

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 294371 Report

This analysis was run 04/18/26 on database version 643.

Pham number 294371 has 314 members, 55 are drafts.

Phages represented in each track:

- Track 1 : Steamy_27
- Track 2 : Pharaoh_26
- Track 3 : Refuge_29
- Track 4 : Zimmer_28
- Track 5 : DarthPhader_27
- Track 6 : 40AC_29
- Track 7 : Kimona_22
- Track 8 : SemperFi_28, SweetiePie_26, QueenBeesly_26, Georgie2_27, Crucio_26, FiringLine_26
- Track 9 : AbbyPaige_28
- Track 10 : Dalmatian_26, Retro23_26
- Track 11 : JoshKayV_28
- Track 12 : ArcherNM_28
- Track 13 : ANI8_29, AN9_29, C3_24, VC3_29
- Track 14 : MajorMajor_25, Bradman_25, Quokka_24
- Track 15 : DudeLittle_26
- Track 16 : Miko_29
- Track 17 : AnnaL29_29
- Track 18 : GaugeLDP_28
- Track 19 : Trooper_26
- Track 20 : Baehexic_27, Gratitude_27, Equemioh13_28, MiculUcigas_26, Terrific_30, WideWale_28, Updawg_28
- Track 21 : Tomathan_29, Kerberos_29
- Track 22 : Benvolio_26, Echild_26
- Track 23 : BengiVuitton_27
- Track 24 : Fameo_26, QueenB2_26
- Track 25 : Dignity_28
- Track 26 : Loser_29
- Track 27 : Turbido_28
- Track 28 : Naji_29, D29_26, D32_29, Travvers_29
- Track 29 : Buggy_28, Agape74_28
- Track 30 : AN3_26, VA6_26
- Track 31 : Superchunk_25
- Track 32 : Kalpine_29
- Track 33 : Jsquared_25
- Track 34 : DBQu4n_29, Duplo_29
- Track 35 : Odin_25

- Track 36 : Larenn_27
- Track 37 : Drake55_28
- Track 38 : NaSiaTalie_26
- Track 39 : KingCyrus_28, ChipMunk_28
- Track 40 : Anselm_26
- Track 41 : Malec_27
- Track 42 : NicoleTera_30
- Track 43 : MissWhite_26
- Track 44 : Centaur_28
- Track 45 : Leogania_28
- Track 46 : DeerParkTS_27
- Track 47 : RedRock_29
- Track 48 : Koduck_27
- Track 49 : HippoHollow_27
- Track 50 : Journey13_24
- Track 51 : LadyBird_26
- Track 52 : Jerm_28
- Track 53 : EvilGenius_28
- Track 54 : LionsBait_27
- Track 55 : 20ES_26
- Track 56 : Colin_30
- Track 57 : ForesterFrank_27
- Track 58 : Loka_29
- Track 59 : Prudy_28
- Track 60 : Caraxes_25
- Track 61 : Adzzy_27
- Track 62 : Serenity_25
- Track 63 : BiancaTri92_28
- Track 64 : Rachaly_29
- Track 65 : EZMoney23_30
- Track 66 : WeiHuaDA_32
- Track 67 : Changeling_28
- Track 68 : Leviathan_28
- Track 69 : Flare16_26
- Track 70 : StarStuff_29
- Track 71 : Deloris_27
- Track 72 : Pomar16_29
- Track 73 : LilTurb_28
- Track 74 : L5_26
- Track 75 : Smeagan_28
- Track 76 : TarsusIV_26
- Track 77 : Heffalump_28
- Track 78 : Ph8s_27
- Track 79 : Acolyte_26
- Track 80 : Power_26
- Track 81 : Piro94_27
- Track 82 : Che12_28
- Track 83 : HarryHoudini_28
- Track 84 : CRB1_26
- Track 85 : Trixie_29
- Track 86 : BobSwaget_29
- Track 87 : TopsytheTRex_25
- Track 88 : SnapTap_26

- Track 89 : SwirlSquare_27
- Track 90 : Sknot_26
- Track 91 : NothingSpecial_28
- Track 92 : XianYue_26
- Track 93 : First_0026
- Track 94 : BabyBack_28
- Track 95 : Whabigail7_28
- Track 96 : AgronaGT15_27, HashRod_28, Sabinator_27, Fernando_27, MarQuardt_27, Hercules11_27, Wooldri_29, Montavir_26, Misomonster_29, Penny1_27, Dieselweasel_27, EpicPhail_27, Vix_27, BuzzBuzz_26, LarryKay_27, Colbster_27, Bigflo_27, PotatoSplit_28, KADY_28, Daishi_26, Anubis_29, SoYo_27, Cullens_27, Tiffany_27, GtownJaz_27, Beauxregard13_27, JenCasNa_27, GingkoMaracino_27, JHC117_27, Marie_27, Methuselah_26, Gwennie_26, TinyPebbles_27, Bxz2_26, Croquant_28, Louie6_27, Soshari_29, MoneyMay_27, Taurus_27, LugYA_29
- Track 97 : Texage_25, Norbert_25, Pocahontas_26, Noella_26, ResDef_26, Popcicle_26, Hookmount_26, EtoileNova_26, Panamaxus_25, Lambert1_26
- Track 98 : LBerry_27
- Track 99 : Kalb97_28, Phranny_28, Reba_28, PurpleHaze_27, Marius_28, Calvinny_28, ClownCar_28, HaveUMetTed_28, Manu_28, Pawn_27, Heliosoles_27, Gemma_27, Groupthink_28, Kalnok_28
- Track 100 : StepMih_27, MuchMore_29, DaHudson_27, Iowa_27, Grub_27, Sabia_27, AugsMagnumOpus_29, Mainiac_27, Lilith_27, BreSam8_27, Watson_27, Malinsilva_29, Stagni_27, Pembroke_27, Phoebe_27, Microwolf_27, Farber_27, MadMarie_27, PGHhamlin_29
- Track 101 : Grum1_27
- Track 102 : B1_23, JF4_25, JF2_25, MK4_25, Isca_25, Rockstar_25
- Track 103 : Phoxy_27, Spike509_27
- Track 104 : Phantastic_25
- Track 105 : Bugatti_25, Puppy_26, Pistachio_26, TNguyen7_25, Idleandcovert_25, Clammy_25, Giroux_26, BlueBird_26, SaturnRing_25
- Track 106 : Fred313_25, HelDan_25, Kachowdy_25, Heathen_25
- Track 107 : DropBear_25, Marchesa_25
- Track 108 : Scout_25
- Track 109 : Jobu08_27, SoilDragon_27
- Track 110 : Roimos_25
- Track 111 : Todacoro_26, Caviar_26, Margo_26, Veracruz_25, QuinnKiro_25
- Track 112 : MA5_25
- Track 113 : Zetzy_26
- Track 114 : Aglet_27
- Track 115 : ACFishhook_27
- Track 116 : BabyJohn_24, Chiqui_24
- Track 117 : JeppNRM_28
- Track 118 : Rummer_27
- Track 119 : P28Green_27
- Track 120 : BabyRay_25
- Track 121 : OlanP_27
- Track 122 : PhishRPhriends_26
- Track 123 : Grif_27
- Track 124 : Ollie_27
- Track 125 : Snickers_27
- Track 126 : Zarafa_25
- Track 127 : Koko_29

- Track 128 : Sheen_27
- Track 129 : Toro_28, FlyCatcher_29
- Track 130 : DroogsArmy_26
- Track 131 : HINdeR_25
- Track 132 : Timshel_26
- Track 133 : Jiawan_26
- Track 134 : Darrell_28
- Track 135 : Qobbit_27, ExplosioNervosa_27, Pioneer_27, Phonnegut_27, Beemo_27
- Track 136 : Charm_26
- Track 137 : Elephantoan_27
- Track 138 : Keziacharles14_25
- Track 139 : BogosyJay_27
- Track 140 : Ugenie5_24, Scherzo_27
- Track 141 : Ayanochan_28, EdogawaKiddo_25, Sachima_25
- Track 142 : Catalina_27
- Track 143 : Maminiaina_27
- Track 144 : RyeScarlet_28, Hanray_26
- Track 145 : Onglai_26
- Track 146 : LoneWolf_27
- Track 147 : Eidsmoe_27, Alma_27, Spouty_27, Priya_27
- Track 148 : Minispark_24
- Track 149 : EmyBug_27
- Track 150 : SheaKeira_26
- Track 151 : Aliter_27, Fayely_27, Phaeder_27, Tubs_27, PackMan_27, Myxus_27, HortumSL17_27
- Track 152 : Conquerage_27
- Track 153 : Lilleskat_25
- Track 154 : Celestialunch_26
- Track 155 : Rahalelujah_25
- Track 156 : Arissanae_25
- Track 157 : Vanisoa_25
- Track 158 : DreamTeam1_26
- Track 159 : Halex_26
- Track 160 : Yecey3_26
- Track 161 : WorldCup_24, Bellris_24, CogOmlette_24
- Track 162 : Toaka_25
- Track 163 : Klodlith_26
- Track 164 : MegTheThird_25

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

The start number called the most often in the published annotations is 56, it was called in 91 of the 259 non-draft genes in the pham.

Genes that call this "Most Annotated" start:

• 20ES_26, 40AC_29, AN3_26, AN9_29, ANI8_29, AbbyPaige_28, Agape74_28, AnnaL29_29, Anselm_26, ArcherNM_28, BabyBack_28, Baehexic_27, BengiVuitton_27, Benvolio_26, BiancaTri92_28, BobSwaget_29, Bradman_25, Buggy_28, C3_24, CRB1_26, Centaur_28, Changeling_28, ChipMunk_28, Colin_30,

Crucio_26, D29_26, D32_29, DBQu4n_29, Dalmatian_26, DeerParkTS_27, Deloris_27, Dignity_28, Drake55_28, DudeLittle_26, Duplo_29, EZMoney23_30, Echild_26, Equemioh13_28, EvilGenius_28, Fameo_26, FiringLine_26, First_0026, Flare16_26, ForesterFrank_27, GaugeLDP_28, Georgie2_27, Gratitude_27, HarryHoudini_28, Heffalump_28, HippoHollow_27, Jerm_28, JoshKayV_28, Journey13_24, Jsquared_25, Kalpine_29, Kerberos_29, KingCyrus_28, Koduck_27, Koko_29, L5_26, LadyBird_26, Larenn_27, Leogania_28, Leviathan_28, LilTurb_28, LionsBait_27, Lokk_29, Loser_29, MajorMajor_25, Malec_27, MiculUcigas_26, Miko_29, MissWhite_26, NaSiaTalie_26, Naji_29, NicoleTera_30, NothingSpecial_28, Piro94_27, Pomar16_29, Power_26, Prudy_28, QueenB2_26, QueenBeesly_26, Quokka_24, Rachaly_29, RedRock_29, Retro23_26, SemperFi_28, Serenity_25, Sknot_26, Smeagan_28, SnapTap_26, StarStuff_29, SweetiePie_26, TarsusIV_26, Terrific_30, TipsytheTRex_25, Tomathan_29, Travvers_29, Trixie_29, Trooper_26, Turbido_28, Updawg_28, VA6_26, VC3_29, WeiHuaDA_32, Whabigail7_28, WideWale_28, XianYue_26,

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

- Acolyte_26,

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

- ACFishhook_27, Adzzy_27, Aglet_27, AgronaGT15_27, Aliter_27, Alma_27, Anubis_29, Arissanae_25, AugsMagnumOpus_29, Ayanochan_28, B1_23, BabyJohn_24, BabyRay_25, Beauxregard13_27, Beemo_27, Bellris_24, Bigflo_27, BlueBird_26, BogosyJay_27, BreSam8_27, Bugatti_25, BuzzBuzz_26, Bxz2_26, Calvinny_28, Caraxes_25, Catalina_27, Caviar_26, Celestiallunch_26, Charm_26, Che12_28, Chiqui_24, Clammy_25, ClownCar_28, CogOmlette_24, Colbster_27, Conquerage_27, Croquant_28, Cullens_27, DaHudson_27, Daishi_26, Darrell_28, DARTHPhader_27, Dieselweasel_27, DreamTeam1_26, DroogsArmy_26, DropBear_25, EdogawaKiddo_25, Eidsmoe_27, Elephantoon_27, EmyBug_27, EpicPhail_27, EtoileNova_26, ExplosioNervosa_27, Farber_27, Fayely_27, Fernando_27, FlyCatcher_29, Fred313_25, Gemma_27, GingkoMaracino_27, Giroux_26, Grif_27, Groupthink_28, Grub_27, Grum1_27, GtownJaz_27, Gwennie_26, HINdeR_25, Hanray_26, HashRod_28, HaveUMetTed_28, Heathen_25, HelDan_25, Heliosoles_27, Hercules11_27, Halex_26, Hookmount_26, HortumSL17_27, Idleandcovert_25, Isca_25, JF2_25, JF4_25, JHC117_27, JenCasNa_27, JeppNRM_28, Jiawan_26, Jobu08_27, KADY_28, Kachowdy_25, Kalb97_28, Kalnoky_28, Keziacharles14_25, Kimona_22, Klodlith_26, LBerry_27, Lambert1_26, LarryKay_27, Lilith_27, Lilleskat_25, LoneWolf_27, Louie6_27, Lowa_27, LugYA_29, MA5_25, MK4_25, MadMarie_27, Mainiac_27, Malinsilva_29, Maminiaina_27, Manu_28, MarQuardt_27, Marchesa_25, Margo_26, Marie_27, Marius_28, MegTheThird_25, Methuselah_26, Microwolf_27, Minispark_24, Misomonster_29, MoneyMay_27, Montavir_26, MuchMore_29, Myxus_27, Noella_26, Norbert_25, Odin_25, OlanP_27, Ollie_27, Onglai_26, P28Green_27, PGHhamlin_29, PackMan_27, Panamaxus_25, Pawn_27, Pembroke_27, Penny1_27, Ph8s_27, Phaeder_27, Phantastic_25, Pharaoh_26, PhishRPhriends_26, Phoebe_27, Phonnegut_27, Phoxy_27, Phranny_28, Pioneer_27, Pistachio_26, Pocahontas_26, Popcicle_26, PotatoSplit_28, Priya_27, Puppy_26, PurpleHaze_27, Qobbit_27, QuinnKiro_25, Rahalelujah_25, Reba_28, Refuge_29, ResDef_26, Rockstar_25, Roimos_25, Rummer_27, RyeScarlet_28, Sabia_27, Sabinator_27, Sachima_25, SaturnRing_25, Scherzo_27, Scout_25, SheaKeira_26, Sheen_27, Snickers_27, SoYo_27, SoilDragon_27, Soshari_29, Spike509_27, Spouty_27, Stagni_27, Steamy_27, StepMih_27, Superchunk_25, SwirlSquare_27, TNguyen7_25, Taurus_27, Texage_25, Tiffany_27, Timshel_26,

TinyPebbles_27, Toaka_25, Todacoro_26, Toro_28, Tubs_27, Ugenie5_24, Vanisoa_25, Veracruz_25, Vix_27, Watson_27, Wooldri_29, WorldCup_24, Yecey3_26, Zarafa_25, Zetzy_26, Zimmer_28,

Summary by start number:

Start 3:

- Found in 6 of 314 (1.9%) of genes in pham
- Manual Annotations of this start: 4 of 259
- Called 100.0% of time when present
- Phage (with cluster) where this start called: DroogsArmy_26 (A7), FlyCatcher_29 (A7), HINdeR_25 (A7), Sheen_27 (A7), Timshel_26 (A7), Toro_28 (A7),

Start 8:

- Found in 3 of 314 (1.0%) of genes in pham
- Manual Annotations of this start: 1 of 259
- Called 66.7% of time when present
- Phage (with cluster) where this start called: Charm_26 (A9), Klodlith_26 (A9),

Start 9:

- Found in 3 of 314 (1.0%) of genes in pham
- No Manual Annotations of this start.
- Called 66.7% of time when present
- Phage (with cluster) where this start called: Celestiallunch_26 (A9), MegTheThird_25 (A9),

Start 11:

- Found in 44 of 314 (14.0%) of genes in pham
- Manual Annotations of this start: 33 of 259
- Called 100.0% of time when present
- Phage (with cluster) where this start called: B1_23 (A3), BabyJohn_24 (A3), BabyRay_25 (A3), BlueBird_26 (A3), Bugatti_25 (A3), Caviar_26 (A3), Chiqui_24 (A3), Clammy_25 (A3), DropBear_25 (A3), EtoileNova_26 (A3), Fred313_25 (A3), Giroux_26 (A3), Heathen_25 (A3), HelDan_25 (A3), Hookmount_26 (A3), Idleandcovert_25 (A3), Isca_25 (A3), JF2_25 (A3), JF4_25 (A3), Kachowdy_25 (A3), Lambert1_26 (A3), MA5_25 (A3), MK4_25 (A3), Marchesa_25 (A3), Margo_26 (A3), Noella_26 (A3), Norbert_25 (A3), Panamaxus_25 (A3), Phantastic_25 (A3), Pistachio_26 (A3), Pocahontas_26 (A3), Popcicle_26 (A3), Puppy_26 (A3), QuinnKiro_25 (A3), ResDef_26 (A3), Rockstar_25 (A3), Roimos_25 (A3), SaturnRing_25 (A3), Scout_25 (A3), TNguyen7_25 (A3), Texage_25 (A3), Todacoro_26 (A3), Veracruz_25 (A3), Zarafa_25 (A3),

Start 12:

- Found in 95 of 314 (30.3%) of genes in pham
- Manual Annotations of this start: 88 of 259
- Called 100.0% of time when present
- Phage (with cluster) where this start called: ACFishhook_27 (A3), Aglet_27 (A3), AgronaGT15_27 (A3), Anubis_29 (A3), AugsMagnumOpus_29 (A3), Beauxregard13_27 (A3), Bigflo_27 (A3), BreSam8_27 (A3), BuzzBuzz_26 (A3), Bxz2_26 (A3), Calvinny_28 (A3), ClownCar_28 (A3), Colbster_27 (A3), Croquant_28 (A3), Cullens_27 (A3), DaHudson_27 (A3), Daishi_26 (A3), DarthPhader_27 (A12), Dieselweasel_27 (A3), EpicPhail_27 (A3), Farber_27 (A3), Fernando_27 (A3), Gemma_27 (A3), GingkoMaracino_27 (A3), Grif_27 (A3), Groupthink_28 (A3),

Grub_27 (A3), Grum1_27 (A3), GtownJaz_27 (A3), Gwennie_26 (A3), HashRod_28 (A3), HaveUMetTed_28 (A3), Heliosoles_27 (A3), Hercules11_27 (A3), JHC117_27 (A3), JenCasNa_27 (A3), JeppNRM_28 (A3), Jobu08_27 (A3), KADY_28 (A3), Kalb97_28 (A3), Kalnoky_28 (A3), LBerry_27 (A3), LarryKay_27 (A3), Lilith_27 (A3), Louie6_27 (A3), Iowa_27 (A3), LugYA_29 (A3), MadMarie_27 (A3), Mainiac_27 (A3), Malinsilva_29 (A3), Manu_28 (A3), MarQuardt_27 (A3), Marie_27 (A3), Marius_28 (A3), Methuselah_26 (A3), Microwolf_27 (A3), Misomonster_29 (A3), MoneyMay_27 (A3), Montavir_26 (A3), MuchMore_29 (A3), OlanP_27 (A3), Ollie_27 (A3), P28Green_27 (A3), PGHhamlin_29 (A3), Pawn_27 (A3), Pembroke_27 (A3), Penny1_27 (A3), Pharaoh_26 (A12), PhishRPhriends_26 (A3), Phoebe_27 (A3), Phoxy_27 (A3), Phranny_28 (A3), PotatoSplit_28 (A3), PurpleHaze_27 (A3), Reba_28 (A3), Refuge_29 (A12), Rummer_27 (A3), Sabia_27 (A3), Sabinator_27 (A3), Snickers_27 (A3), SoYo_27 (A3), SoilDragon_27 (A3), Soshari_29 (A3), Spike509_27 (A3), Stagni_27 (A3), Steamy_27 (A12), StepMih_27 (A3), Taurus_27 (A3), Tiffany_27 (A3), TinyPebbles_27 (A3), Vix_27 (A3), Watson_27 (A3), Wooldri_29 (A3), Zetzy_26 (A3), Zimmer_28 (A12),

Start 13:

- Found in 1 of 314 (0.3%) of genes in pham
- Manual Annotations of this start: 1 of 259
- Called 100.0% of time when present
- Phage (with cluster) where this start called: Kimona_22 (A19),

Start 15:

- Found in 2 of 314 (0.6%) of genes in pham
- Manual Annotations of this start: 1 of 259
- Called 50.0% of time when present
- Phage (with cluster) where this start called: LoneWolf_27 (A9),

Start 17:

- Found in 1 of 314 (0.3%) of genes in pham
- Manual Annotations of this start: 1 of 259
- Called 100.0% of time when present
- Phage (with cluster) where this start called: Acolyte_26 (A2),

Start 25:

- Found in 146 of 314 (46.5%) of genes in pham
- Manual Annotations of this start: 33 of 259
- Called 31.5% of time when present
- Phage (with cluster) where this start called: Aliter_27 (A9), Alma_27 (A9), Arissanae_25 (A9), Ayanochan_28 (A9), Beemo_27 (A9), Bellris_24 (A9), BogosyJay_27 (A9), Catalina_27 (A9), CogOmlette_24 (A9), Conquerage_27 (A9), Darrell_28 (A9), DreamTeam1_26 (A9), EdogawaKiddo_25 (A9), Eidsmoe_27 (A9), Elephantoon_27 (A9), EmyBug_27 (A9), ExplosioNervosa_27 (A9), Fayely_27 (A9), Hanray_26 (A9), Halex_26 (A9), HortumSL17_27 (A9), Jiawan_26 (A9), Keziacharles14_25 (A9), Lilleskat_25 (A9), Maminiana_27 (A9), Minispark_24 (A9), Myxus_27 (A9), Onglai_26 (A9), PackMan_27 (A9), Phaeder_27 (A9), Phonnegut_27 (A9), Pioneer_27 (A9), Priya_27 (A9), Qobbit_27 (A9), Rahalelujah_25 (A9), RyeScarlet_28 (A9), Sachima_25 (A9), Scherzo_27 (A9), SheaKeira_26 (A9), Spouty_27 (A9), Toaka_25 (A9), Tubs_27 (A9), Ugenie5_24 (A9), Vanisoa_25 (A9), WorldCup_24 (A9), Yecey3_26 (A9),

Start 54:

- Found in 1 of 314 (0.3%) of genes in pham
- Manual Annotations of this start: 1 of 259
- Called 100.0% of time when present
- Phage (with cluster) where this start called: Odin_25 (A2),

Start 55:

- Found in 6 of 314 (1.9%) of genes in pham
- Manual Annotations of this start: 5 of 259
- Called 83.3% of time when present
- Phage (with cluster) where this start called: Adzzy_27 (A2), Che12_28 (A2), Ph8s_27 (A2), Superchunk_25 (A2), SwirlSquare_27 (A2),

Start 56:

- Found in 110 of 314 (35.0%) of genes in pham
- Manual Annotations of this start: 91 of 259
- Called 99.1% of time when present
- Phage (with cluster) where this start called: 20ES_26 (A2), 40AC_29 (A17), AN3_26 (A2), AN9_29 (A2), ANI8_29 (A2), AbbyPaige_28 (A2), Agape74_28 (A2), AnnaL29_29 (A2), Anselm_26 (A2), ArcherNM_28 (A2), BabyBack_28 (A2), Baehexic_27 (A2), BengiVuitton_27 (A2), Benvolio_26 (A2), BiancaTri92_28 (A2), BobSwaget_29 (A2), Bradman_25 (A2), Buggy_28 (A2), C3_24 (A2), CRB1_26 (A2), Centaur_28 (A2), Changeling_28 (A2), ChipMunk_28 (A2), Colin_30 (A2), Crucio_26 (A2), D29_26 (A2), D32_29 (A2), DBQu4n_29 (A2), Dalmatian_26 (A2), DeerParkTS_27 (A2), Deloris_27 (A2), Dignity_28 (A2), Drake55_28 (A2), DudeLittle_26 (A2), Duplo_29 (A2), EZMoney23_30 (A2), Echild_26 (A2), Equemioh13_28 (A2), EvilGenius_28 (A2), Fameo_26 (A2), FiringLine_26 (A2), First_0026 (A2), Flare16_26 (A2), ForesterFrank_27 (A2), GaugeLDP_28 (A2), Georgie2_27 (A2), Gratitude_27 (A2), HarryHoudini_28 (A2), Heffalump_28 (A2), HippoHollow_27 (A2), Jerm_28 (A2), JoshKayV_28 (A2), Journey13_24 (A2), Jsquared_25 (A2), Kalpine_29 (A2), Kerberos_29 (A2), KingCyrus_28 (A2), Koduck_27 (A2), Koko_29 (A6), L5_26 (A2), LadyBird_26 (A2), Larenn_27 (A2), Leogania_28 (A2), Leviathan_28 (A2), LilTurb_28 (A2), LionsBait_27 (A2), Lokk_29 (A2), Loser_29 (A2), MajorMajor_25 (A2), Malec_27 (A2), MiculUcigas_26 (A2), Miko_29 (A2), MissWhite_26 (A2), NaSiaTalie_26 (A2), Naji_29 (A2), NicoleTera_30 (A2), NothingSpecial_28 (A2), Piro94_27 (A2), Pomar16_29 (A2), Power_26 (A2), Prudy_28 (A2), QueenB2_26 (A2), QueenBeesly_26 (A2), Quokka_24 (A2), Rachaly_29 (A2), RedRock_29 (A2), Retro23_26 (A2), SemperFi_28 (A2), Serenity_25 (A2), Sknot_26 (A2), Smeagan_28 (A2), SnapTap_26 (A2), StarStuff_29 (A2), SweetiePie_26 (A2), TarsusIV_26 (A2), Terrific_30 (A2), TipsytheTRex_25 (A2), Tomathan_29 (A2), Travvers_29 (A2), Trixie_29 (A2), Trooper_26 (A2), Turbido_28 (A2), Updawg_28 (A2), VA6_26 (A2), VC3_29 (A2), WeiHuaDA_32 (A2), Whabigail7_28 (A2), WideWale_28 (A2), XianYue_26 (A2),

Start 59:

- Found in 7 of 314 (2.2%) of genes in pham
- No Manual Annotations of this start.
- Called 14.3% of time when present
- Phage (with cluster) where this start called: Caraxes_25 (A2),

Summary by clusters:

There are 8 clusters represented in this pham: A17, A12, A19, A3, A2, A7, A6, A9,

Info for manual annotations of cluster A12:

- Start number 12 was manually annotated 5 times for cluster A12.

Info for manual annotations of cluster A19:

- Start number 13 was manually annotated 1 time for cluster A19.

Info for manual annotations of cluster A2:

- Start number 17 was manually annotated 1 time for cluster A2.
- Start number 54 was manually annotated 1 time for cluster A2.
- Start number 55 was manually annotated 5 times for cluster A2.
- Start number 56 was manually annotated 90 times for cluster A2.

Info for manual annotations of cluster A3:

- Start number 11 was manually annotated 33 times for cluster A3.
- Start number 12 was manually annotated 83 times for cluster A3.

Info for manual annotations of cluster A6:

- Start number 56 was manually annotated 1 time for cluster A6.

Info for manual annotations of cluster A7:

- Start number 3 was manually annotated 4 times for cluster A7.

Info for manual annotations of cluster A9:

- Start number 8 was manually annotated 1 time for cluster A9.
- Start number 15 was manually annotated 1 time for cluster A9.
- Start number 25 was manually annotated 33 times for cluster A9.

Gene Information:

Gene: 20ES_26 Start: 16642, Stop: 19185, Start Num: 56

Candidate Starts for 20ES_26:

(23, 16390), (Start: 56 @16642 has 91 MA's), (84, 16822), (85, 16825), (91, 16855), (109, 16990), (111, 16999), (114, 17020), (115, 17029), (122, 17050), (128, 17083), (134, 17116), (148, 17209), (154, 17257), (156, 17275), (161, 17287), (164, 17308), (168, 17329), (171, 17350), (172, 17353), (195, 17539), (200, 17581), (201, 17590), (203, 17599), (214, 17656), (224, 17722), (230, 17761), (241, 17848), (257, 17947), (276, 18067), (278, 18076), (280, 18082), (281, 18091), (284, 18112), (289, 18136), (293, 18157), (298, 18178), (300, 18187), (306, 18217), (308, 18229), (311, 18244), (320, 18286), (339, 18379), (340, 18388), (345, 18415), (355, 18478), (376, 18661), (408, 18751), (410, 18760), (430, 18871), (434, 18901), (446, 18985),

Gene: 40AC_29 Start: 18647, Stop: 21385, Start Num: 56

Candidate Starts for 40AC_29:

(Start: 56 @18647 has 91 MA's), (73, 18758), (86, 18836), (91, 18860), (97, 18884), (107, 18989), (108, 18998), (111, 19028), (116, 19064), (132, 19145), (133, 19151), (134, 19154), (135, 19157), (149, 19265), (164, 19352), (166, 19364), (168, 19373), (180, 19457), (187, 19499), (197, 19595), (200, 19631), (207, 19673), (214, 19709), (217, 19736), (226, 19796), (264, 20042), (273, 20111), (276, 20123), (306, 20273), (326, 20399), (354, 20549), (356, 20561), (366, 20645), (388, 20831), (409, 20936), (415, 20966), (417, 20975), (430, 21074), (434, 21104), (444, 21170), (446, 21182), (459, 21323),

Gene: ACFishhook_27 Start: 16138, Stop: 19164, Start Num: 12

Candidate Starts for ACFishhook_27:

(4, 16084), (Start: 12 @16138 has 88 MA's), (20, 16252), (Start: 25 @16318 has 33 MA's), (26, 16321), (28, 16330), (36, 16366), (46, 16417), (57, 16489), (68, 16561), (86, 16681), (88, 16684), (98, 16753), (101, 16798), (115, 16891), (118, 16900), (128, 16945), (136, 16984), (139, 17008), (141, 17020), (145, 17053), (148, 17071), (150, 17092), (157, 17140), (159, 17146), (162, 17161), (164, 17170), (166, 17182), (168, 17191), (182, 17284), (194, 17371), (195, 17401), (196, 17404), (199, 17431), (200, 17443), (209, 17497), (214, 17518), (218, 17548), (224, 17584), (241, 17710), (252, 17764), (257, 17809), (266, 17857), (270, 17899), (271, 17908), (278, 17938), (291, 18010), (292, 18016), (297, 18037), (298, 18040), (301, 18052), (324, 18169), (325, 18178), (340, 18250), (341, 18253), (348, 18289), (350, 18310), (355, 18340), (356, 18343), (358, 18352), (377, 18535), (387, 18601), (390, 18613), (397, 18655), (413, 18718), (425, 18775), (429, 18844), (435, 18880), (447, 18961), (458, 19096), (459, 19108),

Gene: AN3_26 Start: 16626, Stop: 19163, Start Num: 56

Candidate Starts for AN3_26:

(Start: 56 @16626 has 91 MA's), (84, 16806), (85, 16809), (95, 16857), (109, 16968), (111, 16977), (114, 16998), (115, 17007), (122, 17028), (128, 17061), (134, 17094), (148, 17187), (154, 17235), (156, 17253), (161, 17265), (164, 17286), (168, 17307), (171, 17328), (172, 17331), (195, 17517), (200, 17559), (201, 17568), (214, 17634), (224, 17700), (227, 17727), (230, 17739), (241, 17826), (257, 17925), (276, 18045), (278, 18054), (280, 18060), (281, 18069), (284, 18090), (289, 18114), (293, 18135), (298, 18156), (299, 18162), (306, 18195), (308, 18207), (320, 18264), (340, 18366), (345, 18393), (355, 18456), (408, 18729), (410, 18738), (430, 18849), (434, 18879), (446, 18963),

Gene: AN9_29 Start: 16651, Stop: 19164, Start Num: 56

Candidate Starts for AN9_29:

(Start: 56 @16651 has 91 MA's), (84, 16831), (85, 16834), (103, 16945), (128, 17080), (138, 17140), (141, 17155), (144, 17185), (145, 17188), (156, 17272), (162, 17296), (167, 17320), (171, 17347), (172, 17350), (189, 17461), (195, 17536), (198, 17563), (200, 17578), (209, 17632), (214, 17653), (224, 17719), (226, 17737), (227, 17746), (241, 17845), (246, 17878), (249, 17887), (257, 17944), (261, 17959), (276, 18064), (298, 18175), (301, 18187), (302, 18193), (308, 18226), (333, 18346), (355, 18475), (359, 18490), (363, 18520), (365, 18532), (367, 18568), (392, 18682), (393, 18694), (404, 18736), (442, 18943), (445, 18961), (446, 18964), (464, 19150),

Gene: ANI8_29 Start: 16651, Stop: 19164, Start Num: 56

Candidate Starts for ANI8_29:

(Start: 56 @16651 has 91 MA's), (84, 16831), (85, 16834), (103, 16945), (128, 17080), (138, 17140), (141, 17155), (144, 17185), (145, 17188), (156, 17272), (162, 17296), (167, 17320), (171, 17347), (172, 17350), (189, 17461), (195, 17536), (198, 17563), (200, 17578), (209, 17632), (214, 17653), (224, 17719), (226, 17737), (227, 17746), (241, 17845), (246, 17878), (249, 17887), (257, 17944), (261, 17959), (276, 18064), (298, 18175), (301, 18187), (302, 18193), (308, 18226), (333, 18346), (355, 18475), (359, 18490), (363, 18520), (365, 18532), (367, 18568), (392, 18682), (393, 18694), (404, 18736), (442, 18943), (445, 18961), (446, 18964), (464, 19150),

Gene: AbbyPaige_28 Start: 17120, Stop: 19663, Start Num: 56

Candidate Starts for AbbyPaige_28:

(Start: 56 @17120 has 91 MA's), (84, 17300), (85, 17303), (91, 17333), (110, 17471), (111, 17477), (114, 17498), (115, 17507), (118, 17516), (122, 17528), (130, 17573), (134, 17594), (141, 17636), (148, 17687), (152, 17732), (154, 17735), (156, 17753), (164, 17786), (166, 17798), (168, 17807), (171, 17828), (172, 17831), (185, 17918), (195, 18017), (200, 18059), (201, 18068), (203, 18077), (214, 18134), (224, 18200), (230, 18239), (243, 18332), (249, 18368), (257, 18425), (268, 18491), (271, 18524), (275, 18539), (276, 18545), (278, 18554), (281, 18569), (284, 18590), (288, 18611), (292, 18632), (293, 18635), (297, 18653), (298, 18656), (308, 18707), (320, 18764), (323, 18782),

(327, 18806), (340, 18866), (345, 18893), (355, 18956), (363, 19001), (376, 19139), (408, 19229), (410, 19238), (420, 19262), (428, 19340), (430, 19349), (434, 19379), (446, 19463),

Gene: Acolyte_26 Start: 16749, Stop: 19700, Start Num: 17

Candidate Starts for Acolyte_26:

(Start: 17 @16749 has 1 MA's), (18, 16767), (26, 16872), (33, 16929), (34, 16941), (37, 16959), (44, 17031), (Start: 56 @17115 has 91 MA's), (81, 17310), (90, 17358), (93, 17382), (112, 17523), (115, 17550), (119, 17565), (125, 17598), (128, 17610), (138, 17670), (141, 17685), (147, 17727), (152, 17781), (154, 17784), (164, 17835), (166, 17847), (168, 17856), (171, 17877), (195, 18066), (198, 18093), (200, 18108), (209, 18162), (214, 18183), (224, 18249), (228, 18279), (235, 18324), (252, 18429), (253, 18441), (260, 18486), (266, 18522), (274, 18585), (284, 18639), (292, 18681), (297, 18702), (298, 18705), (303, 18726), (319, 18810), (320, 18813), (327, 18855), (355, 19005), (361, 19038), (363, 19050), (365, 19062), (367, 19098), (392, 19212), (408, 19281),

Gene: Adzzy_27 Start: 15361, Stop: 17886, Start Num: 55

Candidate Starts for Adzzy_27:

(Start: 55 @15361 has 5 MA's), (59, 15379), (73, 15484), (83, 15550), (84, 15553), (85, 15556), (91, 15586), (123, 15775), (128, 15805), (134, 15838), (135, 15841), (141, 15880), (148, 15931), (152, 15976), (157, 15997), (164, 16030), (167, 16045), (168, 16051), (171, 16072), (195, 16261), (198, 16288), (200, 16303), (209, 16357), (212, 16369), (214, 16378), (224, 16444), (257, 16669), (261, 16684), (267, 16726), (274, 16780), (276, 16789), (282, 16816), (284, 16834), (291, 16870), (297, 16897), (298, 16900), (306, 16939), (308, 16951), (325, 17038), (340, 17110), (345, 17137), (352, 17179), (355, 17200), (363, 17245), (392, 17407), (408, 17470), (431, 17596), (442, 17668), (446, 17689), (451, 17764), (457, 17800),

Gene: Agape74_28 Start: 17096, Stop: 19639, Start Num: 56

Candidate Starts for Agape74_28:

(Start: 56 @17096 has 91 MA's), (84, 17276), (85, 17279), (110, 17447), (111, 17453), (114, 17474), (115, 17483), (118, 17492), (122, 17504), (130, 17549), (134, 17570), (141, 17612), (148, 17663), (152, 17708), (154, 17711), (156, 17729), (164, 17762), (166, 17774), (168, 17783), (171, 17804), (172, 17807), (185, 17894), (195, 17993), (200, 18035), (201, 18044), (203, 18053), (214, 18110), (224, 18176), (230, 18215), (243, 18308), (249, 18344), (257, 18401), (268, 18467), (271, 18500), (275, 18515), (276, 18521), (278, 18530), (281, 18545), (284, 18566), (288, 18587), (292, 18608), (293, 18611), (297, 18629), (298, 18632), (308, 18683), (320, 18740), (323, 18758), (327, 18782), (340, 18842), (345, 18869), (355, 18932), (363, 18977), (376, 19115), (408, 19205), (410, 19214), (420, 19238), (430, 19325), (434, 19355), (446, 19439),

Gene: Aglet_27 Start: 15980, Stop: 19006, Start Num: 12

Candidate Starts for Aglet_27:

(4, 15926), (Start: 12 @15980 has 88 MA's), (20, 16094), (Start: 25 @16160 has 33 MA's), (26, 16163), (28, 16172), (36, 16208), (46, 16259), (57, 16331), (68, 16403), (86, 16523), (88, 16526), (98, 16595), (101, 16640), (115, 16733), (118, 16742), (124, 16760), (128, 16787), (139, 16850), (141, 16862), (145, 16895), (148, 16913), (156, 16979), (157, 16982), (159, 16988), (162, 17003), (164, 17012), (166, 17024), (168, 17033), (182, 17126), (195, 17243), (196, 17246), (199, 17273), (200, 17285), (209, 17339), (214, 17360), (224, 17426), (230, 17465), (243, 17558), (252, 17606), (257, 17651), (266, 17699), (270, 17741), (271, 17750), (278, 17780), (279, 17783), (281, 17795), (291, 17852), (292, 17858), (297, 17879), (298, 17882), (325, 18020), (327, 18032), (340, 18092), (348, 18131), (369, 18287), (371, 18308), (373, 18332), (377, 18377), (381, 18395), (387, 18443), (390, 18455), (397, 18497), (413, 18560), (425, 18617), (429, 18686), (435, 18722), (447, 18803), (458, 18938),

Gene: AgronaGT15_27 Start: 15887, Stop: 18913, Start Num: 12

Candidate Starts for AgronaGT15_27:

(4, 15833), (Start: 12 @15887 has 88 MA's), (20, 16001), (Start: 25 @16067 has 33 MA's), (26, 16070), (28, 16079), (36, 16115), (46, 16166), (57, 16238), (68, 16310), (86, 16430), (88, 16433), (98, 16502), (101, 16547), (115, 16640), (118, 16649), (124, 16667), (128, 16694), (139, 16757), (141, 16769), (145, 16802), (148, 16820), (156, 16886), (157, 16889), (159, 16895), (162, 16910), (164, 16919), (166, 16931), (168, 16940), (178, 17018), (182, 17033), (195, 17150), (196, 17153), (199, 17180), (200, 17192), (209, 17246), (214, 17267), (224, 17333), (230, 17372), (243, 17465), (252, 17513), (257, 17558), (266, 17606), (270, 17648), (271, 17657), (278, 17687), (279, 17690), (281, 17702), (291, 17759), (292, 17765), (297, 17786), (298, 17789), (325, 17927), (327, 17939), (340, 17999), (349, 18056), (369, 18194), (371, 18215), (373, 18239), (377, 18284), (381, 18302), (387, 18350), (390, 18362), (397, 18404), (413, 18467), (425, 18524), (429, 18593), (435, 18629), (447, 18710), (458, 18845),

Gene: Aliter_27 Start: 17518, Stop: 20427, Start Num: 25

Candidate Starts for Aliter_27:

(Start: 25 @17518 has 33 MA's), (27, 17530), (35, 17590), (52, 17749), (64, 17812), (71, 17875), (78, 17917), (88, 17974), (116, 18184), (118, 18190), (123, 18205), (138, 18295), (139, 18298), (141, 18310), (147, 18352), (152, 18406), (168, 18481), (171, 18502), (172, 18505), (173, 18523), (184, 18586), (193, 18652), (195, 18691), (198, 18718), (200, 18733), (205, 18763), (209, 18787), (212, 18799), (214, 18808), (224, 18874), (230, 18913), (239, 18979), (243, 19006), (246, 19033), (257, 19099), (265, 19144), (276, 19219), (284, 19264), (288, 19285), (292, 19306), (293, 19309), (297, 19327), (298, 19330), (304, 19357), (320, 19438), (327, 19480), (355, 19630), (359, 19645), (363, 19675), (368, 19726), (376, 19813), (378, 19822), (385, 19873), (397, 19936), (402, 19957), (410, 19993), (420, 20029), (421, 20035), (429, 20113), (433, 20140), (441, 20200), (450, 20269), (451, 20299), (455, 20326), (459, 20365), (462, 20407),

Gene: Alma_27 Start: 17597, Stop: 20506, Start Num: 25

Candidate Starts for Alma_27:

(Start: 25 @17597 has 33 MA's), (27, 17609), (35, 17669), (64, 17891), (71, 17954), (78, 17996), (86, 18050), (88, 18053), (95, 18092), (116, 18263), (118, 18269), (123, 18284), (138, 18374), (139, 18377), (141, 18389), (147, 18431), (152, 18485), (156, 18506), (168, 18560), (171, 18581), (172, 18584), (173, 18602), (184, 18665), (193, 18731), (195, 18770), (198, 18797), (200, 18812), (205, 18842), (209, 18866), (212, 18878), (214, 18887), (224, 18953), (230, 18992), (239, 19058), (243, 19085), (246, 19112), (265, 19223), (276, 19298), (281, 19322), (284, 19343), (288, 19364), (292, 19385), (293, 19388), (297, 19406), (298, 19409), (304, 19436), (315, 19496), (322, 19526), (327, 19559), (336, 19589), (338, 19601), (355, 19709), (359, 19724), (363, 19754), (368, 19805), (376, 19892), (378, 19901), (385, 19952), (397, 20015), (402, 20036), (410, 20072), (420, 20108), (421, 20114), (429, 20192), (433, 20219), (450, 20348), (451, 20378), (455, 20405), (459, 20444), (462, 20486),

Gene: AnnaL29_29 Start: 18479, Stop: 20977, Start Num: 56

Candidate Starts for AnnaL29_29:

(Start: 56 @18479 has 91 MA's), (77, 18608), (82, 18647), (91, 18692), (111, 18794), (114, 18815), (118, 18833), (126, 18869), (141, 18953), (148, 19004), (157, 19073), (159, 19079), (162, 19094), (164, 19103), (166, 19115), (168, 19124), (195, 19334), (198, 19361), (200, 19376), (209, 19430), (214, 19451), (224, 19517), (230, 19556), (234, 19589), (238, 19619), (257, 19742), (261, 19757), (264, 19784), (275, 19856), (278, 19871), (280, 19877), (281, 19886), (288, 19928), (291, 19943), (293, 19952), (298, 19973), (299, 19979), (306, 20012), (311, 20039), (317, 20069), (320, 20081), (325, 20111), (327, 20123), (345, 20210), (350, 20243), (355, 20273), (361, 20306), (363, 20318), (365, 20330), (376, 20456), (404, 20537), (408, 20546), (410, 20555), (430, 20666), (434, 20696), (446, 20777), (459, 20918),

Gene: Anselm_26 Start: 16722, Stop: 19259, Start Num: 56

Candidate Starts for Anselm_26:

(Start: 56 @16722 has 91 MA's), (84, 16902), (85, 16905), (91, 16935), (111, 17073), (114, 17094), (115, 17103), (122, 17124), (128, 17157), (141, 17232), (148, 17283), (152, 17328), (154, 17331), (156, 17349), (164, 17382), (166, 17394), (168, 17403), (171, 17424), (172, 17427), (195, 17613), (200, 17655), (201, 17664), (203, 17673), (214, 17730), (224, 17796), (230, 17835), (243, 17928), (257, 18021), (271, 18120), (275, 18135), (276, 18141), (278, 18150), (281, 18165), (284, 18186), (288, 18207), (289, 18210), (293, 18231), (298, 18252), (299, 18258), (306, 18291), (308, 18303), (327, 18402), (340, 18462), (345, 18489), (355, 18552), (363, 18597), (376, 18735), (408, 18825), (410, 18834), (420, 18858), (430, 18945), (434, 18975), (446, 19059),

Gene: Anubis_29 Start: 15865, Stop: 18891, Start Num: 12

Candidate Starts for Anubis_29:

(4, 15811), (Start: 12 @15865 has 88 MA's), (20, 15979), (Start: 25 @16045 has 33 MA's), (26, 16048), (28, 16057), (36, 16093), (46, 16144), (57, 16216), (68, 16288), (86, 16408), (88, 16411), (98, 16480), (101, 16525), (115, 16618), (118, 16627), (124, 16645), (128, 16672), (139, 16735), (141, 16747), (145, 16780), (148, 16798), (156, 16864), (157, 16867), (159, 16873), (162, 16888), (164, 16897), (166, 16909), (168, 16918), (178, 16996), (182, 17011), (195, 17128), (196, 17131), (199, 17158), (200, 17170), (209, 17224), (214, 17245), (224, 17311), (230, 17350), (243, 17443), (252, 17491), (257, 17536), (266, 17584), (270, 17626), (271, 17635), (278, 17665), (279, 17668), (281, 17680), (291, 17737), (292, 17743), (297, 17764), (298, 17767), (325, 17905), (327, 17917), (340, 17977), (349, 18034), (369, 18172), (371, 18193), (373, 18217), (377, 18262), (381, 18280), (387, 18328), (390, 18340), (397, 18382), (413, 18445), (425, 18502), (429, 18571), (435, 18607), (447, 18688), (458, 18823),

Gene: ArcherNM_28 Start: 18421, Stop: 20922, Start Num: 56

Candidate Starts for ArcherNM_28:

(43, 18337), (Start: 56 @18421 has 91 MA's), (73, 18532), (77, 18550), (84, 18604), (87, 18619), (91, 18637), (92, 18643), (109, 18730), (114, 18760), (118, 18778), (141, 18898), (148, 18949), (157, 19018), (159, 19024), (162, 19039), (164, 19048), (166, 19060), (168, 19069), (195, 19279), (198, 19306), (200, 19321), (209, 19375), (214, 19396), (224, 19462), (230, 19501), (257, 19687), (264, 19729), (271, 19786), (275, 19801), (276, 19807), (278, 19816), (281, 19831), (284, 19852), (288, 19873), (297, 19915), (301, 19930), (306, 19957), (317, 20014), (320, 20026), (327, 20068), (340, 20128), (345, 20155), (349, 20185), (355, 20218), (363, 20263), (365, 20275), (404, 20482), (408, 20491), (410, 20500), (430, 20611), (434, 20641), (446, 20722), (458, 20851),

Gene: Arissanae_25 Start: 15680, Stop: 18592, Start Num: 25

Candidate Starts for Arissanae_25:

(Start: 25 @15680 has 33 MA's), (27, 15692), (30, 15716), (32, 15728), (46, 15848), (51, 15890), (52, 15911), (78, 16079), (86, 16133), (88, 16136), (113, 16328), (116, 16346), (120, 16358), (122, 16364), (128, 16397), (134, 16430), (140, 16466), (141, 16472), (142, 16493), (148, 16523), (152, 16568), (156, 16589), (162, 16613), (163, 16616), (166, 16634), (168, 16643), (169, 16655), (176, 16703), (184, 16748), (195, 16853), (208, 16946), (209, 16949), (211, 16955), (214, 16970), (215, 16979), (216, 16991), (220, 17015), (222, 17027), (224, 17036), (236, 17120), (238, 17138), (239, 17141), (274, 17372), (276, 17381), (284, 17426), (288, 17447), (291, 17462), (292, 17468), (297, 17489), (298, 17492), (304, 17519), (309, 17546), (320, 17600), (327, 17642), (338, 17684), (355, 17792), (368, 17888), (376, 17975), (378, 17984), (385, 18035), (397, 18098), (410, 18158), (420, 18194), (421, 18200), (429, 18278), (433, 18305), (435, 18314), (451, 18464), (457, 18500), (458, 18518), (459, 18530),

Gene: AugsMagnumOpus_29 Start: 15971, Stop: 18997, Start Num: 12

Candidate Starts for AugsMagnumOpus_29:

(4, 15917), (Start: 12 @15971 has 88 MA's), (20, 16085), (Start: 25 @16151 has 33 MA's), (26, 16154), (28, 16163), (36, 16199), (46, 16250), (57, 16322), (68, 16394), (86, 16514), (88, 16517), (98, 16586), (101, 16631), (115, 16724), (118, 16733), (124, 16751), (128, 16778), (139, 16841), (141, 16853),

(145, 16886), (148, 16904), (156, 16970), (157, 16973), (159, 16979), (162, 16994), (164, 17003), (166, 17015), (168, 17024), (182, 17117), (195, 17234), (196, 17237), (199, 17264), (200, 17276), (209, 17330), (214, 17351), (224, 17417), (227, 17444), (243, 17549), (252, 17597), (257, 17642), (266, 17690), (270, 17732), (271, 17741), (278, 17771), (279, 17774), (281, 17786), (291, 17843), (292, 17849), (297, 17870), (298, 17873), (325, 18011), (327, 18023), (340, 18083), (350, 18143), (355, 18173), (356, 18176), (358, 18185), (369, 18278), (377, 18368), (387, 18434), (390, 18446), (397, 18488), (413, 18551), (425, 18608), (429, 18677), (435, 18713), (447, 18794), (458, 18929),

Gene: Ayanochan_28 Start: 17623, Stop: 20532, Start Num: 25

Candidate Starts for Ayanochan_28:

(Start: 25 @17623 has 33 MA's), (27, 17635), (35, 17695), (64, 17917), (71, 17980), (78, 18022), (88, 18079), (95, 18118), (116, 18289), (118, 18295), (123, 18310), (138, 18400), (139, 18403), (141, 18415), (147, 18457), (152, 18511), (168, 18586), (171, 18607), (172, 18610), (173, 18628), (184, 18691), (193, 18757), (195, 18796), (198, 18823), (200, 18838), (205, 18868), (209, 18892), (214, 18913), (224, 18979), (230, 19018), (239, 19084), (243, 19111), (246, 19138), (257, 19204), (265, 19249), (276, 19324), (284, 19369), (288, 19390), (292, 19411), (293, 19414), (297, 19432), (298, 19435), (304, 19462), (309, 19489), (320, 19543), (355, 19735), (359, 19750), (363, 19780), (368, 19831), (376, 19918), (378, 19927), (385, 19978), (397, 20041), (402, 20062), (410, 20098), (420, 20134), (421, 20140), (429, 20218), (433, 20245), (441, 20305), (450, 20374), (451, 20404), (455, 20431), (459, 20470), (462, 20512),

Gene: B1_23 Start: 15174, Stop: 18218, Start Num: 11

Candidate Starts for B1_23:

(Start: 11 @15174 has 33 MA's), (24, 15348), (26, 15360), (68, 15603), (86, 15723), (88, 15726), (117, 15948), (128, 15993), (141, 16068), (145, 16101), (148, 16119), (149, 16131), (161, 16197), (166, 16230), (168, 16239), (173, 16281), (182, 16332), (195, 16449), (200, 16491), (209, 16545), (214, 16566), (222, 16623), (224, 16632), (241, 16758), (243, 16764), (246, 16791), (257, 16857), (261, 16872), (265, 16902), (266, 16905), (271, 16956), (274, 16968), (279, 16989), (281, 17001), (284, 17022), (291, 17058), (297, 17085), (305, 17118), (307, 17130), (314, 17172), (327, 17238), (340, 17298), (348, 17337), (355, 17388), (356, 17391), (358, 17400), (362, 17424), (369, 17493), (371, 17514), (377, 17583), (381, 17601), (387, 17649), (390, 17661), (397, 17703), (399, 17715), (412, 17763), (435, 17934), (443, 17994), (447, 18015), (458, 18150), (459, 18162), (461, 18198),

Gene: BabyBack_28 Start: 18230, Stop: 20749, Start Num: 56

Candidate Starts for BabyBack_28:

(Start: 56 @18230 has 91 MA's), (73, 18341), (84, 18410), (86, 18419), (95, 18461), (114, 18584), (115, 18593), (118, 18602), (126, 18638), (128, 18647), (129, 18656), (148, 18773), (155, 18830), (157, 18842), (159, 18848), (162, 18863), (166, 18884), (168, 18893), (195, 19103), (199, 19133), (200, 19145), (209, 19199), (214, 19220), (222, 19277), (224, 19286), (257, 19511), (261, 19526), (264, 19553), (271, 19610), (275, 19625), (278, 19640), (281, 19655), (283, 19670), (284, 19676), (288, 19697), (298, 19742), (306, 19781), (311, 19808), (325, 19880), (340, 19952), (345, 19979), (349, 20009), (350, 20012), (355, 20042), (365, 20099), (367, 20135), (374, 20204), (404, 20303), (408, 20312), (410, 20321), (430, 20432), (439, 20519), (445, 20546), (446, 20549), (461, 20726),

Gene: BabyJohn_24 Start: 15764, Stop: 18802, Start Num: 11

Candidate Starts for BabyJohn_24:

(Start: 11 @15764 has 33 MA's), (24, 15938), (30, 15983), (68, 16193), (88, 16316), (115, 16523), (128, 16577), (141, 16652), (145, 16685), (148, 16703), (149, 16715), (161, 16781), (164, 16802), (166, 16814), (168, 16823), (173, 16865), (182, 16916), (195, 17033), (196, 17036), (200, 17075), (209, 17129), (214, 17150), (224, 17216), (227, 17243), (243, 17348), (252, 17396), (257, 17441), (261, 17456), (266, 17489), (270, 17531), (271, 17540), (278, 17570), (281, 17585), (284, 17606), (291, 17642), (297, 17669), (298, 17672), (303, 17693), (306, 17711), (314, 17756), (323, 17798), (324, 17801), (340, 17882), (348, 17921), (355, 17972), (356, 17975), (358, 17984), (362, 18008),

(369, 18077), (371, 18098), (377, 18167), (381, 18185), (387, 18233), (390, 18245), (394, 18275), (397, 18287), (399, 18299), (412, 18347), (435, 18518), (443, 18578), (447, 18599), (455, 18695), (458, 18734), (461, 18782),

Gene: BabyRay_25 Start: 15740, Stop: 18778, Start Num: 11

Candidate Starts for BabyRay_25:

(Start: 11 @15740 has 33 MA's), (24, 15914), (26, 15926), (68, 16169), (74, 16214), (88, 16292), (115, 16499), (128, 16553), (139, 16616), (141, 16628), (145, 16661), (149, 16691), (153, 16724), (161, 16757), (166, 16790), (168, 16799), (182, 16892), (195, 17009), (197, 17021), (200, 17051), (209, 17105), (214, 17126), (224, 17192), (243, 17324), (244, 17333), (252, 17372), (257, 17417), (261, 17432), (270, 17507), (271, 17516), (278, 17546), (281, 17561), (282, 17564), (284, 17582), (288, 17603), (289, 17606), (292, 17624), (297, 17645), (298, 17648), (314, 17732), (324, 17777), (327, 17798), (340, 17858), (349, 17915), (350, 17918), (355, 17948), (356, 17951), (358, 17960), (369, 18053), (371, 18074), (377, 18143), (381, 18161), (387, 18209), (390, 18221), (397, 18263), (399, 18275), (412, 18323), (435, 18494), (443, 18554), (445, 18566), (446, 18569), (447, 18575), (458, 18710), (459, 18722), (461, 18758),

Gene: Baehexic_27 Start: 17134, Stop: 19641, Start Num: 56

Candidate Starts for Baehexic_27:

(Start: 56 @17134 has 91 MA's), (73, 17245), (82, 17302), (114, 17488), (128, 17551), (134, 17584), (136, 17590), (162, 17770), (164, 17779), (168, 17800), (171, 17821), (172, 17824), (173, 17842), (183, 17902), (195, 18010), (200, 18052), (209, 18106), (214, 18127), (223, 18190), (224, 18193), (226, 18211), (230, 18232), (257, 18418), (261, 18433), (264, 18460), (271, 18517), (275, 18532), (276, 18538), (278, 18547), (280, 18553), (284, 18583), (288, 18604), (298, 18649), (299, 18655), (306, 18688), (311, 18715), (325, 18787), (327, 18799), (340, 18859), (345, 18886), (355, 18949), (363, 18994), (365, 19006), (367, 19042), (372, 19078), (374, 19111), (395, 19174), (401, 19198), (431, 19342), (446, 19441), (453, 19528), (464, 19627),

Gene: Beauxregard13_27 Start: 15979, Stop: 19005, Start Num: 12

Candidate Starts for Beauxregard13_27:

(4, 15925), (Start: 12 @15979 has 88 MA's), (20, 16093), (Start: 25 @16159 has 33 MA's), (26, 16162), (28, 16171), (36, 16207), (46, 16258), (57, 16330), (68, 16402), (86, 16522), (88, 16525), (98, 16594), (101, 16639), (115, 16732), (118, 16741), (124, 16759), (128, 16786), (139, 16849), (141, 16861), (145, 16894), (148, 16912), (156, 16978), (157, 16981), (159, 16987), (162, 17002), (164, 17011), (166, 17023), (168, 17032), (178, 17110), (182, 17125), (195, 17242), (196, 17245), (199, 17272), (200, 17284), (209, 17338), (214, 17359), (224, 17425), (230, 17464), (243, 17557), (252, 17605), (257, 17650), (266, 17698), (270, 17740), (271, 17749), (278, 17779), (279, 17782), (281, 17794), (291, 17851), (292, 17857), (297, 17878), (298, 17881), (325, 18019), (327, 18031), (340, 18091), (349, 18148), (369, 18286), (371, 18307), (373, 18331), (377, 18376), (381, 18394), (387, 18442), (390, 18454), (397, 18496), (413, 18559), (425, 18616), (429, 18685), (435, 18721), (447, 18802), (458, 18937),

Gene: Beemo_27 Start: 17624, Stop: 20533, Start Num: 25

Candidate Starts for Beemo_27:

(Start: 25 @17624 has 33 MA's), (27, 17636), (35, 17696), (52, 17855), (64, 17918), (71, 17981), (78, 18023), (88, 18080), (95, 18119), (116, 18290), (118, 18296), (123, 18311), (138, 18401), (139, 18404), (141, 18416), (147, 18458), (152, 18512), (168, 18587), (171, 18608), (172, 18611), (173, 18629), (184, 18692), (193, 18758), (195, 18797), (198, 18824), (200, 18839), (205, 18869), (209, 18893), (212, 18905), (214, 18914), (224, 18980), (230, 19019), (239, 19085), (243, 19112), (246, 19139), (265, 19250), (276, 19325), (284, 19370), (288, 19391), (292, 19412), (293, 19415), (297, 19433), (298, 19436), (304, 19463), (309, 19490), (320, 19544), (355, 19736), (359, 19751), (363, 19781), (368, 19832), (376, 19919), (378, 19928), (385, 19979), (397, 20042), (402, 20063), (410, 20099), (420, 20135), (421, 20141), (429, 20219), (433, 20246), (441, 20306), (450, 20375), (451,

20405), (455, 20432), (459, 20471), (462, 20513),

Gene: Bellris_24 Start: 15668, Stop: 18586, Start Num: 25

Candidate Starts for Bellris_24:

(Start: 25 @15668 has 33 MA's), (27, 15680), (46, 15839), (51, 15881), (52, 15902), (71, 16028), (78, 16070), (86, 16124), (88, 16127), (104, 16253), (114, 16328), (115, 16337), (116, 16340), (120, 16352), (146, 16505), (148, 16517), (149, 16529), (150, 16538), (152, 16562), (156, 16583), (157, 16586), (162, 16607), (166, 16628), (168, 16637), (169, 16649), (176, 16697), (184, 16742), (195, 16847), (204, 16910), (208, 16940), (209, 16943), (214, 16964), (215, 16973), (216, 16985), (220, 17009), (224, 17030), (230, 17069), (257, 17255), (260, 17267), (265, 17300), (276, 17375), (278, 17384), (284, 17420), (288, 17441), (292, 17462), (293, 17465), (297, 17483), (298, 17486), (304, 17513), (309, 17540), (321, 17600), (338, 17678), (355, 17786), (363, 17831), (368, 17882), (375, 17963), (376, 17969), (378, 17978), (385, 18029), (397, 18092), (402, 18113), (410, 18152), (421, 18194), (429, 18272), (433, 18299), (441, 18359), (446, 18383), (451, 18458), (459, 18524), (462, 18566),

Gene: BengiVuitton_27 Start: 17042, Stop: 19579, Start Num: 56

Candidate Starts for BengiVuitton_27:

(Start: 56 @17042 has 91 MA's), (84, 17222), (85, 17225), (95, 17273), (111, 17393), (114, 17414), (115, 17423), (122, 17444), (128, 17477), (134, 17510), (141, 17552), (148, 17603), (150, 17624), (152, 17648), (154, 17651), (156, 17669), (164, 17702), (166, 17714), (168, 17723), (171, 17744), (172, 17747), (185, 17834), (195, 17933), (200, 17975), (201, 17984), (203, 17993), (214, 18050), (224, 18116), (230, 18155), (276, 18461), (278, 18470), (280, 18476), (281, 18485), (284, 18506), (289, 18530), (293, 18551), (298, 18572), (299, 18578), (306, 18611), (308, 18623), (327, 18722), (340, 18782), (345, 18809), (355, 18872), (363, 18917), (365, 18929), (408, 19145), (410, 19154), (430, 19265), (434, 19295), (446, 19379),

Gene: Benvolio_26 Start: 16721, Stop: 19258, Start Num: 56

Candidate Starts for Benvolio_26:

(Start: 56 @16721 has 91 MA's), (84, 16901), (91, 16934), (110, 17066), (111, 17072), (114, 17093), (115, 17102), (134, 17189), (141, 17231), (148, 17282), (151, 17318), (154, 17330), (156, 17348), (164, 17381), (166, 17393), (167, 17396), (168, 17402), (171, 17423), (172, 17426), (195, 17612), (200, 17654), (201, 17663), (203, 17672), (214, 17729), (224, 17795), (230, 17834), (253, 17987), (276, 18140), (278, 18149), (280, 18155), (281, 18164), (284, 18185), (289, 18209), (293, 18230), (298, 18251), (306, 18290), (308, 18302), (327, 18401), (340, 18461), (345, 18488), (355, 18551), (363, 18596), (367, 18644), (408, 18824), (410, 18833), (430, 18944), (434, 18974), (446, 19058),

Gene: BiancaTri92_28 Start: 18408, Stop: 20945, Start Num: 56

Candidate Starts for BiancaTri92_28:

(Start: 56 @18408 has 91 MA's), (84, 18588), (85, 18591), (95, 18639), (111, 18759), (114, 18780), (115, 18789), (122, 18810), (128, 18843), (134, 18876), (141, 18918), (147, 18960), (148, 18969), (154, 19017), (156, 19035), (164, 19068), (166, 19080), (168, 19089), (169, 19101), (171, 19110), (195, 19299), (198, 19326), (200, 19341), (209, 19395), (214, 19416), (224, 19482), (230, 19521), (241, 19608), (276, 19827), (280, 19842), (284, 19872), (288, 19893), (289, 19896), (291, 19908), (297, 19935), (306, 19977), (311, 20004), (320, 20046), (325, 20076), (327, 20088), (340, 20148), (345, 20175), (355, 20238), (363, 20283), (365, 20295), (390, 20433), (404, 20502), (408, 20511), (410, 20520), (430, 20631), (434, 20661), (439, 20715), (446, 20745),

Gene: Bigflo_27 Start: 15978, Stop: 19004, Start Num: 12

Candidate Starts for Bigflo_27:

(4, 15924), (Start: 12 @15978 has 88 MA's), (20, 16092), (Start: 25 @16158 has 33 MA's), (26, 16161), (28, 16170), (36, 16206), (46, 16257), (57, 16329), (68, 16401), (86, 16521), (88, 16524), (98, 16593), (101, 16638), (115, 16731), (118, 16740), (124, 16758), (128, 16785), (139, 16848), (141, 16860),

(145, 16893), (148, 16911), (156, 16977), (157, 16980), (159, 16986), (162, 17001), (164, 17010), (166, 17022), (168, 17031), (178, 17109), (182, 17124), (195, 17241), (196, 17244), (199, 17271), (200, 17283), (209, 17337), (214, 17358), (224, 17424), (230, 17463), (243, 17556), (252, 17604), (257, 17649), (266, 17697), (270, 17739), (271, 17748), (278, 17778), (279, 17781), (281, 17793), (291, 17850), (292, 17856), (297, 17877), (298, 17880), (325, 18018), (327, 18030), (340, 18090), (349, 18147), (369, 18285), (371, 18306), (373, 18330), (377, 18375), (381, 18393), (387, 18441), (390, 18453), (397, 18495), (413, 18558), (425, 18615), (429, 18684), (435, 18720), (447, 18801), (458, 18936),

Gene: BlueBird_26 Start: 15495, Stop: 18530, Start Num: 11

Candidate Starts for BlueBird_26:

(Start: 11 @15495 has 33 MA's), (24, 15669), (26, 15681), (30, 15714), (68, 15924), (86, 16044), (88, 16047), (115, 16251), (122, 16272), (127, 16302), (128, 16305), (139, 16368), (141, 16380), (145, 16413), (148, 16431), (157, 16500), (159, 16506), (162, 16521), (164, 16530), (166, 16542), (168, 16551), (182, 16644), (195, 16761), (196, 16764), (198, 16788), (199, 16791), (200, 16803), (209, 16857), (214, 16878), (216, 16899), (224, 16944), (227, 16971), (230, 16983), (252, 17124), (257, 17169), (261, 17184), (270, 17259), (271, 17268), (278, 17298), (281, 17313), (282, 17316), (284, 17334), (288, 17355), (289, 17358), (297, 17397), (298, 17400), (314, 17484), (327, 17550), (333, 17571), (340, 17610), (348, 17649), (350, 17670), (355, 17700), (356, 17703), (358, 17712), (362, 17736), (369, 17805), (371, 17826), (377, 17895), (381, 17913), (387, 17961), (390, 17973), (397, 18015), (399, 18027), (412, 18075), (435, 18246), (437, 18276), (443, 18306), (447, 18327), (458, 18462), (461, 18510),

Gene: BobSwaget_29 Start: 18249, Stop: 20777, Start Num: 56

Candidate Starts for BobSwaget_29:

(Start: 56 @18249 has 91 MA's), (73, 18360), (75, 18372), (84, 18429), (85, 18432), (114, 18621), (128, 18684), (147, 18801), (148, 18810), (150, 18831), (152, 18855), (166, 18921), (168, 18930), (171, 18951), (172, 18954), (195, 19140), (200, 19182), (214, 19257), (224, 19323), (230, 19362), (257, 19548), (271, 19647), (276, 19668), (284, 19713), (297, 19776), (306, 19818), (311, 19845), (325, 19917), (327, 19929), (344, 20013), (345, 20016), (355, 20079), (363, 20124), (365, 20136), (373, 20220), (390, 20274), (399, 20325), (410, 20358), (420, 20382), (434, 20499), (446, 20577),

Gene: BogosyJay_27 Start: 17339, Stop: 20263, Start Num: 25

Candidate Starts for BogosyJay_27:

(Start: 25 @17339 has 33 MA's), (27, 17351), (30, 17375), (32, 17387), (52, 17576), (64, 17639), (71, 17702), (78, 17744), (88, 17801), (89, 17807), (116, 18017), (118, 18023), (123, 18038), (131, 18089), (138, 18128), (141, 18143), (147, 18185), (148, 18194), (152, 18239), (157, 18263), (168, 18314), (171, 18335), (172, 18338), (173, 18356), (193, 18485), (195, 18524), (198, 18551), (200, 18566), (205, 18596), (209, 18620), (214, 18641), (224, 18707), (230, 18746), (243, 18839), (246, 18866), (257, 18932), (265, 18977), (276, 19052), (284, 19097), (288, 19118), (292, 19139), (293, 19142), (297, 19160), (298, 19163), (304, 19190), (305, 19193), (309, 19217), (321, 19277), (323, 19289), (338, 19355), (355, 19463), (363, 19508), (365, 19520), (367, 19556), (368, 19559), (373, 19604), (375, 19640), (378, 19655), (385, 19706), (397, 19769), (410, 19829), (421, 19871), (429, 19949), (433, 19976), (435, 19985), (441, 20036), (451, 20135), (455, 20162), (459, 20201), (462, 20243),

Gene: Bradman_25 Start: 15528, Stop: 18041, Start Num: 56

Candidate Starts for Bradman_25:

(Start: 56 @15528 has 91 MA's), (73, 15639), (83, 15705), (84, 15708), (85, 15711), (114, 15897), (115, 15906), (118, 15915), (141, 16035), (148, 16086), (155, 16143), (158, 16155), (160, 16161), (162, 16176), (166, 16197), (168, 16206), (174, 16254), (195, 16416), (199, 16446), (200, 16458), (206, 16497), (209, 16512), (214, 16533), (222, 16590), (224, 16599), (227, 16626), (241, 16725), (257, 16824), (261, 16839), (271, 16923), (276, 16944), (284, 16989), (297, 17052), (298, 17055), (308, 17106), (311, 17121), (340, 17265), (345, 17292), (355, 17355), (359, 17370), (363, 17400),

(373, 17496), (392, 17562), (408, 17625), (441, 17820), (442, 17823), (446, 17844),

Gene: BreSam8_27 Start: 15972, Stop: 18998, Start Num: 12

Candidate Starts for BreSam8_27:

(4, 15918), (Start: 12 @15972 has 88 MA's), (20, 16086), (Start: 25 @16152 has 33 MA's), (26, 16155), (28, 16164), (36, 16200), (46, 16251), (57, 16323), (68, 16395), (86, 16515), (88, 16518), (98, 16587), (101, 16632), (115, 16725), (118, 16734), (124, 16752), (128, 16779), (139, 16842), (141, 16854), (145, 16887), (148, 16905), (156, 16971), (157, 16974), (159, 16980), (162, 16995), (164, 17004), (166, 17016), (168, 17025), (182, 17118), (195, 17235), (196, 17238), (199, 17265), (200, 17277), (209, 17331), (214, 17352), (224, 17418), (227, 17445), (243, 17550), (252, 17598), (257, 17643), (266, 17691), (270, 17733), (271, 17742), (278, 17772), (279, 17775), (281, 17787), (291, 17844), (292, 17850), (297, 17871), (298, 17874), (325, 18012), (327, 18024), (340, 18084), (350, 18144), (355, 18174), (356, 18177), (358, 18186), (369, 18279), (377, 18369), (387, 18435), (390, 18447), (397, 18489), (413, 18552), (425, 18609), (429, 18678), (435, 18714), (447, 18795), (458, 18930),

Gene: Bugatti_25 Start: 15495, Stop: 18530, Start Num: 11

Candidate Starts for Bugatti_25:

(Start: 11 @15495 has 33 MA's), (24, 15669), (26, 15681), (30, 15714), (68, 15924), (86, 16044), (88, 16047), (115, 16251), (122, 16272), (127, 16302), (128, 16305), (139, 16368), (141, 16380), (145, 16413), (148, 16431), (157, 16500), (159, 16506), (162, 16521), (164, 16530), (166, 16542), (168, 16551), (182, 16644), (195, 16761), (196, 16764), (198, 16788), (199, 16791), (200, 16803), (209, 16857), (214, 16878), (216, 16899), (224, 16944), (227, 16971), (230, 16983), (252, 17124), (257, 17169), (261, 17184), (270, 17259), (271, 17268), (278, 17298), (281, 17313), (282, 17316), (284, 17334), (288, 17355), (289, 17358), (297, 17397), (298, 17400), (314, 17484), (327, 17550), (333, 17571), (340, 17610), (348, 17649), (350, 17670), (355, 17700), (356, 17703), (358, 17712), (362, 17736), (369, 17805), (371, 17826), (377, 17895), (381, 17913), (387, 17961), (390, 17973), (397, 18015), (399, 18027), (412, 18075), (435, 18246), (437, 18276), (443, 18306), (447, 18327), (458, 18462), (461, 18510),

Gene: Buggy_28 Start: 17119, Stop: 19662, Start Num: 56

Candidate Starts for Buggy_28:

(Start: 56 @17119 has 91 MA's), (84, 17299), (85, 17302), (110, 17470), (111, 17476), (114, 17497), (115, 17506), (118, 17515), (122, 17527), (130, 17572), (134, 17593), (141, 17635), (148, 17686), (152, 17731), (154, 17734), (156, 17752), (164, 17785), (166, 17797), (168, 17806), (171, 17827), (172, 17830), (185, 17917), (195, 18016), (200, 18058), (201, 18067), (203, 18076), (214, 18133), (224, 18199), (230, 18238), (243, 18331), (249, 18367), (257, 18424), (268, 18490), (271, 18523), (275, 18538), (276, 18544), (278, 18553), (281, 18568), (284, 18589), (288, 18610), (292, 18631), (293, 18634), (297, 18652), (298, 18655), (308, 18706), (320, 18763), (323, 18781), (327, 18805), (340, 18865), (345, 18892), (355, 18955), (363, 19000), (376, 19138), (408, 19228), (410, 19237), (420, 19261), (430, 19348), (434, 19378), (446, 19462),

Gene: BuzzBuzz_26 Start: 16063, Stop: 19089, Start Num: 12

Candidate Starts for BuzzBuzz_26:

(4, 16009), (Start: 12 @16063 has 88 MA's), (20, 16177), (Start: 25 @16243 has 33 MA's), (26, 16246), (28, 16255), (36, 16291), (46, 16342), (57, 16414), (68, 16486), (86, 16606), (88, 16609), (98, 16678), (101, 16723), (115, 16816), (118, 16825), (124, 16843), (128, 16870), (139, 16933), (141, 16945), (145, 16978), (148, 16996), (156, 17062), (157, 17065), (159, 17071), (162, 17086), (164, 17095), (166, 17107), (168, 17116), (178, 17194), (182, 17209), (195, 17326), (196, 17329), (199, 17356), (200, 17368), (209, 17422), (214, 17443), (224, 17509), (230, 17548), (243, 17641), (252, 17689), (257, 17734), (266, 17782), (270, 17824), (271, 17833), (278, 17863), (279, 17866), (281, 17878), (291, 17935), (292, 17941), (297, 17962), (298, 17965), (325, 18103), (327, 18115), (340, 18175), (349, 18232), (369, 18370), (371, 18391), (373, 18415), (377, 18460), (381, 18478), (387, 18526), (390, 18538), (397, 18580), (413, 18643), (425, 18700), (429, 18769), (435, 18805), (447, 18886),

(458, 19021),

Gene: Bxz2_26 Start: 16073, Stop: 19099, Start Num: 12

Candidate Starts for Bxz2_26:

(4, 16019), (Start: 12 @16073 has 88 MA's), (20, 16187), (Start: 25 @16253 has 33 MA's), (26, 16256), (28, 16265), (36, 16301), (46, 16352), (57, 16424), (68, 16496), (86, 16616), (88, 16619), (98, 16688), (101, 16733), (115, 16826), (118, 16835), (124, 16853), (128, 16880), (139, 16943), (141, 16955), (145, 16988), (148, 17006), (156, 17072), (157, 17075), (159, 17081), (162, 17096), (164, 17105), (166, 17117), (168, 17126), (178, 17204), (182, 17219), (195, 17336), (196, 17339), (199, 17366), (200, 17378), (209, 17432), (214, 17453), (224, 17519), (230, 17558), (243, 17651), (252, 17699), (257, 17744), (266, 17792), (270, 17834), (271, 17843), (278, 17873), (279, 17876), (281, 17888), (291, 17945), (292, 17951), (297, 17972), (298, 17975), (325, 18113), (327, 18125), (340, 18185), (349, 18242), (369, 18380), (371, 18401), (373, 18425), (377, 18470), (381, 18488), (387, 18536), (390, 18548), (397, 18590), (413, 18653), (425, 18710), (429, 18779), (435, 18815), (447, 18896), (458, 19031),

Gene: C3_24 Start: 16651, Stop: 19164, Start Num: 56

Candidate Starts for C3_24:

(Start: 56 @16651 has 91 MA's), (84, 16831), (85, 16834), (103, 16945), (128, 17080), (138, 17140), (141, 17155), (144, 17185), (145, 17188), (156, 17272), (162, 17296), (167, 17320), (171, 17347), (172, 17350), (189, 17461), (195, 17536), (198, 17563), (200, 17578), (209, 17632), (214, 17653), (224, 17719), (226, 17737), (227, 17746), (241, 17845), (246, 17878), (249, 17887), (257, 17944), (261, 17959), (276, 18064), (298, 18175), (301, 18187), (302, 18193), (308, 18226), (333, 18346), (355, 18475), (359, 18490), (363, 18520), (365, 18532), (367, 18568), (392, 18682), (393, 18694), (404, 18736), (442, 18943), (445, 18961), (446, 18964), (464, 19150),

Gene: CRB1_26 Start: 16605, Stop: 19142, Start Num: 56

Candidate Starts for CRB1_26:

(Start: 56 @16605 has 91 MA's), (84, 16785), (85, 16788), (95, 16836), (110, 16950), (111, 16956), (114, 16977), (115, 16986), (120, 17001), (134, 17073), (141, 17115), (148, 17166), (154, 17214), (156, 17232), (164, 17265), (166, 17277), (168, 17286), (195, 17496), (200, 17538), (201, 17547), (203, 17556), (214, 17613), (223, 17676), (224, 17679), (230, 17718), (253, 17871), (254, 17877), (257, 17904), (265, 17949), (276, 18024), (278, 18033), (281, 18048), (284, 18069), (289, 18093), (293, 18114), (298, 18135), (308, 18186), (320, 18243), (327, 18285), (339, 18336), (340, 18345), (345, 18372), (355, 18435), (376, 18618), (408, 18708), (410, 18717), (430, 18828), (434, 18858), (446, 18942),

Gene: Calvinny_28 Start: 16057, Stop: 19083, Start Num: 12

Candidate Starts for Calvinny_28:

(4, 16003), (Start: 12 @16057 has 88 MA's), (20, 16171), (Start: 25 @16237 has 33 MA's), (26, 16240), (28, 16249), (36, 16285), (46, 16336), (57, 16408), (68, 16480), (86, 16600), (88, 16603), (98, 16672), (101, 16717), (115, 16810), (118, 16819), (128, 16864), (136, 16903), (139, 16927), (141, 16939), (145, 16972), (148, 16990), (150, 17011), (157, 17059), (159, 17065), (162, 17080), (164, 17089), (166, 17101), (168, 17110), (182, 17203), (194, 17290), (195, 17320), (196, 17323), (199, 17350), (200, 17362), (209, 17416), (214, 17437), (218, 17467), (224, 17503), (241, 17629), (252, 17683), (257, 17728), (266, 17776), (270, 17818), (271, 17827), (278, 17857), (291, 17929), (292, 17935), (297, 17956), (298, 17959), (301, 17971), (324, 18088), (325, 18097), (340, 18169), (341, 18172), (348, 18208), (355, 18259), (356, 18262), (358, 18271), (377, 18454), (387, 18520), (390, 18532), (397, 18574), (413, 18637), (425, 18694), (429, 18763), (435, 18799), (447, 18880), (458, 19015), (459, 19027),

Gene: Caraxes_25 Start: 15288, Stop: 17795, Start Num: 59

Candidate Starts for Caraxes_25:

(Start: 55 @15270 has 5 MA's), (59, 15288), (73, 15393), (83, 15459), (84, 15462), (85, 15465), (105, 15585), (118, 15666), (128, 15711), (141, 15786), (147, 15828), (152, 15882), (157, 15903), (164, 15936), (168, 15957), (171, 15978), (172, 15981), (195, 16167), (198, 16194), (200, 16209), (209, 16263), (214, 16284), (224, 16350), (257, 16575), (261, 16590), (264, 16617), (265, 16620), (276, 16695), (281, 16719), (282, 16722), (284, 16740), (297, 16803), (298, 16806), (306, 16845), (308, 16857), (325, 16944), (327, 16956), (340, 17016), (341, 17019), (345, 17043), (349, 17073), (355, 17106), (373, 17247), (392, 17313), (408, 17376), (442, 17574), (446, 17595), (451, 17670), (457, 17706), (463, 17781),

Gene: Catalina_27 Start: 17591, Stop: 20500, Start Num: 25

Candidate Starts for Catalina_27:

(Start: 25 @17591 has 33 MA's), (27, 17603), (35, 17663), (52, 17822), (64, 17885), (71, 17948), (78, 17990), (86, 18044), (88, 18047), (95, 18086), (116, 18257), (118, 18263), (123, 18278), (138, 18368), (139, 18371), (141, 18383), (147, 18425), (152, 18479), (156, 18500), (168, 18554), (171, 18575), (172, 18578), (173, 18596), (184, 18659), (193, 18725), (195, 18764), (198, 18791), (200, 18806), (205, 18836), (209, 18860), (212, 18872), (214, 18881), (224, 18947), (230, 18986), (239, 19052), (243, 19079), (246, 19106), (257, 19172), (265, 19217), (276, 19292), (284, 19337), (288, 19358), (292, 19379), (293, 19382), (297, 19400), (298, 19403), (304, 19430), (320, 19511), (327, 19553), (355, 19703), (359, 19718), (363, 19748), (368, 19799), (376, 19886), (378, 19895), (385, 19946), (397, 20009), (402, 20030), (410, 20066), (420, 20102), (421, 20108), (429, 20186), (433, 20213), (441, 20273), (450, 20342), (451, 20372), (455, 20399), (459, 20438), (462, 20480),

Gene: Caviar_26 Start: 16043, Stop: 19081, Start Num: 11

Candidate Starts for Caviar_26:

(Start: 11 @16043 has 33 MA's), (24, 16217), (26, 16229), (30, 16262), (68, 16469), (70, 16490), (86, 16589), (88, 16592), (115, 16802), (118, 16811), (122, 16823), (128, 16856), (139, 16919), (141, 16931), (145, 16964), (148, 16982), (150, 17003), (157, 17051), (159, 17057), (162, 17072), (164, 17081), (166, 17093), (168, 17102), (182, 17195), (195, 17312), (196, 17315), (199, 17342), (200, 17354), (209, 17408), (214, 17429), (224, 17495), (230, 17534), (252, 17675), (257, 17720), (270, 17810), (271, 17819), (278, 17849), (288, 17906), (291, 17921), (297, 17948), (298, 17951), (302, 17969), (324, 18080), (340, 18161), (349, 18218), (357, 18260), (369, 18356), (371, 18377), (373, 18401), (377, 18446), (381, 18464), (387, 18512), (390, 18524), (397, 18566), (399, 18578), (412, 18626), (435, 18797), (443, 18857), (445, 18869), (449, 18896), (450, 18917), (458, 19013), (461, 19061),

Gene: Celestiallunch_26 Start: 15544, Stop: 18645, Start Num: 9

Candidate Starts for Celestiallunch_26:

(9, 15544), (Start: 25 @15733 has 33 MA's), (27, 15745), (32, 15781), (46, 15898), (51, 15940), (69, 16066), (78, 16129), (86, 16183), (88, 16186), (104, 16312), (116, 16399), (120, 16411), (141, 16525), (142, 16546), (148, 16576), (152, 16621), (154, 16624), (156, 16642), (157, 16645), (162, 16666), (168, 16696), (169, 16708), (176, 16756), (182, 16789), (184, 16801), (195, 16906), (209, 17002), (212, 17014), (214, 17023), (215, 17032), (216, 17044), (220, 17068), (222, 17080), (224, 17089), (230, 17128), (248, 17254), (250, 17260), (257, 17314), (276, 17434), (284, 17479), (288, 17500), (292, 17521), (293, 17524), (297, 17542), (298, 17545), (315, 17632), (355, 17845), (363, 17890), (365, 17902), (368, 17941), (374, 18007), (376, 18028), (377, 18031), (381, 18049), (383, 18070), (391, 18118), (397, 18151), (402, 18172), (406, 18199), (421, 18253), (429, 18331), (435, 18367), (441, 18418), (446, 18442), (451, 18517), (459, 18583), (462, 18625),

Gene: Centaur_28 Start: 17112, Stop: 19619, Start Num: 56

Candidate Starts for Centaur_28:

(Start: 56 @17112 has 91 MA's), (73, 17223), (82, 17280), (114, 17466), (128, 17529), (134, 17562), (136, 17568), (162, 17748), (164, 17757), (167, 17772), (168, 17778), (171, 17799), (172, 17802), (173, 17820), (182, 17871), (183, 17880), (195, 17988), (200, 18030), (201, 18039), (203, 18048),

(209, 18084), (214, 18105), (223, 18168), (224, 18171), (226, 18189), (230, 18210), (257, 18396), (261, 18411), (264, 18438), (271, 18495), (275, 18510), (276, 18516), (278, 18525), (280, 18531), (284, 18561), (288, 18582), (298, 18627), (299, 18633), (306, 18666), (311, 18693), (319, 18732), (325, 18765), (327, 18777), (340, 18837), (345, 18864), (355, 18927), (363, 18972), (365, 18984), (367, 19020), (372, 19056), (374, 19089), (395, 19152), (401, 19176), (431, 19320), (446, 19419), (453, 19506), (464, 19605),

Gene: Changeling_28 Start: 18472, Stop: 20976, Start Num: 56

Candidate Starts for Changeling_28:

(Start: 56 @18472 has 91 MA's), (73, 18583), (77, 18601), (82, 18640), (86, 18661), (91, 18685), (109, 18781), (114, 18811), (118, 18829), (141, 18949), (148, 19000), (157, 19069), (159, 19075), (162, 19090), (164, 19099), (166, 19111), (168, 19120), (195, 19330), (198, 19357), (200, 19372), (209, 19426), (214, 19447), (224, 19513), (230, 19552), (257, 19738), (261, 19753), (271, 19837), (275, 19852), (276, 19858), (278, 19867), (281, 19882), (284, 19903), (288, 19924), (297, 19966), (301, 19981), (306, 20008), (309, 20023), (317, 20065), (320, 20077), (327, 20119), (340, 20179), (345, 20206), (349, 20236), (355, 20269), (363, 20314), (365, 20326), (392, 20476), (404, 20533), (408, 20542), (410, 20551), (430, 20662), (434, 20692), (446, 20776), (458, 20905),

Gene: Charm_26 Start: 15553, Stop: 18648, Start Num: 8

Candidate Starts for Charm_26:

(Start: 8 @15553 has 1 MA's), (19, 15655), (Start: 25 @15742 has 33 MA's), (27, 15754), (42, 15886), (46, 15907), (49, 15928), (52, 15970), (58, 15982), (64, 16033), (71, 16096), (78, 16138), (88, 16195), (116, 16405), (118, 16411), (138, 16516), (141, 16531), (146, 16570), (147, 16573), (156, 16648), (157, 16651), (168, 16702), (171, 16723), (172, 16726), (173, 16744), (195, 16912), (198, 16939), (200, 16954), (209, 17008), (214, 17029), (223, 17092), (224, 17095), (230, 17134), (243, 17227), (246, 17254), (266, 17368), (267, 17377), (272, 17422), (278, 17449), (284, 17485), (288, 17506), (291, 17521), (297, 17548), (298, 17551), (303, 17572), (309, 17605), (321, 17665), (327, 17701), (355, 17851), (363, 17896), (368, 17947), (374, 18013), (377, 18037), (381, 18055), (383, 18076), (385, 18094), (391, 18124), (397, 18157), (402, 18178), (408, 18208), (421, 18259), (429, 18337), (435, 18373), (441, 18424), (446, 18448), (451, 18523), (459, 18589), (462, 18631),

Gene: Che12_28 Start: 15530, Stop: 18055, Start Num: 55

Candidate Starts for Che12_28:

(Start: 55 @15530 has 5 MA's), (59, 15548), (73, 15653), (83, 15719), (84, 15722), (85, 15725), (128, 15974), (134, 16007), (135, 16010), (141, 16049), (148, 16100), (152, 16145), (157, 16166), (164, 16199), (167, 16214), (168, 16220), (171, 16241), (195, 16430), (198, 16457), (200, 16472), (209, 16526), (214, 16547), (224, 16613), (241, 16739), (257, 16838), (261, 16853), (264, 16880), (266, 16886), (276, 16958), (281, 16982), (282, 16985), (284, 17003), (291, 17039), (297, 17066), (298, 17069), (308, 17120), (309, 17123), (325, 17207), (340, 17279), (345, 17306), (349, 17336), (355, 17369), (359, 17384), (392, 17576), (408, 17639), (442, 17837), (446, 17858), (451, 17933), (457, 17969),

Gene: ChipMunk_28 Start: 17023, Stop: 19566, Start Num: 56

Candidate Starts for ChipMunk_28:

(Start: 56 @17023 has 91 MA's), (83, 17200), (84, 17203), (85, 17206), (109, 17371), (111, 17380), (114, 17401), (115, 17410), (122, 17431), (128, 17464), (134, 17497), (141, 17539), (148, 17590), (152, 17635), (154, 17638), (156, 17656), (164, 17689), (166, 17701), (168, 17710), (171, 17731), (172, 17734), (195, 17920), (200, 17962), (201, 17971), (203, 17980), (214, 18037), (224, 18103), (230, 18142), (243, 18235), (249, 18271), (257, 18328), (268, 18394), (271, 18427), (275, 18442), (276, 18448), (278, 18457), (281, 18472), (284, 18493), (288, 18514), (292, 18535), (293, 18538), (297, 18556), (298, 18559), (306, 18598), (308, 18610), (320, 18667), (323, 18685), (327, 18709), (340, 18769), (345, 18796), (355, 18859), (376, 19042), (404, 19123), (408, 19132), (410, 19141), (430, 19252), (434, 19282), (446, 19366),

Gene: Chiqui_24 Start: 15764, Stop: 18802, Start Num: 11

Candidate Starts for Chiqui_24:

(Start: 11 @15764 has 33 MA's), (24, 15938), (30, 15983), (68, 16193), (88, 16316), (115, 16523), (128, 16577), (141, 16652), (145, 16685), (148, 16703), (149, 16715), (161, 16781), (164, 16802), (166, 16814), (168, 16823), (173, 16865), (182, 16916), (195, 17033), (196, 17036), (200, 17075), (209, 17129), (214, 17150), (224, 17216), (227, 17243), (243, 17348), (252, 17396), (257, 17441), (261, 17456), (266, 17489), (270, 17531), (271, 17540), (278, 17570), (281, 17585), (284, 17606), (291, 17642), (297, 17669), (298, 17672), (303, 17693), (306, 17711), (314, 17756), (323, 17798), (324, 17801), (340, 17882), (348, 17921), (355, 17972), (356, 17975), (358, 17984), (362, 18008), (369, 18077), (371, 18098), (377, 18167), (381, 18185), (387, 18233), (390, 18245), (394, 18275), (397, 18287), (399, 18299), (412, 18347), (435, 18518), (443, 18578), (447, 18599), (455, 18695), (458, 18734), (461, 18782),

Gene: Clammy_25 Start: 15495, Stop: 18530, Start Num: 11

Candidate Starts for Clammy_25:

(Start: 11 @15495 has 33 MA's), (24, 15669), (26, 15681), (30, 15714), (68, 15924), (86, 16044), (88, 16047), (115, 16251), (122, 16272), (127, 16302), (128, 16305), (139, 16368), (141, 16380), (145, 16413), (148, 16431), (157, 16500), (159, 16506), (162, 16521), (164, 16530), (166, 16542), (168, 16551), (182, 16644), (195, 16761), (196, 16764), (198, 16788), (199, 16791), (200, 16803), (209, 16857), (214, 16878), (216, 16899), (224, 16944), (227, 16971), (230, 16983), (252, 17124), (257, 17169), (261, 17184), (270, 17259), (271, 17268), (278, 17298), (281, 17313), (282, 17316), (284, 17334), (288, 17355), (289, 17358), (297, 17397), (298, 17400), (314, 17484), (327, 17550), (333, 17571), (340, 17610), (348, 17649), (350, 17670), (355, 17700), (356, 17703), (358, 17712), (362, 17736), (369, 17805), (371, 17826), (377, 17895), (381, 17913), (387, 17961), (390, 17973), (397, 18015), (399, 18027), (412, 18075), (435, 18246), (437, 18276), (443, 18306), (447, 18327), (458, 18462), (461, 18510),

Gene: ClownCar_28 Start: 16049, Stop: 19075, Start Num: 12

Candidate Starts for ClownCar_28:

(4, 15995), (Start: 12 @16049 has 88 MA's), (20, 16163), (Start: 25 @16229 has 33 MA's), (26, 16232), (28, 16241), (36, 16277), (46, 16328), (57, 16400), (68, 16472), (86, 16592), (88, 16595), (98, 16664), (101, 16709), (115, 16802), (118, 16811), (128, 16856), (136, 16895), (139, 16919), (141, 16931), (145, 16964), (148, 16982), (150, 17003), (157, 17051), (159, 17057), (162, 17072), (164, 17081), (166, 17093), (168, 17102), (182, 17195), (194, 17282), (195, 17312), (196, 17315), (199, 17342), (200, 17354), (209, 17408), (214, 17429), (218, 17459), (224, 17495), (241, 17621), (252, 17675), (257, 17720), (266, 17768), (270, 17810), (271, 17819), (278, 17849), (291, 17921), (292, 17927), (297, 17948), (298, 17951), (301, 17963), (324, 18080), (325, 18089), (340, 18161), (341, 18164), (348, 18200), (355, 18251), (356, 18254), (358, 18263), (377, 18446), (387, 18512), (390, 18524), (397, 18566), (413, 18629), (425, 18686), (429, 18755), (435, 18791), (447, 18872), (458, 19007), (459, 19019),

Gene: CogOmlette_24 Start: 15668, Stop: 18586, Start Num: 25

Candidate Starts for CogOmlette_24:

(Start: 25 @15668 has 33 MA's), (27, 15680), (46, 15839), (51, 15881), (52, 15902), (71, 16028), (78, 16070), (86, 16124), (88, 16127), (104, 16253), (114, 16328), (115, 16337), (116, 16340), (120, 16352), (146, 16505), (148, 16517), (149, 16529), (150, 16538), (152, 16562), (156, 16583), (157, 16586), (162, 16607), (166, 16628), (168, 16637), (169, 16649), (176, 16697), (184, 16742), (195, 16847), (204, 16910), (208, 16940), (209, 16943), (214, 16964), (215, 16973), (216, 16985), (220, 17009), (224, 17030), (230, 17069), (257, 17255), (260, 17267), (265, 17300), (276, 17375), (278, 17384), (284, 17420), (288, 17441), (292, 17462), (293, 17465), (297, 17483), (298, 17486), (304, 17513), (309, 17540), (321, 17600), (338, 17678), (355, 17786), (363, 17831), (368, 17882), (375, 17963), (376, 17969), (378, 17978), (385, 18029), (397, 18092), (402, 18113), (410, 18152), (421,

18194), (429, 18272), (433, 18299), (441, 18359), (446, 18383), (451, 18458), (459, 18524), (462, 18566),

Gene: Colbster_27 Start: 15979, Stop: 19005, Start Num: 12

Candidate Starts for Colbster_27:

(4, 15925), (Start: 12 @15979 has 88 MA's), (20, 16093), (Start: 25 @16159 has 33 MA's), (26, 16162), (28, 16171), (36, 16207), (46, 16258), (57, 16330), (68, 16402), (86, 16522), (88, 16525), (98, 16594), (101, 16639), (115, 16732), (118, 16741), (124, 16759), (128, 16786), (139, 16849), (141, 16861), (145, 16894), (148, 16912), (156, 16978), (157, 16981), (159, 16987), (162, 17002), (164, 17011), (166, 17023), (168, 17032), (178, 17110), (182, 17125), (195, 17242), (196, 17245), (199, 17272), (200, 17284), (209, 17338), (214, 17359), (224, 17425), (230, 17464), (243, 17557), (252, 17605), (257, 17650), (266, 17698), (270, 17740), (271, 17749), (278, 17779), (279, 17782), (281, 17794), (291, 17851), (292, 17857), (297, 17878), (298, 17881), (325, 18019), (327, 18031), (340, 18091), (349, 18148), (369, 18286), (371, 18307), (373, 18331), (377, 18376), (381, 18394), (387, 18442), (390, 18454), (397, 18496), (413, 18559), (425, 18616), (429, 18685), (435, 18721), (447, 18802), (458, 18937),

Gene: Colin_30 Start: 18311, Stop: 20851, Start Num: 56

Candidate Starts for Colin_30:

(Start: 56 @18311 has 91 MA's), (84, 18491), (95, 18542), (111, 18662), (114, 18683), (115, 18692), (120, 18707), (122, 18713), (128, 18746), (134, 18779), (136, 18785), (141, 18821), (162, 18965), (164, 18974), (167, 18989), (168, 18995), (171, 19016), (173, 19037), (183, 19097), (195, 19205), (200, 19247), (201, 19256), (203, 19265), (209, 19301), (212, 19313), (214, 19322), (224, 19388), (230, 19427), (250, 19559), (257, 19613), (266, 19661), (276, 19733), (280, 19748), (284, 19778), (293, 19823), (298, 19844), (306, 19883), (311, 19910), (327, 19994), (340, 20054), (345, 20081), (355, 20144), (363, 20189), (367, 20237), (404, 20408), (408, 20417), (410, 20426), (430, 20537), (434, 20567), (445, 20648), (446, 20651),

Gene: Conquerage_27 Start: 17620, Stop: 20529, Start Num: 25

Candidate Starts for Conquerage_27:

(Start: 25 @17620 has 33 MA's), (27, 17632), (35, 17692), (64, 17914), (71, 17977), (78, 18019), (86, 18073), (88, 18076), (95, 18115), (116, 18286), (118, 18292), (123, 18307), (138, 18397), (139, 18400), (141, 18412), (147, 18454), (152, 18508), (156, 18529), (168, 18583), (171, 18604), (172, 18607), (173, 18625), (184, 18688), (193, 18754), (195, 18793), (198, 18820), (200, 18835), (205, 18865), (209, 18889), (212, 18901), (214, 18910), (224, 18976), (230, 19015), (239, 19081), (243, 19108), (246, 19135), (265, 19246), (276, 19321), (281, 19345), (284, 19366), (288, 19387), (292, 19408), (293, 19411), (297, 19429), (298, 19432), (304, 19459), (315, 19519), (322, 19549), (327, 19582), (336, 19612), (338, 19624), (355, 19732), (359, 19747), (363, 19777), (368, 19828), (376, 19915), (378, 19924), (385, 19975), (397, 20038), (402, 20059), (410, 20095), (420, 20131), (421, 20137), (429, 20215), (433, 20242), (450, 20371), (451, 20401), (455, 20428), (459, 20467), (462, 20509),

Gene: Croquant_28 Start: 15977, Stop: 19003, Start Num: 12

Candidate Starts for Croquant_28:

(4, 15923), (Start: 12 @15977 has 88 MA's), (20, 16091), (Start: 25 @16157 has 33 MA's), (26, 16160), (28, 16169), (36, 16205), (46, 16256), (57, 16328), (68, 16400), (86, 16520), (88, 16523), (98, 16592), (101, 16637), (115, 16730), (118, 16739), (124, 16757), (128, 16784), (139, 16847), (141, 16859), (145, 16892), (148, 16910), (156, 16976), (157, 16979), (159, 16985), (162, 17000), (164, 17009), (166, 17021), (168, 17030), (178, 17108), (182, 17123), (195, 17240), (196, 17243), (199, 17270), (200, 17282), (209, 17336), (214, 17357), (224, 17423), (230, 17462), (243, 17555), (252, 17603), (257, 17648), (266, 17696), (270, 17738), (271, 17747), (278, 17777), (279, 17780), (281, 17792), (291, 17849), (292, 17855), (297, 17876), (298, 17879), (325, 18017), (327, 18029), (340, 18089), (349, 18146), (369, 18284), (371, 18305), (373, 18329), (377, 18374), (381, 18392), (387, 18440),

(390, 18452), (397, 18494), (413, 18557), (425, 18614), (429, 18683), (435, 18719), (447, 18800), (458, 18935),

Gene: Crucio_26 Start: 16547, Stop: 19084, Start Num: 56

Candidate Starts for Crucio_26:

(Start: 56 @16547 has 91 MA's), (83, 16724), (84, 16727), (85, 16730), (91, 16760), (111, 16898), (114, 16919), (115, 16928), (122, 16949), (128, 16982), (138, 17042), (141, 17057), (148, 17108), (154, 17156), (156, 17174), (164, 17207), (166, 17219), (167, 17222), (168, 17228), (171, 17249), (172, 17252), (185, 17339), (195, 17438), (200, 17480), (201, 17489), (203, 17498), (212, 17546), (214, 17555), (224, 17621), (230, 17660), (257, 17846), (261, 17861), (266, 17894), (271, 17945), (276, 17966), (280, 17981), (281, 17990), (283, 18005), (297, 18074), (327, 18227), (333, 18248), (355, 18377), (363, 18422), (365, 18434), (367, 18470), (408, 18650), (410, 18659), (430, 18770), (434, 18800), (446, 18884),

Gene: Cullens_27 Start: 15978, Stop: 19004, Start Num: 12

Candidate Starts for Cullens_27:

(4, 15924), (Start: 12 @15978 has 88 MA's), (20, 16092), (Start: 25 @16158 has 33 MA's), (26, 16161), (28, 16170), (36, 16206), (46, 16257), (57, 16329), (68, 16401), (86, 16521), (88, 16524), (98, 16593), (101, 16638), (115, 16731), (118, 16740), (124, 16758), (128, 16785), (139, 16848), (141, 16860), (145, 16893), (148, 16911), (156, 16977), (157, 16980), (159, 16986), (162, 17001), (164, 17010), (166, 17022), (168, 17031), (178, 17109), (182, 17124), (195, 17241), (196, 17244), (199, 17271), (200, 17283), (209, 17337), (214, 17358), (224, 17424), (230, 17463), (243, 17556), (252, 17604), (257, 17649), (266, 17697), (270, 17739), (271, 17748), (278, 17778), (279, 17781), (281, 17793), (291, 17850), (292, 17856), (297, 17877), (298, 17880), (325, 18018), (327, 18030), (340, 18090), (349, 18147), (369, 18285), (371, 18306), (373, 18330), (377, 18375), (381, 18393), (387, 18441), (390, 18453), (397, 18495), (413, 18558), (425, 18615), (429, 18684), (435, 18720), (447, 18801), (458, 18936),

Gene: D29_26 Start: 16508, Stop: 19021, Start Num: 56

Candidate Starts for D29_26:

(Start: 56 @16508 has 91 MA's), (84, 16688), (85, 16691), (127, 16934), (128, 16937), (138, 16997), (141, 17012), (144, 17042), (145, 17045), (156, 17129), (162, 17153), (167, 17177), (171, 17204), (172, 17207), (189, 17318), (195, 17393), (198, 17420), (200, 17435), (209, 17489), (214, 17510), (224, 17576), (226, 17594), (227, 17603), (241, 17702), (246, 17735), (249, 17744), (257, 17801), (261, 17816), (276, 17921), (298, 18032), (301, 18044), (302, 18050), (308, 18083), (309, 18086), (333, 18203), (355, 18332), (359, 18347), (363, 18377), (365, 18389), (367, 18425), (392, 18539), (393, 18551), (404, 18593), (442, 18800), (445, 18818), (446, 18821), (464, 19007),

Gene: D32_29 Start: 16508, Stop: 19021, Start Num: 56

Candidate Starts for D32_29:

(Start: 56 @16508 has 91 MA's), (84, 16688), (85, 16691), (127, 16934), (128, 16937), (138, 16997), (141, 17012), (144, 17042), (145, 17045), (156, 17129), (162, 17153), (167, 17177), (171, 17204), (172, 17207), (189, 17318), (195, 17393), (198, 17420), (200, 17435), (209, 17489), (214, 17510), (224, 17576), (226, 17594), (227, 17603), (241, 17702), (246, 17735), (249, 17744), (257, 17801), (261, 17816), (276, 17921), (298, 18032), (301, 18044), (302, 18050), (308, 18083), (309, 18086), (333, 18203), (355, 18332), (359, 18347), (363, 18377), (365, 18389), (367, 18425), (392, 18539), (393, 18551), (404, 18593), (442, 18800), (445, 18818), (446, 18821), (464, 19007),

Gene: DBQu4n_29 Start: 16508, Stop: 19021, Start Num: 56

Candidate Starts for DBQu4n_29:

(Start: 56 @16508 has 91 MA's), (84, 16688), (85, 16691), (128, 16937), (138, 16997), (141, 17012), (144, 17042), (145, 17045), (156, 17129), (162, 17153), (167, 17177), (171, 17204), (172, 17207), (188, 17312), (195, 17393), (198, 17420), (200, 17435), (209, 17489), (214, 17510), (224, 17576),

(226, 17594), (227, 17603), (241, 17702), (246, 17735), (249, 17744), (257, 17801), (261, 17816), (276, 17921), (298, 18032), (301, 18044), (302, 18050), (308, 18083), (333, 18203), (355, 18332), (359, 18347), (363, 18377), (365, 18389), (367, 18425), (392, 18539), (393, 18551), (404, 18593), (442, 18800), (445, 18818), (446, 18821), (464, 19007),

Gene: DaHudson_27 Start: 15971, Stop: 18997, Start Num: 12

Candidate Starts for DaHudson_27:

(4, 15917), (Start: 12 @15971 has 88 MA's), (20, 16085), (Start: 25 @16151 has 33 MA's), (26, 16154), (28, 16163), (36, 16199), (46, 16250), (57, 16322), (68, 16394), (86, 16514), (88, 16517), (98, 16586), (101, 16631), (115, 16724), (118, 16733), (124, 16751), (128, 16778), (139, 16841), (141, 16853), (145, 16886), (148, 16904), (156, 16970), (157, 16973), (159, 16979), (162, 16994), (164, 17003), (166, 17015), (168, 17024), (182, 17117), (195, 17234), (196, 17237), (199, 17264), (200, 17276), (209, 17330), (214, 17351), (224, 17417), (227, 17444), (243, 17549), (252, 17597), (257, 17642), (266, 17690), (270, 17732), (271, 17741), (278, 17771), (279, 17774), (281, 17786), (291, 17843), (292, 17849), (297, 17870), (298, 17873), (325, 18011), (327, 18023), (340, 18083), (350, 18143), (355, 18173), (356, 18176), (358, 18185), (369, 18278), (377, 18368), (387, 18434), (390, 18446), (397, 18488), (413, 18551), (425, 18608), (429, 18677), (435, 18713), (447, 18794), (458, 18929),

Gene: Daishi_26 Start: 14904, Stop: 17930, Start Num: 12

Candidate Starts for Daishi_26:

(4, 14850), (Start: 12 @14904 has 88 MA's), (20, 15018), (Start: 25 @15084 has 33 MA's), (26, 15087), (28, 15096), (36, 15132), (46, 15183), (57, 15255), (68, 15327), (86, 15447), (88, 15450), (98, 15519), (101, 15564), (115, 15657), (118, 15666), (124, 15684), (128, 15711), (139, 15774), (141, 15786), (145, 15819), (148, 15837), (156, 15903), (157, 15906), (159, 15912), (162, 15927), (164, 15936), (166, 15948), (168, 15957), (178, 16035), (182, 16050), (195, 16167), (196, 16170), (199, 16197), (200, 16209), (209, 16263), (214, 16284), (224, 16350), (230, 16389), (243, 16482), (252, 16530), (257, 16575), (266, 16623), (270, 16665), (271, 16674), (278, 16704), (279, 16707), (281, 16719), (291, 16776), (292, 16782), (297, 16803), (298, 16806), (325, 16944), (327, 16956), (340, 17016), (349, 17073), (369, 17211), (371, 17232), (373, 17256), (377, 17301), (381, 17319), (387, 17367), (390, 17379), (397, 17421), (413, 17484), (425, 17541), (429, 17610), (435, 17646), (447, 17727), (458, 17862),

Gene: Dalmatian_26 Start: 16688, Stop: 19231, Start Num: 56

Candidate Starts for Dalmatian_26:

(Start: 56 @16688 has 91 MA's), (83, 16865), (84, 16868), (85, 16871), (110, 17039), (111, 17045), (114, 17066), (115, 17075), (122, 17096), (128, 17129), (134, 17162), (148, 17255), (154, 17303), (156, 17321), (162, 17345), (164, 17354), (166, 17366), (167, 17369), (168, 17375), (171, 17396), (172, 17399), (185, 17486), (195, 17585), (200, 17627), (203, 17645), (206, 17666), (212, 17693), (214, 17702), (224, 17768), (230, 17807), (257, 17993), (261, 18008), (266, 18041), (271, 18092), (276, 18113), (280, 18128), (281, 18137), (283, 18152), (297, 18221), (327, 18374), (333, 18395), (355, 18524), (359, 18539), (363, 18569), (365, 18581), (367, 18617), (408, 18797), (410, 18806), (430, 18917), (434, 18947), (446, 19031),

Gene: Darrell_28 Start: 17782, Stop: 20697, Start Num: 25

Candidate Starts for Darrell_28:

(Start: 25 @17782 has 33 MA's), (27, 17794), (35, 17854), (52, 18013), (64, 18076), (71, 18139), (78, 18181), (88, 18238), (116, 18451), (118, 18457), (123, 18472), (138, 18562), (139, 18565), (141, 18577), (146, 18616), (147, 18619), (152, 18673), (156, 18694), (168, 18748), (171, 18769), (172, 18772), (173, 18790), (184, 18853), (193, 18919), (195, 18958), (198, 18985), (200, 19000), (205, 19030), (209, 19054), (214, 19075), (224, 19141), (230, 19180), (243, 19273), (250, 19312), (276, 19486), (278, 19495), (284, 19531), (288, 19552), (291, 19567), (292, 19573), (297, 19594), (298, 19597), (309, 19651), (320, 19705), (321, 19711), (336, 19777), (338, 19789), (350, 19867), (355, 19897), (363, 19942), (368, 19993), (376, 20080), (378, 20089), (385, 20140), (391, 20170), (397,

20203), (410, 20263), (421, 20305), (429, 20383), (433, 20410), (441, 20470), (451, 20569), (457, 20605), (459, 20635), (462, 20677),

Gene: DARTHPhader_27 Start: 17575, Stop: 20688, Start Num: 12

Candidate Starts for DARTHPhader_27:

(1, 17329), (7, 17545), (Start: 12 @17575 has 88 MA's), (Start: 25 @17752 has 33 MA's), (27, 17764), (32, 17800), (64, 18034), (71, 18097), (86, 18193), (88, 18196), (95, 18235), (114, 18397), (115, 18406), (116, 18409), (120, 18421), (128, 18460), (134, 18493), (142, 18556), (148, 18586), (152, 18631), (156, 18652), (157, 18655), (162, 18676), (168, 18706), (169, 18718), (175, 18757), (176, 18766), (179, 18787), (184, 18811), (202, 18973), (210, 19015), (214, 19033), (215, 19042), (216, 19054), (223, 19096), (224, 19099), (230, 19138), (244, 19240), (246, 19258), (257, 19324), (274, 19435), (276, 19444), (284, 19489), (287, 19504), (293, 19534), (296, 19546), (297, 19552), (299, 19561), (301, 19567), (310, 19615), (311, 19621), (313, 19627), (325, 19693), (340, 19765), (341, 19768), (350, 19825), (355, 19855), (358, 19867), (362, 19891), (363, 19900), (377, 20056), (382, 20092), (384, 20101), (397, 20176), (414, 20257), (416, 20266), (435, 20413), (440, 20461), (441, 20464), (446, 20488), (458, 20617), (459, 20629),

Gene: DeerParkTS_27 Start: 16687, Stop: 19218, Start Num: 56

Candidate Starts for DeerParkTS_27:

(Start: 56 @16687 has 91 MA's), (79, 16828), (84, 16867), (95, 16912), (110, 17026), (111, 17032), (114, 17053), (115, 17062), (122, 17083), (128, 17116), (130, 17128), (134, 17149), (141, 17191), (147, 17233), (148, 17242), (156, 17308), (164, 17341), (168, 17362), (171, 17383), (172, 17386), (195, 17572), (200, 17614), (201, 17623), (203, 17632), (209, 17668), (214, 17689), (223, 17752), (224, 17755), (227, 17782), (230, 17794), (238, 17857), (271, 18079), (274, 18091), (275, 18094), (276, 18100), (280, 18115), (284, 18145), (285, 18148), (288, 18166), (289, 18169), (290, 18178), (291, 18181), (297, 18208), (301, 18223), (303, 18232), (306, 18250), (308, 18262), (311, 18277), (320, 18319), (327, 18361), (340, 18421), (345, 18448), (355, 18511), (363, 18556), (365, 18568), (390, 18706), (404, 18775), (408, 18784), (410, 18793), (430, 18904), (434, 18934), (439, 18988), (446, 19018),

Gene: Deloris_27 Start: 17042, Stop: 19579, Start Num: 56

Candidate Starts for Deloris_27:

(Start: 56 @17042 has 91 MA's), (84, 17222), (85, 17225), (95, 17273), (111, 17393), (114, 17414), (115, 17423), (122, 17444), (128, 17477), (134, 17510), (141, 17552), (148, 17603), (150, 17624), (152, 17648), (154, 17651), (156, 17669), (164, 17702), (166, 17714), (168, 17723), (171, 17744), (172, 17747), (185, 17834), (195, 17933), (200, 17975), (201, 17984), (203, 17993), (214, 18050), (224, 18116), (230, 18155), (276, 18461), (278, 18470), (280, 18476), (281, 18485), (284, 18506), (289, 18530), (293, 18551), (298, 18572), (299, 18578), (306, 18611), (308, 18623), (327, 18722), (340, 18782), (345, 18809), (355, 18872), (408, 19145), (410, 19154), (430, 19265), (434, 19295), (446, 19379),

Gene: Dieselweasel_27 Start: 15980, Stop: 19006, Start Num: 12

Candidate Starts for Dieselweasel_27:

(4, 15926), (Start: 12 @15980 has 88 MA's), (20, 16094), (Start: 25 @16160 has 33 MA's), (26, 16163), (28, 16172), (36, 16208), (46, 16259), (57, 16331), (68, 16403), (86, 16523), (88, 16526), (98, 16595), (101, 16640), (115, 16733), (118, 16742), (124, 16760), (128, 16787), (139, 16850), (141, 16862), (145, 16895), (148, 16913), (156, 16979), (157, 16982), (159, 16988), (162, 17003), (164, 17012), (166, 17024), (168, 17033), (178, 17111), (182, 17126), (195, 17243), (196, 17246), (199, 17273), (200, 17285), (209, 17339), (214, 17360), (224, 17426), (230, 17465), (243, 17558), (252, 17606), (257, 17651), (266, 17699), (270, 17741), (271, 17750), (278, 17780), (279, 17783), (281, 17795), (291, 17852), (292, 17858), (297, 17879), (298, 17882), (325, 18020), (327, 18032), (340, 18092), (349, 18149), (369, 18287), (371, 18308), (373, 18332), (377, 18377), (381, 18395), (387, 18443), (390, 18455), (397, 18497), (413, 18560), (425, 18617), (429, 18686), (435, 18722), (447, 18803),

(458, 18938),

Gene: Dignity_28 Start: 17064, Stop: 19607, Start Num: 56

Candidate Starts for Dignity_28:

(Start: 56 @17064 has 91 MA's), (84, 17244), (85, 17247), (110, 17415), (111, 17421), (114, 17442), (115, 17451), (118, 17460), (122, 17472), (130, 17517), (134, 17538), (141, 17580), (148, 17631), (152, 17676), (154, 17679), (156, 17697), (164, 17730), (166, 17742), (168, 17751), (171, 17772), (172, 17775), (185, 17862), (195, 17961), (200, 18003), (201, 18012), (203, 18021), (214, 18078), (224, 18144), (230, 18183), (241, 18270), (243, 18276), (249, 18312), (257, 18369), (268, 18435), (271, 18468), (275, 18483), (276, 18489), (278, 18498), (281, 18513), (284, 18534), (288, 18555), (292, 18576), (293, 18579), (297, 18597), (298, 18600), (308, 18651), (320, 18708), (323, 18726), (327, 18750), (340, 18810), (345, 18837), (355, 18900), (363, 18945), (376, 19083), (408, 19173), (410, 19182), (420, 19206), (428, 19284), (430, 19293), (434, 19323), (446, 19407),

Gene: Drake55_28 Start: 17129, Stop: 19636, Start Num: 56

Candidate Starts for Drake55_28:

(Start: 56 @17129 has 91 MA's), (73, 17240), (82, 17297), (109, 17453), (114, 17483), (115, 17492), (128, 17546), (134, 17579), (136, 17585), (162, 17765), (164, 17774), (167, 17789), (168, 17795), (171, 17816), (172, 17819), (173, 17837), (182, 17888), (183, 17897), (195, 18005), (200, 18047), (201, 18056), (209, 18101), (214, 18122), (224, 18188), (230, 18227), (257, 18413), (261, 18428), (264, 18455), (271, 18512), (275, 18527), (276, 18533), (278, 18542), (281, 18557), (284, 18578), (288, 18599), (293, 18623), (299, 18650), (301, 18656), (306, 18683), (325, 18782), (327, 18794), (345, 18881), (355, 18944), (363, 18989), (367, 19037), (372, 19073), (374, 19106), (395, 19169), (401, 19193), (431, 19337), (446, 19436), (453, 19523), (464, 19622),

Gene: DreamTeam1_26 Start: 15742, Stop: 18648, Start Num: 25

Candidate Starts for DreamTeam1_26:

(Start: 8 @15553 has 1 MA's), (19, 15655), (Start: 25 @15742 has 33 MA's), (27, 15754), (42, 15886), (46, 15907), (49, 15928), (52, 15970), (58, 15982), (64, 16033), (71, 16096), (78, 16138), (88, 16195), (95, 16234), (116, 16405), (118, 16411), (138, 16516), (141, 16531), (146, 16570), (147, 16573), (156, 16648), (157, 16651), (168, 16702), (171, 16723), (172, 16726), (173, 16744), (195, 16912), (198, 16939), (200, 16954), (209, 17008), (214, 17029), (223, 17092), (224, 17095), (230, 17134), (243, 17227), (246, 17254), (266, 17368), (267, 17377), (272, 17422), (278, 17449), (284, 17485), (288, 17506), (291, 17521), (297, 17548), (298, 17551), (303, 17572), (309, 17605), (321, 17665), (327, 17701), (355, 17851), (363, 17896), (368, 17947), (374, 18013), (377, 18037), (381, 18055), (383, 18076), (385, 18094), (391, 18124), (397, 18157), (402, 18178), (408, 18208), (421, 18259), (429, 18337), (435, 18373), (441, 18424), (446, 18448), (451, 18523), (459, 18589), (462, 18631),

Gene: DroogsArmy_26 Start: 17266, Stop: 20634, Start Num: 3

Candidate Starts for DroogsArmy_26:

(Start: 3 @17266 has 4 MA's), (6, 17395), (14, 17449), (16, 17491), (29, 17653), (53, 17803), (72, 17905), (94, 18040), (122, 18238), (134, 18304), (138, 18331), (139, 18334), (141, 18346), (149, 18409), (150, 18418), (152, 18442), (159, 18472), (168, 18517), (172, 18541), (192, 18685), (195, 18727), (198, 18754), (200, 18769), (206, 18808), (209, 18823), (214, 18844), (222, 18901), (224, 18910), (225, 18919), (245, 19060), (258, 19138), (267, 19192), (276, 19255), (280, 19270), (284, 19300), (286, 19312), (287, 19315), (290, 19333), (292, 19342), (296, 19357), (300, 19375), (307, 19408), (310, 19426), (316, 19489), (326, 19555), (327, 19564), (328, 19567), (329, 19576), (330, 19579), (331, 19588), (332, 19597), (337, 19630), (338, 19642), (342, 19666), (347, 19696), (358, 19774), (360, 19786), (361, 19795), (362, 19798), (363, 19807), (364, 19816), (371, 19894), (373, 19918), (377, 19963), (381, 19981), (389, 20038), (392, 20056), (396, 20080), (398, 20089), (403, 20110), (404, 20131), (405, 20143), (408, 20164), (416, 20203), (423, 20236), (430, 20317), (435, 20350), (441, 20401), (445, 20422), (448, 20446), (453, 20512), (455, 20527), (456, 20533),

Gene: DropBear_25 Start: 15555, Stop: 18593, Start Num: 11

Candidate Starts for DropBear_25:

(Start: 11 @15555 has 33 MA's), (24, 15729), (26, 15741), (30, 15774), (68, 15984), (88, 16107), (92, 16128), (115, 16314), (128, 16368), (139, 16431), (141, 16443), (145, 16476), (148, 16494), (157, 16563), (159, 16569), (162, 16584), (164, 16593), (166, 16605), (168, 16614), (182, 16707), (195, 16824), (196, 16827), (199, 16854), (200, 16866), (209, 16920), (214, 16941), (216, 16962), (224, 17007), (230, 17046), (252, 17187), (257, 17232), (261, 17247), (270, 17322), (271, 17331), (278, 17361), (281, 17376), (282, 17379), (284, 17397), (288, 17418), (289, 17421), (292, 17439), (297, 17460), (298, 17463), (314, 17547), (327, 17613), (333, 17634), (340, 17673), (348, 17712), (355, 17763), (356, 17766), (358, 17775), (362, 17799), (369, 17868), (371, 17889), (377, 17958), (381, 17976), (387, 18024), (390, 18036), (397, 18078), (399, 18090), (412, 18138), (435, 18309), (437, 18339), (443, 18369), (447, 18390), (458, 18525), (459, 18537), (461, 18573),

Gene: DudeLittle_26 Start: 16690, Stop: 19233, Start Num: 56

Candidate Starts for DudeLittle_26:

(Start: 56 @16690 has 91 MA's), (83, 16867), (84, 16870), (85, 16873), (110, 17041), (111, 17047), (114, 17068), (115, 17077), (122, 17098), (128, 17131), (134, 17164), (148, 17257), (154, 17305), (156, 17323), (162, 17347), (164, 17356), (166, 17368), (167, 17371), (168, 17377), (171, 17398), (172, 17401), (185, 17488), (195, 17587), (200, 17629), (203, 17647), (212, 17695), (214, 17704), (224, 17770), (230, 17809), (257, 17995), (261, 18010), (266, 18043), (271, 18094), (276, 18115), (280, 18130), (281, 18139), (283, 18154), (297, 18223), (327, 18376), (333, 18397), (355, 18526), (363, 18571), (365, 18583), (367, 18619), (408, 18799), (410, 18808), (430, 18919), (434, 18949), (446, 19033),

Gene: Duplo_29 Start: 16546, Stop: 19059, Start Num: 56

Candidate Starts for Duplo_29:

(Start: 56 @16546 has 91 MA's), (84, 16726), (85, 16729), (128, 16975), (138, 17035), (141, 17050), (144, 17080), (145, 17083), (156, 17167), (162, 17191), (167, 17215), (171, 17242), (172, 17245), (188, 17350), (195, 17431), (198, 17458), (200, 17473), (209, 17527), (214, 17548), (224, 17614), (226, 17632), (227, 17641), (241, 17740), (246, 17773), (249, 17782), (257, 17839), (261, 17854), (276, 17959), (298, 18070), (301, 18082), (302, 18088), (308, 18121), (333, 18241), (355, 18370), (359, 18385), (363, 18415), (365, 18427), (367, 18463), (392, 18577), (393, 18589), (404, 18631), (442, 18838), (445, 18856), (446, 18859), (464, 19045),

Gene: EZMoney23_30 Start: 18597, Stop: 21101, Start Num: 56

Candidate Starts for EZMoney23_30:

(Start: 56 @18597 has 91 MA's), (73, 18708), (77, 18726), (82, 18765), (86, 18786), (91, 18810), (114, 18939), (115, 18948), (141, 19077), (148, 19128), (157, 19197), (159, 19203), (162, 19218), (164, 19227), (166, 19239), (168, 19248), (195, 19458), (198, 19485), (200, 19500), (209, 19554), (214, 19575), (224, 19641), (230, 19680), (257, 19866), (271, 19965), (275, 19980), (276, 19986), (278, 19995), (281, 20010), (284, 20031), (288, 20052), (297, 20094), (301, 20109), (306, 20136), (317, 20193), (320, 20205), (327, 20247), (340, 20307), (345, 20334), (349, 20364), (355, 20397), (363, 20442), (365, 20454), (404, 20661), (408, 20670), (410, 20679), (427, 20760), (430, 20790), (434, 20820), (446, 20901),

Gene: Echild_26 Start: 16721, Stop: 19258, Start Num: 56

Candidate Starts for Echild_26:

(Start: 56 @16721 has 91 MA's), (84, 16901), (91, 16934), (110, 17066), (111, 17072), (114, 17093), (115, 17102), (134, 17189), (141, 17231), (148, 17282), (151, 17318), (154, 17330), (156, 17348), (164, 17381), (166, 17393), (167, 17396), (168, 17402), (171, 17423), (172, 17426), (195, 17612), (200, 17654), (201, 17663), (203, 17672), (214, 17729), (224, 17795), (230, 17834), (253, 17987), (276, 18140), (278, 18149), (280, 18155), (281, 18164), (284, 18185), (289, 18209), (293, 18230), (298, 18251), (306, 18290), (308, 18302), (327, 18401), (340, 18461), (345, 18488), (355, 18551),

(363, 18596), (367, 18644), (408, 18824), (410, 18833), (430, 18944), (434, 18974), (446, 19058),

Gene: EdogawaKiddo_25 Start: 17590, Stop: 20499, Start Num: 25

Candidate Starts for EdogawaKiddo_25:

(Start: 25 @17590 has 33 MA's), (27, 17602), (35, 17662), (64, 17884), (71, 17947), (78, 17989), (88, 18046), (95, 18085), (116, 18256), (118, 18262), (123, 18277), (138, 18367), (139, 18370), (141, 18382), (147, 18424), (152, 18478), (168, 18553), (171, 18574), (172, 18577), (173, 18595), (184, 18658), (193, 18724), (195, 18763), (198, 18790), (200, 18805), (205, 18835), (209, 18859), (214, 18880), (224, 18946), (230, 18985), (239, 19051), (243, 19078), (246, 19105), (257, 19171), (265, 19216), (276, 19291), (284, 19336), (288, 19357), (292, 19378), (293, 19381), (297, 19399), (298, 19402), (304, 19429), (309, 19456), (320, 19510), (355, 19702), (359, 19717), (363, 19747), (368, 19798), (376, 19885), (378, 19894), (385, 19945), (397, 20008), (402, 20029), (410, 20065), (420, 20101), (421, 20107), (429, 20185), (433, 20212), (441, 20272), (450, 20341), (451, 20371), (455, 20398), (459, 20437), (462, 20479),

Gene: Eidsmoe_27 Start: 17620, Stop: 20529, Start Num: 25

Candidate Starts for Eidsmoe_27:

(Start: 25 @17620 has 33 MA's), (27, 17632), (35, 17692), (64, 17914), (71, 17977), (78, 18019), (86, 18073), (88, 18076), (95, 18115), (116, 18286), (118, 18292), (123, 18307), (138, 18397), (139, 18400), (141, 18412), (147, 18454), (152, 18508), (156, 18529), (168, 18583), (171, 18604), (172, 18607), (173, 18625), (184, 18688), (193, 18754), (195, 18793), (198, 18820), (200, 18835), (205, 18865), (209, 18889), (212, 18901), (214, 18910), (224, 18976), (230, 19015), (239, 19081), (243, 19108), (246, 19135), (265, 19246), (276, 19321), (281, 19345), (284, 19366), (288, 19387), (292, 19408), (293, 19411), (297, 19429), (298, 19432), (304, 19459), (315, 19519), (322, 19549), (327, 19582), (336, 19612), (338, 19624), (355, 19732), (359, 19747), (363, 19777), (368, 19828), (376, 19915), (378, 19924), (385, 19975), (397, 20038), (402, 20059), (410, 20095), (420, 20131), (421, 20137), (429, 20215), (433, 20242), (450, 20371), (451, 20401), (455, 20428), (459, 20467), (462, 20509),

Gene: Elephantoon_27 Start: 17214, Stop: 20141, Start Num: 25

Candidate Starts for Elephantoon_27:

(Start: 25 @17214 has 33 MA's), (27, 17226), (32, 17262), (35, 17286), (64, 17508), (71, 17571), (78, 17613), (86, 17667), (88, 17670), (116, 17883), (118, 17889), (123, 17904), (138, 17994), (139, 17997), (141, 18009), (146, 18048), (152, 18105), (166, 18171), (168, 18180), (171, 18201), (172, 18204), (173, 18222), (184, 18285), (195, 18390), (196, 18393), (197, 18402), (198, 18417), (200, 18432), (209, 18486), (214, 18507), (223, 18570), (224, 18573), (230, 18612), (243, 18705), (276, 18918), (284, 18963), (292, 19005), (297, 19026), (298, 19029), (303, 19050), (311, 19095), (323, 19155), (327, 19179), (340, 19239), (341, 19242), (350, 19299), (355, 19329), (358, 19341), (362, 19365), (363, 19374), (369, 19440), (374, 19506), (377, 19530), (397, 19650), (402, 19671), (410, 19707), (421, 19749), (424, 19764), (429, 19827), (433, 19854), (441, 19914), (451, 20013), (457, 20049), (459, 20079), (462, 20121),

Gene: EmyBug_27 Start: 17620, Stop: 20529, Start Num: 25

Candidate Starts for EmyBug_27:

(Start: 25 @17620 has 33 MA's), (27, 17632), (35, 17692), (64, 17914), (71, 17977), (78, 18019), (86, 18073), (88, 18076), (95, 18115), (116, 18286), (118, 18292), (123, 18307), (138, 18397), (139, 18400), (141, 18412), (147, 18454), (152, 18508), (156, 18529), (168, 18583), (171, 18604), (172, 18607), (173, 18625), (184, 18688), (193, 18754), (195, 18793), (198, 18820), (200, 18835), (205, 18865), (209, 18889), (212, 18901), (214, 18910), (224, 18976), (230, 19015), (239, 19081), (243, 19108), (246, 19135), (265, 19246), (276, 19321), (284, 19366), (288, 19387), (292, 19408), (293, 19411), (297, 19429), (298, 19432), (304, 19459), (309, 19486), (320, 19540), (355, 19732), (359, 19747), (363, 19777), (368, 19828), (376, 19915), (378, 19924), (385, 19975), (397, 20038), (402, 20059), (410, 20095), (420, 20131), (421, 20137), (429, 20215), (433, 20242), (450, 20371), (451,

20401), (455, 20428), (459, 20467), (462, 20509),

Gene: EpicPhail_27 Start: 15979, Stop: 19005, Start Num: 12

Candidate Starts for EpicPhail_27:

(4, 15925), (Start: 12 @15979 has 88 MA's), (20, 16093), (Start: 25 @16159 has 33 MA's), (26, 16162), (28, 16171), (36, 16207), (46, 16258), (57, 16330), (68, 16402), (86, 16522), (88, 16525), (98, 16594), (101, 16639), (115, 16732), (118, 16741), (124, 16759), (128, 16786), (139, 16849), (141, 16861), (145, 16894), (148, 16912), (156, 16978), (157, 16981), (159, 16987), (162, 17002), (164, 17011), (166, 17023), (168, 17032), (178, 17110), (182, 17125), (195, 17242), (196, 17245), (199, 17272), (200, 17284), (209, 17338), (214, 17359), (224, 17425), (230, 17464), (243, 17557), (252, 17605), (257, 17650), (266, 17698), (270, 17740), (271, 17749), (278, 17779), (279, 17782), (281, 17794), (291, 17851), (292, 17857), (297, 17878), (298, 17881), (325, 18019), (327, 18031), (340, 18091), (349, 18148), (369, 18286), (371, 18307), (373, 18331), (377, 18376), (381, 18394), (387, 18442), (390, 18454), (397, 18496), (413, 18559), (425, 18616), (429, 18685), (435, 18721), (447, 18802), (458, 18937),

Gene: Equemioh13_28 Start: 17115, Stop: 19622, Start Num: 56

Candidate Starts for Equemioh13_28:

(Start: 56 @17115 has 91 MA's), (73, 17226), (82, 17283), (114, 17469), (128, 17532), (134, 17565), (136, 17571), (162, 17751), (164, 17760), (168, 17781), (171, 17802), (172, 17805), (173, 17823), (183, 17883), (195, 17991), (200, 18033), (209, 18087), (214, 18108), (223, 18171), (224, 18174), (226, 18192), (230, 18213), (257, 18399), (261, 18414), (264, 18441), (271, 18498), (275, 18513), (276, 18519), (278, 18528), (280, 18534), (284, 18564), (288, 18585), (298, 18630), (299, 18636), (306, 18669), (311, 18696), (325, 18768), (327, 18780), (340, 18840), (345, 18867), (355, 18930), (363, 18975), (365, 18987), (367, 19023), (372, 19059), (374, 19092), (395, 19155), (401, 19179), (431, 19323), (446, 19422), (453, 19509), (464, 19608),

Gene: EtoileNova_26 Start: 16047, Stop: 19085, Start Num: 11

Candidate Starts for EtoileNova_26:

(Start: 11 @16047 has 33 MA's), (24, 16221), (26, 16233), (30, 16266), (68, 16473), (70, 16494), (86, 16593), (88, 16596), (115, 16806), (122, 16827), (128, 16860), (139, 16923), (141, 16935), (145, 16968), (148, 16986), (150, 17007), (157, 17055), (159, 17061), (162, 17076), (164, 17085), (166, 17097), (168, 17106), (182, 17199), (195, 17316), (196, 17319), (199, 17346), (200, 17358), (209, 17412), (214, 17433), (224, 17499), (230, 17538), (252, 17679), (257, 17724), (270, 17814), (271, 17823), (278, 17853), (288, 17910), (291, 17925), (297, 17952), (298, 17955), (302, 17973), (324, 18084), (340, 18165), (349, 18222), (357, 18264), (369, 18360), (371, 18381), (373, 18405), (377, 18450), (381, 18468), (387, 18516), (390, 18528), (397, 18570), (399, 18582), (412, 18630), (435, 18801), (443, 18861), (445, 18873), (449, 18900), (450, 18921), (458, 19017), (461, 19065),

Gene: EvilGenius_28 Start: 17032, Stop: 19575, Start Num: 56

Candidate Starts for EvilGenius_28:

(Start: 56 @17032 has 91 MA's), (83, 17209), (84, 17212), (85, 17215), (109, 17380), (111, 17389), (114, 17410), (115, 17419), (122, 17440), (128, 17473), (134, 17506), (141, 17548), (148, 17599), (149, 17611), (152, 17644), (154, 17647), (156, 17665), (164, 17698), (166, 17710), (168, 17719), (171, 17740), (172, 17743), (195, 17929), (200, 17971), (201, 17980), (203, 17989), (214, 18046), (224, 18112), (230, 18151), (243, 18244), (249, 18280), (257, 18337), (268, 18403), (271, 18436), (275, 18451), (276, 18457), (278, 18466), (281, 18481), (284, 18502), (288, 18523), (292, 18544), (293, 18547), (297, 18565), (298, 18568), (306, 18607), (308, 18619), (320, 18676), (323, 18694), (327, 18718), (340, 18778), (345, 18805), (355, 18868), (376, 19051), (404, 19132), (408, 19141), (410, 19150), (430, 19261), (434, 19291), (446, 19375),

Gene: ExplosioNervosa_27 Start: 17623, Stop: 20532, Start Num: 25

Candidate Starts for ExplosioNervosa_27:

(Start: 25 @17623 has 33 MA's), (27, 17635), (35, 17695), (52, 17854), (64, 17917), (71, 17980), (78, 18022), (88, 18079), (95, 18118), (116, 18289), (118, 18295), (123, 18310), (138, 18400), (139, 18403), (141, 18415), (147, 18457), (152, 18511), (168, 18586), (171, 18607), (172, 18610), (173, 18628), (184, 18691), (193, 18757), (195, 18796), (198, 18823), (200, 18838), (205, 18868), (209, 18892), (212, 18904), (214, 18913), (224, 18979), (230, 19018), (239, 19084), (243, 19111), (246, 19138), (265, 19249), (276, 19324), (284, 19369), (288, 19390), (292, 19411), (293, 19414), (297, 19432), (298, 19435), (304, 19462), (309, 19489), (320, 19543), (355, 19735), (359, 19750), (363, 19780), (368, 19831), (376, 19918), (378, 19927), (385, 19978), (397, 20041), (402, 20062), (410, 20098), (420, 20134), (421, 20140), (429, 20218), (433, 20245), (441, 20305), (450, 20374), (451, 20404), (455, 20431), (459, 20470), (462, 20512),

Gene: Fameo_26 Start: 16665, Stop: 19202, Start Num: 56

Candidate Starts for Fameo_26:

(Start: 56 @16665 has 91 MA's), (83, 16842), (84, 16845), (85, 16848), (110, 17010), (111, 17016), (114, 17037), (115, 17046), (122, 17067), (128, 17100), (134, 17133), (148, 17226), (154, 17274), (156, 17292), (164, 17325), (166, 17337), (167, 17340), (168, 17346), (171, 17367), (172, 17370), (195, 17556), (200, 17598), (201, 17607), (212, 17664), (214, 17673), (224, 17739), (230, 17778), (243, 17871), (245, 17889), (257, 17964), (271, 18063), (275, 18078), (276, 18084), (278, 18093), (281, 18108), (284, 18129), (288, 18150), (293, 18174), (298, 18195), (299, 18201), (306, 18234), (308, 18246), (310, 18255), (327, 18345), (340, 18405), (345, 18432), (355, 18495), (363, 18540), (376, 18678), (408, 18768), (410, 18777), (430, 18888), (434, 18918), (446, 19002),

Gene: Farber_27 Start: 15972, Stop: 18998, Start Num: 12

Candidate Starts for Farber_27:

(4, 15918), (Start: 12 @15972 has 88 MA's), (20, 16086), (Start: 25 @16152 has 33 MA's), (26, 16155), (28, 16164), (36, 16200), (46, 16251), (57, 16323), (68, 16395), (86, 16515), (88, 16518), (98, 16587), (101, 16632), (115, 16725), (118, 16734), (124, 16752), (128, 16779), (139, 16842), (141, 16854), (145, 16887), (148, 16905), (156, 16971), (157, 16974), (159, 16980), (162, 16995), (164, 17004), (166, 17016), (168, 17025), (182, 17118), (195, 17235), (196, 17238), (199, 17265), (200, 17277), (209, 17331), (214, 17352), (224, 17418), (227, 17445), (243, 17550), (252, 17598), (257, 17643), (266, 17691), (270, 17733), (271, 17742), (278, 17772), (279, 17775), (281, 17787), (291, 17844), (292, 17850), (297, 17871), (298, 17874), (325, 18012), (327, 18024), (340, 18084), (350, 18144), (355, 18174), (356, 18177), (358, 18186), (369, 18279), (377, 18369), (387, 18435), (390, 18447), (397, 18489), (413, 18552), (425, 18609), (429, 18678), (435, 18714), (447, 18795), (458, 18930),

Gene: Fayely_27 Start: 17623, Stop: 20532, Start Num: 25

Candidate Starts for Fayely_27:

(Start: 25 @17623 has 33 MA's), (27, 17635), (35, 17695), (52, 17854), (64, 17917), (71, 17980), (78, 18022), (88, 18079), (116, 18289), (118, 18295), (123, 18310), (138, 18400), (139, 18403), (141, 18415), (147, 18457), (152, 18511), (168, 18586), (171, 18607), (172, 18610), (173, 18628), (184, 18691), (193, 18757), (195, 18796), (198, 18823), (200, 18838), (205, 18868), (209, 18892), (212, 18904), (214, 18913), (224, 18979), (230, 19018), (239, 19084), (243, 19111), (246, 19138), (257, 19204), (265, 19249), (276, 19324), (284, 19369), (288, 19390), (292, 19411), (293, 19414), (297, 19432), (298, 19435), (304, 19462), (320, 19543), (327, 19585), (355, 19735), (359, 19750), (363, 19780), (368, 19831), (376, 19918), (378, 19927), (385, 19978), (397, 20041), (402, 20062), (410, 20098), (420, 20134), (421, 20140), (429, 20218), (433, 20245), (441, 20305), (450, 20374), (451, 20404), (455, 20431), (459, 20470), (462, 20512),

Gene: Fernando_27 Start: 15978, Stop: 19004, Start Num: 12

Candidate Starts for Fernando_27:

(4, 15924), (Start: 12 @15978 has 88 MA's), (20, 16092), (Start: 25 @16158 has 33 MA's), (26, 16161), (28, 16170), (36, 16206), (46, 16257), (57, 16329), (68, 16401), (86, 16521), (88, 16524), (98, 16593), (101, 16638), (115, 16731), (118, 16740), (124, 16758), (128, 16785), (139, 16848), (141, 16860),

(145, 16893), (148, 16911), (156, 16977), (157, 16980), (159, 16986), (162, 17001), (164, 17010), (166, 17022), (168, 17031), (178, 17109), (182, 17124), (195, 17241), (196, 17244), (199, 17271), (200, 17283), (209, 17337), (214, 17358), (224, 17424), (230, 17463), (243, 17556), (252, 17604), (257, 17649), (266, 17697), (270, 17739), (271, 17748), (278, 17778), (279, 17781), (281, 17793), (291, 17850), (292, 17856), (297, 17877), (298, 17880), (325, 18018), (327, 18030), (340, 18090), (349, 18147), (369, 18285), (371, 18306), (373, 18330), (377, 18375), (381, 18393), (387, 18441), (390, 18453), (397, 18495), (413, 18558), (425, 18615), (429, 18684), (435, 18720), (447, 18801), (458, 18936),

Gene: FiringLine_26 Start: 16547, Stop: 19084, Start Num: 56

Candidate Starts for FiringLine_26:

(Start: 56 @16547 has 91 MA's), (83, 16724), (84, 16727), (85, 16730), (91, 16760), (111, 16898), (114, 16919), (115, 16928), (122, 16949), (128, 16982), (138, 17042), (141, 17057), (148, 17108), (154, 17156), (156, 17174), (164, 17207), (166, 17219), (167, 17222), (168, 17228), (171, 17249), (172, 17252), (185, 17339), (195, 17438), (200, 17480), (201, 17489), (203, 17498), (212, 17546), (214, 17555), (224, 17621), (230, 17660), (257, 17846), (261, 17861), (266, 17894), (271, 17945), (276, 17966), (280, 17981), (281, 17990), (283, 18005), (297, 18074), (327, 18227), (333, 18248), (355, 18377), (363, 18422), (365, 18434), (367, 18470), (408, 18650), (410, 18659), (430, 18770), (434, 18800), (446, 18884),

Gene: First_0026 Start: 16642, Stop: 19185, Start Num: 56

Candidate Starts for First_0026:

(23, 16390), (Start: 56 @16642 has 91 MA's), (84, 16822), (85, 16825), (91, 16855), (109, 16990), (111, 16999), (114, 17020), (115, 17029), (122, 17050), (128, 17083), (134, 17116), (148, 17209), (154, 17257), (156, 17275), (161, 17287), (164, 17308), (168, 17329), (171, 17350), (172, 17353), (195, 17539), (200, 17581), (201, 17590), (203, 17599), (214, 17656), (224, 17722), (230, 17761), (241, 17848), (257, 17947), (276, 18067), (278, 18076), (280, 18082), (281, 18091), (284, 18112), (289, 18136), (293, 18157), (298, 18178), (300, 18187), (306, 18217), (308, 18229), (311, 18244), (320, 18286), (339, 18379), (340, 18388), (345, 18415), (355, 18478), (408, 18751), (410, 18760), (430, 18871), (434, 18901), (446, 18985),

Gene: Flare16_26 Start: 16673, Stop: 19180, Start Num: 56

Candidate Starts for Flare16_26:

(Start: 56 @16673 has 91 MA's), (73, 16784), (82, 16841), (109, 16997), (114, 17027), (128, 17090), (134, 17123), (136, 17129), (162, 17309), (164, 17318), (168, 17339), (171, 17360), (172, 17363), (173, 17381), (183, 17441), (195, 17549), (200, 17591), (209, 17645), (214, 17666), (223, 17729), (224, 17732), (226, 17750), (230, 17771), (257, 17957), (261, 17972), (264, 17999), (271, 18056), (275, 18071), (276, 18077), (278, 18086), (280, 18092), (284, 18122), (288, 18143), (298, 18188), (299, 18194), (306, 18227), (311, 18254), (325, 18326), (327, 18338), (340, 18398), (345, 18425), (355, 18488), (363, 18533), (367, 18581), (372, 18617), (374, 18650), (395, 18713), (401, 18737), (431, 18881), (446, 18980), (453, 19067), (464, 19166),

Gene: FlyCatcher_29 Start: 17560, Stop: 20943, Start Num: 3

Candidate Starts for FlyCatcher_29:

(Start: 3 @17560 has 4 MA's), (29, 17947), (41, 18004), (64, 18136), (66, 18148), (72, 18199), (96, 18346), (120, 18529), (122, 18535), (128, 18568), (130, 18580), (144, 18673), (148, 18694), (149, 18706), (174, 18862), (177, 18886), (189, 18949), (195, 19024), (200, 19066), (209, 19120), (214, 19141), (222, 19198), (223, 19204), (224, 19207), (236, 19291), (237, 19306), (241, 19333), (243, 19339), (257, 19432), (260, 19444), (261, 19447), (284, 19597), (287, 19612), (290, 19630), (296, 19654), (300, 19672), (301, 19675), (316, 19786), (325, 19849), (326, 19852), (334, 19909), (335, 19915), (342, 19963), (347, 19993), (358, 20071), (360, 20083), (361, 20092), (364, 20113), (371, 20191), (377, 20260), (381, 20278), (386, 20329), (392, 20365), (393, 20377), (400, 20410), (404, 20440), (407, 20461), (416, 20512), (423, 20545), (430, 20626), (435, 20659), (437, 20689), (445,

20731), (448, 20755), (453, 20821), (455, 20836), (456, 20842), (460, 20893),

Gene: ForesterFrank_27 Start: 18137, Stop: 20641, Start Num: 56

Candidate Starts for ForesterFrank_27:

(Start: 56 @18137 has 91 MA's), (73, 18248), (77, 18266), (82, 18305), (86, 18326), (91, 18350), (114, 18479), (115, 18488), (118, 18497), (141, 18617), (148, 18668), (157, 18737), (159, 18743), (162, 18758), (164, 18767), (166, 18779), (168, 18788), (195, 18998), (198, 19025), (200, 19040), (209, 19094), (214, 19115), (224, 19181), (230, 19220), (238, 19283), (257, 19406), (261, 19421), (264, 19448), (266, 19454), (271, 19505), (275, 19520), (276, 19526), (278, 19535), (281, 19550), (284, 19571), (288, 19592), (297, 19634), (301, 19649), (309, 19691), (320, 19745), (325, 19775), (327, 19787), (345, 19874), (355, 19937), (363, 19982), (365, 19994), (392, 20144), (404, 20201), (408, 20210), (410, 20219), (430, 20330), (434, 20360), (446, 20441),

Gene: Fred313_25 Start: 15240, Stop: 18278, Start Num: 11

Candidate Starts for Fred313_25:

(Start: 11 @15240 has 33 MA's), (24, 15414), (26, 15426), (30, 15459), (68, 15669), (88, 15792), (92, 15813), (115, 15999), (122, 16020), (128, 16053), (139, 16116), (141, 16128), (145, 16161), (148, 16179), (157, 16248), (159, 16254), (162, 16269), (164, 16278), (166, 16290), (168, 16299), (182, 16392), (195, 16509), (196, 16512), (199, 16539), (200, 16551), (209, 16605), (214, 16626), (216, 16647), (224, 16692), (230, 16731), (243, 16824), (252, 16872), (257, 16917), (261, 16932), (270, 17007), (271, 17016), (274, 17028), (278, 17046), (281, 17061), (291, 17118), (297, 17145), (298, 17148), (303, 17169), (327, 17298), (333, 17319), (340, 17358), (348, 17397), (350, 17418), (355, 17448), (356, 17451), (358, 17460), (362, 17484), (369, 17553), (371, 17574), (377, 17643), (381, 17661), (387, 17709), (390, 17721), (397, 17763), (399, 17775), (412, 17823), (435, 17994), (437, 18024), (443, 18054), (447, 18075), (458, 18210), (459, 18222), (461, 18258),

Gene: GaugeLDP_28 Start: 17905, Stop: 20424, Start Num: 56

Candidate Starts for GaugeLDP_28:

(Start: 56 @17905 has 91 MA's), (73, 18016), (84, 18085), (85, 18088), (97, 18142), (114, 18259), (115, 18268), (118, 18277), (128, 18322), (129, 18331), (148, 18448), (155, 18505), (157, 18517), (159, 18523), (162, 18538), (166, 18559), (168, 18568), (195, 18778), (199, 18808), (200, 18820), (209, 18874), (214, 18895), (224, 18961), (227, 18988), (230, 19000), (252, 19141), (257, 19186), (261, 19201), (264, 19228), (265, 19231), (271, 19285), (280, 19321), (281, 19330), (284, 19351), (289, 19375), (291, 19387), (297, 19414), (298, 19417), (306, 19456), (308, 19468), (311, 19483), (340, 19627), (345, 19654), (349, 19684), (350, 19687), (355, 19717), (363, 19762), (365, 19774), (367, 19810), (374, 19879), (404, 19978), (408, 19987), (410, 19996), (430, 20107), (439, 20194), (446, 20224), (461, 20401),

Gene: Gemma_27 Start: 16053, Stop: 19079, Start Num: 12

Candidate Starts for Gemma_27:

(4, 15999), (Start: 12 @16053 has 88 MA's), (20, 16167), (Start: 25 @16233 has 33 MA's), (26, 16236), (28, 16245), (36, 16281), (46, 16332), (57, 16404), (68, 16476), (86, 16596), (88, 16599), (98, 16668), (101, 16713), (115, 16806), (118, 16815), (128, 16860), (136, 16899), (139, 16923), (141, 16935), (145, 16968), (148, 16986), (150, 17007), (157, 17055), (159, 17061), (162, 17076), (164, 17085), (166, 17097), (168, 17106), (182, 17199), (194, 17286), (195, 17316), (196, 17319), (199, 17346), (200, 17358), (209, 17412), (214, 17433), (218, 17463), (224, 17499), (241, 17625), (252, 17679), (257, 17724), (266, 17772), (270, 17814), (271, 17823), (278, 17853), (291, 17925), (292, 17931), (297, 17952), (298, 17955), (301, 17967), (324, 18084), (325, 18093), (340, 18165), (341, 18168), (348, 18204), (355, 18255), (356, 18258), (358, 18267), (377, 18450), (387, 18516), (390, 18528), (397, 18570), (413, 18633), (425, 18690), (429, 18759), (435, 18795), (447, 18876), (458, 19011), (459, 19023),

Gene: Georgie2_27 Start: 16538, Stop: 19075, Start Num: 56

Candidate Starts for Georgie2_27:

(Start: 56 @16538 has 91 MA's), (83, 16715), (84, 16718), (85, 16721), (91, 16751), (111, 16889), (114, 16910), (115, 16919), (122, 16940), (128, 16973), (138, 17033), (141, 17048), (148, 17099), (154, 17147), (156, 17165), (164, 17198), (166, 17210), (167, 17213), (168, 17219), (171, 17240), (172, 17243), (185, 17330), (195, 17429), (200, 17471), (201, 17480), (203, 17489), (212, 17537), (214, 17546), (224, 17612), (230, 17651), (257, 17837), (261, 17852), (266, 17885), (271, 17936), (276, 17957), (280, 17972), (281, 17981), (283, 17996), (297, 18065), (327, 18218), (333, 18239), (355, 18368), (363, 18413), (365, 18425), (367, 18461), (408, 18641), (410, 18650), (430, 18761), (434, 18791), (446, 18875),

Gene: GingkoMaracino_27 Start: 15865, Stop: 18891, Start Num: 12

Candidate Starts for GingkoMaracino_27:

(4, 15811), (Start: 12 @15865 has 88 MA's), (20, 15979), (Start: 25 @16045 has 33 MA's), (26, 16048), (28, 16057), (36, 16093), (46, 16144), (57, 16216), (68, 16288), (86, 16408), (88, 16411), (98, 16480), (101, 16525), (115, 16618), (118, 16627), (124, 16645), (128, 16672), (139, 16735), (141, 16747), (145, 16780), (148, 16798), (156, 16864), (157, 16867), (159, 16873), (162, 16888), (164, 16897), (166, 16909), (168, 16918), (178, 16996), (182, 17011), (195, 17128), (196, 17131), (199, 17158), (200, 17170), (209, 17224), (214, 17245), (224, 17311), (230, 17350), (243, 17443), (252, 17491), (257, 17536), (266, 17584), (270, 17626), (271, 17635), (278, 17665), (279, 17668), (281, 17680), (291, 17737), (292, 17743), (297, 17764), (298, 17767), (325, 17905), (327, 17917), (340, 17977), (349, 18034), (369, 18172), (371, 18193), (373, 18217), (377, 18262), (381, 18280), (387, 18328), (390, 18340), (397, 18382), (413, 18445), (425, 18502), (429, 18571), (435, 18607), (447, 18688), (458, 18823),

Gene: Giroux_26 Start: 15495, Stop: 18530, Start Num: 11

Candidate Starts for Giroux_26:

(Start: 11 @15495 has 33 MA's), (24, 15669), (26, 15681), (30, 15714), (68, 15924), (86, 16044), (88, 16047), (115, 16251), (122, 16272), (127, 16302), (128, 16305), (139, 16368), (141, 16380), (145, 16413), (148, 16431), (157, 16500), (159, 16506), (162, 16521), (164, 16530), (166, 16542), (168, 16551), (182, 16644), (195, 16761), (196, 16764), (198, 16788), (199, 16791), (200, 16803), (209, 16857), (214, 16878), (216, 16899), (224, 16944), (227, 16971), (230, 16983), (252, 17124), (257, 17169), (261, 17184), (270, 17259), (271, 17268), (278, 17298), (281, 17313), (282, 17316), (284, 17334), (288, 17355), (289, 17358), (297, 17397), (298, 17400), (314, 17484), (327, 17550), (333, 17571), (340, 17610), (348, 17649), (350, 17670), (355, 17700), (356, 17703), (358, 17712), (362, 17736), (369, 17805), (371, 17826), (377, 17895), (381, 17913), (387, 17961), (390, 17973), (397, 18015), (399, 18027), (412, 18075), (435, 18246), (437, 18276), (443, 18306), (447, 18327), (458, 18462), (461, 18510),

Gene: Gratitude_27 Start: 17115, Stop: 19622, Start Num: 56

Candidate Starts for Gratitude_27:

(Start: 56 @17115 has 91 MA's), (73, 17226), (82, 17283), (114, 17469), (128, 17532), (134, 17565), (136, 17571), (162, 17751), (164, 17760), (168, 17781), (171, 17802), (172, 17805), (173, 17823), (183, 17883), (195, 17991), (200, 18033), (209, 18087), (214, 18108), (223, 18171), (224, 18174), (226, 18192), (230, 18213), (257, 18399), (261, 18414), (264, 18441), (271, 18498), (275, 18513), (276, 18519), (278, 18528), (280, 18534), (284, 18564), (288, 18585), (298, 18630), (299, 18636), (306, 18669), (311, 18696), (325, 18768), (327, 18780), (340, 18840), (345, 18867), (355, 18930), (363, 18975), (365, 18987), (367, 19023), (372, 19059), (374, 19092), (395, 19155), (401, 19179), (431, 19323), (446, 19422), (453, 19509), (464, 19608),

Gene: Grif_27 Start: 16062, Stop: 19088, Start Num: 12

Candidate Starts for Grif_27:

(4, 16008), (Start: 12 @16062 has 88 MA's), (20, 16176), (Start: 25 @16242 has 33 MA's), (26, 16245), (28, 16254), (36, 16290), (46, 16341), (57, 16413), (68, 16485), (86, 16605), (88, 16608), (98, 16677),

(101, 16722), (115, 16815), (118, 16824), (124, 16842), (128, 16869), (139, 16932), (141, 16944), (145, 16977), (148, 16995), (156, 17061), (157, 17064), (159, 17070), (162, 17085), (164, 17094), (166, 17106), (168, 17115), (182, 17208), (195, 17325), (196, 17328), (199, 17355), (200, 17367), (209, 17421), (214, 17442), (224, 17508), (230, 17547), (243, 17640), (252, 17688), (257, 17733), (266, 17781), (270, 17823), (271, 17832), (278, 17862), (279, 17865), (281, 17877), (291, 17934), (292, 17940), (297, 17961), (298, 17964), (325, 18102), (327, 18114), (340, 18174), (350, 18234), (355, 18264), (356, 18267), (358, 18276), (369, 18369), (373, 18414), (377, 18459), (381, 18477), (387, 18525), (390, 18537), (397, 18579), (413, 18642), (425, 18699), (429, 18768), (435, 18804), (447, 18885), (458, 19020),

Gene: Groupthink_28 Start: 16057, Stop: 19083, Start Num: 12

Candidate Starts for Groupthink_28:

(4, 16003), (Start: 12 @16057 has 88 MA's), (20, 16171), (Start: 25 @16237 has 33 MA's), (26, 16240), (28, 16249), (36, 16285), (46, 16336), (57, 16408), (68, 16480), (86, 16600), (88, 16603), (98, 16672), (101, 16717), (115, 16810), (118, 16819), (128, 16864), (136, 16903), (139, 16927), (141, 16939), (145, 16972), (148, 16990), (150, 17011), (157, 17059), (159, 17065), (162, 17080), (164, 17089), (166, 17101), (168, 17110), (182, 17203), (194, 17290), (195, 17320), (196, 17323), (199, 17350), (200, 17362), (209, 17416), (214, 17437), (218, 17467), (224, 17503), (241, 17629), (252, 17683), (257, 17728), (266, 17776), (270, 17818), (271, 17827), (278, 17857), (291, 17929), (292, 17935), (297, 17956), (298, 17959), (301, 17971), (324, 18088), (325, 18097), (340, 18169), (341, 18172), (348, 18208), (355, 18259), (356, 18262), (358, 18271), (377, 18454), (387, 18520), (390, 18532), (397, 18574), (413, 18637), (425, 18694), (429, 18763), (435, 18799), (447, 18880), (458, 19015), (459, 19027),

Gene: Grub_27 Start: 15971, Stop: 18997, Start Num: 12

Candidate Starts for Grub_27:

(4, 15917), (Start: 12 @15971 has 88 MA's), (20, 16085), (Start: 25 @16151 has 33 MA's), (26, 16154), (28, 16163), (36, 16199), (46, 16250), (57, 16322), (68, 16394), (86, 16514), (88, 16517), (98, 16586), (101, 16631), (115, 16724), (118, 16733), (124, 16751), (128, 16778), (139, 16841), (141, 16853), (145, 16886), (148, 16904), (156, 16970), (157, 16973), (159, 16979), (162, 16994), (164, 17003), (166, 17015), (168, 17024), (182, 17117), (195, 17234), (196, 17237), (199, 17264), (200, 17276), (209, 17330), (214, 17351), (224, 17417), (227, 17444), (243, 17549), (252, 17597), (257, 17642), (266, 17690), (270, 17732), (271, 17741), (278, 17771), (279, 17774), (281, 17786), (291, 17843), (292, 17849), (297, 17870), (298, 17873), (325, 18011), (327, 18023), (340, 18083), (350, 18143), (355, 18173), (356, 18176), (358, 18185), (369, 18278), (377, 18368), (387, 18434), (390, 18446), (397, 18488), (413, 18551), (425, 18608), (429, 18677), (435, 18713), (447, 18794), (458, 18929),

Gene: Grum1_27 Start: 15972, Stop: 18998, Start Num: 12

Candidate Starts for Grum1_27:

(4, 15918), (Start: 12 @15972 has 88 MA's), (20, 16086), (Start: 25 @16152 has 33 MA's), (26, 16155), (28, 16164), (36, 16200), (46, 16251), (57, 16323), (68, 16395), (86, 16515), (88, 16518), (98, 16587), (101, 16632), (115, 16725), (118, 16734), (124, 16752), (128, 16779), (139, 16842), (141, 16854), (145, 16887), (148, 16905), (156, 16971), (157, 16974), (159, 16980), (162, 16995), (164, 17004), (166, 17016), (168, 17025), (182, 17118), (195, 17235), (196, 17238), (199, 17265), (200, 17277), (209, 17331), (214, 17352), (224, 17418), (230, 17457), (243, 17550), (252, 17598), (257, 17643), (266, 17691), (270, 17733), (271, 17742), (278, 17772), (279, 17775), (281, 17787), (291, 17844), (292, 17850), (297, 17871), (298, 17874), (325, 18012), (327, 18024), (340, 18084), (349, 18141), (369, 18279), (371, 18300), (373, 18324), (377, 18369), (381, 18387), (387, 18435), (390, 18447), (397, 18489), (413, 18552), (425, 18609), (429, 18678), (435, 18714), (447, 18795), (458, 18930),

Gene: GtownJaz_27 Start: 15980, Stop: 19006, Start Num: 12

Candidate Starts for GtownJaz_27:

(4, 15926), (Start: 12 @15980 has 88 MA's), (20, 16094), (Start: 25 @16160 has 33 MA's), (26, 16163), (28, 16172), (36, 16208), (46, 16259), (57, 16331), (68, 16403), (86, 16523), (88, 16526), (98, 16595), (101, 16640), (115, 16733), (118, 16742), (124, 16760), (128, 16787), (139, 16850), (141, 16862), (145, 16895), (148, 16913), (156, 16979), (157, 16982), (159, 16988), (162, 17003), (164, 17012), (166, 17024), (168, 17033), (178, 17111), (182, 17126), (195, 17243), (196, 17246), (199, 17273), (200, 17285), (209, 17339), (214, 17360), (224, 17426), (230, 17465), (243, 17558), (252, 17606), (257, 17651), (266, 17699), (270, 17741), (271, 17750), (278, 17780), (279, 17783), (281, 17795), (291, 17852), (292, 17858), (297, 17879), (298, 17882), (325, 18020), (327, 18032), (340, 18092), (349, 18149), (369, 18287), (371, 18308), (373, 18332), (377, 18377), (381, 18395), (387, 18443), (390, 18455), (397, 18497), (413, 18560), (425, 18617), (429, 18686), (435, 18722), (447, 18803), (458, 18938),

Gene: Gwennie_26 Start: 15979, Stop: 19005, Start Num: 12

Candidate Starts for Gwennie_26:

(4, 15925), (Start: 12 @15979 has 88 MA's), (20, 16093), (Start: 25 @16159 has 33 MA's), (26, 16162), (28, 16171), (36, 16207), (46, 16258), (57, 16330), (68, 16402), (86, 16522), (88, 16525), (98, 16594), (101, 16639), (115, 16732), (118, 16741), (124, 16759), (128, 16786), (139, 16849), (141, 16861), (145, 16894), (148, 16912), (156, 16978), (157, 16981), (159, 16987), (162, 17002), (164, 17011), (166, 17023), (168, 17032), (178, 17110), (182, 17125), (195, 17242), (196, 17245), (199, 17272), (200, 17284), (209, 17338), (214, 17359), (224, 17425), (230, 17464), (243, 17557), (252, 17605), (257, 17650), (266, 17698), (270, 17740), (271, 17749), (278, 17779), (279, 17782), (281, 17794), (291, 17851), (292, 17857), (297, 17878), (298, 17881), (325, 18019), (327, 18031), (340, 18091), (349, 18148), (369, 18286), (371, 18307), (373, 18331), (377, 18376), (381, 18394), (387, 18442), (390, 18454), (397, 18496), (413, 18559), (425, 18616), (429, 18685), (435, 18721), (447, 18802), (458, 18937),

Gene: HINdeR_25 Start: 17367, Stop: 20738, Start Num: 3

Candidate Starts for HINdeR_25:

(Start: 3 @17367 has 4 MA's), (10, 17529), (22, 17679), (29, 17754), (53, 17904), (66, 17955), (72, 18006), (94, 18141), (122, 18342), (128, 18375), (138, 18435), (139, 18438), (141, 18450), (143, 18477), (150, 18522), (152, 18546), (157, 18570), (168, 18621), (172, 18645), (195, 18831), (198, 18858), (200, 18873), (206, 18912), (209, 18927), (214, 18948), (219, 18990), (222, 19005), (223, 19011), (224, 19014), (236, 19098), (237, 19113), (241, 19140), (242, 19143), (247, 19176), (254, 19212), (257, 19239), (258, 19242), (260, 19251), (284, 19404), (286, 19416), (287, 19419), (290, 19437), (292, 19446), (294, 19452), (296, 19461), (300, 19479), (302, 19488), (307, 19512), (310, 19530), (316, 19593), (322, 19626), (326, 19659), (327, 19668), (328, 19671), (329, 19680), (330, 19683), (332, 19701), (337, 19734), (342, 19770), (347, 19800), (353, 19845), (360, 19890), (361, 19899), (362, 19902), (363, 19911), (364, 19920), (377, 20067), (381, 20085), (389, 20142), (392, 20160), (393, 20172), (396, 20184), (398, 20193), (403, 20214), (404, 20235), (405, 20247), (411, 20280), (413, 20292), (414, 20298), (420, 20322), (423, 20340), (424, 20343), (430, 20421), (437, 20484), (441, 20505), (445, 20526), (448, 20550), (453, 20616), (455, 20631), (456, 20637),

Gene: Hanray_26 Start: 17594, Stop: 20503, Start Num: 25

Candidate Starts for Hanray_26:

(Start: 25 @17594 has 33 MA's), (27, 17606), (35, 17666), (52, 17825), (64, 17888), (71, 17951), (78, 17993), (88, 18050), (95, 18089), (116, 18260), (118, 18266), (123, 18281), (138, 18371), (139, 18374), (141, 18386), (147, 18428), (152, 18482), (168, 18557), (171, 18578), (172, 18581), (173, 18599), (184, 18662), (193, 18728), (195, 18767), (198, 18794), (200, 18809), (205, 18839), (209, 18863), (214, 18884), (224, 18950), (230, 18989), (239, 19055), (243, 19082), (246, 19109), (257, 19175), (265, 19220), (276, 19295), (284, 19340), (288, 19361), (292, 19382), (293, 19385), (297, 19403), (298, 19406), (304, 19433), (309, 19460), (320, 19514), (355, 19706), (359, 19721), (363, 19751), (368, 19802), (376, 19889), (378, 19898), (385, 19949), (397, 20012), (402, 20033), (410, 20069), (420, 20105), (421, 20111), (429, 20189), (433, 20216), (441, 20276), (450, 20345), (451,

20375), (455, 20402), (459, 20441), (462, 20483),

Gene: HarryHoudini_28 Start: 17132, Stop: 19639, Start Num: 56

Candidate Starts for HarryHoudini_28:

(Start: 56 @17132 has 91 MA's), (73, 17243), (82, 17300), (86, 17321), (91, 17345), (100, 17411), (114, 17486), (128, 17549), (134, 17582), (136, 17588), (162, 17768), (164, 17777), (168, 17798), (171, 17819), (172, 17822), (173, 17840), (182, 17891), (183, 17900), (195, 18008), (200, 18050), (201, 18059), (209, 18104), (214, 18125), (224, 18191), (226, 18209), (230, 18230), (231, 18239), (257, 18416), (261, 18431), (264, 18458), (271, 18515), (275, 18530), (276, 18536), (278, 18545), (280, 18551), (281, 18560), (284, 18581), (288, 18602), (298, 18647), (299, 18653), (306, 18686), (319, 18752), (325, 18785), (327, 18797), (340, 18857), (345, 18884), (355, 18947), (363, 18992), (367, 19040), (372, 19076), (395, 19172), (401, 19196), (431, 19340), (446, 19439), (464, 19625),

Gene: HashRod_28 Start: 16063, Stop: 19089, Start Num: 12

Candidate Starts for HashRod_28:

(4, 16009), (Start: 12 @16063 has 88 MA's), (20, 16177), (Start: 25 @16243 has 33 MA's), (26, 16246), (28, 16255), (36, 16291), (46, 16342), (57, 16414), (68, 16486), (86, 16606), (88, 16609), (98, 16678), (101, 16723), (115, 16816), (118, 16825), (124, 16843), (128, 16870), (139, 16933), (141, 16945), (145, 16978), (148, 16996), (156, 17062), (157, 17065), (159, 17071), (162, 17086), (164, 17095), (166, 17107), (168, 17116), (178, 17194), (182, 17209), (195, 17326), (196, 17329), (199, 17356), (200, 17368), (209, 17422), (214, 17443), (224, 17509), (230, 17548), (243, 17641), (252, 17689), (257, 17734), (266, 17782), (270, 17824), (271, 17833), (278, 17863), (279, 17866), (281, 17878), (291, 17935), (292, 17941), (297, 17962), (298, 17965), (325, 18103), (327, 18115), (340, 18175), (349, 18232), (369, 18370), (371, 18391), (373, 18415), (377, 18460), (381, 18478), (387, 18526), (390, 18538), (397, 18580), (413, 18643), (425, 18700), (429, 18769), (435, 18805), (447, 18886), (458, 19021),

Gene: HaveUMetTed_28 Start: 16050, Stop: 19076, Start Num: 12

Candidate Starts for HaveUMetTed_28:

(4, 15996), (Start: 12 @16050 has 88 MA's), (20, 16164), (Start: 25 @16230 has 33 MA's), (26, 16233), (28, 16242), (36, 16278), (46, 16329), (57, 16401), (68, 16473), (86, 16593), (88, 16596), (98, 16665), (101, 16710), (115, 16803), (118, 16812), (128, 16857), (136, 16896), (139, 16920), (141, 16932), (145, 16965), (148, 16983), (150, 17004), (157, 17052), (159, 17058), (162, 17073), (164, 17082), (166, 17094), (168, 17103), (182, 17196), (194, 17283), (195, 17313), (196, 17316), (199, 17343), (200, 17355), (209, 17409), (214, 17430), (218, 17460), (224, 17496), (241, 17622), (252, 17676), (257, 17721), (266, 17769), (270, 17811), (271, 17820), (278, 17850), (291, 17922), (292, 17928), (297, 17949), (298, 17952), (301, 17964), (324, 18081), (325, 18090), (340, 18162), (341, 18165), (348, 18201), (355, 18252), (356, 18255), (358, 18264), (377, 18447), (387, 18513), (390, 18525), (397, 18567), (413, 18630), (425, 18687), (429, 18756), (435, 18792), (447, 18873), (458, 19008), (459, 19020),

Gene: Heathen_25 Start: 15296, Stop: 18334, Start Num: 11

Candidate Starts for Heathen_25:

(Start: 11 @15296 has 33 MA's), (24, 15470), (26, 15482), (30, 15515), (68, 15725), (88, 15848), (92, 15869), (115, 16055), (122, 16076), (128, 16109), (139, 16172), (141, 16184), (145, 16217), (148, 16235), (157, 16304), (159, 16310), (162, 16325), (164, 16334), (166, 16346), (168, 16355), (182, 16448), (195, 16565), (196, 16568), (199, 16595), (200, 16607), (209, 16661), (214, 16682), (216, 16703), (224, 16748), (230, 16787), (243, 16880), (252, 16928), (257, 16973), (261, 16988), (270, 17063), (271, 17072), (274, 17084), (278, 17102), (281, 17117), (291, 17174), (297, 17201), (298, 17204), (303, 17225), (327, 17354), (333, 17375), (340, 17414), (348, 17453), (350, 17474), (355, 17504), (356, 17507), (358, 17516), (362, 17540), (369, 17609), (371, 17630), (377, 17699), (381, 17717), (387, 17765), (390, 17777), (397, 17819), (399, 17831), (412, 17879), (435, 18050), (437, 18080), (443, 18110), (447, 18131), (458, 18266), (459, 18278), (461, 18314),

Gene: Heffalump_28 Start: 18467, Stop: 21010, Start Num: 56

Candidate Starts for Heffalump_28:

(Start: 56 @18467 has 91 MA's), (83, 18644), (84, 18647), (85, 18650), (110, 18818), (111, 18824), (114, 18845), (115, 18854), (122, 18875), (128, 18908), (134, 18941), (148, 19034), (154, 19082), (156, 19100), (164, 19133), (166, 19145), (167, 19148), (168, 19154), (171, 19175), (172, 19178), (195, 19364), (200, 19406), (201, 19415), (203, 19424), (212, 19472), (214, 19481), (224, 19547), (230, 19586), (243, 19679), (245, 19697), (257, 19772), (271, 19871), (275, 19886), (276, 19892), (278, 19901), (281, 19916), (284, 19937), (288, 19958), (293, 19982), (298, 20003), (299, 20009), (306, 20042), (308, 20054), (310, 20063), (327, 20153), (340, 20213), (345, 20240), (355, 20303), (363, 20348), (376, 20486), (408, 20576), (410, 20585), (430, 20696), (434, 20726), (446, 20810),

Gene: HelDan_25 Start: 15548, Stop: 18586, Start Num: 11

Candidate Starts for HelDan_25:

(Start: 11 @15548 has 33 MA's), (24, 15722), (26, 15734), (30, 15767), (68, 15977), (88, 16100), (92, 16121), (115, 16307), (122, 16328), (128, 16361), (139, 16424), (141, 16436), (145, 16469), (148, 16487), (157, 16556), (159, 16562), (162, 16577), (164, 16586), (166, 16598), (168, 16607), (182, 16700), (195, 16817), (196, 16820), (199, 16847), (200, 16859), (209, 16913), (214, 16934), (216, 16955), (224, 17000), (230, 17039), (243, 17132), (252, 17180), (257, 17225), (261, 17240), (270, 17315), (271, 17324), (274, 17336), (278, 17354), (281, 17369), (291, 17426), (297, 17453), (298, 17456), (303, 17477), (327, 17606), (333, 17627), (340, 17666), (348, 17705), (350, 17726), (355, 17756), (356, 17759), (358, 17768), (362, 17792), (369, 17861), (371, 17882), (377, 17951), (381, 17969), (387, 18017), (390, 18029), (397, 18071), (399, 18083), (412, 18131), (435, 18302), (437, 18332), (443, 18362), (447, 18383), (458, 18518), (459, 18530), (461, 18566),

Gene: Heliosoles_27 Start: 16057, Stop: 19083, Start Num: 12

Candidate Starts for Heliosoles_27:

(4, 16003), (Start: 12 @16057 has 88 MA's), (20, 16171), (Start: 25 @16237 has 33 MA's), (26, 16240), (28, 16249), (36, 16285), (46, 16336), (57, 16408), (68, 16480), (86, 16600), (88, 16603), (98, 16672), (101, 16717), (115, 16810), (118, 16819), (128, 16864), (136, 16903), (139, 16927), (141, 16939), (145, 16972), (148, 16990), (150, 17011), (157, 17059), (159, 17065), (162, 17080), (164, 17089), (166, 17101), (168, 17110), (182, 17203), (194, 17290), (195, 17320), (196, 17323), (199, 17350), (200, 17362), (209, 17416), (214, 17437), (218, 17467), (224, 17503), (241, 17629), (252, 17683), (257, 17728), (266, 17776), (270, 17818), (271, 17827), (278, 17857), (291, 17929), (292, 17935), (297, 17956), (298, 17959), (301, 17971), (324, 18088), (325, 18097), (340, 18169), (341, 18172), (348, 18208), (355, 18259), (356, 18262), (358, 18271), (377, 18454), (387, 18520), (390, 18532), (397, 18574), (413, 18637), (425, 18694), (429, 18763), (435, 18799), (447, 18880), (458, 19015), (459, 19027),

Gene: Hercules11_27 Start: 15986, Stop: 19012, Start Num: 12

Candidate Starts for Hercules11_27:

(4, 15932), (Start: 12 @15986 has 88 MA's), (20, 16100), (Start: 25 @16166 has 33 MA's), (26, 16169), (28, 16178), (36, 16214), (46, 16265), (57, 16337), (68, 16409), (86, 16529), (88, 16532), (98, 16601), (101, 16646), (115, 16739), (118, 16748), (124, 16766), (128, 16793), (139, 16856), (141, 16868), (145, 16901), (148, 16919), (156, 16985), (157, 16988), (159, 16994), (162, 17009), (164, 17018), (166, 17030), (168, 17039), (178, 17117), (182, 17132), (195, 17249), (196, 17252), (199, 17279), (200, 17291), (209, 17345), (214, 17366), (224, 17432), (230, 17471), (243, 17564), (252, 17612), (257, 17657), (266, 17705), (270, 17747), (271, 17756), (278, 17786), (279, 17789), (281, 17801), (291, 17858), (292, 17864), (297, 17885), (298, 17888), (325, 18026), (327, 18038), (340, 18098), (349, 18155), (369, 18293), (371, 18314), (373, 18338), (377, 18383), (381, 18401), (387, 18449), (390, 18461), (397, 18503), (413, 18566), (425, 18623), (429, 18692), (435, 18728), (447, 18809), (458, 18944),

Gene: HippoHollow_27 Start: 18385, Stop: 20925, Start Num: 56

Candidate Starts for HippoHollow_27:

(Start: 56 @18385 has 91 MA's), (84, 18565), (85, 18568), (109, 18727), (111, 18736), (114, 18757), (115, 18766), (122, 18787), (128, 18820), (134, 18853), (154, 18994), (156, 19012), (164, 19045), (166, 19057), (167, 19060), (168, 19066), (171, 19087), (172, 19090), (185, 19177), (195, 19276), (200, 19318), (201, 19327), (203, 19336), (214, 19393), (224, 19459), (230, 19498), (275, 19798), (278, 19813), (280, 19819), (281, 19828), (284, 19849), (289, 19873), (293, 19894), (298, 19915), (299, 19921), (306, 19954), (308, 19966), (310, 19975), (320, 20023), (339, 20116), (340, 20125), (345, 20152), (352, 20194), (355, 20215), (390, 20410), (408, 20488), (410, 20497), (426, 20560), (430, 20608), (434, 20638), (439, 20695), (445, 20722), (446, 20725), (454, 20815),

Gene: Horex_26 Start: 17594, Stop: 20503, Start Num: 25

Candidate Starts for Horex_26:

(Start: 25 @17594 has 33 MA's), (27, 17606), (35, 17666), (52, 17825), (64, 17888), (71, 17951), (78, 17993), (88, 18050), (95, 18089), (116, 18260), (118, 18266), (123, 18281), (138, 18371), (139, 18374), (141, 18386), (147, 18428), (152, 18482), (168, 18557), (171, 18578), (172, 18581), (173, 18599), (184, 18662), (193, 18728), (195, 18767), (198, 18794), (200, 18809), (205, 18839), (209, 18863), (212, 18875), (214, 18884), (224, 18950), (230, 18989), (239, 19055), (243, 19082), (246, 19109), (257, 19175), (265, 19220), (276, 19295), (284, 19340), (288, 19361), (292, 19382), (293, 19385), (297, 19403), (298, 19406), (304, 19433), (309, 19460), (320, 19514), (355, 19706), (359, 19721), (363, 19751), (368, 19802), (376, 19889), (378, 19898), (385, 19949), (397, 20012), (402, 20033), (410, 20069), (420, 20105), (421, 20111), (429, 20189), (433, 20216), (441, 20276), (450, 20345), (451, 20375), (455, 20402), (459, 20441), (462, 20483),

Gene: Hookmount_26 Start: 16044, Stop: 19082, Start Num: 11

Candidate Starts for Hookmount_26:

(Start: 11 @16044 has 33 MA's), (24, 16218), (26, 16230), (30, 16263), (68, 16470), (70, 16491), (86, 16590), (88, 16593), (115, 16803), (122, 16824), (128, 16857), (139, 16920), (141, 16932), (145, 16965), (148, 16983), (150, 17004), (157, 17052), (159, 17058), (162, 17073), (164, 17082), (166, 17094), (168, 17103), (182, 17196), (195, 17313), (196, 17316), (199, 17343), (200, 17355), (209, 17409), (214, 17430), (224, 17496), (230, 17535), (252, 17676), (257, 17721), (270, 17811), (271, 17820), (278, 17850), (288, 17907), (291, 17922), (297, 17949), (298, 17952), (302, 17970), (324, 18081), (340, 18162), (349, 18219), (357, 18261), (369, 18357), (371, 18378), (373, 18402), (377, 18447), (381, 18465), (387, 18513), (390, 18525), (397, 18567), (399, 18579), (412, 18627), (435, 18798), (443, 18858), (445, 18870), (449, 18897), (450, 18918), (458, 19014), (461, 19062),

Gene: HortumSL17_27 Start: 17590, Stop: 20499, Start Num: 25

Candidate Starts for HortumSL17_27:

(Start: 25 @17590 has 33 MA's), (27, 17602), (35, 17662), (52, 17821), (64, 17884), (71, 17947), (78, 17989), (88, 18046), (116, 18256), (118, 18262), (123, 18277), (138, 18367), (139, 18370), (141, 18382), (147, 18424), (152, 18478), (168, 18553), (171, 18574), (172, 18577), (173, 18595), (184, 18658), (193, 18724), (195, 18763), (198, 18790), (200, 18805), (205, 18835), (209, 18859), (212, 18871), (214, 18880), (224, 18946), (230, 18985), (239, 19051), (243, 19078), (246, 19105), (257, 19171), (265, 19216), (276, 19291), (284, 19336), (288, 19357), (292, 19378), (293, 19381), (297, 19399), (298, 19402), (304, 19429), (320, 19510), (327, 19552), (355, 19702), (359, 19717), (363, 19747), (368, 19798), (376, 19885), (378, 19894), (385, 19945), (397, 20008), (402, 20029), (410, 20065), (420, 20101), (421, 20107), (429, 20185), (433, 20212), (441, 20272), (450, 20341), (451, 20371), (455, 20398), (459, 20437), (462, 20479),

Gene: Idleandcovert_25 Start: 15495, Stop: 18530, Start Num: 11

Candidate Starts for Idleandcovert_25:

(Start: 11 @15495 has 33 MA's), (24, 15669), (26, 15681), (30, 15714), (68, 15924), (86, 16044), (88, 16047), (115, 16251), (122, 16272), (127, 16302), (128, 16305), (139, 16368), (141, 16380), (145,

16413), (148, 16431), (157, 16500), (159, 16506), (162, 16521), (164, 16530), (166, 16542), (168, 16551), (182, 16644), (195, 16761), (196, 16764), (198, 16788), (199, 16791), (200, 16803), (209, 16857), (214, 16878), (216, 16899), (224, 16944), (227, 16971), (230, 16983), (252, 17124), (257, 17169), (261, 17184), (270, 17259), (271, 17268), (278, 17298), (281, 17313), (282, 17316), (284, 17334), (288, 17355), (289, 17358), (297, 17397), (298, 17400), (314, 17484), (327, 17550), (333, 17571), (340, 17610), (348, 17649), (350, 17670), (355, 17700), (356, 17703), (358, 17712), (362, 17736), (369, 17805), (371, 17826), (377, 17895), (381, 17913), (387, 17961), (390, 17973), (397, 18015), (399, 18027), (412, 18075), (435, 18246), (437, 18276), (443, 18306), (447, 18327), (458, 18462), (461, 18510),

Gene: Isca_25 Start: 15423, Stop: 18467, Start Num: 11

Candidate Starts for Isca_25:

(Start: 11 @15423 has 33 MA's), (24, 15597), (26, 15609), (68, 15852), (86, 15972), (88, 15975), (117, 16197), (128, 16242), (141, 16317), (145, 16350), (148, 16368), (149, 16380), (161, 16446), (166, 16479), (168, 16488), (173, 16530), (182, 16581), (195, 16698), (200, 16740), (209, 16794), (214, 16815), (222, 16872), (224, 16881), (241, 17007), (243, 17013), (246, 17040), (257, 17106), (261, 17121), (265, 17151), (266, 17154), (271, 17205), (274, 17217), (279, 17238), (281, 17250), (284, 17271), (291, 17307), (297, 17334), (305, 17367), (307, 17379), (314, 17421), (327, 17487), (340, 17547), (348, 17586), (355, 17637), (356, 17640), (358, 17649), (362, 17673), (369, 17742), (371, 17763), (377, 17832), (381, 17850), (387, 17898), (390, 17910), (397, 17952), (399, 17964), (412, 18012), (435, 18183), (443, 18243), (447, 18264), (458, 18399), (459, 18411), (461, 18447),

Gene: JF2_25 Start: 15174, Stop: 18218, Start Num: 11

Candidate Starts for JF2_25:

(Start: 11 @15174 has 33 MA's), (24, 15348), (26, 15360), (68, 15603), (86, 15723), (88, 15726), (117, 15948), (128, 15993), (141, 16068), (145, 16101), (148, 16119), (149, 16131), (161, 16197), (166, 16230), (168, 16239), (173, 16281), (182, 16332), (195, 16449), (200, 16491), (209, 16545), (214, 16566), (222, 16623), (224, 16632), (241, 16758), (243, 16764), (246, 16791), (257, 16857), (261, 16872), (265, 16902), (266, 16905), (271, 16956), (274, 16968), (279, 16989), (281, 17001), (284, 17022), (291, 17058), (297, 17085), (305, 17118), (307, 17130), (314, 17172), (327, 17238), (340, 17298), (348, 17337), (355, 17388), (356, 17391), (358, 17400), (362, 17424), (369, 17493), (371, 17514), (377, 17583), (381, 17601), (387, 17649), (390, 17661), (397, 17703), (399, 17715), (412, 17763), (435, 17934), (443, 17994), (447, 18015), (458, 18150), (459, 18162), (461, 18198),

Gene: JF4_25 Start: 15174, Stop: 18218, Start Num: 11

Candidate Starts for JF4_25:

(Start: 11 @15174 has 33 MA's), (24, 15348), (26, 15360), (68, 15603), (86, 15723), (88, 15726), (117, 15948), (128, 15993), (141, 16068), (145, 16101), (148, 16119), (149, 16131), (161, 16197), (166, 16230), (168, 16239), (173, 16281), (182, 16332), (195, 16449), (200, 16491), (209, 16545), (214, 16566), (222, 16623), (224, 16632), (241, 16758), (243, 16764), (246, 16791), (257, 16857), (261, 16872), (265, 16902), (266, 16905), (271, 16956), (274, 16968), (279, 16989), (281, 17001), (284, 17022), (291, 17058), (297, 17085), (305, 17118), (307, 17130), (314, 17172), (327, 17238), (340, 17298), (348, 17337), (355, 17388), (356, 17391), (358, 17400), (362, 17424), (369, 17493), (371, 17514), (377, 17583), (381, 17601), (387, 17649), (390, 17661), (397, 17703), (399, 17715), (412, 17763), (435, 17934), (443, 17994), (447, 18015), (458, 18150), (459, 18162), (461, 18198),

Gene: JHC117_27 Start: 15977, Stop: 19003, Start Num: 12

Candidate Starts for JHC117_27:

(4, 15923), (Start: 12 @15977 has 88 MA's), (20, 16091), (Start: 25 @16157 has 33 MA's), (26, 16160), (28, 16169), (36, 16205), (46, 16256), (57, 16328), (68, 16400), (86, 16520), (88, 16523), (98, 16592), (101, 16637), (115, 16730), (118, 16739), (124, 16757), (128, 16784), (139, 16847), (141, 16859), (145, 16892), (148, 16910), (156, 16976), (157, 16979), (159, 16985), (162, 17000), (164, 17009), (166, 17021), (168, 17030), (178, 17108), (182, 17123), (195, 17240), (196, 17243), (199, 17270),

(200, 17282), (209, 17336), (214, 17357), (224, 17423), (230, 17462), (243, 17555), (252, 17603), (257, 17648), (266, 17696), (270, 17738), (271, 17747), (278, 17777), (279, 17780), (281, 17792), (291, 17849), (292, 17855), (297, 17876), (298, 17879), (325, 18017), (327, 18029), (340, 18089), (349, 18146), (369, 18284), (371, 18305), (373, 18329), (377, 18374), (381, 18392), (387, 18440), (390, 18452), (397, 18494), (413, 18557), (425, 18614), (429, 18683), (435, 18719), (447, 18800), (458, 18935),

Gene: JenCasNa_27 Start: 15978, Stop: 19004, Start Num: 12

Candidate Starts for JenCasNa_27:

(4, 15924), (Start: 12 @15978 has 88 MA's), (20, 16092), (Start: 25 @16158 has 33 MA's), (26, 16161), (28, 16170), (36, 16206), (46, 16257), (57, 16329), (68, 16401), (86, 16521), (88, 16524), (98, 16593), (101, 16638), (115, 16731), (118, 16740), (124, 16758), (128, 16785), (139, 16848), (141, 16860), (145, 16893), (148, 16911), (156, 16977), (157, 16980), (159, 16986), (162, 17001), (164, 17010), (166, 17022), (168, 17031), (178, 17109), (182, 17124), (195, 17241), (196, 17244), (199, 17271), (200, 17283), (209, 17337), (214, 17358), (224, 17424), (230, 17463), (243, 17556), (252, 17604), (257, 17649), (266, 17697), (270, 17739), (271, 17748), (278, 17778), (279, 17781), (281, 17793), (291, 17850), (292, 17856), (297, 17877), (298, 17880), (325, 18018), (327, 18030), (340, 18090), (349, 18147), (369, 18285), (371, 18306), (373, 18330), (377, 18375), (381, 18393), (387, 18441), (390, 18453), (397, 18495), (413, 18558), (425, 18615), (429, 18684), (435, 18720), (447, 18801), (458, 18936),

Gene: JeppNRM_28 Start: 16055, Stop: 19081, Start Num: 12

Candidate Starts for JeppNRM_28:

(4, 16001), (Start: 12 @16055 has 88 MA's), (20, 16169), (Start: 25 @16235 has 33 MA's), (26, 16238), (28, 16247), (36, 16283), (46, 16334), (57, 16406), (68, 16478), (86, 16598), (88, 16601), (101, 16715), (115, 16808), (118, 16817), (128, 16862), (136, 16901), (139, 16925), (141, 16937), (145, 16970), (148, 16988), (150, 17009), (157, 17057), (159, 17063), (162, 17078), (164, 17087), (166, 17099), (168, 17108), (182, 17201), (194, 17288), (195, 17318), (196, 17321), (199, 17348), (200, 17360), (209, 17414), (214, 17435), (218, 17465), (224, 17501), (241, 17627), (252, 17681), (257, 17726), (266, 17774), (270, 17816), (271, 17825), (278, 17855), (291, 17927), (292, 17933), (297, 17954), (298, 17957), (301, 17969), (324, 18086), (325, 18095), (340, 18167), (341, 18170), (348, 18206), (350, 18227), (355, 18257), (356, 18260), (358, 18269), (377, 18452), (387, 18518), (390, 18530), (397, 18572), (413, 18635), (425, 18692), (429, 18761), (435, 18797), (447, 18878), (458, 19013), (459, 19025),

Gene: Jerm_28 Start: 17056, Stop: 19599, Start Num: 56

Candidate Starts for Jerm_28:

(Start: 56 @17056 has 91 MA's), (84, 17236), (85, 17239), (91, 17269), (110, 17407), (111, 17413), (114, 17434), (115, 17443), (118, 17452), (122, 17464), (130, 17509), (134, 17530), (138, 17557), (141, 17572), (148, 17623), (152, 17668), (154, 17671), (156, 17689), (164, 17722), (166, 17734), (168, 17743), (171, 17764), (172, 17767), (195, 17953), (200, 17995), (201, 18004), (203, 18013), (214, 18070), (224, 18136), (230, 18175), (243, 18268), (249, 18304), (257, 18361), (268, 18427), (271, 18460), (275, 18475), (276, 18481), (278, 18490), (281, 18505), (284, 18526), (288, 18547), (292, 18568), (293, 18571), (297, 18589), (298, 18592), (308, 18643), (310, 18652), (320, 18700), (323, 18718), (327, 18742), (340, 18802), (345, 18829), (355, 18892), (363, 18937), (376, 19075), (408, 19165), (410, 19174), (420, 19198), (430, 19285), (434, 19315), (446, 19399),

Gene: Jiawan_26 Start: 17626, Stop: 20535, Start Num: 25

Candidate Starts for Jiawan_26:

(Start: 25 @17626 has 33 MA's), (27, 17638), (35, 17698), (52, 17857), (64, 17920), (71, 17983), (78, 18025), (88, 18082), (95, 18121), (116, 18292), (118, 18298), (123, 18313), (138, 18403), (139, 18406), (141, 18418), (147, 18460), (152, 18514), (168, 18589), (171, 18610), (172, 18613), (173, 18631), (184, 18694), (193, 18760), (195, 18799), (198, 18826), (200, 18841), (205, 18871), (209,

18895), (212, 18907), (214, 18916), (224, 18982), (230, 19021), (239, 19087), (243, 19114), (246, 19141), (257, 19207), (265, 19252), (276, 19327), (284, 19372), (288, 19393), (292, 19414), (293, 19417), (297, 19435), (298, 19438), (304, 19465), (320, 19546), (355, 19738), (359, 19753), (363, 19783), (368, 19834), (376, 19921), (378, 19930), (385, 19981), (397, 20044), (402, 20065), (410, 20101), (420, 20137), (421, 20143), (429, 20221), (433, 20248), (441, 20308), (450, 20377), (451, 20407), (455, 20434), (459, 20473), (462, 20515),

Gene: Jobu08_27 Start: 16051, Stop: 19077, Start Num: 12

Candidate Starts for Jobu08_27:

(4, 15997), (Start: 12 @16051 has 88 MA's), (20, 16165), (Start: 25 @16231 has 33 MA's), (26, 16234), (28, 16243), (36, 16279), (46, 16330), (57, 16402), (68, 16474), (86, 16594), (88, 16597), (98, 16666), (101, 16711), (115, 16804), (118, 16813), (128, 16858), (139, 16921), (141, 16933), (145, 16966), (148, 16984), (156, 17050), (157, 17053), (159, 17059), (162, 17074), (164, 17083), (166, 17095), (168, 17104), (182, 17197), (194, 17284), (195, 17314), (196, 17317), (199, 17344), (200, 17356), (209, 17410), (214, 17431), (218, 17461), (224, 17497), (252, 17677), (257, 17722), (266, 17770), (270, 17812), (271, 17821), (278, 17851), (291, 17923), (297, 17950), (298, 17953), (301, 17965), (324, 18082), (325, 18091), (327, 18103), (340, 18163), (350, 18223), (355, 18253), (356, 18256), (358, 18265), (369, 18358), (377, 18448), (387, 18514), (390, 18526), (397, 18568), (413, 18631), (425, 18688), (429, 18757), (435, 18793), (447, 18874), (458, 19009),

Gene: JoshKayV_28 Start: 17026, Stop: 19569, Start Num: 56

Candidate Starts for JoshKayV_28:

(Start: 56 @17026 has 91 MA's), (83, 17203), (84, 17206), (85, 17209), (91, 17239), (111, 17383), (114, 17404), (115, 17413), (122, 17434), (128, 17467), (134, 17500), (148, 17593), (152, 17638), (154, 17641), (156, 17659), (164, 17692), (166, 17704), (168, 17713), (171, 17734), (172, 17737), (195, 17923), (200, 17965), (201, 17974), (203, 17983), (214, 18040), (224, 18106), (230, 18145), (253, 18298), (276, 18451), (278, 18460), (280, 18466), (281, 18475), (284, 18496), (289, 18520), (293, 18541), (298, 18562), (306, 18601), (308, 18613), (327, 18712), (340, 18772), (345, 18799), (355, 18862), (363, 18907), (367, 18955), (376, 19045), (390, 19057), (404, 19126), (408, 19135), (410, 19144), (430, 19255), (434, 19285), (446, 19369),

Gene: Journey13_24 Start: 15775, Stop: 18291, Start Num: 56

Candidate Starts for Journey13_24:

(Start: 56 @15775 has 91 MA's), (73, 15886), (83, 15952), (84, 15955), (106, 16072), (118, 16156), (121, 16165), (128, 16201), (141, 16276), (148, 16327), (155, 16384), (157, 16396), (159, 16402), (161, 16405), (162, 16417), (166, 16438), (168, 16447), (184, 16552), (186, 16561), (190, 16585), (192, 16615), (195, 16657), (209, 16753), (214, 16774), (220, 16819), (224, 16840), (245, 16990), (255, 17047), (257, 17065), (261, 17080), (264, 17107), (266, 17113), (271, 17164), (276, 17185), (280, 17200), (281, 17209), (284, 17230), (292, 17272), (298, 17296), (306, 17335), (310, 17356), (311, 17362), (325, 17434), (340, 17506), (341, 17509), (345, 17533), (349, 17563), (355, 17596), (365, 17653), (367, 17689), (373, 17737), (390, 17791), (397, 17830), (399, 17842), (404, 17857), (408, 17866), (410, 17875), (427, 17956), (430, 17986), (434, 18016), (446, 18094),

Gene: Jsquared_25 Start: 15543, Stop: 18056, Start Num: 56

Candidate Starts for Jsquared_25:

(Start: 56 @15543 has 91 MA's), (73, 15654), (83, 15720), (84, 15723), (85, 15726), (114, 15912), (115, 15921), (118, 15930), (141, 16050), (148, 16101), (155, 16158), (158, 16170), (160, 16176), (162, 16191), (166, 16212), (168, 16221), (174, 16269), (195, 16431), (199, 16461), (200, 16473), (206, 16512), (209, 16527), (214, 16548), (222, 16605), (224, 16614), (227, 16641), (241, 16740), (257, 16839), (261, 16854), (266, 16887), (269, 16917), (271, 16938), (276, 16959), (284, 17004), (297, 17067), (298, 17070), (306, 17109), (308, 17121), (311, 17136), (327, 17220), (340, 17280), (345, 17307), (355, 17370), (359, 17385), (363, 17415), (373, 17511), (392, 17577), (408, 17640), (441, 17835), (442, 17838), (446, 17859),

Gene: KADY_28 Start: 16063, Stop: 19089, Start Num: 12

Candidate Starts for KADY_28:

(4, 16009), (Start: 12 @16063 has 88 MA's), (20, 16177), (Start: 25 @16243 has 33 MA's), (26, 16246), (28, 16255), (36, 16291), (46, 16342), (57, 16414), (68, 16486), (86, 16606), (88, 16609), (98, 16678), (101, 16723), (115, 16816), (118, 16825), (124, 16843), (128, 16870), (139, 16933), (141, 16945), (145, 16978), (148, 16996), (156, 17062), (157, 17065), (159, 17071), (162, 17086), (164, 17095), (166, 17107), (168, 17116), (178, 17194), (182, 17209), (195, 17326), (196, 17329), (199, 17356), (200, 17368), (209, 17422), (214, 17443), (224, 17509), (230, 17548), (243, 17641), (252, 17689), (257, 17734), (266, 17782), (270, 17824), (271, 17833), (278, 17863), (279, 17866), (281, 17878), (291, 17935), (292, 17941), (297, 17962), (298, 17965), (325, 18103), (327, 18115), (340, 18175), (349, 18232), (369, 18370), (371, 18391), (373, 18415), (377, 18460), (381, 18478), (387, 18526), (390, 18538), (397, 18580), (413, 18643), (425, 18700), (429, 18769), (435, 18805), (447, 18886), (458, 19021),

Gene: Kachowdy_25 Start: 15548, Stop: 18586, Start Num: 11

Candidate Starts for Kachowdy_25:

(Start: 11 @15548 has 33 MA's), (24, 15722), (26, 15734), (30, 15767), (68, 15977), (88, 16100), (92, 16121), (115, 16307), (122, 16328), (128, 16361), (139, 16424), (141, 16436), (145, 16469), (148, 16487), (157, 16556), (159, 16562), (162, 16577), (164, 16586), (166, 16598), (168, 16607), (182, 16700), (195, 16817), (196, 16820), (199, 16847), (200, 16859), (209, 16913), (214, 16934), (216, 16955), (224, 17000), (230, 17039), (243, 17132), (252, 17180), (257, 17225), (261, 17240), (270, 17315), (271, 17324), (274, 17336), (278, 17354), (281, 17369), (291, 17426), (297, 17453), (298, 17456), (303, 17477), (327, 17606), (333, 17627), (340, 17666), (348, 17705), (350, 17726), (355, 17756), (356, 17759), (358, 17768), (362, 17792), (369, 17861), (371, 17882), (377, 17951), (381, 17969), (387, 18017), (390, 18029), (397, 18071), (399, 18083), (412, 18131), (435, 18302), (437, 18332), (443, 18362), (447, 18383), (458, 18518), (459, 18530), (461, 18566),

Gene: Kalb97_28 Start: 16056, Stop: 19082, Start Num: 12

Candidate Starts for Kalb97_28:

(4, 16002), (Start: 12 @16056 has 88 MA's), (20, 16170), (Start: 25 @16236 has 33 MA's), (26, 16239), (28, 16248), (36, 16284), (46, 16335), (57, 16407), (68, 16479), (86, 16599), (88, 16602), (98, 16671), (101, 16716), (115, 16809), (118, 16818), (128, 16863), (136, 16902), (139, 16926), (141, 16938), (145, 16971), (148, 16989), (150, 17010), (157, 17058), (159, 17064), (162, 17079), (164, 17088), (166, 17100), (168, 17109), (182, 17202), (194, 17289), (195, 17319), (196, 17322), (199, 17349), (200, 17361), (209, 17415), (214, 17436), (218, 17466), (224, 17502), (241, 17628), (252, 17682), (257, 17727), (266, 17775), (270, 17817), (271, 17826), (278, 17856), (291, 17928), (292, 17934), (297, 17955), (298, 17958), (301, 17970), (324, 18087), (325, 18096), (340, 18168), (341, 18171), (348, 18207), (355, 18258), (356, 18261), (358, 18270), (377, 18453), (387, 18519), (390, 18531), (397, 18573), (413, 18636), (425, 18693), (429, 18762), (435, 18798), (447, 18879), (458, 19014), (459, 19026),

Gene: Kalnoky_28 Start: 16057, Stop: 19083, Start Num: 12

Candidate Starts for Kalnoky_28:

(4, 16003), (Start: 12 @16057 has 88 MA's), (20, 16171), (Start: 25 @16237 has 33 MA's), (26, 16240), (28, 16249), (36, 16285), (46, 16336), (57, 16408), (68, 16480), (86, 16600), (88, 16603), (98, 16672), (101, 16717), (115, 16810), (118, 16819), (128, 16864), (136, 16903), (139, 16927), (141, 16939), (145, 16972), (148, 16990), (150, 17011), (157, 17059), (159, 17065), (162, 17080), (164, 17089), (166, 17101), (168, 17110), (182, 17203), (194, 17290), (195, 17320), (196, 17323), (199, 17350), (200, 17362), (209, 17416), (214, 17437), (218, 17467), (224, 17503), (241, 17629), (252, 17683), (257, 17728), (266, 17776), (270, 17818), (271, 17827), (278, 17857), (291, 17929), (292, 17935), (297, 17956), (298, 17959), (301, 17971), (324, 18088), (325, 18097), (340, 18169), (341, 18172), (348, 18208), (355, 18259), (356, 18262), (358, 18271), (377, 18454), (387, 18520), (390, 18532),

(397, 18574), (413, 18637), (425, 18694), (429, 18763), (435, 18799), (447, 18880), (458, 19015), (459, 19027),

Gene: Kalpine_29 Start: 18405, Stop: 20942, Start Num: 56

Candidate Starts for Kalpine_29:

(Start: 56 @18405 has 91 MA's), (73, 18516), (84, 18585), (110, 18750), (111, 18756), (114, 18777), (115, 18786), (126, 18831), (128, 18840), (134, 18873), (138, 18900), (141, 18915), (147, 18957), (148, 18966), (154, 19014), (156, 19032), (162, 19056), (164, 19065), (168, 19086), (171, 19107), (172, 19110), (195, 19296), (200, 19338), (203, 19356), (212, 19404), (214, 19413), (224, 19479), (230, 19518), (250, 19650), (257, 19704), (266, 19752), (276, 19824), (280, 19839), (284, 19869), (293, 19914), (298, 19935), (306, 19974), (311, 20001), (320, 20043), (327, 20085), (340, 20145), (345, 20172), (355, 20235), (363, 20280), (365, 20292), (404, 20499), (408, 20508), (410, 20517), (430, 20628), (434, 20658), (445, 20739), (446, 20742),

Gene: Kerberos_29 Start: 16508, Stop: 19021, Start Num: 56

Candidate Starts for Kerberos_29:

(Start: 56 @16508 has 91 MA's), (84, 16688), (85, 16691), (128, 16937), (138, 16997), (141, 17012), (144, 17042), (145, 17045), (156, 17129), (162, 17153), (167, 17177), (171, 17204), (172, 17207), (188, 17312), (195, 17393), (198, 17420), (200, 17435), (209, 17489), (214, 17510), (224, 17576), (226, 17594), (227, 17603), (241, 17702), (246, 17735), (249, 17744), (257, 17801), (261, 17816), (276, 17921), (281, 17945), (298, 18032), (301, 18044), (302, 18050), (308, 18083), (333, 18203), (355, 18332), (359, 18347), (363, 18377), (365, 18389), (367, 18425), (392, 18539), (393, 18551), (404, 18593), (442, 18800), (445, 18818), (446, 18821), (464, 19007),

Gene: Keziacharles14_25 Start: 15713, Stop: 18619, Start Num: 25

Candidate Starts for Keziacharles14_25:

(Start: 25 @15713 has 33 MA's), (27, 15725), (42, 15860), (64, 16007), (69, 16049), (71, 16070), (78, 16112), (86, 16166), (88, 16169), (116, 16379), (118, 16385), (131, 16451), (139, 16493), (141, 16505), (146, 16544), (152, 16601), (168, 16676), (171, 16697), (172, 16700), (173, 16718), (193, 16847), (195, 16886), (197, 16898), (198, 16913), (200, 16928), (205, 16958), (209, 16982), (214, 17003), (224, 17069), (230, 17108), (238, 17171), (243, 17201), (246, 17228), (252, 17249), (258, 17297), (266, 17342), (274, 17405), (277, 17417), (280, 17429), (284, 17459), (291, 17495), (292, 17501), (297, 17522), (298, 17525), (301, 17537), (312, 17594), (315, 17612), (318, 17627), (319, 17630), (327, 17675), (355, 17825), (363, 17870), (374, 17987), (377, 18011), (383, 18050), (397, 18131), (402, 18152), (421, 18227), (429, 18305), (433, 18332), (435, 18341), (451, 18491), (459, 18557),

Gene: Kimona_22 Start: 13439, Stop: 16474, Start Num: 13

Candidate Starts for Kimona_22:

(Start: 13 @13439 has 1 MA's), (24, 13607), (26, 13619), (36, 13670), (68, 13862), (88, 13985), (98, 14054), (102, 14105), (122, 14216), (128, 14249), (138, 14309), (141, 14324), (145, 14357), (161, 14453), (164, 14474), (165, 14480), (168, 14495), (173, 14537), (182, 14588), (184, 14600), (189, 14630), (195, 14705), (198, 14732), (200, 14747), (209, 14801), (214, 14822), (222, 14879), (224, 14888), (227, 14915), (228, 14918), (232, 14939), (236, 14972), (243, 15020), (256, 15104), (261, 15128), (263, 15146), (266, 15161), (271, 15212), (274, 15224), (275, 15227), (278, 15242), (279, 15245), (281, 15257), (284, 15278), (285, 15281), (291, 15314), (292, 15320), (297, 15341), (298, 15344), (303, 15365), (314, 15428), (327, 15494), (349, 15611), (362, 15680), (369, 15749), (373, 15794), (374, 15815), (377, 15839), (381, 15857), (387, 15905), (390, 15917), (397, 15959), (399, 15971), (412, 16019), (435, 16190), (445, 16262), (447, 16271), (452, 16343), (460, 16424), (461, 16454),

Gene: KingCyrus_28 Start: 17023, Stop: 19566, Start Num: 56

Candidate Starts for KingCyrus_28:

(Start: 56 @17023 has 91 MA's), (83, 17200), (84, 17203), (85, 17206), (109, 17371), (111, 17380), (114, 17401), (115, 17410), (122, 17431), (128, 17464), (134, 17497), (141, 17539), (148, 17590), (152, 17635), (154, 17638), (156, 17656), (164, 17689), (166, 17701), (168, 17710), (171, 17731), (172, 17734), (195, 17920), (200, 17962), (201, 17971), (203, 17980), (214, 18037), (224, 18103), (230, 18142), (243, 18235), (249, 18271), (257, 18328), (268, 18394), (271, 18427), (275, 18442), (276, 18448), (278, 18457), (281, 18472), (284, 18493), (288, 18514), (292, 18535), (293, 18538), (297, 18556), (298, 18559), (306, 18598), (308, 18610), (320, 18667), (323, 18685), (327, 18709), (340, 18769), (345, 18796), (355, 18859), (376, 19042), (404, 19123), (408, 19132), (410, 19141), (430, 19252), (434, 19282), (446, 19366),

Gene: Klodlith_26 Start: 15553, Stop: 18648, Start Num: 8

Candidate Starts for Klodlith_26:

(Start: 8 @15553 has 1 MA's), (19, 15655), (Start: 25 @15742 has 33 MA's), (27, 15754), (42, 15886), (46, 15907), (49, 15928), (52, 15970), (58, 15982), (64, 16033), (71, 16096), (78, 16138), (88, 16195), (95, 16234), (116, 16405), (118, 16411), (138, 16516), (141, 16531), (146, 16570), (147, 16573), (156, 16648), (157, 16651), (168, 16702), (171, 16723), (172, 16726), (173, 16744), (195, 16912), (198, 16939), (200, 16954), (209, 17008), (214, 17029), (223, 17092), (224, 17095), (230, 17134), (243, 17227), (246, 17254), (266, 17368), (267, 17377), (272, 17422), (278, 17449), (284, 17485), (288, 17506), (291, 17521), (297, 17548), (298, 17551), (303, 17572), (309, 17605), (321, 17665), (327, 17701), (355, 17851), (363, 17896), (368, 17947), (374, 18013), (377, 18037), (381, 18055), (383, 18076), (385, 18094), (391, 18124), (397, 18157), (402, 18178), (408, 18208), (421, 18259), (429, 18337), (435, 18373), (441, 18424), (446, 18448), (451, 18523), (459, 18589), (462, 18631),

Gene: Koduck_27 Start: 15783, Stop: 18296, Start Num: 56

Candidate Starts for Koduck_27:

(Start: 56 @15783 has 91 MA's), (83, 15960), (84, 15963), (85, 15966), (114, 16152), (115, 16161), (118, 16170), (141, 16290), (148, 16341), (158, 16410), (160, 16416), (162, 16431), (166, 16452), (168, 16461), (195, 16671), (200, 16713), (209, 16767), (214, 16788), (222, 16845), (224, 16854), (226, 16872), (227, 16881), (241, 16980), (252, 17034), (257, 17079), (261, 17094), (266, 17127), (274, 17190), (281, 17223), (284, 17244), (298, 17310), (299, 17316), (308, 17361), (310, 17370), (325, 17448), (340, 17520), (345, 17547), (355, 17610), (363, 17655), (365, 17667), (367, 17703), (373, 17751), (392, 17817), (408, 17880), (436, 18057), (441, 18075), (442, 18078), (446, 18099),

Gene: Koko_29 Start: 16749, Stop: 19274, Start Num: 56

Candidate Starts for Koko_29:

(Start: 56 @16749 has 91 MA's), (61, 16767), (73, 16860), (82, 16917), (99, 17025), (138, 17241), (147, 17298), (148, 17307), (164, 17406), (168, 17427), (172, 17451), (183, 17529), (184, 17532), (198, 17664), (200, 17679), (223, 17817), (224, 17820), (226, 17838), (227, 17847), (235, 17895), (261, 18060), (264, 18087), (276, 18165), (284, 18210), (297, 18273), (299, 18282), (305, 18306), (308, 18327), (344, 18510), (345, 18513), (355, 18576), (365, 18633), (367, 18669), (404, 18840), (430, 18969), (434, 18999),

Gene: L5_26 Start: 15794, Stop: 18307, Start Num: 56

Candidate Starts for L5_26:

(Start: 56 @15794 has 91 MA's), (83, 15971), (84, 15974), (85, 15977), (128, 16226), (141, 16301), (152, 16397), (157, 16418), (164, 16451), (167, 16466), (168, 16472), (171, 16493), (183, 16574), (195, 16682), (198, 16709), (200, 16724), (209, 16778), (214, 16799), (224, 16865), (241, 16991), (252, 17045), (257, 17090), (261, 17105), (266, 17138), (274, 17201), (281, 17234), (284, 17255), (298, 17321), (299, 17327), (308, 17372), (310, 17381), (325, 17459), (340, 17531), (345, 17558), (355, 17621), (363, 17666), (365, 17678), (367, 17714), (373, 17762), (392, 17828), (408, 17891), (436, 18068), (441, 18086), (442, 18089), (446, 18110),

Gene: LBerry_27 Start: 15979, Stop: 19005, Start Num: 12

Candidate Starts for LBerry_27:

(4, 15925), (Start: 12 @15979 has 88 MA's), (20, 16093), (Start: 25 @16159 has 33 MA's), (26, 16162), (28, 16171), (36, 16207), (46, 16258), (57, 16330), (68, 16402), (86, 16522), (88, 16525), (98, 16594), (101, 16639), (115, 16732), (118, 16741), (124, 16759), (128, 16786), (139, 16849), (141, 16861), (145, 16894), (148, 16912), (156, 16978), (157, 16981), (159, 16987), (162, 17002), (164, 17011), (166, 17023), (168, 17032), (178, 17110), (182, 17125), (195, 17242), (196, 17245), (199, 17272), (200, 17284), (209, 17338), (214, 17359), (224, 17425), (230, 17464), (243, 17557), (252, 17605), (257, 17650), (266, 17698), (270, 17740), (271, 17749), (278, 17779), (279, 17782), (281, 17794), (291, 17851), (292, 17857), (297, 17878), (298, 17881), (325, 18019), (327, 18031), (340, 18091), (349, 18148), (369, 18286), (371, 18307), (373, 18331), (377, 18376), (381, 18394), (387, 18442), (390, 18454), (397, 18496), (425, 18616), (429, 18685), (435, 18721), (447, 18802), (458, 18937),

Gene: LadyBird_26 Start: 16593, Stop: 19130, Start Num: 56

Candidate Starts for LadyBird_26:

(Start: 56 @16593 has 91 MA's), (84, 16773), (85, 16776), (95, 16824), (109, 16935), (111, 16944), (114, 16965), (115, 16974), (118, 16983), (128, 17028), (134, 17061), (148, 17154), (154, 17202), (156, 17220), (161, 17232), (164, 17253), (168, 17274), (171, 17295), (172, 17298), (195, 17484), (200, 17526), (201, 17535), (203, 17544), (214, 17601), (224, 17667), (230, 17706), (241, 17793), (257, 17892), (276, 18012), (278, 18021), (280, 18027), (281, 18036), (284, 18057), (289, 18081), (293, 18102), (298, 18123), (299, 18129), (306, 18162), (308, 18174), (320, 18231), (340, 18333), (345, 18360), (349, 18390), (355, 18423), (365, 18480), (370, 18522), (373, 18564), (404, 18687), (408, 18696), (410, 18705), (430, 18816), (434, 18846), (439, 18900), (446, 18930),

Gene: Lambert1_26 Start: 16043, Stop: 19081, Start Num: 11

Candidate Starts for Lambert1_26:

(Start: 11 @16043 has 33 MA's), (24, 16217), (26, 16229), (30, 16262), (68, 16469), (70, 16490), (86, 16589), (88, 16592), (115, 16802), (122, 16823), (128, 16856), (139, 16919), (141, 16931), (145, 16964), (148, 16982), (150, 17003), (157, 17051), (159, 17057), (162, 17072), (164, 17081), (166, 17093), (168, 17102), (182, 17195), (195, 17312), (196, 17315), (199, 17342), (200, 17354), (209, 17408), (214, 17429), (224, 17495), (230, 17534), (252, 17675), (257, 17720), (270, 17810), (271, 17819), (278, 17849), (288, 17906), (291, 17921), (297, 17948), (298, 17951), (302, 17969), (324, 18080), (340, 18161), (349, 18218), (357, 18260), (369, 18356), (371, 18377), (373, 18401), (377, 18446), (381, 18464), (387, 18512), (390, 18524), (397, 18566), (399, 18578), (412, 18626), (435, 18797), (443, 18857), (445, 18869), (449, 18896), (450, 18917), (458, 19013), (461, 19061),

Gene: Larenn_27 Start: 16894, Stop: 19434, Start Num: 56

Candidate Starts for Larenn_27:

(Start: 56 @16894 has 91 MA's), (84, 17074), (110, 17239), (111, 17245), (114, 17266), (115, 17275), (128, 17329), (130, 17341), (134, 17362), (141, 17404), (150, 17476), (162, 17548), (164, 17557), (168, 17578), (171, 17599), (172, 17602), (173, 17620), (183, 17680), (188, 17707), (195, 17788), (200, 17830), (201, 17839), (203, 17848), (204, 17851), (209, 17884), (212, 17896), (214, 17905), (223, 17968), (224, 17971), (227, 17998), (230, 18010), (265, 18241), (271, 18295), (274, 18307), (276, 18316), (280, 18331), (284, 18361), (289, 18385), (290, 18394), (291, 18397), (297, 18424), (301, 18439), (306, 18466), (310, 18487), (311, 18493), (327, 18577), (340, 18637), (345, 18664), (355, 18727), (376, 18910), (390, 18922), (404, 18991), (408, 19000), (410, 19009), (430, 19120), (434, 19150), (439, 19204), (446, 19234), (464, 19420),

Gene: LarryKay_27 Start: 16065, Stop: 19091, Start Num: 12

Candidate Starts for LarryKay_27:

(4, 16011), (Start: 12 @16065 has 88 MA's), (20, 16179), (Start: 25 @16245 has 33 MA's), (26, 16248), (28, 16257), (36, 16293), (46, 16344), (57, 16416), (68, 16488), (86, 16608), (88, 16611), (98, 16680), (101, 16725), (115, 16818), (118, 16827), (124, 16845), (128, 16872), (139, 16935), (141, 16947), (145, 16980), (148, 16998), (156, 17064), (157, 17067), (159, 17073), (162, 17088), (164, 17097),

(166, 17109), (168, 17118), (178, 17196), (182, 17211), (195, 17328), (196, 17331), (199, 17358), (200, 17370), (209, 17424), (214, 17445), (224, 17511), (230, 17550), (243, 17643), (252, 17691), (257, 17736), (266, 17784), (270, 17826), (271, 17835), (278, 17865), (279, 17868), (281, 17880), (291, 17937), (292, 17943), (297, 17964), (298, 17967), (325, 18105), (327, 18117), (340, 18177), (349, 18234), (369, 18372), (371, 18393), (373, 18417), (377, 18462), (381, 18480), (387, 18528), (390, 18540), (397, 18582), (413, 18645), (425, 18702), (429, 18771), (435, 18807), (447, 18888), (458, 19023),

Gene: Leogania_28 Start: 18765, Stop: 21302, Start Num: 56

Candidate Starts for Leogania_28:

(Start: 56 @18765 has 91 MA's), (84, 18945), (85, 18948), (95, 18996), (111, 19116), (114, 19137), (115, 19146), (122, 19167), (128, 19200), (134, 19233), (141, 19275), (147, 19317), (148, 19326), (154, 19374), (156, 19392), (164, 19425), (166, 19437), (168, 19446), (169, 19458), (171, 19467), (195, 19656), (198, 19683), (200, 19698), (209, 19752), (214, 19773), (224, 19839), (230, 19878), (241, 19965), (276, 20184), (280, 20199), (284, 20229), (288, 20250), (289, 20253), (291, 20265), (297, 20292), (306, 20334), (311, 20361), (320, 20403), (325, 20433), (340, 20505), (345, 20532), (355, 20595), (363, 20640), (365, 20652), (390, 20790), (404, 20859), (408, 20868), (410, 20877), (430, 20988), (434, 21018), (439, 21072), (446, 21102),

Gene: Leviathan_28 Start: 17112, Stop: 19655, Start Num: 56

Candidate Starts for Leviathan_28:

(Start: 56 @17112 has 91 MA's), (84, 17292), (85, 17295), (91, 17325), (110, 17463), (111, 17469), (114, 17490), (115, 17499), (118, 17508), (122, 17520), (130, 17565), (134, 17586), (141, 17628), (148, 17679), (152, 17724), (154, 17727), (156, 17745), (164, 17778), (166, 17790), (168, 17799), (171, 17820), (172, 17823), (195, 18009), (200, 18051), (201, 18060), (203, 18069), (214, 18126), (224, 18192), (230, 18231), (249, 18360), (257, 18417), (268, 18483), (271, 18516), (275, 18531), (276, 18537), (278, 18546), (281, 18561), (284, 18582), (288, 18603), (292, 18624), (293, 18627), (297, 18645), (298, 18648), (308, 18699), (320, 18756), (323, 18774), (327, 18798), (340, 18858), (345, 18885), (355, 18948), (363, 18993), (376, 19131), (408, 19221), (410, 19230), (420, 19254), (430, 19341), (434, 19371), (446, 19455),

Gene: LilTurb_28 Start: 17115, Stop: 19658, Start Num: 56

Candidate Starts for LilTurb_28:

(Start: 56 @17115 has 91 MA's), (84, 17295), (85, 17298), (110, 17466), (111, 17472), (114, 17493), (115, 17502), (118, 17511), (122, 17523), (130, 17568), (134, 17589), (141, 17631), (148, 17682), (152, 17727), (154, 17730), (156, 17748), (164, 17781), (166, 17793), (168, 17802), (171, 17823), (172, 17826), (195, 18012), (200, 18054), (201, 18063), (203, 18072), (214, 18129), (224, 18195), (230, 18234), (243, 18327), (249, 18363), (257, 18420), (268, 18486), (271, 18519), (275, 18534), (276, 18540), (278, 18549), (281, 18564), (284, 18585), (288, 18606), (292, 18627), (293, 18630), (297, 18648), (298, 18651), (306, 18690), (308, 18702), (320, 18759), (323, 18777), (327, 18801), (340, 18861), (345, 18888), (355, 18951), (363, 18996), (376, 19134), (408, 19224), (410, 19233), (420, 19257), (430, 19344), (434, 19374), (446, 19458),

Gene: Lilith_27 Start: 15972, Stop: 18998, Start Num: 12

Candidate Starts for Lilith_27:

(4, 15918), (Start: 12 @15972 has 88 MA's), (20, 16086), (Start: 25 @16152 has 33 MA's), (26, 16155), (28, 16164), (36, 16200), (46, 16251), (57, 16323), (68, 16395), (86, 16515), (88, 16518), (98, 16587), (101, 16632), (115, 16725), (118, 16734), (124, 16752), (128, 16779), (139, 16842), (141, 16854), (145, 16887), (148, 16905), (156, 16971), (157, 16974), (159, 16980), (162, 16995), (164, 17004), (166, 17016), (168, 17025), (182, 17118), (195, 17235), (196, 17238), (199, 17265), (200, 17277), (209, 17331), (214, 17352), (224, 17418), (227, 17445), (243, 17550), (252, 17598), (257, 17643), (266, 17691), (270, 17733), (271, 17742), (278, 17772), (279, 17775), (281, 17787), (291, 17844), (292, 17850), (297, 17871), (298, 17874), (325, 18012), (327, 18024), (340, 18084), (350, 18144),

(355, 18174), (356, 18177), (358, 18186), (369, 18279), (377, 18369), (387, 18435), (390, 18447), (397, 18489), (413, 18552), (425, 18609), (429, 18678), (435, 18714), (447, 18795), (458, 18930),

Gene: Lilleskat_25 Start: 17590, Stop: 20499, Start Num: 25

Candidate Starts for Lilleskat_25:

(Start: 25 @17590 has 33 MA's), (27, 17602), (35, 17662), (64, 17884), (71, 17947), (78, 17989), (88, 18046), (95, 18085), (116, 18256), (118, 18262), (123, 18277), (138, 18367), (139, 18370), (141, 18382), (147, 18424), (152, 18478), (168, 18553), (171, 18574), (172, 18577), (173, 18595), (184, 18658), (193, 18724), (195, 18763), (198, 18790), (200, 18805), (205, 18835), (209, 18859), (214, 18880), (224, 18946), (230, 18985), (239, 19051), (243, 19078), (246, 19105), (265, 19216), (276, 19291), (284, 19336), (288, 19357), (292, 19378), (293, 19381), (297, 19399), (298, 19402), (304, 19429), (309, 19456), (320, 19510), (355, 19702), (359, 19717), (363, 19747), (368, 19798), (376, 19885), (378, 19894), (385, 19945), (397, 20008), (402, 20029), (410, 20065), (420, 20101), (421, 20107), (429, 20185), (433, 20212), (441, 20272), (450, 20341), (451, 20371), (455, 20398), (459, 20437), (462, 20479),

Gene: LionsBait_27 Start: 18379, Stop: 20919, Start Num: 56

Candidate Starts for LionsBait_27:

(Start: 56 @18379 has 91 MA's), (84, 18559), (85, 18562), (109, 18721), (111, 18730), (114, 18751), (115, 18760), (122, 18781), (128, 18814), (134, 18847), (154, 18988), (156, 19006), (164, 19039), (166, 19051), (167, 19054), (168, 19060), (171, 19081), (172, 19084), (195, 19270), (200, 19312), (201, 19321), (203, 19330), (214, 19387), (224, 19453), (230, 19492), (275, 19792), (278, 19807), (280, 19813), (281, 19822), (284, 19843), (289, 19867), (293, 19888), (298, 19909), (299, 19915), (306, 19948), (308, 19960), (310, 19969), (320, 20017), (339, 20110), (340, 20119), (345, 20146), (352, 20188), (355, 20209), (390, 20404), (408, 20482), (410, 20491), (426, 20554), (430, 20602), (434, 20632), (439, 20689), (445, 20716), (446, 20719), (454, 20809),

Gene: Lokk_29 Start: 18268, Stop: 20796, Start Num: 56

Candidate Starts for Lokk_29:

(Start: 56 @18268 has 91 MA's), (73, 18379), (75, 18391), (84, 18448), (85, 18451), (114, 18640), (115, 18649), (128, 18703), (147, 18820), (148, 18829), (150, 18850), (152, 18874), (166, 18940), (168, 18949), (171, 18970), (172, 18973), (195, 19159), (200, 19201), (214, 19276), (224, 19342), (230, 19381), (243, 19474), (257, 19567), (271, 19666), (276, 19687), (284, 19732), (297, 19795), (306, 19837), (311, 19864), (325, 19936), (327, 19948), (344, 20032), (345, 20035), (355, 20098), (363, 20143), (365, 20155), (373, 20239), (390, 20293), (410, 20377), (420, 20401), (434, 20518), (446, 20596),

Gene: LoneWolf_27 Start: 17261, Stop: 20305, Start Num: 15

Candidate Starts for LoneWolf_27:

(2, 16988), (Start: 15 @17261 has 1 MA's), (Start: 25 @17390 has 33 MA's), (27, 17402), (32, 17438), (38, 17510), (46, 17558), (78, 17789), (86, 17843), (88, 17846), (104, 17972), (114, 18047), (115, 18056), (120, 18071), (128, 18110), (141, 18185), (142, 18206), (146, 18224), (148, 18236), (149, 18248), (152, 18281), (154, 18284), (156, 18302), (157, 18305), (162, 18326), (166, 18347), (168, 18356), (169, 18368), (176, 18416), (179, 18437), (184, 18461), (195, 18566), (196, 18569), (209, 18662), (214, 18683), (215, 18692), (216, 18704), (224, 18749), (230, 18788), (244, 18890), (257, 18974), (260, 18986), (263, 19007), (265, 19019), (276, 19094), (278, 19103), (284, 19139), (288, 19160), (292, 19181), (293, 19184), (297, 19202), (298, 19205), (304, 19232), (309, 19259), (355, 19505), (361, 19538), (367, 19598), (368, 19601), (374, 19667), (377, 19691), (381, 19709), (383, 19730), (397, 19811), (402, 19832), (414, 19886), (421, 19913), (429, 19991), (435, 20027), (440, 20075), (441, 20078), (444, 20090), (446, 20102), (451, 20177), (457, 20213), (459, 20243), (462, 20285),

Gene: Loser_29 Start: 18399, Stop: 20897, Start Num: 56

Candidate Starts for Loser_29:

(47, 18336), (Start: 56 @18399 has 91 MA's), (77, 18528), (82, 18567), (91, 18612), (111, 18714), (114, 18735), (118, 18753), (126, 18789), (141, 18873), (148, 18924), (157, 18993), (159, 18999), (162, 19014), (164, 19023), (166, 19035), (168, 19044), (195, 19254), (198, 19281), (200, 19296), (209, 19350), (214, 19371), (224, 19437), (230, 19476), (238, 19539), (257, 19662), (261, 19677), (271, 19761), (275, 19776), (278, 19791), (280, 19797), (281, 19806), (284, 19827), (288, 19848), (293, 19872), (298, 19893), (299, 19899), (306, 19932), (309, 19947), (311, 19959), (317, 19989), (320, 20001), (325, 20031), (327, 20043), (345, 20130), (350, 20163), (355, 20193), (361, 20226), (363, 20238), (404, 20457), (408, 20466), (410, 20475), (430, 20586), (434, 20616), (446, 20697), (459, 20838),

Gene: Louie6_27 Start: 16066, Stop: 19092, Start Num: 12

Candidate Starts for Louie6_27:

(4, 16012), (Start: 12 @16066 has 88 MA's), (20, 16180), (Start: 25 @16246 has 33 MA's), (26, 16249), (28, 16258), (36, 16294), (46, 16345), (57, 16417), (68, 16489), (86, 16609), (88, 16612), (98, 16681), (101, 16726), (115, 16819), (118, 16828), (124, 16846), (128, 16873), (139, 16936), (141, 16948), (145, 16981), (148, 16999), (156, 17065), (157, 17068), (159, 17074), (162, 17089), (164, 17098), (166, 17110), (168, 17119), (178, 17197), (182, 17212), (195, 17329), (196, 17332), (199, 17359), (200, 17371), (209, 17425), (214, 17446), (224, 17512), (230, 17551), (243, 17644), (252, 17692), (257, 17737), (266, 17785), (270, 17827), (271, 17836), (278, 17866), (279, 17869), (281, 17881), (291, 17938), (292, 17944), (297, 17965), (298, 17968), (325, 18106), (327, 18118), (340, 18178), (349, 18235), (369, 18373), (371, 18394), (373, 18418), (377, 18463), (381, 18481), (387, 18529), (390, 18541), (397, 18583), (413, 18646), (425, 18703), (429, 18772), (435, 18808), (447, 18889), (458, 19024),

Gene: Lowa_27 Start: 15971, Stop: 18997, Start Num: 12

Candidate Starts for Lowa_27:

(4, 15917), (Start: 12 @15971 has 88 MA's), (20, 16085), (Start: 25 @16151 has 33 MA's), (26, 16154), (28, 16163), (36, 16199), (46, 16250), (57, 16322), (68, 16394), (86, 16514), (88, 16517), (98, 16586), (101, 16631), (115, 16724), (118, 16733), (124, 16751), (128, 16778), (139, 16841), (141, 16853), (145, 16886), (148, 16904), (156, 16970), (157, 16973), (159, 16979), (162, 16994), (164, 17003), (166, 17015), (168, 17024), (182, 17117), (195, 17234), (196, 17237), (199, 17264), (200, 17276), (209, 17330), (214, 17351), (224, 17417), (227, 17444), (243, 17549), (252, 17597), (257, 17642), (266, 17690), (270, 17732), (271, 17741), (278, 17771), (279, 17774), (281, 17786), (291, 17843), (292, 17849), (297, 17870), (298, 17873), (325, 18011), (327, 18023), (340, 18083), (350, 18143), (355, 18173), (356, 18176), (358, 18185), (369, 18278), (377, 18368), (387, 18434), (390, 18446), (397, 18488), (413, 18551), (425, 18608), (429, 18677), (435, 18713), (447, 18794), (458, 18929),

Gene: LugYA_29 Start: 15979, Stop: 19005, Start Num: 12

Candidate Starts for LugYA_29:

(4, 15925), (Start: 12 @15979 has 88 MA's), (20, 16093), (Start: 25 @16159 has 33 MA's), (26, 16162), (28, 16171), (36, 16207), (46, 16258), (57, 16330), (68, 16402), (86, 16522), (88, 16525), (98, 16594), (101, 16639), (115, 16732), (118, 16741), (124, 16759), (128, 16786), (139, 16849), (141, 16861), (145, 16894), (148, 16912), (156, 16978), (157, 16981), (159, 16987), (162, 17002), (164, 17011), (166, 17023), (168, 17032), (178, 17110), (182, 17125), (195, 17242), (196, 17245), (199, 17272), (200, 17284), (209, 17338), (214, 17359), (224, 17425), (230, 17464), (243, 17557), (252, 17605), (257, 17650), (266, 17698), (270, 17740), (271, 17749), (278, 17779), (279, 17782), (281, 17794), (291, 17851), (292, 17857), (297, 17878), (298, 17881), (325, 18019), (327, 18031), (340, 18091), (349, 18148), (369, 18286), (371, 18307), (373, 18331), (377, 18376), (381, 18394), (387, 18442), (390, 18454), (397, 18496), (413, 18559), (425, 18616), (429, 18685), (435, 18721), (447, 18802), (458, 18937),

Gene: MA5_25 Start: 15111, Stop: 18149, Start Num: 11

Candidate Starts for MA5_25:

(Start: 11 @15111 has 33 MA's), (24, 15285), (30, 15330), (68, 15540), (88, 15663), (115, 15870), (128, 15924), (141, 15999), (145, 16032), (148, 16050), (149, 16062), (161, 16128), (166, 16161), (168, 16170), (173, 16212), (182, 16263), (195, 16380), (200, 16422), (209, 16476), (214, 16497), (224, 16563), (227, 16590), (252, 16743), (261, 16803), (265, 16833), (270, 16878), (271, 16887), (278, 16917), (281, 16932), (284, 16953), (288, 16974), (289, 16977), (291, 16989), (297, 17016), (298, 17019), (303, 17040), (314, 17103), (327, 17169), (340, 17229), (348, 17268), (355, 17319), (356, 17322), (358, 17331), (362, 17355), (369, 17424), (371, 17445), (377, 17514), (381, 17532), (387, 17580), (390, 17592), (397, 17634), (399, 17646), (412, 17694), (435, 17865), (447, 17946), (458, 18081), (459, 18093), (461, 18129),

Gene: MK4_25 Start: 15408, Stop: 18452, Start Num: 11

Candidate Starts for MK4_25:

(Start: 11 @15408 has 33 MA's), (24, 15582), (26, 15594), (68, 15837), (86, 15957), (88, 15960), (117, 16182), (128, 16227), (141, 16302), (145, 16335), (148, 16353), (149, 16365), (161, 16431), (166, 16464), (168, 16473), (173, 16515), (182, 16566), (195, 16683), (200, 16725), (209, 16779), (214, 16800), (222, 16857), (224, 16866), (241, 16992), (243, 16998), (246, 17025), (257, 17091), (261, 17106), (265, 17136), (266, 17139), (271, 17190), (274, 17202), (279, 17223), (281, 17235), (284, 17256), (291, 17292), (297, 17319), (305, 17352), (307, 17364), (314, 17406), (327, 17472), (340, 17532), (348, 17571), (355, 17622), (356, 17625), (358, 17634), (362, 17658), (369, 17727), (371, 17748), (377, 17817), (381, 17835), (387, 17883), (390, 17895), (397, 17937), (399, 17949), (412, 17997), (435, 18168), (443, 18228), (447, 18249), (458, 18384), (459, 18396), (461, 18432),

Gene: MadMarie_27 Start: 15981, Stop: 19007, Start Num: 12

Candidate Starts for MadMarie_27:

(4, 15927), (Start: 12 @15981 has 88 MA's), (20, 16095), (Start: 25 @16161 has 33 MA's), (26, 16164), (28, 16173), (36, 16209), (46, 16260), (57, 16332), (68, 16404), (86, 16524), (88, 16527), (98, 16596), (101, 16641), (115, 16734), (118, 16743), (124, 16761), (128, 16788), (139, 16851), (141, 16863), (145, 16896), (148, 16914), (156, 16980), (157, 16983), (159, 16989), (162, 17004), (164, 17013), (166, 17025), (168, 17034), (182, 17127), (195, 17244), (196, 17247), (199, 17274), (200, 17286), (209, 17340), (214, 17361), (224, 17427), (227, 17454), (243, 17559), (252, 17607), (257, 17652), (266, 17700), (270, 17742), (271, 17751), (278, 17781), (279, 17784), (281, 17796), (291, 17853), (292, 17859), (297, 17880), (298, 17883), (325, 18021), (327, 18033), (340, 18093), (350, 18153), (355, 18183), (356, 18186), (358, 18195), (369, 18288), (377, 18378), (387, 18444), (390, 18456), (397, 18498), (413, 18561), (425, 18618), (429, 18687), (435, 18723), (447, 18804), (458, 18939),

Gene: Mainiac_27 Start: 15972, Stop: 18998, Start Num: 12

Candidate Starts for Mainiac_27:

(4, 15918), (Start: 12 @15972 has 88 MA's), (20, 16086), (Start: 25 @16152 has 33 MA's), (26, 16155), (28, 16164), (36, 16200), (46, 16251), (57, 16323), (68, 16395), (86, 16515), (88, 16518), (98, 16587), (101, 16632), (115, 16725), (118, 16734), (124, 16752), (128, 16779), (139, 16842), (141, 16854), (145, 16887), (148, 16905), (156, 16971), (157, 16974), (159, 16980), (162, 16995), (164, 17004), (166, 17016), (168, 17025), (182, 17118), (195, 17235), (196, 17238), (199, 17265), (200, 17277), (209, 17331), (214, 17352), (224, 17418), (227, 17445), (243, 17550), (252, 17598), (257, 17643), (266, 17691), (270, 17733), (271, 17742), (278, 17772), (279, 17775), (281, 17787), (291, 17844), (292, 17850), (297, 17871), (298, 17874), (325, 18012), (327, 18024), (340, 18084), (350, 18144), (355, 18174), (356, 18177), (358, 18186), (369, 18279), (377, 18369), (387, 18435), (390, 18447), (397, 18489), (413, 18552), (425, 18609), (429, 18678), (435, 18714), (447, 18795), (458, 18930),

Gene: MajorMajor_25 Start: 15528, Stop: 18041, Start Num: 56

Candidate Starts for MajorMajor_25:

(Start: 56 @15528 has 91 MA's), (73, 15639), (83, 15705), (84, 15708), (85, 15711), (114, 15897), (115, 15906), (118, 15915), (141, 16035), (148, 16086), (155, 16143), (158, 16155), (160, 16161),

(162, 16176), (166, 16197), (168, 16206), (174, 16254), (195, 16416), (199, 16446), (200, 16458), (206, 16497), (209, 16512), (214, 16533), (222, 16590), (224, 16599), (227, 16626), (241, 16725), (257, 16824), (261, 16839), (271, 16923), (276, 16944), (284, 16989), (297, 17052), (298, 17055), (308, 17106), (311, 17121), (340, 17265), (345, 17292), (355, 17355), (359, 17370), (363, 17400), (373, 17496), (392, 17562), (408, 17625), (441, 17820), (442, 17823), (446, 17844),

Gene: Malec_27 Start: 16899, Stop: 19439, Start Num: 56

Candidate Starts for Malec_27:

(Start: 56 @16899 has 91 MA's), (84, 17079), (110, 17244), (111, 17250), (114, 17271), (115, 17280), (128, 17334), (130, 17346), (134, 17367), (141, 17409), (150, 17481), (162, 17553), (164, 17562), (168, 17583), (171, 17604), (172, 17607), (173, 17625), (183, 17685), (188, 17712), (195, 17793), (200, 17835), (201, 17844), (203, 17853), (204, 17856), (209, 17889), (212, 17901), (214, 17910), (223, 17973), (224, 17976), (227, 18003), (230, 18015), (257, 18201), (265, 18246), (271, 18300), (274, 18312), (276, 18321), (280, 18336), (284, 18366), (289, 18390), (290, 18399), (291, 18402), (297, 18429), (301, 18444), (306, 18471), (310, 18492), (311, 18498), (327, 18582), (340, 18642), (345, 18669), (355, 18732), (376, 18915), (390, 18927), (404, 18996), (408, 19005), (410, 19014), (430, 19125), (434, 19155), (439, 19209), (446, 19239), (464, 19425),

Gene: Malinsilva_29 Start: 15971, Stop: 18997, Start Num: 12

Candidate Starts for Malinsilva_29:

(4, 15917), (Start: 12 @15971 has 88 MA's), (20, 16085), (Start: 25 @16151 has 33 MA's), (26, 16154), (28, 16163), (36, 16199), (46, 16250), (57, 16322), (68, 16394), (86, 16514), (88, 16517), (98, 16586), (101, 16631), (115, 16724), (118, 16733), (124, 16751), (128, 16778), (139, 16841), (141, 16853), (145, 16886), (148, 16904), (156, 16970), (157, 16973), (159, 16979), (162, 16994), (164, 17003), (166, 17015), (168, 17024), (182, 17117), (195, 17234), (196, 17237), (199, 17264), (200, 17276), (209, 17330), (214, 17351), (224, 17417), (227, 17444), (243, 17549), (252, 17597), (257, 17642), (266, 17690), (270, 17732), (271, 17741), (278, 17771), (279, 17774), (281, 17786), (291, 17843), (292, 17849), (297, 17870), (298, 17873), (325, 18011), (327, 18023), (340, 18083), (350, 18143), (355, 18173), (356, 18176), (358, 18185), (369, 18278), (377, 18368), (387, 18434), (390, 18446), (397, 18488), (413, 18551), (425, 18608), (429, 18677), (435, 18713), (447, 18794), (458, 18929),

Gene: Maminiaina_27 Start: 17320, Stop: 20244, Start Num: 25

Candidate Starts for Maminiaina_27:

(Start: 25 @17320 has 33 MA's), (27, 17332), (30, 17356), (32, 17368), (52, 17557), (64, 17620), (71, 17683), (78, 17725), (88, 17782), (89, 17788), (116, 17998), (118, 18004), (123, 18019), (131, 18070), (138, 18109), (141, 18124), (147, 18166), (148, 18175), (152, 18220), (157, 18244), (168, 18295), (171, 18316), (172, 18319), (173, 18337), (193, 18466), (195, 18505), (198, 18532), (200, 18547), (205, 18577), (209, 18601), (214, 18622), (224, 18688), (230, 18727), (243, 18820), (246, 18847), (257, 18913), (265, 18958), (276, 19033), (284, 19078), (288, 19099), (292, 19120), (293, 19123), (295, 19132), (297, 19141), (298, 19144), (299, 19150), (321, 19258), (323, 19270), (338, 19336), (355, 19444), (363, 19489), (365, 19501), (367, 19537), (368, 19540), (373, 19585), (375, 19621), (378, 19636), (385, 19687), (397, 19750), (410, 19810), (421, 19852), (429, 19930), (433, 19957), (435, 19966), (441, 20017), (451, 20116), (455, 20143), (459, 20182), (462, 20224),

Gene: Manu_28 Start: 16057, Stop: 19083, Start Num: 12

Candidate Starts for Manu_28:

(4, 16003), (Start: 12 @16057 has 88 MA's), (20, 16171), (Start: 25 @16237 has 33 MA's), (26, 16240), (28, 16249), (36, 16285), (46, 16336), (57, 16408), (68, 16480), (86, 16600), (88, 16603), (98, 16672), (101, 16717), (115, 16810), (118, 16819), (128, 16864), (136, 16903), (139, 16927), (141, 16939), (145, 16972), (148, 16990), (150, 17011), (157, 17059), (159, 17065), (162, 17080), (164, 17089), (166, 17101), (168, 17110), (182, 17203), (194, 17290), (195, 17320), (196, 17323), (199, 17350), (200, 17362), (209, 17416), (214, 17437), (218, 17467), (224, 17503), (241, 17629), (252, 17683), (257, 17728), (266, 17776), (270, 17818), (271, 17827), (278, 17857), (291, 17929), (292, 17935),

(297, 17956), (298, 17959), (301, 17971), (324, 18088), (325, 18097), (340, 18169), (341, 18172), (348, 18208), (355, 18259), (356, 18262), (358, 18271), (377, 18454), (387, 18520), (390, 18532), (397, 18574), (413, 18637), (425, 18694), (429, 18763), (435, 18799), (447, 18880), (458, 19015), (459, 19027),

Gene: MarQuardt_27 Start: 15980, Stop: 19006, Start Num: 12

Candidate Starts for MarQuardt_27:

(4, 15926), (Start: 12 @15980 has 88 MA's), (20, 16094), (Start: 25 @16160 has 33 MA's), (26, 16163), (28, 16172), (36, 16208), (46, 16259), (57, 16331), (68, 16403), (86, 16523), (88, 16526), (98, 16595), (101, 16640), (115, 16733), (118, 16742), (124, 16760), (128, 16787), (139, 16850), (141, 16862), (145, 16895), (148, 16913), (156, 16979), (157, 16982), (159, 16988), (162, 17003), (164, 17012), (166, 17024), (168, 17033), (178, 17111), (182, 17126), (195, 17243), (196, 17246), (199, 17273), (200, 17285), (209, 17339), (214, 17360), (224, 17426), (230, 17465), (243, 17558), (252, 17606), (257, 17651), (266, 17699), (270, 17741), (271, 17750), (278, 17780), (279, 17783), (281, 17795), (291, 17852), (292, 17858), (297, 17879), (298, 17882), (325, 18020), (327, 18032), (340, 18092), (349, 18149), (369, 18287), (371, 18308), (373, 18332), (377, 18377), (381, 18395), (387, 18443), (390, 18455), (397, 18497), (413, 18560), (425, 18617), (429, 18686), (435, 18722), (447, 18803), (458, 18938),

Gene: Marchesa_25 Start: 15546, Stop: 18584, Start Num: 11

Candidate Starts for Marchesa_25:

(Start: 11 @15546 has 33 MA's), (24, 15720), (26, 15732), (30, 15765), (68, 15975), (88, 16098), (92, 16119), (115, 16305), (128, 16359), (139, 16422), (141, 16434), (145, 16467), (148, 16485), (157, 16554), (159, 16560), (162, 16575), (164, 16584), (166, 16596), (168, 16605), (182, 16698), (195, 16815), (196, 16818), (199, 16845), (200, 16857), (209, 16911), (214, 16932), (216, 16953), (224, 16998), (230, 17037), (252, 17178), (257, 17223), (261, 17238), (270, 17313), (271, 17322), (278, 17352), (281, 17367), (282, 17370), (284, 17388), (288, 17409), (289, 17412), (292, 17430), (297, 17451), (298, 17454), (314, 17538), (327, 17604), (333, 17625), (340, 17664), (348, 17703), (355, 17754), (356, 17757), (358, 17766), (362, 17790), (369, 17859), (371, 17880), (377, 17949), (381, 17967), (387, 18015), (390, 18027), (397, 18069), (399, 18081), (412, 18129), (435, 18300), (437, 18330), (443, 18360), (447, 18381), (458, 18516), (459, 18528), (461, 18564),

Gene: Margo_26 Start: 16069, Stop: 19107, Start Num: 11

Candidate Starts for Margo_26:

(Start: 11 @16069 has 33 MA's), (24, 16243), (26, 16255), (30, 16288), (68, 16495), (70, 16516), (86, 16615), (88, 16618), (115, 16828), (118, 16837), (122, 16849), (128, 16882), (139, 16945), (141, 16957), (145, 16990), (148, 17008), (150, 17029), (157, 17077), (159, 17083), (162, 17098), (164, 17107), (166, 17119), (168, 17128), (182, 17221), (195, 17338), (196, 17341), (199, 17368), (200, 17380), (209, 17434), (214, 17455), (224, 17521), (230, 17560), (252, 17701), (257, 17746), (270, 17836), (271, 17845), (278, 17875), (288, 17932), (291, 17947), (297, 17974), (298, 17977), (302, 17995), (324, 18106), (340, 18187), (349, 18244), (357, 18286), (369, 18382), (371, 18403), (373, 18427), (377, 18472), (381, 18490), (387, 18538), (390, 18550), (397, 18592), (399, 18604), (412, 18652), (435, 18823), (443, 18883), (445, 18895), (449, 18922), (450, 18943), (458, 19039), (461, 19087),

Gene: Marie_27 Start: 15978, Stop: 19004, Start Num: 12

Candidate Starts for Marie_27:

(4, 15924), (Start: 12 @15978 has 88 MA's), (20, 16092), (Start: 25 @16158 has 33 MA's), (26, 16161), (28, 16170), (36, 16206), (46, 16257), (57, 16329), (68, 16401), (86, 16521), (88, 16524), (98, 16593), (101, 16638), (115, 16731), (118, 16740), (124, 16758), (128, 16785), (139, 16848), (141, 16860), (145, 16893), (148, 16911), (156, 16977), (157, 16980), (159, 16986), (162, 17001), (164, 17010), (166, 17022), (168, 17031), (178, 17109), (182, 17124), (195, 17241), (196, 17244), (199, 17271), (200, 17283), (209, 17337), (214, 17358), (224, 17424), (230, 17463), (243, 17556), (252, 17604),

(257, 17649), (266, 17697), (270, 17739), (271, 17748), (278, 17778), (279, 17781), (281, 17793), (291, 17850), (292, 17856), (297, 17877), (298, 17880), (325, 18018), (327, 18030), (340, 18090), (349, 18147), (369, 18285), (371, 18306), (373, 18330), (377, 18375), (381, 18393), (387, 18441), (390, 18453), (397, 18495), (413, 18558), (425, 18615), (429, 18684), (435, 18720), (447, 18801), (458, 18936),

Gene: Marius_28 Start: 16057, Stop: 19083, Start Num: 12

Candidate Starts for Marius_28:

(4, 16003), (Start: 12 @16057 has 88 MA's), (20, 16171), (Start: 25 @16237 has 33 MA's), (26, 16240), (28, 16249), (36, 16285), (46, 16336), (57, 16408), (68, 16480), (86, 16600), (88, 16603), (98, 16672), (101, 16717), (115, 16810), (118, 16819), (128, 16864), (136, 16903), (139, 16927), (141, 16939), (145, 16972), (148, 16990), (150, 17011), (157, 17059), (159, 17065), (162, 17080), (164, 17089), (166, 17101), (168, 17110), (182, 17203), (194, 17290), (195, 17320), (196, 17323), (199, 17350), (200, 17362), (209, 17416), (214, 17437), (218, 17467), (224, 17503), (241, 17629), (252, 17683), (257, 17728), (266, 17776), (270, 17818), (271, 17827), (278, 17857), (291, 17929), (292, 17935), (297, 17956), (298, 17959), (301, 17971), (324, 18088), (325, 18097), (340, 18169), (341, 18172), (348, 18208), (355, 18259), (356, 18262), (358, 18271), (377, 18454), (387, 18520), (390, 18532), (397, 18574), (413, 18637), (425, 18694), (429, 18763), (435, 18799), (447, 18880), (458, 19015), (459, 19027),

Gene: MegTheThird_25 Start: 15544, Stop: 18645, Start Num: 9

Candidate Starts for MegTheThird_25:

(9, 15544), (Start: 25 @15733 has 33 MA's), (27, 15745), (32, 15781), (46, 15898), (51, 15940), (69, 16066), (78, 16129), (86, 16183), (88, 16186), (104, 16312), (116, 16399), (120, 16411), (141, 16525), (142, 16546), (148, 16576), (152, 16621), (154, 16624), (156, 16642), (157, 16645), (162, 16666), (168, 16696), (169, 16708), (176, 16756), (182, 16789), (184, 16801), (195, 16906), (209, 17002), (212, 17014), (214, 17023), (215, 17032), (216, 17044), (220, 17068), (222, 17080), (224, 17089), (230, 17128), (233, 17152), (248, 17254), (250, 17260), (257, 17314), (276, 17434), (284, 17479), (288, 17500), (292, 17521), (293, 17524), (297, 17542), (298, 17545), (315, 17632), (355, 17845), (363, 17890), (365, 17902), (368, 17941), (374, 18007), (376, 18028), (377, 18031), (381, 18049), (383, 18070), (391, 18118), (397, 18151), (402, 18172), (406, 18199), (421, 18253), (429, 18331), (435, 18367), (441, 18418), (446, 18442), (451, 18517), (459, 18583), (462, 18625),

Gene: Methuselah_26 Start: 16062, Stop: 19088, Start Num: 12

Candidate Starts for Methuselah_26:

(4, 16008), (Start: 12 @16062 has 88 MA's), (20, 16176), (Start: 25 @16242 has 33 MA's), (26, 16245), (28, 16254), (36, 16290), (46, 16341), (57, 16413), (68, 16485), (86, 16605), (88, 16608), (98, 16677), (101, 16722), (115, 16815), (118, 16824), (124, 16842), (128, 16869), (139, 16932), (141, 16944), (145, 16977), (148, 16995), (156, 17061), (157, 17064), (159, 17070), (162, 17085), (164, 17094), (166, 17106), (168, 17115), (178, 17193), (182, 17208), (195, 17325), (196, 17328), (199, 17355), (200, 17367), (209, 17421), (214, 17442), (224, 17508), (230, 17547), (243, 17640), (252, 17688), (257, 17733), (266, 17781), (270, 17823), (271, 17832), (278, 17862), (279, 17865), (281, 17877), (291, 17934), (292, 17940), (297, 17961), (298, 17964), (325, 18102), (327, 18114), (340, 18174), (349, 18231), (369, 18369), (371, 18390), (373, 18414), (377, 18459), (381, 18477), (387, 18525), (390, 18537), (397, 18579), (413, 18642), (425, 18699), (429, 18768), (435, 18804), (447, 18885), (458, 19020),

Gene: Microwolf_27 Start: 15980, Stop: 19006, Start Num: 12

Candidate Starts for Microwolf_27:

(4, 15926), (Start: 12 @15980 has 88 MA's), (20, 16094), (Start: 25 @16160 has 33 MA's), (26, 16163), (28, 16172), (36, 16208), (46, 16259), (57, 16331), (68, 16403), (86, 16523), (88, 16526), (98, 16595), (101, 16640), (115, 16733), (118, 16742), (124, 16760), (128, 16787), (139, 16850), (141, 16862), (145, 16895), (148, 16913), (156, 16979), (157, 16982), (159, 16988), (162, 17003), (164, 17012),

(166, 17024), (168, 17033), (182, 17126), (195, 17243), (196, 17246), (199, 17273), (200, 17285), (209, 17339), (214, 17360), (224, 17426), (227, 17453), (243, 17558), (252, 17606), (257, 17651), (266, 17699), (270, 17741), (271, 17750), (278, 17780), (279, 17783), (281, 17795), (291, 17852), (292, 17858), (297, 17879), (298, 17882), (325, 18020), (327, 18032), (340, 18092), (350, 18152), (355, 18182), (356, 18185), (358, 18194), (369, 18287), (377, 18377), (387, 18443), (390, 18455), (397, 18497), (413, 18560), (425, 18617), (429, 18686), (435, 18722), (447, 18803), (458, 18938),

Gene: MiculUcigas_26 Start: 16672, Stop: 19179, Start Num: 56

Candidate Starts for MiculUcigas_26:

(Start: 56 @16672 has 91 MA's), (73, 16783), (82, 16840), (114, 17026), (128, 17089), (134, 17122), (136, 17128), (162, 17308), (164, 17317), (168, 17338), (171, 17359), (172, 17362), (173, 17380), (183, 17440), (195, 17548), (200, 17590), (209, 17644), (214, 17665), (223, 17728), (224, 17731), (226, 17749), (230, 17770), (257, 17956), (261, 17971), (264, 17998), (271, 18055), (275, 18070), (276, 18076), (278, 18085), (280, 18091), (284, 18121), (288, 18142), (298, 18187), (299, 18193), (306, 18226), (311, 18253), (325, 18325), (327, 18337), (340, 18397), (345, 18424), (355, 18487), (363, 18532), (365, 18544), (367, 18580), (372, 18616), (374, 18649), (395, 18712), (401, 18736), (431, 18880), (446, 18979), (453, 19066), (464, 19165),

Gene: Miko_29 Start: 18238, Stop: 20766, Start Num: 56

Candidate Starts for Miko_29:

(Start: 56 @18238 has 91 MA's), (73, 18349), (75, 18361), (84, 18418), (85, 18421), (114, 18610), (128, 18673), (141, 18748), (147, 18790), (148, 18799), (150, 18820), (152, 18844), (166, 18910), (168, 18919), (171, 18940), (172, 18943), (195, 19129), (200, 19171), (214, 19246), (224, 19312), (230, 19351), (257, 19537), (271, 19636), (276, 19657), (284, 19702), (290, 19735), (291, 19738), (297, 19765), (306, 19807), (311, 19834), (325, 19906), (327, 19918), (344, 20002), (345, 20005), (355, 20068), (363, 20113), (365, 20125), (373, 20209), (390, 20263), (410, 20347), (420, 20371), (434, 20488), (446, 20566),

Gene: Minispark_24 Start: 15668, Stop: 18586, Start Num: 25

Candidate Starts for Minispark_24:

(Start: 25 @15668 has 33 MA's), (27, 15680), (46, 15839), (51, 15881), (52, 15902), (71, 16028), (78, 16070), (86, 16124), (88, 16127), (104, 16253), (114, 16328), (115, 16337), (116, 16340), (120, 16352), (146, 16505), (148, 16517), (149, 16529), (150, 16538), (152, 16562), (156, 16583), (157, 16586), (162, 16607), (166, 16628), (168, 16637), (169, 16649), (176, 16697), (184, 16742), (195, 16847), (204, 16910), (208, 16940), (209, 16943), (214, 16964), (215, 16973), (216, 16985), (220, 17009), (224, 17030), (257, 17255), (260, 17267), (265, 17300), (276, 17375), (278, 17384), (284, 17420), (288, 17441), (289, 17444), (292, 17462), (293, 17465), (297, 17483), (298, 17486), (304, 17513), (309, 17540), (321, 17600), (338, 17678), (355, 17786), (363, 17831), (368, 17882), (375, 17963), (376, 17969), (378, 17978), (385, 18029), (397, 18092), (402, 18113), (410, 18152), (421, 18194), (429, 18272), (433, 18299), (441, 18359), (446, 18383), (451, 18458), (459, 18524), (462, 18566),

Gene: Misomonster_29 Start: 16062, Stop: 19088, Start Num: 12

Candidate Starts for Misomonster_29:

(4, 16008), (Start: 12 @16062 has 88 MA's), (20, 16176), (Start: 25 @16242 has 33 MA's), (26, 16245), (28, 16254), (36, 16290), (46, 16341), (57, 16413), (68, 16485), (86, 16605), (88, 16608), (98, 16677), (101, 16722), (115, 16815), (118, 16824), (124, 16842), (128, 16869), (139, 16932), (141, 16944), (145, 16977), (148, 16995), (156, 17061), (157, 17064), (159, 17070), (162, 17085), (164, 17094), (166, 17106), (168, 17115), (178, 17193), (182, 17208), (195, 17325), (196, 17328), (199, 17355), (200, 17367), (209, 17421), (214, 17442), (224, 17508), (230, 17547), (243, 17640), (252, 17688), (257, 17733), (266, 17781), (270, 17823), (271, 17832), (278, 17862), (279, 17865), (281, 17877), (291, 17934), (292, 17940), (297, 17961), (298, 17964), (325, 18102), (327, 18114), (340, 18174), (349, 18231), (369, 18369), (371, 18390), (373, 18414), (377, 18459), (381, 18477), (387, 18525),

(390, 18537), (397, 18579), (413, 18642), (425, 18699), (429, 18768), (435, 18804), (447, 18885), (458, 19020),

Gene: MissWhite_26 Start: 15738, Stop: 18245, Start Num: 56

Candidate Starts for MissWhite_26:

(Start: 56 @15738 has 91 MA's), (73, 15849), (83, 15915), (84, 15918), (114, 16095), (118, 16110), (121, 16119), (131, 16176), (141, 16230), (148, 16281), (157, 16350), (159, 16356), (162, 16371), (164, 16380), (166, 16392), (168, 16401), (184, 16506), (190, 16539), (195, 16611), (209, 16707), (214, 16728), (220, 16773), (224, 16794), (227, 16821), (241, 16920), (255, 17001), (257, 17019), (261, 17034), (264, 17061), (266, 17067), (271, 17118), (274, 17130), (276, 17139), (280, 17154), (284, 17184), (297, 17247), (298, 17250), (311, 17316), (320, 17358), (325, 17388), (327, 17400), (340, 17460), (341, 17463), (345, 17487), (349, 17517), (355, 17550), (365, 17607), (373, 17691), (398, 17787), (399, 17796), (426, 17892), (430, 17940), (434, 17970), (446, 18048),

Gene: MoneyMay_27 Start: 15978, Stop: 19004, Start Num: 12

Candidate Starts for MoneyMay_27:

(4, 15924), (Start: 12 @15978 has 88 MA's), (20, 16092), (Start: 25 @16158 has 33 MA's), (26, 16161), (28, 16170), (36, 16206), (46, 16257), (57, 16329), (68, 16401), (86, 16521), (88, 16524), (98, 16593), (101, 16638), (115, 16731), (118, 16740), (124, 16758), (128, 16785), (139, 16848), (141, 16860), (145, 16893), (148, 16911), (156, 16977), (157, 16980), (159, 16986), (162, 17001), (164, 17010), (166, 17022), (168, 17031), (178, 17109), (182, 17124), (195, 17241), (196, 17244), (199, 17271), (200, 17283), (209, 17337), (214, 17358), (224, 17424), (230, 17463), (243, 17556), (252, 17604), (257, 17649), (266, 17697), (270, 17739), (271, 17748), (278, 17778), (279, 17781), (281, 17793), (291, 17850), (292, 17856), (297, 17877), (298, 17880), (325, 18018), (327, 18030), (340, 18090), (349, 18147), (369, 18285), (371, 18306), (373, 18330), (377, 18375), (381, 18393), (387, 18441), (390, 18453), (397, 18495), (413, 18558), (425, 18615), (429, 18684), (435, 18720), (447, 18801), (458, 18936),

Gene: Montavir_26 Start: 15979, Stop: 19005, Start Num: 12

Candidate Starts for Montavir_26:

(4, 15925), (Start: 12 @15979 has 88 MA's), (20, 16093), (Start: 25 @16159 has 33 MA's), (26, 16162), (28, 16171), (36, 16207), (46, 16258), (57, 16330), (68, 16402), (86, 16522), (88, 16525), (98, 16594), (101, 16639), (115, 16732), (118, 16741), (124, 16759), (128, 16786), (139, 16849), (141, 16861), (145, 16894), (148, 16912), (156, 16978), (157, 16981), (159, 16987), (162, 17002), (164, 17011), (166, 17023), (168, 17032), (178, 17110), (182, 17125), (195, 17242), (196, 17245), (199, 17272), (200, 17284), (209, 17338), (214, 17359), (224, 17425), (230, 17464), (243, 17557), (252, 17605), (257, 17650), (266, 17698), (270, 17740), (271, 17749), (278, 17779), (279, 17782), (281, 17794), (291, 17851), (292, 17857), (297, 17878), (298, 17881), (325, 18019), (327, 18031), (340, 18091), (349, 18148), (369, 18286), (371, 18307), (373, 18331), (377, 18376), (381, 18394), (387, 18442), (390, 18454), (397, 18496), (413, 18559), (425, 18616), (429, 18685), (435, 18721), (447, 18802), (458, 18937),

Gene: MuchMore_29 Start: 15971, Stop: 18997, Start Num: 12

Candidate Starts for MuchMore_29:

(4, 15917), (Start: 12 @15971 has 88 MA's), (20, 16085), (Start: 25 @16151 has 33 MA's), (26, 16154), (28, 16163), (36, 16199), (46, 16250), (57, 16322), (68, 16394), (86, 16514), (88, 16517), (98, 16586), (101, 16631), (115, 16724), (118, 16733), (124, 16751), (128, 16778), (139, 16841), (141, 16853), (145, 16886), (148, 16904), (156, 16970), (157, 16973), (159, 16979), (162, 16994), (164, 17003), (166, 17015), (168, 17024), (182, 17117), (195, 17234), (196, 17237), (199, 17264), (200, 17276), (209, 17330), (214, 17351), (224, 17417), (227, 17444), (243, 17549), (252, 17597), (257, 17642), (266, 17690), (270, 17732), (271, 17741), (278, 17771), (279, 17774), (281, 17786), (291, 17843), (292, 17849), (297, 17870), (298, 17873), (325, 18011), (327, 18023), (340, 18083), (350, 18143), (355, 18173), (356, 18176), (358, 18185), (369, 18278), (377, 18368), (387, 18434), (390, 18446),

(397, 18488), (413, 18551), (425, 18608), (429, 18677), (435, 18713), (447, 18794), (458, 18929),

Gene: Myxus_27 Start: 17590, Stop: 20499, Start Num: 25

Candidate Starts for Myxus_27:

(Start: 25 @17590 has 33 MA's), (27, 17602), (35, 17662), (52, 17821), (64, 17884), (71, 17947), (78, 17989), (88, 18046), (116, 18256), (118, 18262), (123, 18277), (138, 18367), (139, 18370), (141, 18382), (147, 18424), (152, 18478), (168, 18553), (171, 18574), (172, 18577), (173, 18595), (184, 18658), (193, 18724), (195, 18763), (198, 18790), (200, 18805), (205, 18835), (209, 18859), (212, 18871), (214, 18880), (224, 18946), (230, 18985), (239, 19051), (243, 19078), (246, 19105), (257, 19171), (265, 19216), (276, 19291), (284, 19336), (288, 19357), (292, 19378), (293, 19381), (297, 19399), (298, 19402), (304, 19429), (320, 19510), (327, 19552), (355, 19702), (359, 19717), (363, 19747), (368, 19798), (376, 19885), (378, 19894), (385, 19945), (397, 20008), (402, 20029), (410, 20065), (420, 20101), (421, 20107), (429, 20185), (433, 20212), (441, 20272), (450, 20341), (451, 20371), (455, 20398), (459, 20437), (462, 20479),

Gene: NaSiaTalie_26 Start: 16670, Stop: 19177, Start Num: 56

Candidate Starts for NaSiaTalie_26:

(Start: 56 @16670 has 91 MA's), (73, 16781), (82, 16838), (114, 17024), (128, 17087), (134, 17120), (136, 17126), (162, 17306), (164, 17315), (167, 17330), (168, 17336), (171, 17357), (172, 17360), (173, 17378), (183, 17438), (195, 17546), (200, 17588), (209, 17642), (214, 17663), (223, 17726), (224, 17729), (226, 17747), (230, 17768), (257, 17954), (261, 17969), (264, 17996), (271, 18053), (275, 18068), (276, 18074), (278, 18083), (280, 18089), (284, 18119), (288, 18140), (298, 18185), (299, 18191), (306, 18224), (311, 18251), (325, 18323), (327, 18335), (340, 18395), (345, 18422), (355, 18485), (363, 18530), (367, 18578), (372, 18614), (374, 18647), (395, 18710), (401, 18734), (431, 18878), (446, 18977), (453, 19064), (464, 19163),

Gene: Naji_29 Start: 16508, Stop: 19021, Start Num: 56

Candidate Starts for Naji_29:

(Start: 56 @16508 has 91 MA's), (84, 16688), (85, 16691), (127, 16934), (128, 16937), (138, 16997), (141, 17012), (144, 17042), (145, 17045), (156, 17129), (162, 17153), (167, 17177), (171, 17204), (172, 17207), (189, 17318), (195, 17393), (198, 17420), (200, 17435), (209, 17489), (214, 17510), (224, 17576), (226, 17594), (227, 17603), (241, 17702), (246, 17735), (249, 17744), (257, 17801), (261, 17816), (276, 17921), (298, 18032), (301, 18044), (302, 18050), (308, 18083), (309, 18086), (333, 18203), (355, 18332), (359, 18347), (363, 18377), (365, 18389), (367, 18425), (392, 18539), (393, 18551), (404, 18593), (442, 18800), (445, 18818), (446, 18821), (464, 19007),

Gene: NicoleTera_30 Start: 18435, Stop: 20942, Start Num: 56

Candidate Starts for NicoleTera_30:

(Start: 56 @18435 has 91 MA's), (73, 18546), (77, 18564), (82, 18603), (86, 18624), (91, 18648), (114, 18777), (120, 18801), (126, 18831), (141, 18915), (148, 18966), (155, 19023), (157, 19035), (159, 19041), (162, 19056), (164, 19065), (166, 19077), (168, 19086), (195, 19296), (198, 19323), (200, 19338), (209, 19392), (214, 19413), (224, 19479), (230, 19518), (238, 19581), (252, 19659), (257, 19704), (271, 19803), (275, 19818), (276, 19824), (278, 19833), (281, 19848), (284, 19869), (288, 19890), (289, 19893), (297, 19932), (301, 19947), (306, 19974), (311, 20001), (317, 20031), (320, 20043), (327, 20085), (340, 20145), (345, 20172), (355, 20235), (365, 20292), (367, 20328), (374, 20397), (390, 20430), (404, 20499), (408, 20508), (410, 20517), (430, 20628), (434, 20658), (446, 20742),

Gene: Noella_26 Start: 16044, Stop: 19082, Start Num: 11

Candidate Starts for Noella_26:

(Start: 11 @16044 has 33 MA's), (24, 16218), (26, 16230), (30, 16263), (68, 16470), (70, 16491), (86, 16590), (88, 16593), (115, 16803), (122, 16824), (128, 16857), (139, 16920), (141, 16932), (145, 16965), (148, 16983), (150, 17004), (157, 17052), (159, 17058), (162, 17073), (164, 17082), (166,

17094), (168, 17103), (182, 17196), (195, 17313), (196, 17316), (199, 17343), (200, 17355), (209, 17409), (214, 17430), (224, 17496), (230, 17535), (252, 17676), (257, 17721), (270, 17811), (271, 17820), (278, 17850), (288, 17907), (291, 17922), (297, 17949), (298, 17952), (302, 17970), (324, 18081), (340, 18162), (349, 18219), (357, 18261), (369, 18357), (371, 18378), (373, 18402), (377, 18447), (381, 18465), (387, 18513), (390, 18525), (397, 18567), (399, 18579), (412, 18627), (435, 18798), (443, 18858), (445, 18870), (449, 18897), (450, 18918), (458, 19014), (461, 19062),

Gene: Norbert_25 Start: 16043, Stop: 19081, Start Num: 11

Candidate Starts for Norbert_25:

(Start: 11 @16043 has 33 MA's), (24, 16217), (26, 16229), (30, 16262), (68, 16469), (70, 16490), (86, 16589), (88, 16592), (115, 16802), (122, 16823), (128, 16856), (139, 16919), (141, 16931), (145, 16964), (148, 16982), (150, 17003), (157, 17051), (159, 17057), (162, 17072), (164, 17081), (166, 17093), (168, 17102), (182, 17195), (195, 17312), (196, 17315), (199, 17342), (200, 17354), (209, 17408), (214, 17429), (224, 17495), (230, 17534), (252, 17675), (257, 17720), (270, 17810), (271, 17819), (278, 17849), (288, 17906), (291, 17921), (297, 17948), (298, 17951), (302, 17969), (324, 18080), (340, 18161), (349, 18218), (357, 18260), (369, 18356), (371, 18377), (373, 18401), (377, 18446), (381, 18464), (387, 18512), (390, 18524), (397, 18566), (399, 18578), (412, 18626), (435, 18797), (443, 18857), (445, 18869), (449, 18896), (450, 18917), (458, 19013), (461, 19061),

Gene: NothingSpecial_28 Start: 18636, Stop: 21167, Start Num: 56

Candidate Starts for NothingSpecial_28:

(Start: 56 @18636 has 91 MA's), (84, 18816), (85, 18819), (109, 18987), (114, 19014), (118, 19029), (125, 19062), (128, 19074), (138, 19134), (141, 19149), (152, 19245), (154, 19248), (168, 19320), (171, 19341), (172, 19344), (191, 19485), (195, 19530), (198, 19557), (200, 19572), (209, 19626), (214, 19647), (224, 19713), (230, 19752), (259, 19947), (262, 19965), (265, 19983), (284, 20103), (287, 20118), (292, 20145), (293, 20148), (298, 20169), (350, 20439), (351, 20442), (355, 20469), (359, 20484), (363, 20514), (367, 20562), (373, 20610), (390, 20664), (410, 20748), (420, 20772), (434, 20889), (446, 20967),

Gene: Odin_25 Start: 15403, Stop: 17928, Start Num: 54

Candidate Starts for Odin_25:

(Start: 54 @15403 has 1 MA's), (59, 15421), (73, 15526), (83, 15592), (84, 15595), (85, 15598), (118, 15802), (128, 15847), (141, 15922), (147, 15964), (148, 15973), (152, 16018), (157, 16039), (164, 16072), (168, 16093), (171, 16114), (172, 16117), (195, 16303), (198, 16330), (200, 16345), (209, 16399), (214, 16420), (224, 16486), (261, 16726), (264, 16753), (271, 16810), (276, 16831), (282, 16858), (284, 16876), (297, 16939), (298, 16942), (306, 16981), (325, 17080), (340, 17152), (345, 17179), (349, 17209), (355, 17242), (373, 17383), (392, 17449), (408, 17512), (442, 17710), (446, 17731), (451, 17806), (457, 17842),

Gene: OlanP_27 Start: 16237, Stop: 19263, Start Num: 12

Candidate Starts for OlanP_27:

(4, 16183), (Start: 12 @16237 has 88 MA's), (20, 16351), (Start: 25 @16417 has 33 MA's), (26, 16420), (28, 16429), (36, 16465), (46, 16516), (57, 16588), (68, 16660), (86, 16780), (88, 16783), (98, 16852), (101, 16897), (115, 16990), (118, 16999), (128, 17044), (136, 17083), (139, 17107), (141, 17119), (145, 17152), (148, 17170), (150, 17191), (157, 17239), (159, 17245), (162, 17260), (164, 17269), (166, 17281), (168, 17290), (182, 17383), (194, 17470), (195, 17500), (196, 17503), (199, 17530), (200, 17542), (209, 17596), (214, 17617), (218, 17647), (224, 17683), (232, 17734), (241, 17809), (252, 17863), (257, 17908), (266, 17956), (270, 17998), (271, 18007), (278, 18037), (291, 18109), (292, 18115), (297, 18136), (298, 18139), (301, 18151), (323, 18265), (324, 18268), (340, 18349), (350, 18409), (355, 18439), (356, 18442), (358, 18451), (377, 18634), (387, 18700), (390, 18712), (397, 18754), (413, 18817), (425, 18874), (429, 18943), (435, 18979), (447, 19060), (458, 19195), (459, 19207),

Gene: Ollie_27 Start: 15849, Stop: 18875, Start Num: 12

Candidate Starts for Ollie_27:

(4, 15795), (Start: 12 @15849 has 88 MA's), (20, 15963), (Start: 25 @16029 has 33 MA's), (26, 16032), (28, 16041), (36, 16077), (46, 16128), (57, 16200), (68, 16272), (86, 16392), (88, 16395), (98, 16464), (101, 16509), (115, 16602), (118, 16611), (124, 16629), (128, 16656), (139, 16719), (141, 16731), (145, 16764), (148, 16782), (156, 16848), (157, 16851), (159, 16857), (162, 16872), (164, 16881), (166, 16893), (168, 16902), (178, 16980), (182, 16995), (195, 17112), (196, 17115), (199, 17142), (200, 17154), (209, 17208), (214, 17229), (224, 17295), (230, 17334), (243, 17427), (252, 17475), (257, 17520), (266, 17568), (270, 17610), (271, 17619), (278, 17649), (279, 17652), (281, 17664), (287, 17700), (291, 17721), (292, 17727), (297, 17748), (298, 17751), (325, 17889), (327, 17901), (340, 17961), (348, 18000), (369, 18156), (371, 18177), (373, 18201), (377, 18246), (381, 18264), (387, 18312), (390, 18324), (397, 18366), (413, 18429), (425, 18486), (429, 18555), (435, 18591), (447, 18672), (458, 18807),

Gene: Onglai_26 Start: 15924, Stop: 18833, Start Num: 25

Candidate Starts for Onglai_26:

(Start: 25 @15924 has 33 MA's), (27, 15936), (35, 15996), (52, 16155), (64, 16218), (71, 16281), (78, 16323), (88, 16380), (95, 16419), (116, 16590), (118, 16596), (123, 16611), (138, 16701), (139, 16704), (141, 16716), (147, 16758), (152, 16812), (168, 16887), (171, 16908), (172, 16911), (173, 16929), (184, 16992), (193, 17058), (195, 17097), (198, 17124), (200, 17139), (205, 17169), (209, 17193), (214, 17214), (224, 17280), (230, 17319), (239, 17385), (243, 17412), (246, 17439), (257, 17505), (265, 17550), (276, 17625), (284, 17670), (288, 17691), (292, 17712), (293, 17715), (297, 17733), (298, 17736), (304, 17763), (320, 17844), (355, 18036), (359, 18051), (363, 18081), (368, 18132), (376, 18219), (378, 18228), (385, 18279), (397, 18342), (402, 18363), (410, 18399), (420, 18435), (421, 18441), (429, 18519), (433, 18546), (441, 18606), (450, 18675), (451, 18705), (455, 18732), (459, 18771), (462, 18813),

Gene: P28Green_27 Start: 15980, Stop: 19006, Start Num: 12

Candidate Starts for P28Green_27:

(4, 15926), (Start: 12 @15980 has 88 MA's), (20, 16094), (Start: 25 @16160 has 33 MA's), (26, 16163), (28, 16172), (36, 16208), (46, 16259), (57, 16331), (68, 16403), (86, 16523), (88, 16526), (98, 16595), (101, 16640), (115, 16733), (118, 16742), (124, 16760), (128, 16787), (139, 16850), (141, 16862), (145, 16895), (148, 16913), (156, 16979), (157, 16982), (159, 16988), (162, 17003), (164, 17012), (166, 17024), (168, 17033), (182, 17126), (195, 17243), (196, 17246), (199, 17273), (200, 17285), (209, 17339), (214, 17360), (224, 17426), (227, 17453), (230, 17465), (243, 17558), (252, 17606), (257, 17651), (266, 17699), (270, 17741), (271, 17750), (278, 17780), (279, 17783), (281, 17795), (291, 17852), (292, 17858), (297, 17879), (298, 17882), (325, 18020), (340, 18092), (350, 18152), (355, 18182), (356, 18185), (358, 18194), (377, 18377), (387, 18443), (390, 18455), (397, 18497), (413, 18560), (425, 18617), (429, 18686), (435, 18722), (447, 18803), (458, 18938), (459, 18950),

Gene: PGHhamlin_29 Start: 15971, Stop: 18997, Start Num: 12

Candidate Starts for PGHhamlin_29:

(4, 15917), (Start: 12 @15971 has 88 MA's), (20, 16085), (Start: 25 @16151 has 33 MA's), (26, 16154), (28, 16163), (36, 16199), (46, 16250), (57, 16322), (68, 16394), (86, 16514), (88, 16517), (98, 16586), (101, 16631), (115, 16724), (118, 16733), (124, 16751), (128, 16778), (139, 16841), (141, 16853), (145, 16886), (148, 16904), (156, 16970), (157, 16973), (159, 16979), (162, 16994), (164, 17003), (166, 17015), (168, 17024), (182, 17117), (195, 17234), (196, 17237), (199, 17264), (200, 17276), (209, 17330), (214, 17351), (224, 17417), (227, 17444), (243, 17549), (252, 17597), (257, 17642), (266, 17690), (270, 17732), (271, 17741), (278, 17771), (279, 17774), (281, 17786), (291, 17843), (292, 17849), (297, 17870), (298, 17873), (325, 18011), (327, 18023), (340, 18083), (350, 18143), (355, 18173), (356, 18176), (358, 18185), (369, 18278), (377, 18368), (387, 18434), (390, 18446), (397, 18488), (413, 18551), (425, 18608), (429, 18677), (435, 18713), (447, 18794), (458, 18929),

Gene: PackMan_27 Start: 17590, Stop: 20499, Start Num: 25

Candidate Starts for PackMan_27:

(Start: 25 @17590 has 33 MA's), (27, 17602), (35, 17662), (52, 17821), (64, 17884), (71, 17947), (78, 17989), (88, 18046), (116, 18256), (118, 18262), (123, 18277), (138, 18367), (139, 18370), (141, 18382), (147, 18424), (152, 18478), (168, 18553), (171, 18574), (172, 18577), (173, 18595), (184, 18658), (193, 18724), (195, 18763), (198, 18790), (200, 18805), (205, 18835), (209, 18859), (212, 18871), (214, 18880), (224, 18946), (230, 18985), (239, 19051), (243, 19078), (246, 19105), (257, 19171), (265, 19216), (276, 19291), (284, 19336), (288, 19357), (292, 19378), (293, 19381), (297, 19399), (298, 19402), (304, 19429), (320, 19510), (327, 19552), (355, 19702), (359, 19717), (363, 19747), (368, 19798), (376, 19885), (378, 19894), (385, 19945), (397, 20008), (402, 20029), (410, 20065), (420, 20101), (421, 20107), (429, 20185), (433, 20212), (441, 20272), (450, 20341), (451, 20371), (455, 20398), (459, 20437), (462, 20479),

Gene: Panamaxus_25 Start: 16043, Stop: 19081, Start Num: 11

Candidate Starts for Panamaxus_25:

(Start: 11 @16043 has 33 MA's), (24, 16217), (26, 16229), (30, 16262), (68, 16469), (70, 16490), (86, 16589), (88, 16592), (115, 16802), (122, 16823), (128, 16856), (139, 16919), (141, 16931), (145, 16964), (148, 16982), (150, 17003), (157, 17051), (159, 17057), (162, 17072), (164, 17081), (166, 17093), (168, 17102), (182, 17195), (195, 17312), (196, 17315), (199, 17342), (200, 17354), (209, 17408), (214, 17429), (224, 17495), (230, 17534), (252, 17675), (257, 17720), (270, 17810), (271, 17819), (278, 17849), (288, 17906), (291, 17921), (297, 17948), (298, 17951), (302, 17969), (324, 18080), (340, 18161), (349, 18218), (357, 18260), (369, 18356), (371, 18377), (373, 18401), (377, 18446), (381, 18464), (387, 18512), (390, 18524), (397, 18566), (399, 18578), (412, 18626), (435, 18797), (443, 18857), (445, 18869), (449, 18896), (450, 18917), (458, 19013), (461, 19061),

Gene: Pawn_27 Start: 16057, Stop: 19083, Start Num: 12

Candidate Starts for Pawn_27:

(4, 16003), (Start: 12 @16057 has 88 MA's), (20, 16171), (Start: 25 @16237 has 33 MA's), (26, 16240), (28, 16249), (36, 16285), (46, 16336), (57, 16408), (68, 16480), (86, 16600), (88, 16603), (98, 16672), (101, 16717), (115, 16810), (118, 16819), (128, 16864), (136, 16903), (139, 16927), (141, 16939), (145, 16972), (148, 16990), (150, 17011), (157, 17059), (159, 17065), (162, 17080), (164, 17089), (166, 17101), (168, 17110), (182, 17203), (194, 17290), (195, 17320), (196, 17323), (199, 17350), (200, 17362), (209, 17416), (214, 17437), (218, 17467), (224, 17503), (241, 17629), (252, 17683), (257, 17728), (266, 17776), (270, 17818), (271, 17827), (278, 17857), (291, 17929), (292, 17935), (297, 17956), (298, 17959), (301, 17971), (324, 18088), (325, 18097), (340, 18169), (341, 18172), (348, 18208), (355, 18259), (356, 18262), (358, 18271), (377, 18454), (387, 18520), (390, 18532), (397, 18574), (413, 18637), (425, 18694), (429, 18763), (435, 18799), (447, 18880), (458, 19015), (459, 19027),

Gene: Pembroke_27 Start: 15980, Stop: 19006, Start Num: 12

Candidate Starts for Pembroke_27:

(4, 15926), (Start: 12 @15980 has 88 MA's), (20, 16094), (Start: 25 @16160 has 33 MA's), (26, 16163), (28, 16172), (36, 16208), (46, 16259), (57, 16331), (68, 16403), (86, 16523), (88, 16526), (98, 16595), (101, 16640), (115, 16733), (118, 16742), (124, 16760), (128, 16787), (139, 16850), (141, 16862), (145, 16895), (148, 16913), (156, 16979), (157, 16982), (159, 16988), (162, 17003), (164, 17012), (166, 17024), (168, 17033), (182, 17126), (195, 17243), (196, 17246), (199, 17273), (200, 17285), (209, 17339), (214, 17360), (224, 17426), (227, 17453), (243, 17558), (252, 17606), (257, 17651), (266, 17699), (270, 17741), (271, 17750), (278, 17780), (279, 17783), (281, 17795), (291, 17852), (292, 17858), (297, 17879), (298, 17882), (325, 18020), (327, 18032), (340, 18092), (350, 18152), (355, 18182), (356, 18185), (358, 18194), (369, 18287), (377, 18377), (387, 18443), (390, 18455), (397, 18497), (413, 18560), (425, 18617), (429, 18686), (435, 18722), (447, 18803), (458, 18938),

Gene: Penny1_27 Start: 15979, Stop: 19005, Start Num: 12

Candidate Starts for Penny1_27:

(4, 15925), (Start: 12 @15979 has 88 MA's), (20, 16093), (Start: 25 @16159 has 33 MA's), (26, 16162), (28, 16171), (36, 16207), (46, 16258), (57, 16330), (68, 16402), (86, 16522), (88, 16525), (98, 16594), (101, 16639), (115, 16732), (118, 16741), (124, 16759), (128, 16786), (139, 16849), (141, 16861), (145, 16894), (148, 16912), (156, 16978), (157, 16981), (159, 16987), (162, 17002), (164, 17011), (166, 17023), (168, 17032), (178, 17110), (182, 17125), (195, 17242), (196, 17245), (199, 17272), (200, 17284), (209, 17338), (214, 17359), (224, 17425), (230, 17464), (243, 17557), (252, 17605), (257, 17650), (266, 17698), (270, 17740), (271, 17749), (278, 17779), (279, 17782), (281, 17794), (291, 17851), (292, 17857), (297, 17878), (298, 17881), (325, 18019), (327, 18031), (340, 18091), (349, 18148), (369, 18286), (371, 18307), (373, 18331), (377, 18376), (381, 18394), (387, 18442), (390, 18454), (397, 18496), (413, 18559), (425, 18616), (429, 18685), (435, 18721), (447, 18802), (458, 18937),

Gene: Ph8s_27 Start: 15361, Stop: 17886, Start Num: 55

Candidate Starts for Ph8s_27:

(Start: 55 @15361 has 5 MA's), (59, 15379), (73, 15484), (83, 15550), (84, 15553), (85, 15556), (91, 15586), (128, 15805), (135, 15841), (141, 15880), (148, 15931), (152, 15976), (157, 15997), (164, 16030), (167, 16045), (168, 16051), (171, 16072), (195, 16261), (198, 16288), (200, 16303), (209, 16357), (214, 16378), (224, 16444), (257, 16669), (261, 16684), (264, 16711), (267, 16726), (274, 16780), (276, 16789), (282, 16816), (284, 16834), (291, 16870), (297, 16897), (298, 16900), (306, 16939), (308, 16951), (325, 17038), (340, 17110), (345, 17137), (355, 17200), (363, 17245), (392, 17407), (408, 17470), (431, 17596), (442, 17668), (445, 17686), (446, 17689), (451, 17764), (457, 17800),

Gene: Phaeder_27 Start: 17590, Stop: 20499, Start Num: 25

Candidate Starts for Phaeder_27:

(Start: 25 @17590 has 33 MA's), (27, 17602), (35, 17662), (52, 17821), (64, 17884), (71, 17947), (78, 17989), (88, 18046), (116, 18256), (118, 18262), (123, 18277), (138, 18367), (139, 18370), (141, 18382), (147, 18424), (152, 18478), (168, 18553), (171, 18574), (172, 18577), (173, 18595), (184, 18658), (193, 18724), (195, 18763), (198, 18790), (200, 18805), (205, 18835), (209, 18859), (212, 18871), (214, 18880), (224, 18946), (230, 18985), (239, 19051), (243, 19078), (246, 19105), (257, 19171), (265, 19216), (276, 19291), (284, 19336), (288, 19357), (292, 19378), (293, 19381), (297, 19399), (298, 19402), (304, 19429), (320, 19510), (327, 19552), (355, 19702), (359, 19717), (363, 19747), (368, 19798), (376, 19885), (378, 19894), (385, 19945), (397, 20008), (402, 20029), (410, 20065), (420, 20101), (421, 20107), (429, 20185), (433, 20212), (441, 20272), (450, 20341), (451, 20371), (455, 20398), (459, 20437), (462, 20479),

Gene: Phantastic_25 Start: 15463, Stop: 18498, Start Num: 11

Candidate Starts for Phantastic_25:

(Start: 11 @15463 has 33 MA's), (24, 15637), (26, 15649), (30, 15682), (68, 15892), (80, 15979), (86, 16012), (88, 16015), (115, 16219), (118, 16228), (122, 16240), (128, 16273), (137, 16327), (139, 16336), (141, 16348), (145, 16381), (148, 16399), (149, 16411), (161, 16477), (166, 16510), (168, 16519), (182, 16612), (195, 16729), (200, 16771), (209, 16825), (214, 16846), (224, 16912), (252, 17092), (261, 17152), (265, 17182), (270, 17227), (271, 17236), (278, 17266), (281, 17281), (284, 17302), (291, 17338), (297, 17365), (298, 17368), (303, 17389), (314, 17452), (327, 17518), (340, 17578), (348, 17617), (350, 17638), (355, 17668), (356, 17671), (358, 17680), (362, 17704), (369, 17773), (371, 17794), (377, 17863), (381, 17881), (387, 17929), (390, 17941), (397, 17983), (399, 17995), (412, 18043), (413, 18046), (435, 18214), (443, 18274), (445, 18286), (447, 18295), (458, 18430), (461, 18478),

Gene: Pharaoh_26 Start: 17176, Stop: 20193, Start Num: 12

Candidate Starts for Pharaoh_26:

(7, 17146), (Start: 12 @17176 has 88 MA's), (Start: 25 @17353 has 33 MA's), (26, 17356), (27, 17365), (42, 17500), (58, 17596), (64, 17647), (71, 17710), (78, 17752), (86, 17806), (88, 17809), (104, 17938), (116, 18025), (123, 18046), (126, 18067), (137, 18130), (138, 18136), (141, 18151), (144, 18181), (147, 18193), (148, 18202), (151, 18238), (157, 18271), (168, 18322), (171, 18343), (172, 18346), (195, 18532), (200, 18574), (203, 18592), (209, 18628), (214, 18649), (224, 18715), (226, 18733), (227, 18742), (230, 18754), (234, 18787), (238, 18817), (245, 18865), (257, 18940), (276, 19060), (282, 19087), (284, 19105), (287, 19120), (291, 19141), (297, 19168), (303, 19192), (314, 19255), (346, 19408), (348, 19420), (355, 19471), (363, 19516), (373, 19612), (395, 19741), (397, 19750), (422, 19831), (431, 19903), (446, 19990), (451, 20065), (455, 20092), (459, 20131),

Gene: PhishRPhriends_26 Start: 15241, Stop: 18267, Start Num: 12

Candidate Starts for PhishRPhriends_26:

(4, 15187), (Start: 12 @15241 has 88 MA's), (20, 15355), (Start: 25 @15421 has 33 MA's), (26, 15424), (28, 15433), (36, 15469), (46, 15520), (57, 15592), (68, 15664), (86, 15784), (88, 15787), (98, 15856), (101, 15901), (115, 15994), (118, 16003), (128, 16048), (136, 16087), (139, 16111), (141, 16123), (145, 16156), (148, 16174), (150, 16195), (157, 16243), (159, 16249), (162, 16264), (164, 16273), (166, 16285), (168, 16294), (182, 16387), (194, 16474), (195, 16504), (196, 16507), (199, 16534), (200, 16546), (209, 16600), (214, 16621), (218, 16651), (224, 16687), (241, 16813), (252, 16867), (257, 16912), (265, 16957), (266, 16960), (270, 17002), (271, 17011), (278, 17041), (291, 17113), (292, 17119), (297, 17140), (298, 17143), (301, 17155), (324, 17272), (325, 17281), (340, 17353), (341, 17356), (348, 17392), (355, 17443), (356, 17446), (358, 17455), (377, 17638), (387, 17704), (390, 17716), (397, 17758), (413, 17821), (425, 17878), (429, 17947), (435, 17983), (447, 18064), (458, 18199), (459, 18211),

Gene: Phoebe_27 Start: 15977, Stop: 19003, Start Num: 12

Candidate Starts for Phoebe_27:

(4, 15923), (Start: 12 @15977 has 88 MA's), (20, 16091), (Start: 25 @16157 has 33 MA's), (26, 16160), (28, 16169), (36, 16205), (46, 16256), (57, 16328), (68, 16400), (86, 16520), (88, 16523), (98, 16592), (101, 16637), (115, 16730), (118, 16739), (124, 16757), (128, 16784), (139, 16847), (141, 16859), (145, 16892), (148, 16910), (156, 16976), (157, 16979), (159, 16985), (162, 17000), (164, 17009), (166, 17021), (168, 17030), (182, 17123), (195, 17240), (196, 17243), (199, 17270), (200, 17282), (209, 17336), (214, 17357), (224, 17423), (227, 17450), (243, 17555), (252, 17603), (257, 17648), (266, 17696), (270, 17738), (271, 17747), (278, 17777), (279, 17780), (281, 17792), (291, 17849), (292, 17855), (297, 17876), (298, 17879), (325, 18017), (327, 18029), (340, 18089), (350, 18149), (355, 18179), (356, 18182), (358, 18191), (369, 18284), (377, 18374), (387, 18440), (390, 18452), (397, 18494), (413, 18557), (425, 18614), (429, 18683), (435, 18719), (447, 18800), (458, 18935),

Gene: Phonnegut_27 Start: 17623, Stop: 20532, Start Num: 25

Candidate Starts for Phonnegut_27:

(Start: 25 @17623 has 33 MA's), (27, 17635), (35, 17695), (52, 17854), (64, 17917), (71, 17980), (78, 18022), (88, 18079), (95, 18118), (116, 18289), (118, 18295), (123, 18310), (138, 18400), (139, 18403), (141, 18415), (147, 18457), (152, 18511), (168, 18586), (171, 18607), (172, 18610), (173, 18628), (184, 18691), (193, 18757), (195, 18796), (198, 18823), (200, 18838), (205, 18868), (209, 18892), (212, 18904), (214, 18913), (224, 18979), (230, 19018), (239, 19084), (243, 19111), (246, 19138), (265, 19249), (276, 19324), (284, 19369), (288, 19390), (292, 19411), (293, 19414), (297, 19432), (298, 19435), (304, 19462), (309, 19489), (320, 19543), (355, 19735), (359, 19750), (363, 19780), (368, 19831), (376, 19918), (378, 19927), (385, 19978), (397, 20041), (402, 20062), (410, 20098), (420, 20134), (421, 20140), (429, 20218), (433, 20245), (441, 20305), (450, 20374), (451, 20404), (455, 20431), (459, 20470), (462, 20512),

Gene: Phoxy_27 Start: 16063, Stop: 19089, Start Num: 12

Candidate Starts for Phoxy_27:

(4, 16009), (Start: 12 @16063 has 88 MA's), (20, 16177), (Start: 25 @16243 has 33 MA's), (26, 16246), (28, 16255), (36, 16291), (46, 16342), (57, 16414), (68, 16486), (86, 16606), (88, 16609), (98, 16678), (101, 16723), (115, 16816), (118, 16825), (124, 16843), (128, 16870), (139, 16933), (141, 16945), (145, 16978), (148, 16996), (156, 17062), (157, 17065), (159, 17071), (162, 17086), (164, 17095), (166, 17107), (168, 17116), (178, 17194), (182, 17209), (195, 17326), (196, 17329), (199, 17356), (200, 17368), (209, 17422), (214, 17443), (224, 17509), (230, 17548), (243, 17641), (252, 17689), (257, 17734), (270, 17824), (271, 17833), (278, 17863), (288, 17920), (291, 17935), (297, 17962), (298, 17965), (325, 18103), (327, 18115), (340, 18175), (349, 18232), (369, 18370), (371, 18391), (373, 18415), (377, 18460), (381, 18478), (387, 18526), (390, 18538), (397, 18580), (413, 18643), (425, 18700), (429, 18769), (435, 18805), (447, 18886), (458, 19021),

Gene: Phranny_28 Start: 16049, Stop: 19075, Start Num: 12

Candidate Starts for Phranny_28:

(4, 15995), (Start: 12 @16049 has 88 MA's), (20, 16163), (Start: 25 @16229 has 33 MA's), (26, 16232), (28, 16241), (36, 16277), (46, 16328), (57, 16400), (68, 16472), (86, 16592), (88, 16595), (98, 16664), (101, 16709), (115, 16802), (118, 16811), (128, 16856), (136, 16895), (139, 16919), (141, 16931), (145, 16964), (148, 16982), (150, 17003), (157, 17051), (159, 17057), (162, 17072), (164, 17081), (166, 17093), (168, 17102), (182, 17195), (194, 17282), (195, 17312), (196, 17315), (199, 17342), (200, 17354), (209, 17408), (214, 17429), (218, 17459), (224, 17495), (241, 17621), (252, 17675), (257, 17720), (266, 17768), (270, 17810), (271, 17819), (278, 17849), (291, 17921), (292, 17927), (297, 17948), (298, 17951), (301, 17963), (324, 18080), (325, 18089), (340, 18161), (341, 18164), (348, 18200), (355, 18251), (356, 18254), (358, 18263), (377, 18446), (387, 18512), (390, 18524), (397, 18566), (413, 18629), (425, 18686), (429, 18755), (435, 18791), (447, 18872), (458, 19007), (459, 19019),

Gene: Pioneer_27 Start: 17623, Stop: 20532, Start Num: 25

Candidate Starts for Pioneer_27:

(Start: 25 @17623 has 33 MA's), (27, 17635), (35, 17695), (52, 17854), (64, 17917), (71, 17980), (78, 18022), (88, 18079), (95, 18118), (116, 18289), (118, 18295), (123, 18310), (138, 18400), (139, 18403), (141, 18415), (147, 18457), (152, 18511), (168, 18586), (171, 18607), (172, 18610), (173, 18628), (184, 18691), (193, 18757), (195, 18796), (198, 18823), (200, 18838), (205, 18868), (209, 18892), (212, 18904), (214, 18913), (224, 18979), (230, 19018), (239, 19084), (243, 19111), (246, 19138), (265, 19249), (276, 19324), (284, 19369), (288, 19390), (292, 19411), (293, 19414), (297, 19432), (298, 19435), (304, 19462), (309, 19489), (320, 19543), (355, 19735), (359, 19750), (363, 19780), (368, 19831), (376, 19918), (378, 19927), (385, 19978), (397, 20041), (402, 20062), (410, 20098), (420, 20134), (421, 20140), (429, 20218), (433, 20245), (441, 20305), (450, 20374), (451, 20404), (455, 20431), (459, 20470), (462, 20512),

Gene: Piro94_27 Start: 17131, Stop: 19638, Start Num: 56

Candidate Starts for Piro94_27:

(Start: 56 @17131 has 91 MA's), (73, 17242), (82, 17299), (114, 17485), (128, 17548), (134, 17581), (136, 17587), (162, 17767), (164, 17776), (167, 17791), (168, 17797), (171, 17818), (172, 17821), (173, 17839), (183, 17899), (195, 18007), (200, 18049), (201, 18058), (203, 18067), (209, 18103), (214, 18124), (223, 18187), (224, 18190), (226, 18208), (230, 18229), (257, 18415), (261, 18430), (264, 18457), (271, 18514), (275, 18529), (276, 18535), (278, 18544), (280, 18550), (284, 18580), (288, 18601), (298, 18646), (299, 18652), (306, 18685), (311, 18712), (325, 18784), (327, 18796), (340, 18856), (345, 18883), (355, 18946), (363, 18991), (367, 19039), (372, 19075), (374, 19108), (395, 19171), (401, 19195), (431, 19339), (446, 19438), (453, 19525), (464, 19624),

Gene: Pistachio_26 Start: 15042, Stop: 18077, Start Num: 11

Candidate Starts for Pistachio_26:

(Start: 11 @15042 has 33 MA's), (24, 15216), (26, 15228), (30, 15261), (68, 15471), (86, 15591), (88, 15594), (115, 15798), (122, 15819), (127, 15849), (128, 15852), (139, 15915), (141, 15927), (145,

15960), (148, 15978), (157, 16047), (159, 16053), (162, 16068), (164, 16077), (166, 16089), (168, 16098), (182, 16191), (195, 16308), (196, 16311), (198, 16335), (199, 16338), (200, 16350), (209, 16404), (214, 16425), (216, 16446), (224, 16491), (227, 16518), (230, 16530), (252, 16671), (257, 16716), (261, 16731), (270, 16806), (271, 16815), (278, 16845), (281, 16860), (282, 16863), (284, 16881), (288, 16902), (289, 16905), (297, 16944), (298, 16947), (314, 17031), (327, 17097), (333, 17118), (340, 17157), (348, 17196), (350, 17217), (355, 17247), (356, 17250), (358, 17259), (362, 17283), (369, 17352), (371, 17373), (377, 17442), (381, 17460), (387, 17508), (390, 17520), (397, 17562), (399, 17574), (412, 17622), (435, 17793), (437, 17823), (443, 17853), (447, 17874), (458, 18009), (461, 18057),

Gene: Pocahontas_26 Start: 16040, Stop: 19078, Start Num: 11

Candidate Starts for Pocahontas_26:

(Start: 11 @16040 has 33 MA's), (24, 16214), (26, 16226), (30, 16259), (68, 16466), (70, 16487), (86, 16586), (88, 16589), (115, 16799), (122, 16820), (128, 16853), (139, 16916), (141, 16928), (145, 16961), (148, 16979), (150, 17000), (157, 17048), (159, 17054), (162, 17069), (164, 17078), (166, 17090), (168, 17099), (182, 17192), (195, 17309), (196, 17312), (199, 17339), (200, 17351), (209, 17405), (214, 17426), (224, 17492), (230, 17531), (252, 17672), (257, 17717), (270, 17807), (271, 17816), (278, 17846), (288, 17903), (291, 17918), (297, 17945), (298, 17948), (302, 17966), (324, 18077), (340, 18158), (349, 18215), (357, 18257), (369, 18353), (371, 18374), (373, 18398), (377, 18443), (381, 18461), (387, 18509), (390, 18521), (397, 18563), (399, 18575), (412, 18623), (435, 18794), (443, 18854), (445, 18866), (449, 18893), (450, 18914), (458, 19010), (461, 19058),

Gene: Pomar16_29 Start: 16549, Stop: 19062, Start Num: 56

Candidate Starts for Pomar16_29:

(Start: 56 @16549 has 91 MA's), (84, 16729), (85, 16732), (128, 16978), (138, 17038), (141, 17053), (144, 17083), (145, 17086), (156, 17170), (162, 17194), (167, 17218), (171, 17245), (172, 17248), (188, 17353), (195, 17434), (198, 17461), (200, 17476), (209, 17530), (214, 17551), (224, 17617), (226, 17635), (227, 17644), (241, 17743), (246, 17776), (249, 17785), (257, 17842), (261, 17857), (276, 17962), (281, 17986), (298, 18073), (301, 18085), (302, 18091), (308, 18124), (320, 18181), (333, 18244), (355, 18373), (359, 18388), (363, 18418), (365, 18430), (367, 18466), (392, 18580), (393, 18592), (404, 18634), (442, 18841), (445, 18859), (446, 18862), (464, 19048),

Gene: Popcicle_26 Start: 16040, Stop: 19078, Start Num: 11

Candidate Starts for Popcicle_26:

(Start: 11 @16040 has 33 MA's), (24, 16214), (26, 16226), (30, 16259), (68, 16466), (70, 16487), (86, 16586), (88, 16589), (115, 16799), (122, 16820), (128, 16853), (139, 16916), (141, 16928), (145, 16961), (148, 16979), (150, 17000), (157, 17048), (159, 17054), (162, 17069), (164, 17078), (166, 17090), (168, 17099), (182, 17192), (195, 17309), (196, 17312), (199, 17339), (200, 17351), (209, 17405), (214, 17426), (224, 17492), (230, 17531), (252, 17672), (257, 17717), (270, 17807), (271, 17816), (278, 17846), (288, 17903), (291, 17918), (297, 17945), (298, 17948), (302, 17966), (324, 18077), (340, 18158), (349, 18215), (357, 18257), (369, 18353), (371, 18374), (373, 18398), (377, 18443), (381, 18461), (387, 18509), (390, 18521), (397, 18563), (399, 18575), (412, 18623), (435, 18794), (443, 18854), (445, 18866), (449, 18893), (450, 18914), (458, 19010), (461, 19058),

Gene: PotatoSplit_28 Start: 15979, Stop: 19005, Start Num: 12

Candidate Starts for PotatoSplit_28:

(4, 15925), (Start: 12 @15979 has 88 MA's), (20, 16093), (Start: 25 @16159 has 33 MA's), (26, 16162), (28, 16171), (36, 16207), (46, 16258), (57, 16330), (68, 16402), (86, 16522), (88, 16525), (98, 16594), (101, 16639), (115, 16732), (118, 16741), (124, 16759), (128, 16786), (139, 16849), (141, 16861), (145, 16894), (148, 16912), (156, 16978), (157, 16981), (159, 16987), (162, 17002), (164, 17011), (166, 17023), (168, 17032), (178, 17110), (182, 17125), (195, 17242), (196, 17245), (199, 17272), (200, 17284), (209, 17338), (214, 17359), (224, 17425), (230, 17464), (243, 17557), (252, 17605), (257, 17650), (266, 17698), (270, 17740), (271, 17749), (278, 17779), (279, 17782), (281, 17794),

(291, 17851), (292, 17857), (297, 17878), (298, 17881), (325, 18019), (327, 18031), (340, 18091), (349, 18148), (369, 18286), (371, 18307), (373, 18331), (377, 18376), (381, 18394), (387, 18442), (390, 18454), (397, 18496), (413, 18559), (425, 18616), (429, 18685), (435, 18721), (447, 18802), (458, 18937),

Gene: Power_26 Start: 16547, Stop: 19084, Start Num: 56

Candidate Starts for Power_26:

(Start: 56 @16547 has 91 MA's), (83, 16724), (84, 16727), (85, 16730), (91, 16760), (111, 16898), (114, 16919), (115, 16928), (122, 16949), (128, 16982), (138, 17042), (141, 17057), (148, 17108), (154, 17156), (156, 17174), (164, 17207), (166, 17219), (167, 17222), (168, 17228), (171, 17249), (172, 17252), (185, 17339), (195, 17438), (200, 17480), (201, 17489), (203, 17498), (212, 17546), (214, 17555), (224, 17621), (230, 17660), (257, 17846), (261, 17861), (266, 17894), (271, 17945), (276, 17966), (280, 17981), (281, 17990), (283, 18005), (297, 18074), (327, 18227), (355, 18377), (363, 18422), (365, 18434), (367, 18470), (408, 18650), (410, 18659), (430, 18770), (434, 18800), (446, 18884),

Gene: Priya_27 Start: 17621, Stop: 20530, Start Num: 25

Candidate Starts for Priya_27:

(Start: 25 @17621 has 33 MA's), (27, 17633), (35, 17693), (64, 17915), (71, 17978), (78, 18020), (86, 18074), (88, 18077), (95, 18116), (116, 18287), (118, 18293), (123, 18308), (138, 18398), (139, 18401), (141, 18413), (147, 18455), (152, 18509), (156, 18530), (168, 18584), (171, 18605), (172, 18608), (173, 18626), (184, 18689), (193, 18755), (195, 18794), (198, 18821), (200, 18836), (205, 18866), (209, 18890), (212, 18902), (214, 18911), (224, 18977), (230, 19016), (239, 19082), (243, 19109), (246, 19136), (265, 19247), (276, 19322), (281, 19346), (284, 19367), (288, 19388), (292, 19409), (293, 19412), (297, 19430), (298, 19433), (304, 19460), (315, 19520), (322, 19550), (327, 19583), (336, 19613), (338, 19625), (355, 19733), (359, 19748), (363, 19778), (368, 19829), (376, 19916), (378, 19925), (385, 19976), (397, 20039), (402, 20060), (410, 20096), (420, 20132), (421, 20138), (429, 20216), (433, 20243), (450, 20372), (451, 20402), (455, 20429), (459, 20468), (462, 20510),

Gene: Prudy_28 Start: 18436, Stop: 20943, Start Num: 56

Candidate Starts for Prudy_28:

(48, 18385), (Start: 56 @18436 has 91 MA's), (73, 18547), (77, 18565), (82, 18604), (91, 18649), (114, 18778), (118, 18796), (120, 18802), (126, 18832), (141, 18916), (148, 18967), (157, 19036), (159, 19042), (162, 19057), (164, 19066), (166, 19078), (168, 19087), (195, 19297), (198, 19324), (200, 19339), (209, 19393), (214, 19414), (224, 19480), (230, 19519), (233, 19543), (238, 19582), (257, 19705), (261, 19720), (264, 19747), (266, 19753), (271, 19804), (278, 19834), (280, 19840), (284, 19870), (288, 19891), (297, 19933), (301, 19948), (306, 19975), (317, 20032), (320, 20044), (325, 20074), (327, 20086), (340, 20146), (345, 20173), (349, 20203), (355, 20236), (363, 20281), (365, 20293), (404, 20500), (408, 20509), (410, 20518), (430, 20629), (434, 20659), (446, 20743), (459, 20884), (464, 20929),

Gene: Puppy_26 Start: 15114, Stop: 18149, Start Num: 11

Candidate Starts for Puppy_26:

(Start: 11 @15114 has 33 MA's), (24, 15288), (26, 15300), (30, 15333), (68, 15543), (86, 15663), (88, 15666), (115, 15870), (122, 15891), (127, 15921), (128, 15924), (139, 15987), (141, 15999), (145, 16032), (148, 16050), (157, 16119), (159, 16125), (162, 16140), (164, 16149), (166, 16161), (168, 16170), (182, 16263), (195, 16380), (196, 16383), (198, 16407), (199, 16410), (200, 16422), (209, 16476), (214, 16497), (216, 16518), (224, 16563), (227, 16590), (230, 16602), (252, 16743), (257, 16788), (261, 16803), (270, 16878), (271, 16887), (278, 16917), (281, 16932), (282, 16935), (284, 16953), (288, 16974), (289, 16977), (297, 17016), (298, 17019), (314, 17103), (327, 17169), (333, 17190), (340, 17229), (348, 17268), (350, 17289), (355, 17319), (356, 17322), (358, 17331), (362, 17355), (369, 17424), (371, 17445), (377, 17514), (381, 17532), (387, 17580), (390, 17592), (397,

17634), (399, 17646), (412, 17694), (435, 17865), (437, 17895), (443, 17925), (447, 17946), (458, 18081), (461, 18129),

Gene: PurpleHaze_27 Start: 16056, Stop: 19082, Start Num: 12

Candidate Starts for PurpleHaze_27:

(4, 16002), (Start: 12 @16056 has 88 MA's), (20, 16170), (Start: 25 @16236 has 33 MA's), (26, 16239), (28, 16248), (36, 16284), (46, 16335), (57, 16407), (68, 16479), (86, 16599), (88, 16602), (98, 16671), (101, 16716), (115, 16809), (118, 16818), (128, 16863), (136, 16902), (139, 16926), (141, 16938), (145, 16971), (148, 16989), (150, 17010), (157, 17058), (159, 17064), (162, 17079), (164, 17088), (166, 17100), (168, 17109), (182, 17202), (194, 17289), (195, 17319), (196, 17322), (199, 17349), (200, 17361), (209, 17415), (214, 17436), (218, 17466), (224, 17502), (241, 17628), (252, 17682), (257, 17727), (266, 17775), (270, 17817), (271, 17826), (278, 17856), (291, 17928), (292, 17934), (297, 17955), (298, 17958), (301, 17970), (324, 18087), (325, 18096), (340, 18168), (341, 18171), (348, 18207), (355, 18258), (356, 18261), (358, 18270), (377, 18453), (387, 18519), (390, 18531), (397, 18573), (413, 18636), (425, 18693), (429, 18762), (435, 18798), (447, 18879), (458, 19014), (459, 19026),

Gene: Qobbit_27 Start: 17620, Stop: 20529, Start Num: 25

Candidate Starts for Qobbit_27:

(Start: 25 @17620 has 33 MA's), (27, 17632), (35, 17692), (52, 17851), (64, 17914), (71, 17977), (78, 18019), (88, 18076), (95, 18115), (116, 18286), (118, 18292), (123, 18307), (138, 18397), (139, 18400), (141, 18412), (147, 18454), (152, 18508), (168, 18583), (171, 18604), (172, 18607), (173, 18625), (184, 18688), (193, 18754), (195, 18793), (198, 18820), (200, 18835), (205, 18865), (209, 18889), (212, 18901), (214, 18910), (224, 18976), (230, 19015), (239, 19081), (243, 19108), (246, 19135), (265, 19246), (276, 19321), (284, 19366), (288, 19387), (292, 19408), (293, 19411), (297, 19429), (298, 19432), (304, 19459), (309, 19486), (320, 19540), (355, 19732), (359, 19747), (363, 19777), (368, 19828), (376, 19915), (378, 19924), (385, 19975), (397, 20038), (402, 20059), (410, 20095), (420, 20131), (421, 20137), (429, 20215), (433, 20242), (441, 20302), (450, 20371), (451, 20401), (455, 20428), (459, 20467), (462, 20509),

Gene: QueenB2_26 Start: 16665, Stop: 19202, Start Num: 56

Candidate Starts for QueenB2_26:

(Start: 56 @16665 has 91 MA's), (83, 16842), (84, 16845), (85, 16848), (110, 17010), (111, 17016), (114, 17037), (115, 17046), (122, 17067), (128, 17100), (134, 17133), (148, 17226), (154, 17274), (156, 17292), (164, 17325), (166, 17337), (167, 17340), (168, 17346), (171, 17367), (172, 17370), (195, 17556), (200, 17598), (201, 17607), (212, 17664), (214, 17673), (224, 17739), (230, 17778), (243, 17871), (245, 17889), (257, 17964), (271, 18063), (275, 18078), (276, 18084), (278, 18093), (281, 18108), (284, 18129), (288, 18150), (293, 18174), (298, 18195), (299, 18201), (306, 18234), (308, 18246), (310, 18255), (327, 18345), (340, 18405), (345, 18432), (355, 18495), (363, 18540), (376, 18678), (408, 18768), (410, 18777), (430, 18888), (434, 18918), (446, 19002),

Gene: QueenBeesly_26 Start: 16547, Stop: 19084, Start Num: 56

Candidate Starts for QueenBeesly_26:

(Start: 56 @16547 has 91 MA's), (83, 16724), (84, 16727), (85, 16730), (91, 16760), (111, 16898), (114, 16919), (115, 16928), (122, 16949), (128, 16982), (138, 17042), (141, 17057), (148, 17108), (154, 17156), (156, 17174), (164, 17207), (166, 17219), (167, 17222), (168, 17228), (171, 17249), (172, 17252), (185, 17339), (195, 17438), (200, 17480), (201, 17489), (203, 17498), (212, 17546), (214, 17555), (224, 17621), (230, 17660), (257, 17846), (261, 17861), (266, 17894), (271, 17945), (276, 17966), (280, 17981), (281, 17990), (283, 18005), (297, 18074), (327, 18227), (333, 18248), (355, 18377), (363, 18422), (365, 18434), (367, 18470), (408, 18650), (410, 18659), (430, 18770), (434, 18800), (446, 18884),

Gene: QuinnKiro_25 Start: 16043, Stop: 19081, Start Num: 11

Candidate Starts for QuinnKiro_25:

(Start: 11 @16043 has 33 MA's), (24, 16217), (26, 16229), (30, 16262), (68, 16469), (70, 16490), (86, 16589), (88, 16592), (115, 16802), (118, 16811), (122, 16823), (128, 16856), (139, 16919), (141, 16931), (145, 16964), (148, 16982), (150, 17003), (157, 17051), (159, 17057), (162, 17072), (164, 17081), (166, 17093), (168, 17102), (182, 17195), (195, 17312), (196, 17315), (199, 17342), (200, 17354), (209, 17408), (214, 17429), (224, 17495), (230, 17534), (252, 17675), (257, 17720), (270, 17810), (271, 17819), (278, 17849), (288, 17906), (291, 17921), (297, 17948), (298, 17951), (302, 17969), (324, 18080), (340, 18161), (349, 18218), (357, 18260), (369, 18356), (371, 18377), (373, 18401), (377, 18446), (381, 18464), (387, 18512), (390, 18524), (397, 18566), (399, 18578), (412, 18626), (435, 18797), (443, 18857), (445, 18869), (449, 18896), (450, 18917), (458, 19013), (461, 19061),

Gene: Quokka_24 Start: 15528, Stop: 18041, Start Num: 56

Candidate Starts for Quokka_24:

(Start: 56 @15528 has 91 MA's), (73, 15639), (83, 15705), (84, 15708), (85, 15711), (114, 15897), (115, 15906), (118, 15915), (141, 16035), (148, 16086), (155, 16143), (158, 16155), (160, 16161), (162, 16176), (166, 16197), (168, 16206), (174, 16254), (195, 16416), (199, 16446), (200, 16458), (206, 16497), (209, 16512), (214, 16533), (222, 16590), (224, 16599), (227, 16626), (241, 16725), (257, 16824), (261, 16839), (271, 16923), (276, 16944), (284, 16989), (297, 17052), (298, 17055), (308, 17106), (311, 17121), (340, 17265), (345, 17292), (355, 17355), (359, 17370), (363, 17400), (373, 17496), (392, 17562), (408, 17625), (441, 17820), (442, 17823), (446, 17844),

Gene: Rachaly_29 Start: 18265, Stop: 20793, Start Num: 56

Candidate Starts for Rachaly_29:

(Start: 56 @18265 has 91 MA's), (73, 18376), (75, 18388), (84, 18445), (85, 18448), (114, 18637), (115, 18646), (128, 18700), (147, 18817), (148, 18826), (150, 18847), (152, 18871), (166, 18937), (168, 18946), (171, 18967), (172, 18970), (195, 19156), (200, 19198), (214, 19273), (218, 19303), (224, 19339), (230, 19378), (257, 19564), (271, 19663), (276, 19684), (277, 19687), (281, 19708), (284, 19729), (290, 19762), (291, 19765), (297, 19792), (306, 19834), (311, 19861), (325, 19933), (327, 19945), (344, 20029), (345, 20032), (355, 20095), (363, 20140), (365, 20152), (373, 20236), (390, 20290), (410, 20374), (420, 20398), (434, 20515), (446, 20593),

Gene: Rahalelujah_25 Start: 15668, Stop: 18586, Start Num: 25

Candidate Starts for Rahalelujah_25:

(Start: 25 @15668 has 33 MA's), (27, 15680), (46, 15839), (51, 15881), (52, 15902), (71, 16028), (78, 16070), (86, 16124), (88, 16127), (104, 16253), (114, 16328), (115, 16337), (116, 16340), (120, 16352), (146, 16505), (148, 16517), (149, 16529), (150, 16538), (152, 16562), (156, 16583), (157, 16586), (162, 16607), (166, 16628), (168, 16637), (169, 16649), (176, 16697), (184, 16742), (195, 16847), (204, 16910), (208, 16940), (209, 16943), (214, 16964), (215, 16973), (216, 16985), (220, 17009), (224, 17030), (230, 17069), (257, 17255), (260, 17267), (265, 17300), (276, 17375), (278, 17384), (284, 17420), (288, 17441), (292, 17462), (293, 17465), (295, 17474), (297, 17483), (298, 17486), (304, 17513), (309, 17540), (321, 17600), (338, 17678), (355, 17786), (363, 17831), (368, 17882), (375, 17963), (376, 17969), (378, 17978), (385, 18029), (397, 18092), (402, 18113), (410, 18152), (421, 18194), (429, 18272), (433, 18299), (441, 18359), (446, 18383), (451, 18458), (459, 18524), (462, 18566),

Gene: Reba_28 Start: 15722, Stop: 18748, Start Num: 12

Candidate Starts for Reba_28:

(4, 15668), (Start: 12 @15722 has 88 MA's), (20, 15836), (Start: 25 @15902 has 33 MA's), (26, 15905), (28, 15914), (36, 15950), (46, 16001), (57, 16073), (68, 16145), (86, 16265), (88, 16268), (98, 16337), (101, 16382), (115, 16475), (118, 16484), (128, 16529), (136, 16568), (139, 16592), (141, 16604), (145, 16637), (148, 16655), (150, 16676), (157, 16724), (159, 16730), (162, 16745), (164, 16754), (166, 16766), (168, 16775), (182, 16868), (194, 16955), (195, 16985), (196, 16988), (199, 17015),

(200, 17027), (209, 17081), (214, 17102), (218, 17132), (224, 17168), (241, 17294), (252, 17348), (257, 17393), (266, 17441), (270, 17483), (271, 17492), (278, 17522), (291, 17594), (292, 17600), (297, 17621), (298, 17624), (301, 17636), (324, 17753), (325, 17762), (340, 17834), (341, 17837), (348, 17873), (355, 17924), (356, 17927), (358, 17936), (377, 18119), (387, 18185), (390, 18197), (397, 18239), (413, 18302), (425, 18359), (429, 18428), (435, 18464), (447, 18545), (458, 18680), (459, 18692),

Gene: RedRock_29 Start: 18558, Stop: 21056, Start Num: 56

Candidate Starts for RedRock_29:

(Start: 56 @18558 has 91 MA's), (77, 18687), (82, 18726), (91, 18771), (111, 18873), (114, 18894), (118, 18912), (141, 19032), (148, 19083), (157, 19152), (159, 19158), (162, 19173), (164, 19182), (166, 19194), (168, 19203), (195, 19413), (198, 19440), (200, 19455), (209, 19509), (214, 19530), (224, 19596), (230, 19635), (238, 19698), (257, 19821), (261, 19836), (275, 19935), (278, 19950), (280, 19956), (281, 19965), (284, 19986), (288, 20007), (291, 20022), (293, 20031), (298, 20052), (299, 20058), (306, 20091), (311, 20118), (317, 20148), (320, 20160), (325, 20190), (327, 20202), (345, 20289), (350, 20322), (355, 20352), (361, 20385), (363, 20397), (404, 20616), (408, 20625), (410, 20634), (430, 20745), (434, 20775), (446, 20856), (459, 20997),

Gene: Refuge_29 Start: 18955, Stop: 22065, Start Num: 12

Candidate Starts for Refuge_29:

(1, 18709), (7, 18925), (Start: 12 @18955 has 88 MA's), (Start: 25 @19132 has 33 MA's), (27, 19144), (32, 19180), (64, 19411), (71, 19474), (78, 19516), (86, 19570), (88, 19573), (104, 19699), (114, 19774), (115, 19783), (116, 19786), (120, 19798), (128, 19837), (148, 19963), (152, 20008), (154, 20011), (156, 20029), (157, 20032), (162, 20053), (164, 20062), (168, 20083), (169, 20095), (176, 20143), (179, 20164), (181, 20173), (184, 20188), (202, 20350), (210, 20392), (214, 20410), (215, 20419), (216, 20431), (224, 20476), (229, 20509), (230, 20515), (238, 20578), (257, 20701), (274, 20812), (276, 20821), (277, 20824), (284, 20866), (287, 20881), (293, 20911), (297, 20929), (299, 20938), (301, 20944), (310, 20992), (311, 20998), (325, 21070), (340, 21142), (341, 21145), (350, 21202), (355, 21232), (358, 21244), (362, 21268), (363, 21277), (374, 21409), (377, 21433), (382, 21469), (384, 21478), (391, 21520), (397, 21553), (414, 21634), (416, 21643), (435, 21790), (440, 21838), (441, 21841), (446, 21865), (458, 21994), (459, 22006),

Gene: ResDef_26 Start: 16043, Stop: 19081, Start Num: 11

Candidate Starts for ResDef_26:

(Start: 11 @16043 has 33 MA's), (24, 16217), (26, 16229), (30, 16262), (68, 16469), (70, 16490), (86, 16589), (88, 16592), (115, 16802), (122, 16823), (128, 16856), (139, 16919), (141, 16931), (145, 16964), (148, 16982), (150, 17003), (157, 17051), (159, 17057), (162, 17072), (164, 17081), (166, 17093), (168, 17102), (182, 17195), (195, 17312), (196, 17315), (199, 17342), (200, 17354), (209, 17408), (214, 17429), (224, 17495), (230, 17534), (252, 17675), (257, 17720), (270, 17810), (271, 17819), (278, 17849), (288, 17906), (291, 17921), (297, 17948), (298, 17951), (302, 17969), (324, 18080), (340, 18161), (349, 18218), (357, 18260), (369, 18356), (371, 18377), (373, 18401), (377, 18446), (381, 18464), (387, 18512), (390, 18524), (397, 18566), (399, 18578), (412, 18626), (435, 18797), (443, 18857), (445, 18869), (449, 18896), (450, 18917), (458, 19013), (461, 19061),

Gene: Retro23_26 Start: 16689, Stop: 19232, Start Num: 56

Candidate Starts for Retro23_26:

(Start: 56 @16689 has 91 MA's), (83, 16866), (84, 16869), (85, 16872), (110, 17040), (111, 17046), (114, 17067), (115, 17076), (122, 17097), (128, 17130), (134, 17163), (148, 17256), (154, 17304), (156, 17322), (162, 17346), (164, 17355), (166, 17367), (167, 17370), (168, 17376), (171, 17397), (172, 17400), (185, 17487), (195, 17586), (200, 17628), (203, 17646), (206, 17667), (212, 17694), (214, 17703), (224, 17769), (230, 17808), (257, 17994), (261, 18009), (266, 18042), (271, 18093), (276, 18114), (280, 18129), (281, 18138), (283, 18153), (297, 18222), (327, 18375), (333, 18396), (355, 18525), (359, 18540), (363, 18570), (365, 18582), (367, 18618), (408, 18798), (410, 18807),

(430, 18918), (434, 18948), (446, 19032),

Gene: Rockstar_25 Start: 15416, Stop: 18460, Start Num: 11

Candidate Starts for Rockstar_25:

(Start: 11 @15416 has 33 MA's), (24, 15590), (26, 15602), (68, 15845), (86, 15965), (88, 15968), (117, 16190), (128, 16235), (141, 16310), (145, 16343), (148, 16361), (149, 16373), (161, 16439), (166, 16472), (168, 16481), (173, 16523), (182, 16574), (195, 16691), (200, 16733), (209, 16787), (214, 16808), (222, 16865), (224, 16874), (241, 17000), (243, 17006), (246, 17033), (257, 17099), (261, 17114), (265, 17144), (266, 17147), (271, 17198), (274, 17210), (279, 17231), (281, 17243), (284, 17264), (291, 17300), (297, 17327), (305, 17360), (307, 17372), (314, 17414), (327, 17480), (340, 17540), (348, 17579), (355, 17630), (356, 17633), (358, 17642), (362, 17666), (369, 17735), (371, 17756), (377, 17825), (381, 17843), (387, 17891), (390, 17903), (397, 17945), (399, 17957), (412, 18005), (435, 18176), (443, 18236), (447, 18257), (458, 18392), (459, 18404), (461, 18440),

Gene: Roimos_25 Start: 15464, Stop: 18502, Start Num: 11

Candidate Starts for Roimos_25:

(Start: 11 @15464 has 33 MA's), (24, 15638), (26, 15650), (30, 15683), (68, 15893), (88, 16016), (92, 16037), (115, 16223), (122, 16244), (128, 16277), (139, 16340), (141, 16352), (145, 16385), (148, 16403), (157, 16472), (159, 16478), (162, 16493), (164, 16502), (166, 16514), (168, 16523), (182, 16616), (195, 16733), (196, 16736), (199, 16763), (200, 16775), (209, 16829), (214, 16850), (216, 16871), (224, 16916), (230, 16955), (252, 17096), (257, 17141), (261, 17156), (270, 17231), (271, 17240), (278, 17270), (281, 17285), (291, 17342), (297, 17369), (298, 17372), (327, 17522), (333, 17543), (340, 17582), (348, 17621), (355, 17672), (356, 17675), (358, 17684), (362, 17708), (369, 17777), (371, 17798), (377, 17867), (381, 17885), (387, 17933), (390, 17945), (397, 17987), (399, 17999), (412, 18047), (435, 18218), (437, 18248), (443, 18278), (447, 18299), (458, 18434), (459, 18446), (461, 18482),

Gene: Rummer_27 Start: 16063, Stop: 19089, Start Num: 12

Candidate Starts for Rummer_27:

(4, 16009), (Start: 12 @16063 has 88 MA's), (20, 16177), (Start: 25 @16243 has 33 MA's), (26, 16246), (28, 16255), (36, 16291), (46, 16342), (57, 16414), (68, 16486), (86, 16606), (88, 16609), (98, 16678), (101, 16723), (115, 16816), (118, 16825), (124, 16843), (128, 16870), (139, 16933), (141, 16945), (145, 16978), (148, 16996), (156, 17062), (157, 17065), (159, 17071), (162, 17086), (164, 17095), (166, 17107), (168, 17116), (178, 17194), (182, 17209), (195, 17326), (196, 17329), (199, 17356), (200, 17368), (209, 17422), (214, 17443), (224, 17509), (230, 17548), (243, 17641), (252, 17689), (257, 17734), (266, 17782), (270, 17824), (271, 17833), (278, 17863), (279, 17866), (281, 17878), (291, 17935), (292, 17941), (297, 17962), (298, 17965), (325, 18103), (327, 18115), (340, 18175), (349, 18232), (369, 18370), (371, 18391), (373, 18415), (377, 18460), (381, 18478), (387, 18526), (390, 18538), (397, 18580), (413, 18643), (425, 18700), (429, 18769), (435, 18805), (440, 18853), (447, 18886), (458, 19021),

Gene: RyeScarlet_28 Start: 17594, Stop: 20503, Start Num: 25

Candidate Starts for RyeScarlet_28:

(Start: 25 @17594 has 33 MA's), (27, 17606), (35, 17666), (52, 17825), (64, 17888), (71, 17951), (78, 17993), (88, 18050), (95, 18089), (116, 18260), (118, 18266), (123, 18281), (138, 18371), (139, 18374), (141, 18386), (147, 18428), (152, 18482), (168, 18557), (171, 18578), (172, 18581), (173, 18599), (184, 18662), (193, 18728), (195, 18767), (198, 18794), (200, 18809), (205, 18839), (209, 18863), (214, 18884), (224, 18950), (230, 18989), (239, 19055), (243, 19082), (246, 19109), (257, 19175), (265, 19220), (276, 19295), (284, 19340), (288, 19361), (292, 19382), (293, 19385), (297, 19403), (298, 19406), (304, 19433), (309, 19460), (320, 19514), (355, 19706), (359, 19721), (363, 19751), (368, 19802), (376, 19889), (378, 19898), (385, 19949), (397, 20012), (402, 20033), (410, 20069), (420, 20105), (421, 20111), (429, 20189), (433, 20216), (441, 20276), (450, 20345), (451, 20375), (455, 20402), (459, 20441), (462, 20483),

Gene: Sabia_27 Start: 15972, Stop: 18998, Start Num: 12

Candidate Starts for Sabia_27:

(4, 15918), (Start: 12 @15972 has 88 MA's), (20, 16086), (Start: 25 @16152 has 33 MA's), (26, 16155), (28, 16164), (36, 16200), (46, 16251), (57, 16323), (68, 16395), (86, 16515), (88, 16518), (98, 16587), (101, 16632), (115, 16725), (118, 16734), (124, 16752), (128, 16779), (139, 16842), (141, 16854), (145, 16887), (148, 16905), (156, 16971), (157, 16974), (159, 16980), (162, 16995), (164, 17004), (166, 17016), (168, 17025), (182, 17118), (195, 17235), (196, 17238), (199, 17265), (200, 17277), (209, 17331), (214, 17352), (224, 17418), (227, 17445), (243, 17550), (252, 17598), (257, 17643), (266, 17691), (270, 17733), (271, 17742), (278, 17772), (279, 17775), (281, 17787), (291, 17844), (292, 17850), (297, 17871), (298, 17874), (325, 18012), (327, 18024), (340, 18084), (350, 18144), (355, 18174), (356, 18177), (358, 18186), (369, 18279), (377, 18369), (387, 18435), (390, 18447), (397, 18489), (413, 18552), (425, 18609), (429, 18678), (435, 18714), (447, 18795), (458, 18930),

Gene: Sabinator_27 Start: 15977, Stop: 19003, Start Num: 12

Candidate Starts for Sabinator_27:

(4, 15923), (Start: 12 @15977 has 88 MA's), (20, 16091), (Start: 25 @16157 has 33 MA's), (26, 16160), (28, 16169), (36, 16205), (46, 16256), (57, 16328), (68, 16400), (86, 16520), (88, 16523), (98, 16592), (101, 16637), (115, 16730), (118, 16739), (124, 16757), (128, 16784), (139, 16847), (141, 16859), (145, 16892), (148, 16910), (156, 16976), (157, 16979), (159, 16985), (162, 17000), (164, 17009), (166, 17021), (168, 17030), (178, 17108), (182, 17123), (195, 17240), (196, 17243), (199, 17270), (200, 17282), (209, 17336), (214, 17357), (224, 17423), (230, 17462), (243, 17555), (252, 17603), (257, 17648), (266, 17696), (270, 17738), (271, 17747), (278, 17777), (279, 17780), (281, 17792), (291, 17849), (292, 17855), (297, 17876), (298, 17879), (325, 18017), (327, 18029), (340, 18089), (349, 18146), (369, 18284), (371, 18305), (373, 18329), (377, 18374), (381, 18392), (387, 18440), (390, 18452), (397, 18494), (413, 18557), (425, 18614), (429, 18683), (435, 18719), (447, 18800), (458, 18935),

Gene: Sachima_25 Start: 17590, Stop: 20499, Start Num: 25

Candidate Starts for Sachima_25:

(Start: 25 @17590 has 33 MA's), (27, 17602), (35, 17662), (64, 17884), (71, 17947), (78, 17989), (88, 18046), (95, 18085), (116, 18256), (118, 18262), (123, 18277), (138, 18367), (139, 18370), (141, 18382), (147, 18424), (152, 18478), (168, 18553), (171, 18574), (172, 18577), (173, 18595), (184, 18658), (193, 18724), (195, 18763), (198, 18790), (200, 18805), (205, 18835), (209, 18859), (214, 18880), (224, 18946), (230, 18985), (239, 19051), (243, 19078), (246, 19105), (257, 19171), (265, 19216), (276, 19291), (284, 19336), (288, 19357), (292, 19378), (293, 19381), (297, 19399), (298, 19402), (304, 19429), (309, 19456), (320, 19510), (355, 19702), (359, 19717), (363, 19747), (368, 19798), (376, 19885), (378, 19894), (385, 19945), (397, 20008), (402, 20029), (410, 20065), (420, 20101), (421, 20107), (429, 20185), (433, 20212), (441, 20272), (450, 20341), (451, 20371), (455, 20398), (459, 20437), (462, 20479),

Gene: SaturnRing_25 Start: 15495, Stop: 18530, Start Num: 11

Candidate Starts for SaturnRing_25:

(Start: 11 @15495 has 33 MA's), (24, 15669), (26, 15681), (30, 15714), (68, 15924), (86, 16044), (88, 16047), (115, 16251), (122, 16272), (127, 16302), (128, 16305), (139, 16368), (141, 16380), (145, 16413), (148, 16431), (157, 16500), (159, 16506), (162, 16521), (164, 16530), (166, 16542), (168, 16551), (182, 16644), (195, 16761), (196, 16764), (198, 16788), (199, 16791), (200, 16803), (209, 16857), (214, 16878), (216, 16899), (224, 16944), (227, 16971), (230, 16983), (252, 17124), (257, 17169), (261, 17184), (270, 17259), (271, 17268), (278, 17298), (281, 17313), (282, 17316), (284, 17334), (288, 17355), (289, 17358), (297, 17397), (298, 17400), (314, 17484), (327, 17550), (333, 17571), (340, 17610), (348, 17649), (350, 17670), (355, 17700), (356, 17703), (358, 17712), (362, 17736), (369, 17805), (371, 17826), (377, 17895), (381, 17913), (387, 17961), (390, 17973), (397, 18015), (399, 18027), (412, 18075), (435, 18246), (437, 18276), (443, 18306), (447, 18327), (458,

18462), (461, 18510),

Gene: Scherzo_27 Start: 17623, Stop: 20532, Start Num: 25

Candidate Starts for Scherzo_27:

(Start: 25 @17623 has 33 MA's), (27, 17635), (35, 17695), (64, 17917), (71, 17980), (78, 18022), (88, 18079), (95, 18118), (116, 18289), (118, 18295), (123, 18310), (138, 18400), (139, 18403), (141, 18415), (147, 18457), (152, 18511), (168, 18586), (171, 18607), (172, 18610), (173, 18628), (184, 18691), (193, 18757), (195, 18796), (198, 18823), (200, 18838), (205, 18868), (209, 18892), (214, 18913), (224, 18979), (230, 19018), (239, 19084), (243, 19111), (246, 19138), (257, 19204), (265, 19249), (276, 19324), (284, 19369), (288, 19390), (292, 19411), (293, 19414), (297, 19432), (298, 19435), (304, 19462), (309, 19489), (320, 19543), (355, 19735), (359, 19750), (363, 19780), (368, 19831), (376, 19918), (378, 19927), (385, 19978), (397, 20041), (402, 20062), (410, 20098), (420, 20134), (421, 20140), (429, 20218), (433, 20245), (441, 20305), (450, 20374), (451, 20404), (455, 20431), (459, 20470), (462, 20512),

Gene: Scout_25 Start: 14795, Stop: 17833, Start Num: 11

Candidate Starts for Scout_25:

(Start: 11 @14795 has 33 MA's), (24, 14969), (26, 14981), (30, 15014), (68, 15224), (88, 15347), (92, 15368), (115, 15554), (122, 15575), (128, 15608), (139, 15671), (141, 15683), (145, 15716), (148, 15734), (157, 15803), (159, 15809), (162, 15824), (164, 15833), (166, 15845), (168, 15854), (182, 15947), (195, 16064), (196, 16067), (199, 16094), (200, 16106), (209, 16160), (214, 16181), (216, 16202), (224, 16247), (230, 16286), (243, 16379), (252, 16427), (257, 16472), (261, 16487), (270, 16562), (271, 16571), (278, 16601), (281, 16616), (291, 16673), (297, 16700), (298, 16703), (303, 16724), (327, 16853), (333, 16874), (340, 16913), (348, 16952), (350, 16973), (355, 17003), (356, 17006), (358, 17015), (362, 17039), (369, 17108), (371, 17129), (377, 17198), (381, 17216), (387, 17264), (390, 17276), (397, 17318), (399, 17330), (412, 17378), (435, 17549), (437, 17579), (443, 17609), (447, 17630), (458, 17765), (459, 17777), (461, 17813),

Gene: SemperFi_28 Start: 16964, Stop: 19501, Start Num: 56

Candidate Starts for SemperFi_28:

(Start: 56 @16964 has 91 MA's), (83, 17141), (84, 17144), (85, 17147), (91, 17177), (111, 17315), (114, 17336), (115, 17345), (122, 17366), (128, 17399), (138, 17459), (141, 17474), (148, 17525), (154, 17573), (156, 17591), (164, 17624), (166, 17636), (167, 17639), (168, 17645), (171, 17666), (172, 17669), (185, 17756), (195, 17855), (200, 17897), (201, 17906), (203, 17915), (212, 17963), (214, 17972), (224, 18038), (230, 18077), (257, 18263), (261, 18278), (266, 18311), (271, 18362), (276, 18383), (280, 18398), (281, 18407), (283, 18422), (297, 18491), (327, 18644), (333, 18665), (355, 18794), (363, 18839), (365, 18851), (367, 18887), (408, 19067), (410, 19076), (430, 19187), (434, 19217), (446, 19301),

Gene: Serenity_25 Start: 15579, Stop: 18095, Start Num: 56

Candidate Starts for Serenity_25:

(Start: 56 @15579 has 91 MA's), (73, 15690), (83, 15756), (84, 15759), (85, 15762), (95, 15810), (114, 15948), (115, 15957), (118, 15966), (141, 16086), (148, 16137), (155, 16194), (158, 16206), (160, 16212), (162, 16227), (166, 16248), (168, 16257), (174, 16305), (195, 16467), (199, 16497), (200, 16509), (206, 16548), (209, 16563), (214, 16584), (222, 16641), (223, 16647), (224, 16650), (227, 16677), (241, 16776), (257, 16875), (261, 16890), (269, 16953), (271, 16974), (276, 16995), (284, 17040), (297, 17103), (298, 17106), (306, 17145), (311, 17172), (317, 17202), (320, 17214), (327, 17256), (340, 17316), (345, 17343), (355, 17406), (365, 17463), (373, 17547), (392, 17613), (408, 17676), (441, 17871), (442, 17874), (446, 17895), (461, 18072), (464, 18081),

Gene: SheaKeira_26 Start: 15769, Stop: 18678, Start Num: 25

Candidate Starts for SheaKeira_26:

(9, 15580), (19, 15682), (Start: 25 @15769 has 33 MA's), (27, 15781), (39, 15892), (40, 15901), (45, 15925), (46, 15934), (49, 15955), (50, 15964), (52, 15997), (62, 16051), (78, 16165), (86, 16219), (88, 16222), (104, 16348), (114, 16423), (115, 16432), (127, 16483), (130, 16498), (139, 16549), (141, 16561), (144, 16591), (148, 16612), (152, 16657), (154, 16660), (156, 16678), (157, 16681), (162, 16702), (168, 16732), (169, 16744), (175, 16783), (176, 16792), (182, 16825), (184, 16837), (195, 16942), (208, 17035), (209, 17038), (214, 17059), (215, 17068), (216, 17080), (220, 17104), (221, 17113), (222, 17116), (224, 17125), (226, 17143), (227, 17152), (232, 17176), (243, 17257), (250, 17296), (260, 17362), (276, 17470), (282, 17497), (284, 17515), (288, 17536), (292, 17557), (293, 17560), (297, 17578), (298, 17581), (304, 17608), (309, 17635), (315, 17668), (321, 17695), (355, 17881), (363, 17926), (365, 17938), (368, 17977), (373, 18022), (374, 18043), (377, 18067), (381, 18085), (383, 18106), (385, 18124), (397, 18187), (402, 18208), (419, 18280), (421, 18289), (429, 18367), (435, 18403), (444, 18466), (446, 18478), (451, 18553), (459, 18619), (462, 18661),

Gene: Sheen_27 Start: 17618, Stop: 20998, Start Num: 3

Candidate Starts for Sheen_27:

(Start: 3 @17618 has 4 MA's), (29, 18005), (41, 18062), (46, 18089), (60, 18170), (64, 18194), (66, 18206), (72, 18257), (88, 18353), (96, 18404), (120, 18587), (122, 18593), (128, 18626), (130, 18638), (144, 18731), (148, 18752), (149, 18764), (174, 18920), (177, 18944), (189, 19007), (195, 19082), (200, 19124), (209, 19178), (214, 19199), (222, 19256), (223, 19262), (224, 19265), (236, 19349), (237, 19364), (241, 19391), (243, 19397), (257, 19490), (260, 19502), (261, 19505), (284, 19655), (287, 19670), (290, 19688), (296, 19712), (300, 19730), (301, 19733), (302, 19739), (316, 19844), (325, 19907), (326, 19910), (334, 19967), (335, 19973), (342, 20021), (347, 20051), (358, 20129), (360, 20141), (361, 20150), (371, 20249), (377, 20318), (381, 20336), (392, 20420), (393, 20432), (396, 20444), (404, 20495), (407, 20516), (416, 20567), (423, 20600), (430, 20681), (435, 20714), (437, 20744), (445, 20786), (448, 20810), (453, 20876), (455, 20891), (456, 20897), (460, 20948),

Gene: Sknot_26 Start: 16673, Stop: 19180, Start Num: 56

Candidate Starts for Sknot_26:

(Start: 56 @16673 has 91 MA's), (73, 16784), (82, 16841), (109, 16997), (114, 17027), (128, 17090), (134, 17123), (136, 17129), (162, 17309), (164, 17318), (168, 17339), (171, 17360), (172, 17363), (173, 17381), (183, 17441), (195, 17549), (200, 17591), (209, 17645), (214, 17666), (223, 17729), (224, 17732), (226, 17750), (230, 17771), (257, 17957), (261, 17972), (264, 17999), (271, 18056), (275, 18071), (276, 18077), (278, 18086), (280, 18092), (284, 18122), (288, 18143), (298, 18188), (299, 18194), (306, 18227), (311, 18254), (325, 18326), (327, 18338), (340, 18398), (345, 18425), (355, 18488), (363, 18533), (365, 18545), (367, 18581), (372, 18617), (374, 18650), (395, 18713), (401, 18737), (431, 18881), (446, 18980), (453, 19067), (464, 19166),

Gene: Smeagan_28 Start: 17115, Stop: 19658, Start Num: 56

Candidate Starts for Smeagan_28:

(Start: 56 @17115 has 91 MA's), (84, 17295), (85, 17298), (91, 17328), (110, 17466), (111, 17472), (114, 17493), (115, 17502), (118, 17511), (122, 17523), (130, 17568), (134, 17589), (141, 17631), (148, 17682), (152, 17727), (154, 17730), (156, 17748), (164, 17781), (166, 17793), (168, 17802), (171, 17823), (172, 17826), (185, 17913), (195, 18012), (200, 18054), (201, 18063), (203, 18072), (214, 18129), (224, 18195), (230, 18234), (249, 18363), (257, 18420), (268, 18486), (271, 18519), (275, 18534), (276, 18540), (278, 18549), (281, 18564), (284, 18585), (288, 18606), (292, 18627), (293, 18630), (297, 18648), (298, 18651), (308, 18702), (320, 18759), (323, 18777), (327, 18801), (340, 18861), (345, 18888), (355, 18951), (363, 18996), (376, 19134), (408, 19224), (410, 19233), (420, 19257), (430, 19344), (434, 19374), (446, 19458),

Gene: SnapTap_26 Start: 16547, Stop: 19084, Start Num: 56

Candidate Starts for SnapTap_26:

(Start: 56 @16547 has 91 MA's), (83, 16724), (84, 16727), (85, 16730), (91, 16760), (111, 16898), (114, 16919), (115, 16928), (122, 16949), (128, 16982), (138, 17042), (141, 17057), (148, 17108),

(154, 17156), (156, 17174), (164, 17207), (166, 17219), (167, 17222), (168, 17228), (171, 17249), (172, 17252), (185, 17339), (195, 17438), (200, 17480), (201, 17489), (203, 17498), (212, 17546), (214, 17555), (224, 17621), (230, 17660), (247, 17783), (257, 17846), (261, 17861), (266, 17894), (271, 17945), (276, 17966), (280, 17981), (281, 17990), (283, 18005), (297, 18074), (327, 18227), (355, 18377), (363, 18422), (365, 18434), (367, 18470), (408, 18650), (410, 18659), (430, 18770), (434, 18800), (446, 18884),

Gene: Snickers_27 Start: 15953, Stop: 18979, Start Num: 12

Candidate Starts for Snickers_27:

(4, 15899), (Start: 12 @15953 has 88 MA's), (20, 16067), (Start: 25 @16133 has 33 MA's), (26, 16136), (28, 16145), (36, 16181), (46, 16232), (57, 16304), (68, 16376), (86, 16496), (88, 16499), (98, 16568), (101, 16613), (115, 16706), (118, 16715), (124, 16733), (128, 16760), (139, 16823), (141, 16835), (145, 16868), (148, 16886), (156, 16952), (157, 16955), (159, 16961), (162, 16976), (164, 16985), (166, 16997), (168, 17006), (178, 17084), (182, 17099), (195, 17216), (196, 17219), (199, 17246), (200, 17258), (209, 17312), (214, 17333), (224, 17399), (230, 17438), (243, 17531), (252, 17579), (257, 17624), (266, 17672), (270, 17714), (271, 17723), (278, 17753), (279, 17756), (281, 17768), (291, 17825), (292, 17831), (297, 17852), (298, 17855), (325, 17993), (327, 18005), (340, 18065), (350, 18125), (355, 18155), (356, 18158), (358, 18167), (369, 18260), (377, 18350), (387, 18416), (390, 18428), (397, 18470), (413, 18533), (425, 18590), (429, 18659), (435, 18695), (447, 18776), (458, 18911),

Gene: SoYo_27 Start: 15890, Stop: 18916, Start Num: 12

Candidate Starts for SoYo_27:

(4, 15836), (Start: 12 @15890 has 88 MA's), (20, 16004), (Start: 25 @16070 has 33 MA's), (26, 16073), (28, 16082), (36, 16118), (46, 16169), (57, 16241), (68, 16313), (86, 16433), (88, 16436), (98, 16505), (101, 16550), (115, 16643), (118, 16652), (124, 16670), (128, 16697), (139, 16760), (141, 16772), (145, 16805), (148, 16823), (156, 16889), (157, 16892), (159, 16898), (162, 16913), (164, 16922), (166, 16934), (168, 16943), (178, 17021), (182, 17036), (195, 17153), (196, 17156), (199, 17183), (200, 17195), (209, 17249), (214, 17270), (224, 17336), (230, 17375), (243, 17468), (252, 17516), (257, 17561), (266, 17609), (270, 17651), (271, 17660), (278, 17690), (279, 17693), (281, 17705), (291, 17762), (292, 17768), (297, 17789), (298, 17792), (325, 17930), (327, 17942), (340, 18002), (349, 18059), (369, 18197), (371, 18218), (373, 18242), (377, 18287), (381, 18305), (387, 18353), (390, 18365), (397, 18407), (413, 18470), (425, 18527), (429, 18596), (435, 18632), (447, 18713), (458, 18848),

Gene: SoilDragon_27 Start: 15667, Stop: 18693, Start Num: 12

Candidate Starts for SoilDragon_27:

(4, 15613), (Start: 12 @15667 has 88 MA's), (20, 15781), (Start: 25 @15847 has 33 MA's), (26, 15850), (28, 15859), (36, 15895), (46, 15946), (57, 16018), (68, 16090), (86, 16210), (88, 16213), (98, 16282), (101, 16327), (115, 16420), (118, 16429), (128, 16474), (139, 16537), (141, 16549), (145, 16582), (148, 16600), (156, 16666), (157, 16669), (159, 16675), (162, 16690), (164, 16699), (166, 16711), (168, 16720), (182, 16813), (194, 16900), (195, 16930), (196, 16933), (199, 16960), (200, 16972), (209, 17026), (214, 17047), (218, 17077), (224, 17113), (252, 17293), (257, 17338), (266, 17386), (270, 17428), (271, 17437), (278, 17467), (291, 17539), (297, 17566), (298, 17569), (301, 17581), (324, 17698), (325, 17707), (327, 17719), (340, 17779), (350, 17839), (355, 17869), (356, 17872), (358, 17881), (369, 17974), (377, 18064), (387, 18130), (390, 18142), (397, 18184), (413, 18247), (425, 18304), (429, 18373), (435, 18409), (447, 18490), (458, 18625),

Gene: Soshari_29 Start: 16062, Stop: 19088, Start Num: 12

Candidate Starts for Soshari_29:

(4, 16008), (Start: 12 @16062 has 88 MA's), (20, 16176), (Start: 25 @16242 has 33 MA's), (26, 16245), (28, 16254), (36, 16290), (46, 16341), (57, 16413), (68, 16485), (86, 16605), (88, 16608), (98, 16677), (101, 16722), (115, 16815), (118, 16824), (124, 16842), (128, 16869), (139, 16932), (141, 16944),

(145, 16977), (148, 16995), (156, 17061), (157, 17064), (159, 17070), (162, 17085), (164, 17094), (166, 17106), (168, 17115), (178, 17193), (182, 17208), (195, 17325), (196, 17328), (199, 17355), (200, 17367), (209, 17421), (214, 17442), (224, 17508), (230, 17547), (243, 17640), (252, 17688), (257, 17733), (266, 17781), (270, 17823), (271, 17832), (278, 17862), (279, 17865), (281, 17877), (291, 17934), (292, 17940), (297, 17961), (298, 17964), (325, 18102), (327, 18114), (340, 18174), (349, 18231), (369, 18369), (371, 18390), (373, 18414), (377, 18459), (381, 18477), (387, 18525), (390, 18537), (397, 18579), (413, 18642), (425, 18699), (429, 18768), (435, 18804), (447, 18885), (458, 19020),

Gene: Spike509_27 Start: 16063, Stop: 19089, Start Num: 12

Candidate Starts for Spike509_27:

(4, 16009), (Start: 12 @16063 has 88 MA's), (20, 16177), (Start: 25 @16243 has 33 MA's), (26, 16246), (28, 16255), (36, 16291), (46, 16342), (57, 16414), (68, 16486), (86, 16606), (88, 16609), (98, 16678), (101, 16723), (115, 16816), (118, 16825), (124, 16843), (128, 16870), (139, 16933), (141, 16945), (145, 16978), (148, 16996), (156, 17062), (157, 17065), (159, 17071), (162, 17086), (164, 17095), (166, 17107), (168, 17116), (178, 17194), (182, 17209), (195, 17326), (196, 17329), (199, 17356), (200, 17368), (209, 17422), (214, 17443), (224, 17509), (230, 17548), (243, 17641), (252, 17689), (257, 17734), (270, 17824), (271, 17833), (278, 17863), (288, 17920), (291, 17935), (297, 17962), (298, 17965), (325, 18103), (327, 18115), (340, 18175), (349, 18232), (369, 18370), (371, 18391), (373, 18415), (377, 18460), (381, 18478), (387, 18526), (390, 18538), (397, 18580), (413, 18643), (425, 18700), (429, 18769), (435, 18805), (447, 18886), (458, 19021),

Gene: Spouty_27 Start: 17620, Stop: 20529, Start Num: 25

Candidate Starts for Spouty_27:

(Start: 25 @17620 has 33 MA's), (27, 17632), (35, 17692), (64, 17914), (71, 17977), (78, 18019), (86, 18073), (88, 18076), (95, 18115), (116, 18286), (118, 18292), (123, 18307), (138, 18397), (139, 18400), (141, 18412), (147, 18454), (152, 18508), (156, 18529), (168, 18583), (171, 18604), (172, 18607), (173, 18625), (184, 18688), (193, 18754), (195, 18793), (198, 18820), (200, 18835), (205, 18865), (209, 18889), (212, 18901), (214, 18910), (224, 18976), (230, 19015), (239, 19081), (243, 19108), (246, 19135), (265, 19246), (276, 19321), (281, 19345), (284, 19366), (288, 19387), (292, 19408), (293, 19411), (297, 19429), (298, 19432), (304, 19459), (315, 19519), (322, 19549), (327, 19582), (336, 19612), (338, 19624), (355, 19732), (359, 19747), (363, 19777), (368, 19828), (376, 19915), (378, 19924), (385, 19975), (397, 20038), (402, 20059), (410, 20095), (420, 20131), (421, 20137), (429, 20215), (433, 20242), (450, 20371), (451, 20401), (455, 20428), (459, 20467), (462, 20509),

Gene: Stagni_27 Start: 15981, Stop: 19007, Start Num: 12

Candidate Starts for Stagni_27:

(4, 15927), (Start: 12 @15981 has 88 MA's), (20, 16095), (Start: 25 @16161 has 33 MA's), (26, 16164), (28, 16173), (36, 16209), (46, 16260), (57, 16332), (68, 16404), (86, 16524), (88, 16527), (98, 16596), (101, 16641), (115, 16734), (118, 16743), (124, 16761), (128, 16788), (139, 16851), (141, 16863), (145, 16896), (148, 16914), (156, 16980), (157, 16983), (159, 16989), (162, 17004), (164, 17013), (166, 17025), (168, 17034), (182, 17127), (195, 17244), (196, 17247), (199, 17274), (200, 17286), (209, 17340), (214, 17361), (224, 17427), (227, 17454), (243, 17559), (252, 17607), (257, 17652), (266, 17700), (270, 17742), (271, 17751), (278, 17781), (279, 17784), (281, 17796), (291, 17853), (292, 17859), (297, 17880), (298, 17883), (325, 18021), (327, 18033), (340, 18093), (350, 18153), (355, 18183), (356, 18186), (358, 18195), (369, 18288), (377, 18378), (387, 18444), (390, 18456), (397, 18498), (413, 18561), (425, 18618), (429, 18687), (435, 18723), (447, 18804), (458, 18939),

Gene: StarStuff_29 Start: 16508, Stop: 19021, Start Num: 56

Candidate Starts for StarStuff_29:

(Start: 56 @16508 has 91 MA's), (84, 16688), (85, 16691), (128, 16937), (138, 16997), (141, 17012), (144, 17042), (145, 17045), (156, 17129), (162, 17153), (167, 17177), (171, 17204), (172, 17207),

(195, 17393), (198, 17420), (200, 17435), (209, 17489), (214, 17510), (224, 17576), (226, 17594), (227, 17603), (241, 17702), (246, 17735), (249, 17744), (257, 17801), (261, 17816), (276, 17921), (298, 18032), (301, 18044), (302, 18050), (308, 18083), (333, 18203), (355, 18332), (359, 18347), (363, 18377), (365, 18389), (367, 18425), (392, 18539), (393, 18551), (404, 18593), (442, 18800), (445, 18818), (446, 18821), (464, 19007),

Gene: Steamy_27 Start: 17182, Stop: 20196, Start Num: 12

Candidate Starts for Steamy_27:

(5, 17137), (Start: 12 @17182 has 88 MA's), (21, 17305), (Start: 25 @17359 has 33 MA's), (26, 17362), (27, 17371), (42, 17506), (46, 17527), (58, 17602), (67, 17674), (71, 17716), (86, 17812), (88, 17815), (104, 17941), (116, 18028), (122, 18046), (123, 18049), (138, 18139), (139, 18142), (141, 18154), (144, 18184), (148, 18205), (157, 18274), (168, 18325), (171, 18346), (183, 18427), (193, 18496), (195, 18535), (200, 18577), (203, 18595), (209, 18631), (214, 18652), (224, 18718), (225, 18727), (226, 18736), (227, 18745), (234, 18790), (238, 18820), (245, 18868), (257, 18943), (266, 18991), (276, 19063), (284, 19108), (287, 19123), (291, 19144), (297, 19171), (303, 19195), (305, 19204), (327, 19324), (340, 19384), (346, 19411), (355, 19474), (363, 19519), (373, 19615), (380, 19669), (391, 19720), (395, 19744), (397, 19753), (418, 19816), (431, 19906), (432, 19909), (446, 19993), (459, 20134),

Gene: StepMih_27 Start: 15972, Stop: 18998, Start Num: 12

Candidate Starts for StepMih_27:

(4, 15918), (Start: 12 @15972 has 88 MA's), (20, 16086), (Start: 25 @16152 has 33 MA's), (26, 16155), (28, 16164), (36, 16200), (46, 16251), (57, 16323), (68, 16395), (86, 16515), (88, 16518), (98, 16587), (101, 16632), (115, 16725), (118, 16734), (124, 16752), (128, 16779), (139, 16842), (141, 16854), (145, 16887), (148, 16905), (156, 16971), (157, 16974), (159, 16980), (162, 16995), (164, 17004), (166, 17016), (168, 17025), (182, 17118), (195, 17235), (196, 17238), (199, 17265), (200, 17277), (209, 17331), (214, 17352), (224, 17418), (227, 17445), (243, 17550), (252, 17598), (257, 17643), (266, 17691), (270, 17733), (271, 17742), (278, 17772), (279, 17775), (281, 17787), (291, 17844), (292, 17850), (297, 17871), (298, 17874), (325, 18012), (327, 18024), (340, 18084), (350, 18144), (355, 18174), (356, 18177), (358, 18186), (369, 18279), (377, 18369), (387, 18435), (390, 18447), (397, 18489), (413, 18552), (425, 18609), (429, 18678), (435, 18714), (447, 18795), (458, 18930),

Gene: Superchunk_25 Start: 15270, Stop: 17795, Start Num: 55

Candidate Starts for Superchunk_25:

(Start: 55 @15270 has 5 MA's), (59, 15288), (73, 15393), (83, 15459), (84, 15462), (85, 15465), (105, 15585), (118, 15666), (128, 15711), (141, 15786), (147, 15828), (152, 15882), (157, 15903), (164, 15936), (168, 15957), (171, 15978), (172, 15981), (195, 16167), (198, 16194), (200, 16209), (209, 16263), (214, 16284), (224, 16350), (257, 16575), (261, 16590), (264, 16617), (265, 16620), (276, 16695), (281, 16719), (282, 16722), (284, 16740), (297, 16803), (298, 16806), (306, 16845), (308, 16857), (325, 16944), (327, 16956), (340, 17016), (341, 17019), (345, 17043), (349, 17073), (355, 17106), (373, 17247), (392, 17313), (408, 17376), (442, 17574), (446, 17595), (451, 17670), (457, 17706), (463, 17781),

Gene: SweetiePie_26 Start: 16547, Stop: 19084, Start Num: 56

Candidate Starts for SweetiePie_26:

(Start: 56 @16547 has 91 MA's), (83, 16724), (84, 16727), (85, 16730), (91, 16760), (111, 16898), (114, 16919), (115, 16928), (122, 16949), (128, 16982), (138, 17042), (141, 17057), (148, 17108), (154, 17156), (156, 17174), (164, 17207), (166, 17219), (167, 17222), (168, 17228), (171, 17249), (172, 17252), (185, 17339), (195, 17438), (200, 17480), (201, 17489), (203, 17498), (212, 17546), (214, 17555), (224, 17621), (230, 17660), (257, 17846), (261, 17861), (266, 17894), (271, 17945), (276, 17966), (280, 17981), (281, 17990), (283, 18005), (297, 18074), (327, 18227), (333, 18248), (355, 18377), (363, 18422), (365, 18434), (367, 18470), (408, 18650), (410, 18659), (430, 18770), (434, 18800), (446, 18884),

Gene: SwirlSquare_27 Start: 15443, Stop: 17965, Start Num: 55

Candidate Starts for SwirlSquare_27:

(Start: 55 @15443 has 5 MA's), (59, 15461), (73, 15566), (84, 15635), (85, 15638), (114, 15821), (128, 15884), (134, 15917), (141, 15959), (157, 16076), (164, 16109), (167, 16124), (168, 16130), (171, 16151), (172, 16154), (195, 16340), (198, 16367), (200, 16382), (209, 16436), (214, 16457), (224, 16523), (257, 16748), (261, 16763), (266, 16796), (274, 16859), (276, 16868), (281, 16892), (282, 16895), (284, 16913), (291, 16949), (297, 16976), (298, 16979), (306, 17018), (308, 17030), (309, 17033), (325, 17117), (340, 17189), (345, 17216), (349, 17246), (355, 17279), (367, 17372), (392, 17486), (408, 17549), (442, 17747), (446, 17768), (451, 17843),

Gene: TNguyen7_25 Start: 15465, Stop: 18500, Start Num: 11

Candidate Starts for TNguyen7_25:

(Start: 11 @15465 has 33 MA's), (24, 15639), (26, 15651), (30, 15684), (68, 15894), (86, 16014), (88, 16017), (115, 16221), (122, 16242), (127, 16272), (128, 16275), (139, 16338), (141, 16350), (145, 16383), (148, 16401), (157, 16470), (159, 16476), (162, 16491), (164, 16500), (166, 16512), (168, 16521), (182, 16614), (195, 16731), (196, 16734), (198, 16758), (199, 16761), (200, 16773), (209, 16827), (214, 16848), (216, 16869), (224, 16914), (227, 16941), (230, 16953), (252, 17094), (257, 17139), (261, 17154), (270, 17229), (271, 17238), (278, 17268), (281, 17283), (282, 17286), (284, 17304), (288, 17325), (289, 17328), (297, 17367), (298, 17370), (314, 17454), (327, 17520), (333, 17541), (340, 17580), (348, 17619), (350, 17640), (355, 17670), (356, 17673), (358, 17682), (362, 17706), (369, 17775), (371, 17796), (377, 17865), (381, 17883), (387, 17931), (390, 17943), (397, 17985), (399, 17997), (412, 18045), (435, 18216), (437, 18246), (443, 18276), (447, 18297), (458, 18432), (461, 18480),

Gene: TarsusIV_26 Start: 16638, Stop: 19166, Start Num: 56

Candidate Starts for TarsusIV_26:

(Start: 56 @16638 has 91 MA's), (63, 16677), (65, 16683), (76, 16764), (79, 16779), (84, 16818), (95, 16863), (111, 16989), (114, 17010), (115, 17019), (122, 17040), (128, 17073), (141, 17148), (146, 17187), (147, 17190), (148, 17199), (150, 17220), (151, 17235), (154, 17247), (156, 17265), (164, 17298), (168, 17319), (171, 17340), (172, 17343), (195, 17529), (200, 17571), (201, 17580), (209, 17625), (214, 17646), (224, 17712), (230, 17751), (243, 17844), (257, 17937), (260, 17949), (281, 18081), (287, 18117), (292, 18144), (297, 18165), (298, 18168), (327, 18318), (333, 18339), (355, 18468), (359, 18483), (361, 18501), (367, 18561), (373, 18609), (399, 18714), (410, 18747), (420, 18771), (434, 18888), (446, 18966), (460, 19113),

Gene: Taurus_27 Start: 15978, Stop: 19004, Start Num: 12

Candidate Starts for Taurus_27:

(4, 15924), (Start: 12 @15978 has 88 MA's), (20, 16092), (Start: 25 @16158 has 33 MA's), (26, 16161), (28, 16170), (36, 16206), (46, 16257), (57, 16329), (68, 16401), (86, 16521), (88, 16524), (98, 16593), (101, 16638), (115, 16731), (118, 16740), (124, 16758), (128, 16785), (139, 16848), (141, 16860), (145, 16893), (148, 16911), (156, 16977), (157, 16980), (159, 16986), (162, 17001), (164, 17010), (166, 17022), (168, 17031), (178, 17109), (182, 17124), (195, 17241), (196, 17244), (199, 17271), (200, 17283), (209, 17337), (214, 17358), (224, 17424), (230, 17463), (243, 17556), (252, 17604), (257, 17649), (266, 17697), (270, 17739), (271, 17748), (278, 17778), (279, 17781), (281, 17793), (291, 17850), (292, 17856), (297, 17877), (298, 17880), (325, 18018), (327, 18030), (340, 18090), (349, 18147), (369, 18285), (371, 18306), (373, 18330), (377, 18375), (381, 18393), (387, 18441), (390, 18453), (397, 18495), (413, 18558), (425, 18615), (429, 18684), (435, 18720), (447, 18801), (458, 18936),

Gene: Terrific_30 Start: 17127, Stop: 19634, Start Num: 56

Candidate Starts for Terrific_30:

(Start: 56 @17127 has 91 MA's), (73, 17238), (82, 17295), (114, 17481), (128, 17544), (134, 17577), (136, 17583), (162, 17763), (164, 17772), (168, 17793), (171, 17814), (172, 17817), (173, 17835), (183, 17895), (195, 18003), (200, 18045), (209, 18099), (214, 18120), (223, 18183), (224, 18186), (226, 18204), (230, 18225), (257, 18411), (261, 18426), (264, 18453), (271, 18510), (275, 18525), (276, 18531), (278, 18540), (280, 18546), (284, 18576), (288, 18597), (298, 18642), (299, 18648), (306, 18681), (311, 18708), (325, 18780), (327, 18792), (340, 18852), (345, 18879), (355, 18942), (363, 18987), (365, 18999), (367, 19035), (372, 19071), (374, 19104), (395, 19167), (401, 19191), (431, 19335), (446, 19434), (453, 19521), (464, 19620),

Gene: Texage_25 Start: 16044, Stop: 19082, Start Num: 11

Candidate Starts for Texage_25:

(Start: 11 @16044 has 33 MA's), (24, 16218), (26, 16230), (30, 16263), (68, 16470), (70, 16491), (86, 16590), (88, 16593), (115, 16803), (122, 16824), (128, 16857), (139, 16920), (141, 16932), (145, 16965), (148, 16983), (150, 17004), (157, 17052), (159, 17058), (162, 17073), (164, 17082), (166, 17094), (168, 17103), (182, 17196), (195, 17313), (196, 17316), (199, 17343), (200, 17355), (209, 17409), (214, 17430), (224, 17496), (230, 17535), (252, 17676), (257, 17721), (270, 17811), (271, 17820), (278, 17850), (288, 17907), (291, 17922), (297, 17949), (298, 17952), (302, 17970), (324, 18081), (340, 18162), (349, 18219), (357, 18261), (369, 18357), (371, 18378), (373, 18402), (377, 18447), (381, 18465), (387, 18513), (390, 18525), (397, 18567), (399, 18579), (412, 18627), (435, 18798), (443, 18858), (445, 18870), (449, 18897), (450, 18918), (458, 19014), (461, 19062),

Gene: Tiffany_27 Start: 15873, Stop: 18899, Start Num: 12

Candidate Starts for Tiffany_27:

(4, 15819), (Start: 12 @15873 has 88 MA's), (20, 15987), (Start: 25 @16053 has 33 MA's), (26, 16056), (28, 16065), (36, 16101), (46, 16152), (57, 16224), (68, 16296), (86, 16416), (88, 16419), (98, 16488), (101, 16533), (115, 16626), (118, 16635), (124, 16653), (128, 16680), (139, 16743), (141, 16755), (145, 16788), (148, 16806), (156, 16872), (157, 16875), (159, 16881), (162, 16896), (164, 16905), (166, 16917), (168, 16926), (178, 17004), (182, 17019), (195, 17136), (196, 17139), (199, 17166), (200, 17178), (209, 17232), (214, 17253), (224, 17319), (230, 17358), (243, 17451), (252, 17499), (257, 17544), (266, 17592), (270, 17634), (271, 17643), (278, 17673), (279, 17676), (281, 17688), (291, 17745), (292, 17751), (297, 17772), (298, 17775), (325, 17913), (327, 17925), (340, 17985), (349, 18042), (369, 18180), (371, 18201), (373, 18225), (377, 18270), (381, 18288), (387, 18336), (390, 18348), (397, 18390), (413, 18453), (425, 18510), (429, 18579), (435, 18615), (447, 18696), (458, 18831),

Gene: Timshel_26 Start: 17496, Stop: 20864, Start Num: 3

Candidate Starts for Timshel_26:

(Start: 3 @17496 has 4 MA's), (6, 17625), (14, 17679), (16, 17721), (29, 17883), (53, 18033), (72, 18135), (94, 18270), (122, 18468), (134, 18534), (138, 18561), (139, 18564), (141, 18576), (149, 18639), (150, 18648), (152, 18672), (159, 18702), (168, 18747), (172, 18771), (192, 18915), (195, 18957), (198, 18984), (200, 18999), (206, 19038), (209, 19053), (214, 19074), (222, 19131), (224, 19140), (225, 19149), (236, 19224), (245, 19290), (258, 19368), (267, 19422), (276, 19485), (280, 19500), (284, 19530), (286, 19542), (287, 19545), (290, 19563), (292, 19572), (296, 19587), (300, 19605), (307, 19638), (310, 19656), (316, 19719), (326, 19785), (327, 19794), (328, 19797), (329, 19806), (330, 19809), (331, 19818), (332, 19827), (337, 19860), (338, 19872), (342, 19896), (347, 19926), (358, 20004), (360, 20016), (361, 20025), (362, 20028), (363, 20037), (364, 20046), (371, 20124), (373, 20148), (377, 20193), (381, 20211), (389, 20268), (392, 20286), (396, 20310), (398, 20319), (403, 20340), (404, 20361), (405, 20373), (408, 20394), (416, 20433), (423, 20466), (430, 20547), (435, 20580), (441, 20631), (445, 20652), (448, 20676), (453, 20742), (455, 20757), (456, 20763),

Gene: TinyPebbles_27 Start: 16062, Stop: 19088, Start Num: 12

Candidate Starts for TinyPebbles_27:

(4, 16008), (Start: 12 @16062 has 88 MA's), (20, 16176), (Start: 25 @16242 has 33 MA's), (26, 16245), (28, 16254), (36, 16290), (46, 16341), (57, 16413), (68, 16485), (86, 16605), (88, 16608), (98, 16677), (101, 16722), (115, 16815), (118, 16824), (124, 16842), (128, 16869), (139, 16932), (141, 16944), (145, 16977), (148, 16995), (156, 17061), (157, 17064), (159, 17070), (162, 17085), (164, 17094), (166, 17106), (168, 17115), (178, 17193), (182, 17208), (195, 17325), (196, 17328), (199, 17355), (200, 17367), (209, 17421), (214, 17442), (224, 17508), (230, 17547), (243, 17640), (252, 17688), (257, 17733), (266, 17781), (270, 17823), (271, 17832), (278, 17862), (279, 17865), (281, 17877), (291, 17934), (292, 17940), (297, 17961), (298, 17964), (325, 18102), (327, 18114), (340, 18174), (349, 18231), (369, 18369), (371, 18390), (373, 18414), (377, 18459), (381, 18477), (387, 18525), (390, 18537), (397, 18579), (413, 18642), (425, 18699), (429, 18768), (435, 18804), (447, 18885), (458, 19020),

Gene: TopsytheTRex_25 Start: 15744, Stop: 18260, Start Num: 56

Candidate Starts for TopsytheTRex_25:

(Start: 56 @15744 has 91 MA's), (73, 15855), (83, 15921), (84, 15924), (85, 15927), (114, 16113), (115, 16122), (118, 16131), (141, 16251), (148, 16302), (155, 16359), (158, 16371), (160, 16377), (162, 16392), (166, 16413), (168, 16422), (174, 16470), (195, 16632), (199, 16662), (200, 16674), (206, 16713), (209, 16728), (214, 16749), (222, 16806), (224, 16815), (227, 16842), (241, 16941), (257, 17040), (261, 17055), (271, 17139), (276, 17160), (284, 17205), (297, 17268), (298, 17271), (306, 17310), (308, 17322), (311, 17337), (327, 17421), (340, 17481), (345, 17508), (355, 17571), (359, 17586), (363, 17616), (373, 17712), (392, 17778), (408, 17841), (441, 18036), (442, 18039), (446, 18060), (461, 18237), (464, 18246),

Gene: Toaka_25 Start: 15938, Stop: 18865, Start Num: 25

Candidate Starts for Toaka_25:

(Start: 25 @15938 has 33 MA's), (27, 15950), (31, 15980), (46, 16109), (78, 16340), (86, 16394), (104, 16523), (116, 16610), (118, 16616), (120, 16622), (141, 16736), (142, 16757), (145, 16769), (148, 16787), (152, 16832), (156, 16853), (157, 16856), (162, 16877), (166, 16898), (168, 16907), (169, 16919), (170, 16922), (176, 16967), (182, 17000), (184, 17012), (195, 17117), (209, 17213), (214, 17234), (215, 17243), (216, 17255), (220, 17279), (222, 17291), (224, 17300), (225, 17309), (230, 17339), (238, 17402), (243, 17432), (246, 17459), (276, 17645), (284, 17690), (288, 17711), (291, 17726), (292, 17732), (297, 17753), (298, 17756), (309, 17810), (320, 17864), (323, 17882), (327, 17906), (340, 17966), (355, 18056), (358, 18068), (362, 18092), (363, 18101), (369, 18167), (374, 18233), (377, 18257), (397, 18377), (421, 18470), (429, 18548), (433, 18575), (435, 18584), (438, 18623), (440, 18632), (441, 18635), (451, 18734), (458, 18788), (459, 18800), (462, 18842),

Gene: Todacoro_26 Start: 16043, Stop: 19081, Start Num: 11

Candidate Starts for Todacoro_26:

(Start: 11 @16043 has 33 MA's), (24, 16217), (26, 16229), (30, 16262), (68, 16469), (70, 16490), (86, 16589), (88, 16592), (115, 16802), (118, 16811), (122, 16823), (128, 16856), (139, 16919), (141, 16931), (145, 16964), (148, 16982), (150, 17003), (157, 17051), (159, 17057), (162, 17072), (164, 17081), (166, 17093), (168, 17102), (182, 17195), (195, 17312), (196, 17315), (199, 17342), (200, 17354), (209, 17408), (214, 17429), (224, 17495), (230, 17534), (252, 17675), (257, 17720), (270, 17810), (271, 17819), (278, 17849), (288, 17906), (291, 17921), (297, 17948), (298, 17951), (302, 17969), (324, 18080), (340, 18161), (349, 18218), (357, 18260), (369, 18356), (371, 18377), (373, 18401), (377, 18446), (381, 18464), (387, 18512), (390, 18524), (397, 18566), (399, 18578), (412, 18626), (435, 18797), (443, 18857), (445, 18869), (449, 18896), (450, 18917), (458, 19013), (461, 19061),

Gene: Tomathan_29 Start: 16508, Stop: 19021, Start Num: 56

Candidate Starts for Tomathan_29:

(Start: 56 @16508 has 91 MA's), (84, 16688), (85, 16691), (128, 16937), (138, 16997), (141, 17012), (144, 17042), (145, 17045), (156, 17129), (162, 17153), (167, 17177), (171, 17204), (172, 17207),

(188, 17312), (195, 17393), (198, 17420), (200, 17435), (209, 17489), (214, 17510), (224, 17576), (226, 17594), (227, 17603), (241, 17702), (246, 17735), (249, 17744), (257, 17801), (261, 17816), (276, 17921), (281, 17945), (298, 18032), (301, 18044), (302, 18050), (308, 18083), (333, 18203), (355, 18332), (359, 18347), (363, 18377), (365, 18389), (367, 18425), (392, 18539), (393, 18551), (404, 18593), (442, 18800), (445, 18818), (446, 18821), (464, 19007),

Gene: Toro_28 Start: 17560, Stop: 20943, Start Num: 3

Candidate Starts for Toro_28:

(Start: 3 @17560 has 4 MA's), (29, 17947), (41, 18004), (64, 18136), (66, 18148), (72, 18199), (96, 18346), (120, 18529), (122, 18535), (128, 18568), (130, 18580), (144, 18673), (148, 18694), (149, 18706), (174, 18862), (177, 18886), (189, 18949), (195, 19024), (200, 19066), (209, 19120), (214, 19141), (222, 19198), (223, 19204), (224, 19207), (236, 19291), (237, 19306), (241, 19333), (243, 19339), (257, 19432), (260, 19444), (261, 19447), (284, 19597), (287, 19612), (290, 19630), (296, 19654), (300, 19672), (301, 19675), (316, 19786), (325, 19849), (326, 19852), (334, 19909), (335, 19915), (342, 19963), (347, 19993), (358, 20071), (360, 20083), (361, 20092), (364, 20113), (371, 20191), (377, 20260), (381, 20278), (386, 20329), (392, 20365), (393, 20377), (400, 20410), (404, 20440), (407, 20461), (416, 20512), (423, 20545), (430, 20626), (435, 20659), (437, 20689), (445, 20731), (448, 20755), (453, 20821), (455, 20836), (456, 20842), (460, 20893),

Gene: Travvers_29 Start: 16508, Stop: 19021, Start Num: 56

Candidate Starts for Travvers_29:

(Start: 56 @16508 has 91 MA's), (84, 16688), (85, 16691), (127, 16934), (128, 16937), (138, 16997), (141, 17012), (144, 17042), (145, 17045), (156, 17129), (162, 17153), (167, 17177), (171, 17204), (172, 17207), (189, 17318), (195, 17393), (198, 17420), (200, 17435), (209, 17489), (214, 17510), (224, 17576), (226, 17594), (227, 17603), (241, 17702), (246, 17735), (249, 17744), (257, 17801), (261, 17816), (276, 17921), (298, 18032), (301, 18044), (302, 18050), (308, 18083), (309, 18086), (333, 18203), (355, 18332), (359, 18347), (363, 18377), (365, 18389), (367, 18425), (392, 18539), (393, 18551), (404, 18593), (442, 18800), (445, 18818), (446, 18821), (464, 19007),

Gene: Trixie_29 Start: 18274, Stop: 20811, Start Num: 56

Candidate Starts for Trixie_29:

(Start: 56 @18274 has 91 MA's), (73, 18385), (84, 18454), (110, 18619), (111, 18625), (114, 18646), (115, 18655), (126, 18700), (128, 18709), (134, 18742), (141, 18784), (147, 18826), (148, 18835), (150, 18856), (154, 18883), (156, 18901), (168, 18955), (171, 18976), (172, 18979), (195, 19165), (200, 19207), (203, 19225), (212, 19273), (214, 19282), (224, 19348), (227, 19375), (230, 19387), (238, 19450), (240, 19465), (250, 19519), (257, 19573), (266, 19621), (274, 19684), (276, 19693), (284, 19738), (287, 19753), (292, 19780), (293, 19783), (298, 19804), (299, 19810), (303, 19825), (320, 19912), (333, 19975), (338, 19996), (355, 20104), (359, 20119), (363, 20149), (365, 20161), (367, 20197), (376, 20287), (404, 20368), (408, 20377), (410, 20386), (430, 20497), (434, 20527), (445, 20608), (446, 20611),

Gene: Trooper_26 Start: 16433, Stop: 18964, Start Num: 56

Candidate Starts for Trooper_26:

(Start: 56 @16433 has 91 MA's), (63, 16472), (65, 16478), (83, 16610), (84, 16613), (86, 16622), (91, 16646), (111, 16790), (114, 16811), (115, 16820), (120, 16835), (122, 16841), (128, 16874), (134, 16907), (141, 16949), (147, 16991), (148, 17000), (154, 17048), (156, 17066), (164, 17099), (168, 17120), (171, 17141), (172, 17144), (195, 17330), (200, 17372), (201, 17381), (214, 17447), (224, 17513), (230, 17552), (257, 17738), (261, 17753), (266, 17786), (281, 17882), (284, 17903), (292, 17945), (297, 17966), (298, 17969), (325, 18107), (327, 18119), (333, 18140), (350, 18239), (351, 18242), (355, 18269), (359, 18284), (363, 18314), (367, 18362), (373, 18410), (390, 18464), (399, 18515), (410, 18548), (420, 18572), (434, 18689), (444, 18755), (446, 18767),

Gene: Tubs_27 Start: 17590, Stop: 20499, Start Num: 25

Candidate Starts for Tubs_27:

(Start: 25 @17590 has 33 MA's), (27, 17602), (35, 17662), (52, 17821), (64, 17884), (71, 17947), (78, 17989), (88, 18046), (116, 18256), (118, 18262), (123, 18277), (138, 18367), (139, 18370), (141, 18382), (147, 18424), (152, 18478), (168, 18553), (171, 18574), (172, 18577), (173, 18595), (184, 18658), (193, 18724), (195, 18763), (198, 18790), (200, 18805), (205, 18835), (209, 18859), (212, 18871), (214, 18880), (224, 18946), (230, 18985), (239, 19051), (243, 19078), (246, 19105), (257, 19171), (265, 19216), (276, 19291), (284, 19336), (288, 19357), (292, 19378), (293, 19381), (297, 19399), (298, 19402), (304, 19429), (320, 19510), (327, 19552), (355, 19702), (359, 19717), (363, 19747), (368, 19798), (376, 19885), (378, 19894), (385, 19945), (397, 20008), (402, 20029), (410, 20065), (420, 20101), (421, 20107), (429, 20185), (433, 20212), (441, 20272), (450, 20341), (451, 20371), (455, 20398), (459, 20437), (462, 20479),

Gene: Turbido_28 Start: 17118, Stop: 19661, Start Num: 56

Candidate Starts for Turbido_28:

(Start: 56 @17118 has 91 MA's), (84, 17298), (85, 17301), (91, 17331), (110, 17469), (111, 17475), (114, 17496), (115, 17505), (118, 17514), (122, 17526), (130, 17571), (134, 17592), (141, 17634), (148, 17685), (152, 17730), (154, 17733), (156, 17751), (164, 17784), (166, 17796), (168, 17805), (171, 17826), (172, 17829), (195, 18015), (200, 18057), (201, 18066), (203, 18075), (214, 18132), (224, 18198), (230, 18237), (243, 18330), (249, 18366), (257, 18423), (268, 18489), (271, 18522), (275, 18537), (276, 18543), (278, 18552), (281, 18567), (284, 18588), (288, 18609), (292, 18630), (293, 18633), (297, 18651), (298, 18654), (308, 18705), (320, 18762), (323, 18780), (327, 18804), (340, 18864), (345, 18891), (355, 18954), (363, 18999), (376, 19137), (408, 19227), (410, 19236), (420, 19260), (430, 19347), (434, 19377), (446, 19461),

Gene: Ugenie5_24 Start: 17623, Stop: 20532, Start Num: 25

Candidate Starts for Ugenie5_24:

(Start: 25 @17623 has 33 MA's), (27, 17635), (35, 17695), (64, 17917), (71, 17980), (78, 18022), (88, 18079), (95, 18118), (116, 18289), (118, 18295), (123, 18310), (138, 18400), (139, 18403), (141, 18415), (147, 18457), (152, 18511), (168, 18586), (171, 18607), (172, 18610), (173, 18628), (184, 18691), (193, 18757), (195, 18796), (198, 18823), (200, 18838), (205, 18868), (209, 18892), (214, 18913), (224, 18979), (230, 19018), (239, 19084), (243, 19111), (246, 19138), (257, 19204), (265, 19249), (276, 19324), (284, 19369), (288, 19390), (292, 19411), (293, 19414), (297, 19432), (298, 19435), (304, 19462), (309, 19489), (320, 19543), (355, 19735), (359, 19750), (363, 19780), (368, 19831), (376, 19918), (378, 19927), (385, 19978), (397, 20041), (402, 20062), (410, 20098), (420, 20134), (421, 20140), (429, 20218), (433, 20245), (441, 20305), (450, 20374), (451, 20404), (455, 20431), (459, 20470), (462, 20512),

Gene: Updawg_28 Start: 17115, Stop: 19622, Start Num: 56

Candidate Starts for Updawg_28:

(Start: 56 @17115 has 91 MA's), (73, 17226), (82, 17283), (114, 17469), (128, 17532), (134, 17565), (136, 17571), (162, 17751), (164, 17760), (168, 17781), (171, 17802), (172, 17805), (173, 17823), (183, 17883), (195, 17991), (200, 18033), (209, 18087), (214, 18108), (223, 18171), (224, 18174), (226, 18192), (230, 18213), (257, 18399), (261, 18414), (264, 18441), (271, 18498), (275, 18513), (276, 18519), (278, 18528), (280, 18534), (284, 18564), (288, 18585), (298, 18630), (299, 18636), (306, 18669), (311, 18696), (325, 18768), (327, 18780), (340, 18840), (345, 18867), (355, 18930), (363, 18975), (365, 18987), (367, 19023), (372, 19059), (374, 19092), (395, 19155), (401, 19179), (431, 19323), (446, 19422), (453, 19509), (464, 19608),

Gene: VA6_26 Start: 16626, Stop: 19163, Start Num: 56

Candidate Starts for VA6_26:

(Start: 56 @16626 has 91 MA's), (84, 16806), (85, 16809), (95, 16857), (109, 16968), (111, 16977), (114, 16998), (115, 17007), (122, 17028), (128, 17061), (134, 17094), (148, 17187), (154, 17235), (156, 17253), (161, 17265), (164, 17286), (168, 17307), (171, 17328), (172, 17331), (195, 17517),

(200, 17559), (201, 17568), (214, 17634), (224, 17700), (227, 17727), (230, 17739), (241, 17826), (257, 17925), (276, 18045), (278, 18054), (280, 18060), (281, 18069), (284, 18090), (289, 18114), (293, 18135), (298, 18156), (299, 18162), (306, 18195), (308, 18207), (320, 18264), (340, 18366), (345, 18393), (355, 18456), (408, 18729), (410, 18738), (430, 18849), (434, 18879), (446, 18963),

Gene: VC3_29 Start: 16651, Stop: 19164, Start Num: 56

Candidate Starts for VC3_29:

(Start: 56 @16651 has 91 MA's), (84, 16831), (85, 16834), (103, 16945), (128, 17080), (138, 17140), (141, 17155), (144, 17185), (145, 17188), (156, 17272), (162, 17296), (167, 17320), (171, 17347), (172, 17350), (189, 17461), (195, 17536), (198, 17563), (200, 17578), (209, 17632), (214, 17653), (224, 17719), (226, 17737), (227, 17746), (241, 17845), (246, 17878), (249, 17887), (257, 17944), (261, 17959), (276, 18064), (298, 18175), (301, 18187), (302, 18193), (308, 18226), (333, 18346), (355, 18475), (359, 18490), (363, 18520), (365, 18532), (367, 18568), (392, 18682), (393, 18694), (404, 18736), (442, 18943), (445, 18961), (446, 18964), (464, 19150),

Gene: Vanisoa_25 Start: 15668, Stop: 18586, Start Num: 25

Candidate Starts for Vanisoa_25:

(Start: 25 @15668 has 33 MA's), (27, 15680), (46, 15839), (52, 15902), (78, 16070), (86, 16124), (88, 16127), (104, 16253), (114, 16328), (115, 16337), (116, 16340), (118, 16346), (120, 16352), (141, 16466), (142, 16487), (148, 16517), (149, 16529), (152, 16562), (156, 16583), (157, 16586), (162, 16607), (166, 16628), (168, 16637), (169, 16649), (176, 16697), (182, 16730), (184, 16742), (195, 16847), (197, 16859), (204, 16910), (209, 16943), (213, 16958), (214, 16964), (215, 16973), (216, 16985), (220, 17009), (222, 17021), (224, 17030), (246, 17189), (250, 17201), (257, 17255), (276, 17375), (284, 17420), (288, 17441), (292, 17462), (293, 17465), (297, 17483), (298, 17486), (304, 17513), (309, 17540), (321, 17600), (327, 17636), (338, 17678), (355, 17786), (368, 17882), (376, 17969), (378, 17978), (385, 18029), (391, 18059), (397, 18092), (402, 18113), (410, 18152), (421, 18194), (429, 18272), (433, 18299), (441, 18359), (451, 18458), (458, 18512), (459, 18524), (462, 18566),

Gene: Veracruz_25 Start: 16043, Stop: 19081, Start Num: 11

Candidate Starts for Veracruz_25:

(Start: 11 @16043 has 33 MA's), (24, 16217), (26, 16229), (30, 16262), (68, 16469), (70, 16490), (86, 16589), (88, 16592), (115, 16802), (118, 16811), (122, 16823), (128, 16856), (139, 16919), (141, 16931), (145, 16964), (148, 16982), (150, 17003), (157, 17051), (159, 17057), (162, 17072), (164, 17081), (166, 17093), (168, 17102), (182, 17195), (195, 17312), (196, 17315), (199, 17342), (200, 17354), (209, 17408), (214, 17429), (224, 17495), (230, 17534), (252, 17675), (257, 17720), (270, 17810), (271, 17819), (278, 17849), (288, 17906), (291, 17921), (297, 17948), (298, 17951), (302, 17969), (324, 18080), (340, 18161), (349, 18218), (357, 18260), (369, 18356), (371, 18377), (373, 18401), (377, 18446), (381, 18464), (387, 18512), (390, 18524), (397, 18566), (399, 18578), (412, 18626), (435, 18797), (443, 18857), (445, 18869), (449, 18896), (450, 18917), (458, 19013), (461, 19061),

Gene: Vix_27 Start: 16061, Stop: 19087, Start Num: 12

Candidate Starts for Vix_27:

(4, 16007), (Start: 12 @16061 has 88 MA's), (20, 16175), (Start: 25 @16241 has 33 MA's), (26, 16244), (28, 16253), (36, 16289), (46, 16340), (57, 16412), (68, 16484), (86, 16604), (88, 16607), (98, 16676), (101, 16721), (115, 16814), (118, 16823), (124, 16841), (128, 16868), (139, 16931), (141, 16943), (145, 16976), (148, 16994), (156, 17060), (157, 17063), (159, 17069), (162, 17084), (164, 17093), (166, 17105), (168, 17114), (178, 17192), (182, 17207), (195, 17324), (196, 17327), (199, 17354), (200, 17366), (209, 17420), (214, 17441), (224, 17507), (230, 17546), (243, 17639), (252, 17687), (257, 17732), (266, 17780), (270, 17822), (271, 17831), (278, 17861), (279, 17864), (281, 17876), (291, 17933), (292, 17939), (297, 17960), (298, 17963), (325, 18101), (327, 18113), (340, 18173), (349, 18230), (369, 18368), (371, 18389), (373, 18413), (377, 18458), (381, 18476), (387, 18524),

(390, 18536), (397, 18578), (413, 18641), (425, 18698), (429, 18767), (435, 18803), (447, 18884), (458, 19019),

Gene: Watson_27 Start: 15971, Stop: 18997, Start Num: 12

Candidate Starts for Watson_27:

(4, 15917), (Start: 12 @15971 has 88 MA's), (20, 16085), (Start: 25 @16151 has 33 MA's), (26, 16154), (28, 16163), (36, 16199), (46, 16250), (57, 16322), (68, 16394), (86, 16514), (88, 16517), (98, 16586), (101, 16631), (115, 16724), (118, 16733), (124, 16751), (128, 16778), (139, 16841), (141, 16853), (145, 16886), (148, 16904), (156, 16970), (157, 16973), (159, 16979), (162, 16994), (164, 17003), (166, 17015), (168, 17024), (182, 17117), (195, 17234), (196, 17237), (199, 17264), (200, 17276), (209, 17330), (214, 17351), (224, 17417), (227, 17444), (243, 17549), (252, 17597), (257, 17642), (266, 17690), (270, 17732), (271, 17741), (278, 17771), (279, 17774), (281, 17786), (291, 17843), (292, 17849), (297, 17870), (298, 17873), (325, 18011), (327, 18023), (340, 18083), (350, 18143), (355, 18173), (356, 18176), (358, 18185), (369, 18278), (377, 18368), (387, 18434), (390, 18446), (397, 18488), (413, 18551), (425, 18608), (429, 18677), (435, 18713), (447, 18794), (458, 18929),

Gene: WeiHuaDA_32 Start: 18881, Stop: 21418, Start Num: 56

Candidate Starts for WeiHuaDA_32:

(Start: 56 @18881 has 91 MA's), (73, 18992), (84, 19061), (110, 19226), (111, 19232), (114, 19253), (115, 19262), (122, 19283), (128, 19316), (129, 19325), (134, 19349), (138, 19376), (141, 19391), (147, 19433), (148, 19442), (154, 19490), (156, 19508), (162, 19532), (171, 19583), (172, 19586), (195, 19772), (200, 19814), (212, 19880), (214, 19889), (224, 19955), (230, 19994), (243, 20087), (257, 20180), (261, 20195), (276, 20300), (284, 20345), (292, 20387), (293, 20390), (298, 20411), (299, 20417), (303, 20432), (325, 20549), (333, 20582), (338, 20603), (355, 20711), (359, 20726), (363, 20756), (365, 20768), (367, 20804), (404, 20975), (408, 20984), (410, 20993), (430, 21104), (434, 21134), (445, 21215), (446, 21218),

Gene: Whabigail7_28 Start: 17106, Stop: 19649, Start Num: 56

Candidate Starts for Whabigail7_28:

(Start: 56 @17106 has 91 MA's), (84, 17286), (85, 17289), (110, 17457), (111, 17463), (114, 17484), (115, 17493), (118, 17502), (122, 17514), (130, 17559), (134, 17580), (141, 17622), (148, 17673), (152, 17718), (154, 17721), (156, 17739), (164, 17772), (166, 17784), (168, 17793), (171, 17814), (172, 17817), (195, 18003), (200, 18045), (201, 18054), (203, 18063), (214, 18120), (224, 18186), (230, 18225), (243, 18318), (249, 18354), (257, 18411), (268, 18477), (271, 18510), (275, 18525), (276, 18531), (278, 18540), (281, 18555), (284, 18576), (288, 18597), (292, 18618), (293, 18621), (297, 18639), (298, 18642), (308, 18693), (320, 18750), (323, 18768), (327, 18792), (340, 18852), (345, 18879), (355, 18942), (363, 18987), (376, 19125), (408, 19215), (410, 19224), (420, 19248), (430, 19335), (434, 19365), (446, 19449),

Gene: WideWale_28 Start: 17115, Stop: 19622, Start Num: 56

Candidate Starts for WideWale_28:

(Start: 56 @17115 has 91 MA's), (73, 17226), (82, 17283), (114, 17469), (128, 17532), (134, 17565), (136, 17571), (162, 17751), (164, 17760), (168, 17781), (171, 17802), (172, 17805), (173, 17823), (183, 17883), (195, 17991), (200, 18033), (209, 18087), (214, 18108), (223, 18171), (224, 18174), (226, 18192), (230, 18213), (257, 18399), (261, 18414), (264, 18441), (271, 18498), (275, 18513), (276, 18519), (278, 18528), (280, 18534), (284, 18564), (288, 18585), (298, 18630), (299, 18636), (306, 18669), (311, 18696), (325, 18768), (327, 18780), (340, 18840), (345, 18867), (355, 18930), (363, 18975), (365, 18987), (367, 19023), (372, 19059), (374, 19092), (395, 19155), (401, 19179), (431, 19323), (446, 19422), (453, 19509), (464, 19608),

Gene: Wooldri_29 Start: 15890, Stop: 18916, Start Num: 12

Candidate Starts for Wooldri_29:

(4, 15836), (Start: 12 @15890 has 88 MA's), (20, 16004), (Start: 25 @16070 has 33 MA's), (26, 16073), (28, 16082), (36, 16118), (46, 16169), (57, 16241), (68, 16313), (86, 16433), (88, 16436), (98, 16505), (101, 16550), (115, 16643), (118, 16652), (124, 16670), (128, 16697), (139, 16760), (141, 16772), (145, 16805), (148, 16823), (156, 16889), (157, 16892), (159, 16898), (162, 16913), (164, 16922), (166, 16934), (168, 16943), (178, 17021), (182, 17036), (195, 17153), (196, 17156), (199, 17183), (200, 17195), (209, 17249), (214, 17270), (224, 17336), (230, 17375), (243, 17468), (252, 17516), (257, 17561), (266, 17609), (270, 17651), (271, 17660), (278, 17690), (279, 17693), (281, 17705), (291, 17762), (292, 17768), (297, 17789), (298, 17792), (325, 17930), (327, 17942), (340, 18002), (349, 18059), (369, 18197), (371, 18218), (373, 18242), (377, 18287), (381, 18305), (387, 18353), (390, 18365), (397, 18407), (413, 18470), (425, 18527), (429, 18596), (435, 18632), (447, 18713), (458, 18848),

Gene: WorldCup_24 Start: 15668, Stop: 18586, Start Num: 25

Candidate Starts for WorldCup_24:

(Start: 25 @15668 has 33 MA's), (27, 15680), (46, 15839), (51, 15881), (52, 15902), (71, 16028), (78, 16070), (86, 16124), (88, 16127), (104, 16253), (114, 16328), (115, 16337), (116, 16340), (120, 16352), (146, 16505), (148, 16517), (149, 16529), (150, 16538), (152, 16562), (156, 16583), (157, 16586), (162, 16607), (166, 16628), (168, 16637), (169, 16649), (176, 16697), (184, 16742), (195, 16847), (204, 16910), (208, 16940), (209, 16943), (214, 16964), (215, 16973), (216, 16985), (220, 17009), (224, 17030), (230, 17069), (257, 17255), (260, 17267), (265, 17300), (276, 17375), (278, 17384), (284, 17420), (288, 17441), (292, 17462), (293, 17465), (297, 17483), (298, 17486), (304, 17513), (309, 17540), (321, 17600), (338, 17678), (355, 17786), (363, 17831), (368, 17882), (375, 17963), (376, 17969), (378, 17978), (385, 18029), (397, 18092), (402, 18113), (410, 18152), (421, 18194), (429, 18272), (433, 18299), (441, 18359), (446, 18383), (451, 18458), (459, 18524), (462, 18566),

Gene: XianYue_26 Start: 16577, Stop: 19105, Start Num: 56

Candidate Starts for XianYue_26:

(Start: 56 @16577 has 91 MA's), (83, 16754), (84, 16757), (85, 16760), (95, 16808), (111, 16928), (114, 16949), (115, 16958), (118, 16967), (128, 17012), (134, 17045), (138, 17072), (141, 17087), (147, 17129), (148, 17138), (150, 17159), (154, 17186), (156, 17204), (164, 17237), (168, 17258), (171, 17279), (172, 17282), (195, 17468), (200, 17510), (201, 17519), (209, 17564), (214, 17585), (224, 17651), (230, 17690), (246, 17810), (251, 17828), (257, 17876), (260, 17888), (261, 17891), (276, 17996), (280, 18011), (281, 18020), (287, 18056), (292, 18083), (293, 18086), (297, 18104), (298, 18107), (351, 18380), (355, 18407), (359, 18422), (363, 18452), (365, 18464), (367, 18500), (373, 18548), (390, 18602), (399, 18653), (410, 18686), (420, 18710), (434, 18827), (446, 18905), (464, 19091),

Gene: Yecey3_26 Start: 15697, Stop: 18618, Start Num: 25

Candidate Starts for Yecey3_26:

(Start: 15 @15568 has 1 MA's), (Start: 25 @15697 has 33 MA's), (27, 15709), (46, 15868), (51, 15910), (52, 15931), (78, 16099), (86, 16153), (88, 16156), (104, 16285), (114, 16360), (115, 16369), (116, 16372), (118, 16378), (120, 16384), (130, 16435), (141, 16498), (142, 16519), (144, 16528), (146, 16537), (148, 16549), (152, 16594), (154, 16597), (156, 16615), (157, 16618), (162, 16639), (168, 16669), (169, 16681), (176, 16729), (182, 16762), (184, 16774), (195, 16879), (202, 16936), (203, 16939), (209, 16975), (214, 16996), (215, 17005), (216, 17017), (224, 17062), (230, 17101), (238, 17164), (250, 17233), (265, 17332), (275, 17401), (276, 17407), (284, 17452), (287, 17467), (288, 17473), (297, 17515), (298, 17518), (304, 17545), (309, 17572), (336, 17698), (338, 17710), (355, 17818), (361, 17851), (363, 17863), (365, 17875), (367, 17911), (368, 17914), (374, 17980), (376, 18001), (377, 18004), (379, 18013), (383, 18043), (397, 18124), (402, 18145), (414, 18199), (421, 18226), (428, 18298), (429, 18304), (441, 18391), (444, 18403), (446, 18415), (451, 18490), (457, 18526), (459, 18556),

Gene: Zarafa_25 Start: 15557, Stop: 18595, Start Num: 11

Candidate Starts for Zarafa_25:

(Start: 11 @15557 has 33 MA's), (24, 15731), (26, 15743), (30, 15776), (68, 15986), (88, 16109), (92, 16130), (115, 16316), (128, 16370), (139, 16433), (141, 16445), (145, 16478), (148, 16496), (157, 16565), (159, 16571), (162, 16586), (164, 16595), (166, 16607), (168, 16616), (182, 16709), (195, 16826), (196, 16829), (199, 16856), (200, 16868), (209, 16922), (214, 16943), (216, 16964), (224, 17009), (230, 17048), (243, 17141), (252, 17189), (257, 17234), (261, 17249), (270, 17324), (271, 17333), (278, 17363), (281, 17378), (291, 17435), (297, 17462), (298, 17465), (327, 17615), (333, 17636), (340, 17675), (348, 17714), (355, 17765), (356, 17768), (358, 17777), (362, 17801), (369, 17870), (371, 17891), (377, 17960), (381, 17978), (387, 18026), (390, 18038), (397, 18080), (399, 18092), (412, 18140), (435, 18311), (437, 18341), (443, 18371), (447, 18392), (458, 18527), (459, 18539), (461, 18575),

Gene: Zetzy_26 Start: 15513, Stop: 18539, Start Num: 12

Candidate Starts for Zetzy_26:

(4, 15459), (Start: 12 @15513 has 88 MA's), (20, 15627), (Start: 25 @15693 has 33 MA's), (26, 15696), (28, 15705), (36, 15741), (46, 15792), (57, 15864), (68, 15936), (86, 16056), (88, 16059), (98, 16128), (101, 16173), (115, 16266), (118, 16275), (124, 16293), (128, 16320), (139, 16383), (141, 16395), (145, 16428), (148, 16446), (156, 16512), (157, 16515), (159, 16521), (162, 16536), (166, 16557), (168, 16566), (182, 16659), (195, 16776), (196, 16779), (199, 16806), (200, 16818), (209, 16872), (214, 16893), (224, 16959), (230, 16998), (243, 17091), (252, 17139), (257, 17184), (261, 17199), (270, 17274), (271, 17283), (281, 17328), (288, 17370), (297, 17412), (305, 17445), (325, 17553), (340, 17625), (350, 17685), (355, 17715), (356, 17718), (358, 17727), (377, 17910), (387, 17976), (390, 17988), (397, 18030), (413, 18093), (425, 18150), (429, 18219), (435, 18255), (447, 18336), (458, 18471), (459, 18483),

Gene: Zimmer_28 Start: 18207, Stop: 21335, Start Num: 12

Candidate Starts for Zimmer_28:

(1, 17961), (7, 18177), (Start: 12 @18207 has 88 MA's), (Start: 25 @18384 has 33 MA's), (27, 18396), (42, 18534), (64, 18681), (71, 18744), (78, 18786), (86, 18840), (88, 18843), (114, 19044), (115, 19053), (116, 19056), (128, 19107), (134, 19140), (140, 19176), (148, 19233), (152, 19278), (154, 19281), (156, 19299), (157, 19302), (162, 19323), (168, 19353), (175, 19404), (176, 19413), (202, 19620), (206, 19644), (209, 19659), (210, 19662), (214, 19680), (215, 19689), (216, 19701), (223, 19743), (224, 19746), (229, 19779), (230, 19785), (238, 19848), (257, 19971), (276, 20091), (283, 20130), (284, 20136), (287, 20151), (292, 20178), (293, 20181), (297, 20199), (299, 20208), (301, 20214), (310, 20262), (325, 20340), (340, 20412), (341, 20415), (343, 20427), (355, 20502), (358, 20514), (362, 20538), (363, 20547), (377, 20703), (382, 20739), (384, 20748), (397, 20823), (414, 20904), (415, 20907), (416, 20913), (435, 21060), (440, 21108), (441, 21111), (446, 21135), (459, 21276),