27512), (484, 27530), (486, 27536), (512, 27770), (516, 27809), (522, 27854), (526, 27884), (535, 27977), (539, 28004),

Gene: Yorick_18 Start: 17404, Stop: 19956, Start Num: 63

Candidate Starts for Yorick_18:

(Start: 63 @17404 has 221 MA's), (95, 17485), (118, 17554), (124, 17563), (125, 17566), (131, 17584), (144, 17632), (155, 17677), (178, 17791), (179, 17794), (182, 17806), (189, 17827), (193, 17836), (194, 17839), (202, 17887), (208, 17917), (217, 17983), (223, 18016), (230, 18052), (234, 18076), (245, 18136), (246, 18139), (251, 18157), (267, 18220), (269, 18223), (272, 18241), (276, 18262), (281, 18280), (287, 18307), (291, 18328), (298, 18361), (305, 18403), (306, 18409), (307, 18412), (310, 18427), (313, 18454), (314, 18457), (319, 18478), (321, 18490), (325, 18523), (347, 18616), (367, 18724), (370, 18748), (371, 18754), (378, 18772), (379, 18775), (384, 18799), (390, 18829), (394, 18853), (401, 18889), (402, 18895), (404, 18904), (408, 18931), (417, 18994), (420, 19018), (421, 19033), (430, 19075), (441, 19126), (458, 19222), (460, 19237), (462, 19246), (468, 19270), (480, 19333), (486, 19369), (521, 19675), (527, 19720), (536, 19822),

Gene: Yoshi_24 Start: 17092, Stop: 19641, Start Num: 52

Candidate Starts for Yoshi_24:

(50, 17083), (Start: 52 @17092 has 7 MA's), (Start: 63 @17152 has 221 MA's), (77, 17185), (80, 17188), (104, 17257), (113, 17287), (168, 17467), (172, 17482), (179, 17518), (180, 17524), (189, 17545), (197, 17569), (201, 17593), (227, 17740), (230, 17749), (235, 17773), (237, 17797), (244, 17821), (245, 17827), (251, 17848), (255, 17869), (262, 17899), (270, 17929), (274, 17950), (295, 18043), (298, 18058), (299, 18067), (303, 18088), (304, 18091), (319, 18175), (320, 18178), (321, 18187), (326, 18223), (334, 18262), (337, 18283), (339, 18286), (349, 18322), (354, 18343), (367, 18421), (368, 18424), (382, 18478), (392, 18538), (407, 18625), (409, 18631), (410, 18649), (411, 18652), (419, 18688), (427, 18742), (430, 18751), (443, 18829), (446, 18847), (450, 18883), (452, 18886), (457, 18904), (458, 18907), (460, 18922), (473, 18979), (475, 18991), (486, 19054), (490, 19087), (497, 19174), (503, 19222), (505, 19246), (509, 19273), (510, 19282), (514, 19321), (520, 19360), (523, 19384), (526, 19405), (536, 19501), (539, 19522), (548, 19585), (552, 19612), (553, 19621),

Gene: Youngblood_26 Start: 22452, Stop: 24848, Start Num: 99

Candidate Starts for Youngblood_26:

(Start: 99 @22452 has 123 MA's), (152, 22629), (160, 22650), (199, 22797), (223, 22938), (229, 22971), (235, 23004), (240, 23040), (262, 23133), (276, 23193), (281, 23211), (307, 23343), (314, 23388), (339, 23520), (351, 23565), (363, 23625), (385, 23739), (390, 23760), (398, 23799), (401, 23820), (404, 23835), (431, 23991), (433, 24009), (445, 24063), (460, 24147), (480, 24240), (510, 24486), (536, 24702), (545, 24786), (552, 24819),

Gene: YungJamal_63 Start: 37548, Stop: 40058, Start Num: 82

Candidate Starts for YungJamal_63:

(Start: 82 @37548 has 28 MA's), (90, 37581), (105, 37650), (106, 37653), (115, 37677), (125, 37701), (135, 37725), (141, 37758), (183, 37965), (186, 37977), (187, 37980), (215, 38127), (217, 38157),

(222, 38181), (230, 38211), (231, 38214), (235, 38241), (237, 38265), (245, 38295), (258, 38352), (272, 38412), (274, 38424), (280, 38448), (281, 38451), (289, 38493), (309, 38589), (310, 38592), (361, 38847), (390, 38991), (401, 39051), (410, 39123), (411, 39126), (428, 39222), (460, 39396), (464, 39417), (482, 39510), (485, 39522), (494, 39612), (504, 39687), (514, 39732), (538, 39933), (543, 39987), (548, 40002),

Gene: Zakhe101_58 Start: 36194, Stop: 38704, Start Num: 82

Candidate Starts for Zakhe101_58:

(Start: 82 @36194 has 28 MA's), (90, 36227), (105, 36296), (106, 36299), (115, 36323), (125, 36347), (135, 36371), (141, 36404), (183, 36611), (186, 36623), (187, 36626), (215, 36773), (217, 36803), (222, 36827), (230, 36857), (231, 36860), (235, 36887), (237, 36911), (245, 36941), (258, 36998), (272, 37058), (274, 37070), (280, 37094), (281, 37097), (289, 37139), (309, 37235), (310, 37238), (361, 37493), (390, 37637), (401, 37697), (410, 37769), (411, 37772), (428, 37868), (460, 38042), (464, 38063), (482, 38156), (485, 38168), (494, 38258), (504, 38333), (514, 38378), (538, 38579), (543, 38633), (548, 38648),

Gene: Zapner_25 Start: 17617, Stop: 20169, Start Num: 52

Candidate Starts for Zapner_25:

(50, 17608), (Start: 52 @17617 has 7 MA's), (Start: 63 @17677 has 221 MA's), (80, 17713), (113, 17812), (159, 17953), (168, 17992), (172, 18007), (179, 18043), (180, 18049), (181, 18052), (189, 18070), (197, 18094), (201, 18118), (202, 18121), (227, 18265), (230, 18274), (235, 18298), (237, 18322), (244, 18346), (245, 18352), (251, 18373), (252, 18376), (255, 18394), (262, 18427), (270, 18457), (274, 18478), (295, 18571), (298, 18586), (299, 18595), (303, 18616), (304, 18619), (311, 18661), (319, 18703), (320, 18706), (321, 18715), (324, 18742), (326, 18751), (334, 18790), (337, 18811), (339, 18814), (349, 18850), (354, 18871), (367, 18949), (368, 18952), (382, 19006), (392, 19066), (407, 19153), (409, 19159), (411, 19180), (419, 19216), (427, 19270), (430, 19279), (443, 19357), (446, 19375), (450, 19411), (452, 19414), (457, 19432), (460, 19450), (473, 19507), (475, 19519), (486, 19582), (490, 19615), (497, 19702), (503, 19750), (505, 19774), (510, 19810), (514, 19849), (520, 19888), (523, 19912), (526, 19933), (536, 20029), (539, 20050), (546, 20110), (548, 20113), (552, 20140),

Gene: Zebo_57 Start: 36132, Stop: 38609, Start Num: 90

Candidate Starts for Zebo_57:

(Start: 82 @36099 has 28 MA's), (90, 36132), (105, 36201), (106, 36204), (115, 36228), (125, 36252), (135, 36276), (141, 36309), (183, 36516), (186, 36528), (187, 36531), (215, 36678), (217, 36708), (222, 36732), (230, 36762), (231, 36765), (235, 36792), (237, 36816), (245, 36846), (258, 36903), (263, 36927), (272, 36963), (274, 36975), (280, 36999), (281, 37002), (289, 37044), (309, 37140), (310, 37143), (361, 37398), (390, 37542), (401, 37602), (410, 37674), (411, 37677), (428, 37773), (460, 37947), (464, 37968), (482, 38061), (485, 38073), (494, 38163), (504, 38238), (514, 38283), (538, 38484), (543, 38538), (548, 38553),

Gene: Zenon_31 Start: 24639, Stop: 28139, Start Num: 1

Candidate Starts for Zenon_31:

(Start: 1 @24639 has 8 MA's), (4, 24651), (Start: 5 @24663 has 1 MA's), (8, 24846), (10, 24927), (14, 25026), (15, 25050), (16, 25068), (26, 25227), (29, 25260), (39, 25308), (44, 25347), (67, 25473), (Start: 71 @25482 has 2 MA's), (120, 25668), (166, 25869), (201, 26046), (217, 26145), (223, 26178), (234, 26223), (236, 26235), (244, 26277), (247, 26289), (260, 26355), (276, 26439), (279, 26454), (285, 26484), (306, 26589), (316, 26640), (322, 26685), (331, 26730), (341, 26775), (347, 26796), (351, 26814), (352, 26817), (353, 26823), (354, 26826), (377, 26964), (388, 27012), (389, 27018), (400, 27078), (404, 27099), (419, 27192), (427, 27252), (430, 27261), (431, 27267), (434, 27288), (465, 27453), (480, 27519), (481, 27531), (484, 27549), (486, 27555), (512, 27789), (516, 27828), (522, 27873), (526, 27903), (535, 27996), (539, 28023),

Gene: Zerg_18 Start: 17367, Stop: 19904, Start Num: 63

Candidate Starts for Zerg_18:

(Start: 63 @17367 has 221 MA's), (102, 17457), (118, 17517), (124, 17526), (125, 17529), (131, 17547), (144, 17595), (177, 17748), (179, 17757), (194, 17802), (211, 17901), (212, 17904), (222, 17970), (235, 18045), (236, 18051), (237, 18069), (244, 18093), (245, 18099), (246, 18102), (254, 18135), (255, 18141), (262, 18171), (269, 18192), (274, 18222), (276, 18231), (280, 18246), (281, 18249), (303, 18360), (304, 18363), (305, 18372), (306, 18378), (309, 18393), (310, 18396), (312, 18417), (319, 18447), (321, 18459), (325, 18492), (351, 18603), (352, 18606), (357, 18633), (358, 18639), (367, 18693), (368, 18696), (387, 18783), (390, 18798), (392, 18810), (393, 18813), (405, 18879), (409, 18903), (411, 18924), (413, 18933), (423, 18993), (424, 18996), (431, 19032), (433, 19050), (437, 19062), (440, 19071), (444, 19098), (455, 19155), (457, 19167), (460, 19185), (462, 19194), (464, 19206), (473, 19242), (477, 19272), (480, 19281), (481, 19293), (490, 19353), (494, 19407), (501, 19467), (506, 19509), (523, 19644), (527, 19668), (532, 19722), (536, 19770), (542, 19812), (544, 19836), (545, 19839),

Gene: Zizzle_18 Start: 17375, Stop: 19900, Start Num: 63

Candidate Starts for Zizzle_18:

(Start: 63 @17375 has 221 MA's), (95, 17456), (118, 17525), (124, 17534), (125, 17537), (131, 17555), (144, 17603), (155, 17648), (178, 17762), (179, 17765), (189, 17798), (194, 17810), (208, 17888), (217, 17954), (223, 17987), (232, 18041), (235, 18053), (245, 18107), (246, 18110), (249, 18119), (256, 18152), (267, 18191), (269, 18194), (271, 18209), (272, 18212), (278, 18239), (279, 18245), (280, 18248), (281, 18251), (287, 18278), (290, 18296), (291, 18299), (305, 18374), (309, 18395), (310, 18398), (313, 18425), (319, 18449), (325, 18494), (326, 18497), (336, 18548), (352, 18611), (354, 18620), (358, 18644), (379, 18749), (380, 18752), (390, 18803), (391, 18809), (392, 18815), (393, 18818), (401, 18863), (404, 18878), (408, 18905), (411, 18929), (420, 18980), (423, 18998), (424, 19001), (425, 19013), (437, 19067), (460, 19190), (474, 19253), (484, 19316), (492, 19391), (518, 19592), (541, 19802), (547, 19841), (548, 19844),

Gene: xkcd_27 Start: 22453, Stop: 24849, Start Num: 99

Candidate Starts for xkcd_27:

(Start: 99 @22453 has 123 MA's), (152, 22630), (160, 22651), (199, 22798), (223, 22939), (229, 22972), (235, 23005), (240, 23041), (262, 23134), (276, 23194), (281, 23212), (307, 23344), (314, 23389), (339, 23521), (351, 23566), (385, 23740), (390, 23761), (398, 23800), (401, 23821), (404, 23836), (431, 23992), (433, 24010), (445, 24064), (460, 24148), (480, 24241), (510, 24487), (536, 24703), (545, 24787), (552, 24820),