

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 193701 Report

This analysis was run 11/02/24 on database version 579.

Pham number 193701 has 257 members, 44 are drafts.

Phages represented in each track:

- Track 1 : Ranunculus_17
- Track 2 : Wilde_17, Tank_17
- Track 3 : Rizwana_16
- Track 4 : Beagle_23
- Track 5 : Pointis_22, MellowYellow_19
- Track 6 : Pureglobe5_24, Odyssey395_24
- Track 7 : NyleyClemson_19
- Track 8 : BruhMoment_18
- Track 9 : AWGoat_17
- Track 10 : SilentRX_18
- Track 11 : Jambalaya_12, Shinji_12, Savbucketdawg_12, TillyBobJoe_12, Portcullis_12
- Track 12 : Salvador_12, Twister6_12, Danyall_12, KimmyK_12, Fugax_12, CoveyB_12, Togo_12, Evamon_12, Mutzi_12, ClamChowder_12, SmokingBunny_12, PinkCoffee_12, Barb_12
- Track 13 : Fireball_13, Gezellig_12, Phlop_12, Wizard_12, PullumCavea_12
- Track 14 : YungMoney_12
- Track 15 : Arri_13
- Track 16 : VanDeWege_13
- Track 17 : RogerDodger_13
- Track 18 : Valary_13
- Track 19 : Nubi_12
- Track 20 : Bakery_13
- Track 21 : Halo3_13
- Track 22 : Clown_16
- Track 23 : Stultus_12
- Track 24 : Keitabear_13, Ailee_12, Angelicage_12
- Track 25 : Affeca_12
- Track 26 : Kewpiedoll_13, Sanjuju_11, Fitzgerald_11, Jabberwocky_11
- Track 27 : Sedona_13, ChadMasterC_12, Vivi2_11, Barsten_13, Geodirt_12
- Track 28 : Saronaya_12, Gustavo_12, Kwobi_12, Ashertheman_12, LilHam_10, SchottB_11, Ribeye_13, Bizzy_13
- Track 29 : Paries_13, BobBob_10, Charming_10, Tangent_10, Brandonk123_15
- Track 30 : Tycho_12, Flatwoods_13
- Track 31 : Fosterous_10
- Track 32 : Shivanishola_12
- Track 33 : Kroos_12

- Track 34 : Derg_10
- Track 35 : Kamashten_13, Thing3_13
- Track 36 : Tangerine_12, Gaea_12, StorminNorm_12, Baumdotcom_12
- Track 37 : Lennon_13, Sitar_13
- Track 38 : RiverRaider_13
- Track 39 : McKinley_13
- Track 40 : Rofo_12, Galadriel_14, Bibwit_12, Nordenberg_7
- Track 41 : Baddon_12
- Track 42 : YorkOnyx_12
- Track 43 : MoontowerMania_11
- Track 44 : Love_14
- Track 45 : JKSyngboy_11
- Track 46 : Inspectinfecti_14, Phinally_13, Leonard_13, Ali17_11
- Track 47 : Hans_15, Phauci_6
- Track 48 : MelBins_13
- Track 49 : EMoore_7
- Track 50 : GTE6_14
- Track 51 : Tiamoceli_14, Chickadee_13, RoadKill_11, EdmundFerry_12, Twonlo_11
- Track 52 : Dextert_14
- Track 53 : Kwekel_13
- Track 54 : ViaConlectus_14, Natkenzie_14, Abblin_14, Sampson_14, Scioto_14
- Track 55 : Tardus_14
- Track 56 : Verity_14, DoctorFroggo_14, Delrey21_14
- Track 57 : APunk_15
- Track 58 : Zipp_14
- Track 59 : Zitch_15
- Track 60 : Lilbeanie_13
- Track 61 : Phendrix_65
- Track 62 : GodonK_66
- Track 63 : BlueNGold_76, Boopy_77, Forza_77, Mareelih_76
- Track 64 : GMA2_9
- Track 65 : Sixama_72
- Track 66 : Ariadne_28
- Track 67 : LittleFortune_21, Yeti_20, Phorgeous_19
- Track 68 : Jefe_20
- Track 69 : Busephilis_20, Hermeonysus_19
- Track 70 : ClearAsMud_22
- Track 71 : Shotgun_19, CrazyRich_19, Savannah_19, Ramiel05_19, Kowalski_19
- Track 72 : Jollipop_20
- Track 73 : Ganandorf_19
- Track 74 : PiperSansNom_20
- Track 75 : Onika_19
- Track 76 : Jayden_20
- Track 77 : NoodlelyBoi_19
- Track 78 : Gina_20, Teamocil_20
- Track 79 : Megan_13
- Track 80 : KaiHaiDragon_20, EarickHC_20
- Track 81 : Pulchra_21
- Track 82 : Selwyn23_21
- Track 83 : Paschalis_19, PierreOrion_20
- Track 84 : BrazzalePHS_19
- Track 85 : Smarties_28
- Track 86 : Merry_20, Sunny_20

- Track 87 : Piperis_20
- Track 88 : Fireman_20
- Track 89 : Antares_20
- Track 90 : Tyrumbra_18
- Track 91 : Scumberland_21, Phrancesco_21, Honeyfin_21
- Track 92 : Nicole72_14
- Track 93 : Metamorphoo_20
- Track 94 : Crisis_21
- Track 95 : Cranjis_21
- Track 96 : RobsFeet_21
- Track 97 : Quhwah_22
- Track 98 : Sillytadpoles_22, Phabia_22, Quammi_20, Zagie_22, Llemily_22, StrawberryJamm_24, Casend_23, Wheelie_21, Teehee_23, DonaldDuck_22, Tissue_22, Viceroy_21, Judebell_24, FrankDeliGuy_20, Rudy_20, Lonelysoil_21, Jehoshaphat_24, Wayne3_23
- Track 99 : Fizzles_22
- Track 100 : Gazebo_21, Blab_20
- Track 101 : Statler_24, BabyDotz_21, Rowlf_18
- Track 102 : MorillMayhem_21
- Track 103 : OneinaGillian_21, CandC_20
- Track 104 : Mashley_20, Hyperion_21, Kyva_24, Grassboy_23
- Track 105 : AluminumJesus_20
- Track 106 : RubyRalph_24, Fransoyer_24
- Track 107 : BirdInFrench_21, Wilca_21
- Track 108 : Zhafia_25, Namago_22
- Track 109 : Tempo_21, Kelcole_20, RobinRose_23, Fregley_22, Romm_23
- Track 110 : Pepe25_20
- Track 111 : Nike_22, Squash_24
- Track 112 : Marcie_26
- Track 113 : Altheas_24
- Track 114 : Phinky_28
- Track 115 : SadLad_25
- Track 116 : EverythinBagel_22
- Track 117 : SallyK_23
- Track 118 : Cinna_12
- Track 119 : MementoMori_13
- Track 120 : Margaery_12
- Track 121 : Kozie_14
- Track 122 : Cressida_13
- Track 123 : Matzah_13
- Track 124 : Terij_13
- Track 125 : Talia1610_76
- Track 126 : DunneganBoMo_69
- Track 127 : Bloom_80, Mimi_83, Patbob_76
- Track 128 : SJReid_81
- Track 129 : Phrampa_70
- Track 130 : Racecar_77
- Track 131 : Atuin_73
- Track 132 : A3Wally_82, PauloDiaboli_82
- Track 133 : Zooman_67
- Track 134 : Big4_71
- Track 135 : Cece_66
- Track 136 : Pumpernickel_80

- Track 137 : FuzzBuster_24
- Track 138 : RomansRevenge_13
- Track 139 : Kithara_22
- Track 140 : Sunfish_25

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

The start number called the most often in the published annotations is 6, it was called in 97 of the 213 non-draft genes in the pham.

Genes that call this "Most Annotated" start:

- APunk_15, Abblin_14, Affeca_12, Ailee_12, Ali17_11, Angelicage_12, Arri_13, Ashertheman_12, Baddon_12, Bakery_13, Barb_12, Barsten_13, Baumdotcom_12, Bibwit_12, Bizzy_13, BobBob_10, Brandonk123_15, ChadMasterC_12, Charming_10, Chickadee_13, ClamChowder_12, Clown_16, CoveyB_12, Danyall_12, Delrey21_14, Derg_10, Dexdert_14, DoctorFroggo_14, EMOore_7, EdmundFerry_12, Evamon_12, Fireball_13, Fitzgerald_11, Flatwoods_13, Fosterous_10, Fugax_12, GTE6_14, Gaea_12, Galadriel_14, Geodirt_12, Gezellig_12, Gustavo_12, Halo3_13, Hans_15, Inspectinfecti_14, JKSyngboy_11, Jabberwocky_11, Jambalaya_12, Kamashten_13, Keitabear_13, Kewpiedoll_13, KimmyK_12, Kroos_12, Kwekel_13, Kwobi_12, Lennon_13, Leonard_13, LilHam_10, Love_14, McKinley_13, MelBins_13, MoontowerMania_11, Mutzi_12, Natkenzie_14, Nordenberg_7, Nubi_12, Paries_13, Phauci_6, Phinally_13, Phlop_12, PinkCoffee_12, Portcullis_12, PullumCavea_12, Ribeye_13, RiverRaider_13, RoadKill_11, Rofo_12, RogerDodger_13, Salvador_12, Sampson_14, Sanjuju_11, Saronaya_12, Savbucketdawg_12, SchottB_11, Scioto_14, Sedona_13, Shinji_12, Shivanishola_12, Sitar_13, SmokingBunny_12, StorminNorm_12, Stultus_12, Tangent_10, Tangerine_12, Tardus_14, Thing3_13, Tiamoceli_14, TillyBobJoe_12, Togo_12, Twister6_12, Twonlo_11, Tycho_12, Valary_13, VanDeWege_13, Verity_14, ViaConlectus_14, Vivi2_11, Wizard_12, YorkOnyx_12, YungMoney_12, Zipp_14, Zitch_15,

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

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

- A3Wally_82, AWGoat_17, Altheas_24, AluminumJesus_20, Antares_20, Ariadne_28, Atuin_73, BabyDotz_21, Beagle_23, Big4_71, BirdInFrench_21, Blab_20, Bloom_80, BlueNGold_76, Boopy_77, BrazzalePHS_19, BruhMoment_18, Busephilis_20, CandC_20, Casend_23, Cece_66, Cinna_12, ClearAsMud_22, Cranjis_21, CrazyRich_19, Cressida_13, Crisis_21, DonaldDuck_22, DunneganBoMo_69, EarickHC_20, EverythinBagel_22, Fireman_20, Fizzles_22, Forza_77, FrankDeliGuy_20, Fransoyer_24, Fregley_22, FuzzBuster_24, GMA2_9, Ganandorf_19, Gazebo_21, Gina_20, GodonK_66, Grassboy_23, Hermeonysus_19, Honeyfin_21, Hyperion_21, Jayden_20, Jefe_20, Jehoshaphat_24, Jollipop_20, Judebell_24, KaiHaiDragon_20, Kelcole_20, Kithara_22, Kowalski_19, Kozie_14, Kyva_24, Lilbeanie_13, LittleFortune_21, Llemily_22, Lonelysoil_21, Marcie_26, Mareelih_76, Margaery_12, Mashley_20, Matzah_13, Megan_13, MellowYellow_19, MementoMori_13, Merry_20, Metamorphoo_20, Mimi_83, MorillMayhem_21, Namago_22, Nicole72_14, Nike_22, NoodlelyBoi_19, NyleyClemson_19,

Odyssey395_24, OneinaGillian_21, Onika_19, Paschalis_19, Patbob_76, PauloDiaboli_82, Pepe25_20, Phabia_22, Phendrix_65, Phinky_28, Phorgeous_19, Phrampa_70, Phrancesco_21, PierreOrion_20, PiperSansNom_20, Piperis_20, Pointis_22, Pulchra_21, Pumpernickel_80, Pureglobe5_24, Quammi_20, Quhwah_22, Racecar_77, Ramiel05_19, Ranunculus_17, Rizwana_16, RobinRose_23, RobsFeet_21, RomansRevenge_13, Romm_23, Rowlf_18, RubyRalph_24, Rudy_20, SJReid_81, SadLad_25, SallyK_23, Savannah_19, Scumberland_21, Selwyn23_21, Shotgun_19, SilentRX_18, Sillytadpoles_22, Sixama_72, Smarties_28, Squash_24, Statler_24, StrawberryJamm_24, Sunfish_25, Sunny_20, Talia1610_76, Tank_17, Teamocil_20, Teehee_23, Tempo_21, Terij_13, Tissue_22, Tyrumbra_18, Viceroy_21, Wayne3_23, Wheelie_21, Wilca_21, Wilde_17, Yeti_20, Zagie_22, Zhafia_25, Zooman_67,

Summary by start number:

Start 3:

- Found in 1 of 257 (0.4%) of genes in pham
- Manual Annotations of this start: 1 of 213
- Called 100.0% of time when present
- Phage (with cluster) where this start called: Lilbeanie_13 (DE5),

Start 6:

- Found in 112 of 257 (43.6%) of genes in pham
- Manual Annotations of this start: 97 of 213
- Called 100.0% of time when present
- Phage (with cluster) where this start called: APunk_15 (DE4), Abblin_14 (DE4), Affeca_12 (DE1), Ailee_12 (DE1), Ali17_11 (DE2), Angelicage_12 (DE1), Arri_13 (DC1), Ashertheman_12 (DE1), Baddon_12 (DE1), Bakery_13 (DC1), Barb_12 (DC1), Barsten_13 (DE1), Baumdotcom_12 (DE1), Bibwit_12 (DE1), Bizzy_13 (DE1), BobBob_10 (DE1), Brandonk123_15 (DE1), ChadMasterC_12 (DE1), Charming_10 (DE1), Chickadee_13 (DE3), ClamChowder_12 (DC1), Clown_16 (DC2), CoveyB_12 (DC1), Danyall_12 (DC1), Delrey21_14 (DE4), Derg_10 (DE1), Dextert_14 (DE3), DoctorFroggo_14 (DE4), EMOore_7 (DE2), EdmundFerry_12 (DE3), Evamon_12 (DC1), Fireball_13 (DC1), Fitzgerald_11 (DE1), Flatwoods_13 (DE1), Fosterous_10 (DE1), Fugax_12 (DC1), GTE6_14 (DE3), Gaea_12 (DE1), Galadriel_14 (DE1), Geodirt_12 (DE1), Gezellig_12 (DC1), Gustavo_12 (DE1), Halo3_13 (DC1), Hans_15 (DE2), Inspectinfecti_14 (DE2), JKSyngboy_11 (DE1), Jabberwocky_11 (DE1), Jambalaya_12 (DC1), Kamashten_13 (DE1), Keitabear_13 (DE1), Kewpiedoll_13 (DE1), KimmyK_12 (DC1), Kroos_12 (DE1), Kwekel_13 (DE3), Kwobi_12 (DE1), Lennon_13 (DE1), Leonard_13 (DE2), LilHam_10 (DE1), Love_14 (DE1), McKinley_13 (DE1), MelBins_13 (DE2), MoontowerMania_11 (DE1), Mutzi_12 (DC1), Natkenzie_14 (DE4), Nordenberg_7 (DE1), Nubi_12 (DC1), Paries_13 (DE1), Phauci_6 (DE2), Phinally_13 (DE2), Phlop_12 (DC1), PinkCoffee_12 (DC1), Portcullis_12 (DC1), PullumCavea_12 (DC1), Ribeye_13 (DE1), RiverRaider_13 (DE1), RoadKill_11 (DE3), Rofo_12 (DE1), RogerDodger_13 (DC1), Salvador_12 (DC1), Sampson_14 (DE4), Sanjuju_11 (DE1), Saronaya_12 (DE1), Savbucketdawg_12 (DC1), SchottB_11 (DE1), Scioto_14 (DE4), Sedona_13 (DE1), Shinji_12 (DC1), Shivanishola_12 (DE1), Sitar_13 (DE1), SmokingBunny_12 (DC1), StorminNorm_12 (DE1), Stultus_12 (DE1), Tangent_10 (DE1), Tangerine_12 (DE1), Tardus_14 (DE4), Thing3_13 (DE1), Tiamoceli_14 (DE3), TillyBobJoe_12 (DC1), Togo_12 (DC1), Twister6_12 (DC1), Twonlo_11 (DE3), Tycho_12 (DE1), Valary_13 (DC1), VanDeWege_13 (DC1), Verity_14 (DE4), ViaConlectus_14 (DE4), Vivi2_11 (DE1), Wizard_12 (DC1), YorkOnyx_12 (DE1), YungMoney_12 (DC1), Zipp_14

(DE4), Zitch_15 (DE4),

Start 13:

- Found in 54 of 257 (21.0%) of genes in pham
- Manual Annotations of this start: 37 of 213
- Called 70.4% of time when present
- Phage (with cluster) where this start called: Antares_20 (EC), Busephilis_20 (EC), ClearAsMud_22 (EC), Cranjjs_21 (EC), CrazyRich_19 (EC), Crisis_21 (EC), FuzzBuster_24 (singleton), Gina_20 (EC), Hermeonysus_19 (EC), Honeyfin_21 (EC), Jayden_20 (EC), Jefe_20 (EC), Jollipop_20 (EC), Kowalski_19 (EC), LittleFortune_21 (EC), Megan_13 (EC), MementoMori_13 (EI), Metamorphoo_20 (EC), Nicole72_14 (EC), NoodlelyBoi_19 (EC), Onika_19 (EC), Paschalis_19 (EC), Phorgeous_19 (EC), Phrancesco_21 (EC), PierreOrion_20 (EC), PiperSansNom_20 (EC), Piperis_20 (EC), Pulchra_21 (EC), Quhwah_22 (EC), Ramiel05_19 (EC), RobsFeet_21 (EC), Savannah_19 (EC), Scumberland_21 (EC), Selwyn23_21 (EC), Shotgun_19 (EC), Smarties_28 (EC), Teamocil_20 (EC), Yeti_20 (EC),

Start 14:

- Found in 53 of 257 (20.6%) of genes in pham
- Manual Annotations of this start: 13 of 213
- Called 28.3% of time when present
- Phage (with cluster) where this start called: Ariadne_28 (EC), BrazzalePHS_19 (EC), Cinna_12 (EI), Cressida_13 (EI), EarickHC_20 (EC), Fireman_20 (EC), Ganandorf_19 (EC), KaiHaiDragon_20 (EC), Kozie_14 (EI), Margaery_12 (EI), Matzah_13 (EI), Merry_20 (EC), Sunny_20 (EC), Terij_13 (EI), Tyumbra_18 (EC),

Start 16:

- Found in 1 of 257 (0.4%) of genes in pham
- No Manual Annotations of this start.
- Called 100.0% of time when present
- Phage (with cluster) where this start called: GMA2_9 (DS),

Start 19:

- Found in 2 of 257 (0.8%) of genes in pham
- Manual Annotations of this start: 1 of 213
- Called 50.0% of time when present
- Phage (with cluster) where this start called: Phendrix_65 (DK),

Start 22:

- Found in 2 of 257 (0.8%) of genes in pham
- Manual Annotations of this start: 1 of 213
- Called 50.0% of time when present
- Phage (with cluster) where this start called: GodonK_66 (DK),

Start 23:

- Found in 1 of 257 (0.4%) of genes in pham
- No Manual Annotations of this start.
- Called 100.0% of time when present
- Phage (with cluster) where this start called: Kithara_22 (singleton),

Start 24:

- Found in 1 of 257 (0.4%) of genes in pham
- No Manual Annotations of this start.

- Called 100.0% of time when present
- Phage (with cluster) where this start called: Sunfish_25 (singleton),

Start 25:

- Found in 5 of 257 (1.9%) of genes in pham
- Manual Annotations of this start: 5 of 213
- Called 100.0% of time when present
- Phage (with cluster) where this start called: BlueNGold_76 (DS), Boopy_77 (DS), Forza_77 (DS), Mareelih_76 (DS), Sixama_72 (DS),

Start 28:

- Found in 12 of 257 (4.7%) of genes in pham
- Manual Annotations of this start: 1 of 213
- Called 8.3% of time when present
- Phage (with cluster) where this start called: Racecar_77 (FC),

Start 29:

- Found in 3 of 257 (1.2%) of genes in pham
- Manual Annotations of this start: 1 of 213
- Called 33.3% of time when present
- Phage (with cluster) where this start called: SadLad_25 (EG),

Start 31:

- Found in 21 of 257 (8.2%) of genes in pham
- Manual Annotations of this start: 1 of 213
- Called 33.3% of time when present
- Phage (with cluster) where this start called: Atuin_73 (FC), Bloom_80 (FC), Mimi_83 (FC), Patbob_76 (FC), Phrampa_70 (FC), SJReid_81 (FC), Talia1610_76 (FC),

Start 32:

- Found in 7 of 257 (2.7%) of genes in pham
- Manual Annotations of this start: 7 of 213
- Called 100.0% of time when present
- Phage (with cluster) where this start called: A3Wally_82 (GD1), Big4_71 (GD2), BruhMoment_18 (AP3), Cece_66 (GD3), PauloDiaboli_82 (GD1), Pumpernickel_80 (GD4), Zooman_67 (GD2),

Start 34:

- Found in 56 of 257 (21.8%) of genes in pham
- Manual Annotations of this start: 11 of 213
- Called 23.2% of time when present
- Phage (with cluster) where this start called: AWGoat_17 (AP4), Beagle_23 (AP2), MellowYellow_19 (AP2), NyleyClemson_19 (AP2), Odyssey395_24 (AP2), Pointis_22 (AP2), Pureglobe5_24 (AP2), Ranunculus_17 (AP), Rizwana_16 (AP1), RomansRevenge_13 (singleton), SilentRX_18 (AP4), Tank_17 (AP1), Wilde_17 (AP1),

Start 37:

- Found in 52 of 257 (20.2%) of genes in pham
- Manual Annotations of this start: 37 of 213
- Called 98.1% of time when present
- Phage (with cluster) where this start called: Altheas_24 (EG), AluminumJesus_20 (EG), BabyDotz_21 (EG), BirdInFrench_21 (EG), Blab_20 (EG), CandC_20 (EG),

Casend_23 (EG), DonaldDuck_22 (EG), EverythinBagel_22 (EG), Fizzles_22 (EG), FrankDeliGuy_20 (EG), Fransoyer_24 (EG), Fregley_22 (EG), Gazebo_21 (EG), Grassboy_23 (EG), Hyperion_21 (EG), Jehoshaphat_24 (EG), Judebell_24 (EG), Kelcole_20 (EG), Kyva_24 (EG), Llemily_22 (EG), Lonelysoil_21 (EG), Marcie_26 (EG), Mashley_20 (EG), MorillMayhem_21 (EG), Namago_22 (EG), Nike_22 (EG), OneinaGillian_21 (EG), Pepe25_20 (EG), Phabia_22 (EG), Phinky_28 (EG), Quammi_20 (EG), RobinRose_23 (EG), Romm_23 (EG), Rowlf_18 (EG), RubyRalph_24 (EG), Rudy_20 (EG), SallyK_23 (EG), Sillytadpoles_22 (EG), Squash_24 (EG), Statler_24 (EG), StrawberryJamm_24 (EG), Teehee_23 (EG), Tempo_21 (EG), Tissue_22 (EG), Viceroy_21 (EG), Wayne3_23 (EG), Wheelie_21 (EG), Wilca_21 (EG), Zagie_22 (EG), Zhafia_25 (EG),

Start 47:

- Found in 3 of 257 (1.2%) of genes in pham
- No Manual Annotations of this start.
- Called 33.3% of time when present
- Phage (with cluster) where this start called: DunneganBoMo_69 (FC),

Summary by clusters:

There are 23 clusters represented in this pham: GD1, singleton, GD3, GD4, DK, AP2, AP3, AP1, GD2, AP4, FC, DS, EI, EG, EC, AP, DC2, DC1, DE1, DE2, DE3, DE4, DE5,

Info for manual annotations of cluster AP:

- Start number 34 was manually annotated 1 time for cluster AP.

Info for manual annotations of cluster AP1:

- Start number 34 was manually annotated 3 times for cluster AP1.

Info for manual annotations of cluster AP2:

- Start number 34 was manually annotated 5 times for cluster AP2.

Info for manual annotations of cluster AP3:

- Start number 32 was manually annotated 1 time for cluster AP3.

Info for manual annotations of cluster AP4:

- Start number 34 was manually annotated 2 times for cluster AP4.

Info for manual annotations of cluster DC1:

- Start number 6 was manually annotated 28 times for cluster DC1.

Info for manual annotations of cluster DC2:

- Start number 6 was manually annotated 1 time for cluster DC2.

Info for manual annotations of cluster DE1:

- Start number 6 was manually annotated 44 times for cluster DE1.

Info for manual annotations of cluster DE2:

- Start number 6 was manually annotated 8 times for cluster DE2.

Info for manual annotations of cluster DE3:

- Start number 6 was manually annotated 7 times for cluster DE3.

Info for manual annotations of cluster DE4:

- Start number 6 was manually annotated 9 times for cluster DE4.

Info for manual annotations of cluster DE5:

- Start number 3 was manually annotated 1 time for cluster DE5.

Info for manual annotations of cluster DK:

- Start number 19 was manually annotated 1 time for cluster DK.
- Start number 22 was manually annotated 1 time for cluster DK.

Info for manual annotations of cluster DS:

- Start number 25 was manually annotated 5 times for cluster DS.

Info for manual annotations of cluster EC:

- Start number 13 was manually annotated 35 times for cluster EC.
- Start number 14 was manually annotated 7 times for cluster EC.

Info for manual annotations of cluster EG:

- Start number 29 was manually annotated 1 time for cluster EG.
- Start number 37 was manually annotated 37 times for cluster EG.

Info for manual annotations of cluster EI:

- Start number 13 was manually annotated 1 time for cluster EI.
- Start number 14 was manually annotated 6 times for cluster EI.

Info for manual annotations of cluster FC:

- Start number 28 was manually annotated 1 time for cluster FC.
- Start number 31 was manually annotated 1 time for cluster FC.

Info for manual annotations of cluster GD1:

- Start number 32 was manually annotated 2 times for cluster GD1.

Info for manual annotations of cluster GD2:

- Start number 32 was manually annotated 2 times for cluster GD2.

Info for manual annotations of cluster GD3:

- Start number 32 was manually annotated 1 time for cluster GD3.

Info for manual annotations of cluster GD4:

- Start number 32 was manually annotated 1 time for cluster GD4.

Gene Information:

Gene: A3Wally_82 Start: 29832, Stop: 31568, Start Num: 32

Candidate Starts for A3Wally_82:

(Start: 32 @29832 has 7 MA's), (51, 29895), (53, 29904), (71, 29982), (83, 30054), (84, 30063), (90, 30087), (93, 30096), (116, 30177), (138, 30270), (158, 30327), (184, 30450), (194, 30504), (212, 30612), (236, 30723), (241, 30765), (257, 30846), (260, 30867), (269, 30930), (275, 30990), (282, 31023), (295, 31071), (306, 31131), (325, 31242), (356, 31350), (379, 31470), (381, 31494),

Gene: APunk_15 Start: 7441, Stop: 9111, Start Num: 6

Candidate Starts for APunk_15:

(Start: 6 @7441 has 97 MA's), (15, 7516), (Start: 31 @7564 has 1 MA's), (56, 7651), (74, 7732), (78, 7762), (79, 7771), (114, 7894), (127, 7939), (158, 8011), (160, 8020), (187, 8131), (194, 8170), (198, 8188), (199, 8200), (200, 8203), (201, 8209), (213, 8284), (233, 8344), (257, 8479), (262, 8524), (269, 8563), (274, 8614), (280, 8647), (283, 8659), (284, 8662), (292, 8689), (298, 8713), (311, 8791), (317, 8842), (325, 8872), (327, 8878), (335, 8896), (349, 8935), (368, 8980),

Gene: AWGoat_17 Start: 8723, Stop: 10624, Start Num: 34

Candidate Starts for AWGoat_17:

(Start: 34 @8723 has 11 MA's), (64, 8810), (66, 8819), (73, 8852), (91, 8948), (107, 8993), (124, 9041), (131, 9065), (182, 9236), (183, 9239), (197, 9308), (207, 9386), (210, 9395), (212, 9407), (231, 9479), (234, 9491), (236, 9500), (241, 9542), (252, 9593), (258, 9626), (262, 9668), (263, 9674), (266, 9686), (303, 9908), (312, 9974), (318, 10016), (380, 10277), (393, 10328), (395, 10334), (426, 10595),

Gene: Abblin_14 Start: 6957, Stop: 8627, Start Num: 6

Candidate Starts for Abblin_14:

(Start: 6 @6957 has 97 MA's), (15, 7032), (20, 7053), (Start: 31 @7080 has 1 MA's), (56, 7167), (74, 7248), (78, 7278), (79, 7287), (97, 7362), (102, 7374), (114, 7410), (127, 7455), (158, 7527), (160, 7536), (187, 7647), (194, 7686), (196, 7695), (198, 7704), (199, 7716), (200, 7719), (201, 7725), (213, 7800), (230, 7848), (233, 7860), (255, 7980), (257, 7995), (262, 8040), (269, 8079), (274, 8130), (280, 8163), (283, 8175), (284, 8178), (292, 8205), (298, 8229), (311, 8307), (317, 8358), (325, 8388), (327, 8394), (349, 8451), (368, 8496),

Gene: Affeca_12 Start: 6664, Stop: 8292, Start Num: 6

Candidate Starts for Affeca_12:

(Start: 6 @6664 has 97 MA's), (Start: 34 @6784 has 11 MA's), (52, 6823), (61, 6862), (74, 6925), (93, 7018), (100, 7045), (113, 7084), (160, 7213), (175, 7273), (190, 7342), (194, 7363), (198, 7381), (200, 7396), (201, 7402), (211, 7465), (230, 7525), (233, 7537), (240, 7576), (243, 7588), (246, 7597), (249, 7630), (252, 7642), (257, 7672), (262, 7717), (265, 7732), (266, 7735), (270, 7771), (276, 7819), (279, 7828), (283, 7852), (284, 7855), (317, 8032), (338, 8089), (341, 8095), (348, 8110), (361, 8131), (370, 8179), (375, 8206),

Gene: Ailee_12 Start: 7526, Stop: 9148, Start Num: 6

Candidate Starts for Ailee_12:

(Start: 6 @7526 has 97 MA's), (Start: 34 @7646 has 11 MA's), (52, 7685), (57, 7706), (61, 7724), (74, 7787), (93, 7880), (100, 7907), (113, 7946), (160, 8075), (175, 8135), (190, 8204), (194, 8225), (198, 8243), (200, 8258), (201, 8264), (211, 8327), (230, 8387), (233, 8399), (240, 8438), (243, 8450), (246, 8459), (249, 8492), (252, 8504), (257, 8534), (262, 8579), (265, 8594), (266, 8597), (270, 8633), (276, 8681), (279, 8690), (284, 8717), (317, 8894), (338, 8951), (341, 8957), (348, 8972), (361, 8993), (363, 8999), (370, 9035), (375, 9062),

Gene: Ali17_11 Start: 6421, Stop: 8055, Start Num: 6

Candidate Starts for Ali17_11:

(Start: 6 @6421 has 97 MA's), (9, 6448), (12, 6457), (15, 6493), (Start: 28 @6535 has 1 MA's), (38, 6559), (57, 6616), (66, 6649), (74, 6694), (78, 6724), (79, 6733), (85, 6757), (88, 6772), (113, 6853), (131, 6910), (157, 6970), (160, 6982), (164, 7000), (175, 7042), (194, 7132), (198, 7150), (200, 7165), (201, 7171), (208, 7225), (213, 7246), (233, 7306), (234, 7309), (246, 7366), (247, 7390), (257, 7441), (262, 7486), (266, 7504), (269, 7525), (276, 7588), (280, 7609), (284, 7624), (298, 7675), (315, 7780), (317, 7801), (325, 7831), (333, 7849), (363, 7915), (368, 7936), (376, 7990),

Gene: Altheas_24 Start: 9157, Stop: 10980, Start Num: 37

Candidate Starts for Altheas_24:

(Start: 37 @9157 has 37 MA's), (95, 9388), (100, 9409), (107, 9433), (111, 9442), (124, 9481), (153, 9559), (159, 9577), (207, 9799), (221, 9868), (231, 9916), (257, 10060), (262, 10105), (263, 10111), (266, 10123), (273, 10183), (303, 10312), (304, 10318), (324, 10444), (339, 10489), (369, 10594), (394, 10684), (403, 10720), (406, 10738), (411, 10783), (427, 10957),

Gene: AluminumJesus_20 Start: 8498, Stop: 10324, Start Num: 37

Candidate Starts for AluminumJesus_20:

(Start: 37 @8498 has 37 MA's), (111, 8783), (124, 8822), (126, 8834), (153, 8900), (159, 8918), (198, 9068), (200, 9083), (207, 9140), (231, 9257), (233, 9266), (257, 9401), (262, 9446), (263, 9452), (266, 9464), (273, 9524), (303, 9653), (304, 9659), (307, 9686), (324, 9785), (339, 9830), (394, 10025), (403, 10061), (406, 10079), (411, 10124),

Gene: Angelicage_12 Start: 7093, Stop: 8715, Start Num: 6

Candidate Starts for Angelicage_12:

(Start: 6 @7093 has 97 MA's), (Start: 34 @7213 has 11 MA's), (52, 7252), (57, 7273), (61, 7291), (74, 7354), (93, 7447), (100, 7474), (113, 7513), (160, 7642), (175, 7702), (190, 7771), (194, 7792), (198, 7810), (200, 7825), (201, 7831), (211, 7894), (230, 7954), (233, 7966), (240, 8005), (243, 8017), (246, 8026), (249, 8059), (252, 8071), (257, 8101), (262, 8146), (265, 8161), (266, 8164), (270, 8200), (276, 8248), (279, 8257), (284, 8284), (317, 8461), (338, 8518), (341, 8524), (348, 8539), (361, 8560), (363, 8566), (370, 8602), (375, 8629),

Gene: Antares_20 Start: 8653, Stop: 10359, Start Num: 13

Candidate Starts for Antares_20:

(Start: 13 @8653 has 37 MA's), (Start: 14 @8662 has 13 MA's), (17, 8677), (49, 8776), (50, 8782), (75, 8887), (77, 8899), (102, 9004), (104, 9016), (116, 9070), (122, 9088), (135, 9142), (146, 9172), (158, 9211), (163, 9229), (164, 9238), (174, 9274), (186, 9337), (198, 9400), (203, 9427), (207, 9472), (233, 9574), (234, 9577), (241, 9616), (246, 9634), (259, 9706), (268, 9772), (269, 9781), (273, 9820), (279, 9853), (285, 9886), (287, 9892), (294, 9922), (319, 10075), (322, 10090), (329, 10111), (330, 10114), (384, 10318), (387, 10327),

Gene: Ariadne_28 Start: 10109, Stop: 11824, Start Num: 14

Candidate Starts for Ariadne_28:

(Start: 13 @10100 has 37 MA's), (Start: 14 @10109 has 13 MA's), (50, 10229), (75, 10334), (77, 10346), (100, 10445), (116, 10517), (122, 10535), (173, 10715), (174, 10721), (176, 10745), (186, 10784), (198, 10847), (203, 10874), (207, 10919), (233, 11021), (234, 11024), (241, 11063), (243, 11072), (252, 11114), (259, 11153), (268, 11219), (269, 11228), (270, 11243), (273, 11267), (285, 11333), (287, 11339), (294, 11366), (319, 11519), (323, 11537), (336, 11579), (344, 11603), (350, 11624), (363, 11660), (397, 11801), (400, 11813),

Gene: Arri_13 Start: 5627, Stop: 7213, Start Num: 6

Candidate Starts for Arri_13:

(Start: 6 @5627 has 97 MA's), (75, 5879), (79, 5909), (113, 6026), (119, 6047), (125, 6062), (183, 6236), (192, 6278), (196, 6302), (197, 6305), (205, 6344), (219, 6416), (233, 6476), (234, 6479), (235, 6482), (241, 6518), (243, 6527), (245, 6533), (246, 6536), (257, 6599), (262, 6644), (268, 6674), (273, 6722), (284, 6779), (286, 6788), (290, 6800), (304, 6857), (311, 6908),

Gene: Ashertheman_12 Start: 6272, Stop: 7900, Start Num: 6

Candidate Starts for Ashertheman_12:

(Start: 6 @6272 has 97 MA's), (Start: 34 @6395 has 11 MA's), (43, 6416), (61, 6473), (74, 6536), (78, 6566), (93, 6629), (100, 6656), (160, 6824), (181, 6911), (189, 6950), (194, 6974), (198, 6992), (200, 7007), (201, 7013), (211, 7076), (233, 7148), (240, 7187), (252, 7253), (257, 7283), (262, 7328), (265, 7343), (266, 7346), (270, 7382), (276, 7430), (279, 7439), (284, 7466), (292, 7493), (303, 7538), (314, 7613), (317, 7643), (321, 7661), (338, 7700), (341, 7706), (348, 7721), (361, 7742), (363, 7748), (370,

7784), (376, 7817),

Gene: Atuin_73 Start: 31058, Stop: 32686, Start Num: 31

Candidate Starts for Atuin_73:

(Start: 31 @31058 has 1 MA's), (85, 31298), (131, 31475), (186, 31673), (215, 31835), (227, 31877), (228, 31889), (236, 31925), (264, 32105), (275, 32192), (294, 32270), (343, 32501), (366, 32588), (385, 32636), (399, 32675),

Gene: BabyDotz_21 Start: 8763, Stop: 10589, Start Num: 37

Candidate Starts for BabyDotz_21:

(Start: 37 @8763 has 37 MA's), (111, 9048), (124, 9087), (153, 9165), (159, 9183), (198, 9333), (200, 9348), (207, 9405), (221, 9474), (231, 9522), (233, 9531), (257, 9666), (262, 9711), (263, 9717), (266, 9729), (273, 9789), (303, 9918), (304, 9924), (307, 9951), (324, 10050), (339, 10095), (394, 10290), (403, 10326), (406, 10344), (411, 10389),

Gene: Baddon_12 Start: 6982, Stop: 8613, Start Num: 6

Candidate Starts for Baddon_12:

(Start: 6 @6982 has 97 MA's), (Start: 34 @7105 has 11 MA's), (43, 7126), (61, 7183), (74, 7246), (78, 7276), (93, 7339), (100, 7366), (157, 7522), (160, 7534), (181, 7621), (189, 7660), (194, 7684), (198, 7702), (200, 7717), (201, 7723), (211, 7786), (233, 7858), (236, 7870), (240, 7897), (246, 7918), (252, 7963), (257, 7993), (262, 8038), (265, 8053), (266, 8056), (270, 8092), (276, 8140), (279, 8149), (303, 8248), (311, 8305), (314, 8323), (317, 8353), (321, 8371), (338, 8410), (341, 8416), (348, 8431), (361, 8452), (363, 8458), (370, 8497),

Gene: Bakery_13 Start: 5328, Stop: 6914, Start Num: 6

Candidate Starts for Bakery_13:

(Start: 6 @5328 has 97 MA's), (Start: 34 @5442 has 11 MA's), (68, 5544), (79, 5610), (86, 5643), (114, 5730), (119, 5748), (196, 6003), (197, 6006), (205, 6045), (219, 6117), (233, 6177), (234, 6180), (235, 6183), (240, 6216), (241, 6219), (243, 6228), (245, 6234), (246, 6237), (257, 6300), (262, 6345), (268, 6375), (273, 6423), (284, 6480), (286, 6489), (290, 6501), (304, 6558), (311, 6609),

Gene: Barb_12 Start: 5583, Stop: 7169, Start Num: 6

Candidate Starts for Barb_12:

(Start: 6 @5583 has 97 MA's), (75, 5835), (79, 5865), (113, 5982), (119, 6003), (125, 6018), (183, 6192), (192, 6234), (196, 6258), (197, 6261), (205, 6300), (219, 6372), (233, 6432), (234, 6435), (235, 6438), (241, 6474), (243, 6483), (245, 6489), (246, 6492), (257, 6555), (262, 6600), (268, 6630), (273, 6678), (284, 6735), (290, 6756), (297, 6783), (298, 6786), (304, 6813), (311, 6864), (317, 6912),

Gene: Barsten_13 Start: 6478, Stop: 8100, Start Num: 6

Candidate Starts for Barsten_13:

(Start: 6 @6478 has 97 MA's), (52, 6637), (61, 6676), (74, 6739), (93, 6832), (100, 6859), (113, 6898), (160, 7027), (175, 7087), (190, 7156), (194, 7177), (198, 7195), (200, 7210), (201, 7216), (211, 7279), (230, 7339), (233, 7351), (240, 7390), (243, 7402), (246, 7411), (249, 7444), (252, 7456), (257, 7486), (262, 7531), (265, 7546), (266, 7549), (270, 7585), (276, 7633), (279, 7642), (284, 7669), (317, 7846), (338, 7903), (341, 7909), (348, 7924), (361, 7945), (363, 7951), (370, 7987), (375, 8014),

Gene: Baumdotcom_12 Start: 6295, Stop: 7923, Start Num: 6

Candidate Starts for Baumdotcom_12:

(Start: 6 @6295 has 97 MA's), (Start: 34 @6418 has 11 MA's), (43, 6439), (61, 6496), (74, 6559), (78, 6589), (93, 6652), (100, 6679), (160, 6847), (181, 6934), (189, 6973), (194, 6997), (198, 7015), (200, 7030), (201, 7036), (211, 7099), (233, 7171), (240, 7210), (252, 7276), (257, 7306), (262, 7351), (265, 7366), (266, 7369), (270, 7405), (276, 7453), (279, 7462), (284, 7489), (292, 7516), (303, 7561), (311, 7618), (314, 7636), (317, 7666), (321, 7684), (338, 7723), (341, 7729), (348, 7744), (361, 7765), (363,

7771), (370, 7807), (376, 7840),

Gene: Beagle_23 Start: 9245, Stop: 11137, Start Num: 34

Candidate Starts for Beagle_23:

(Start: 34 @9245 has 11 MA's), (38, 9254), (54, 9293), (80, 9416), (84, 9434), (106, 9509), (131, 9584), (196, 9827), (236, 10019), (263, 10193), (266, 10205), (290, 10355), (303, 10406), (307, 10439), (308, 10445), (313, 10478), (318, 10514), (325, 10541), (338, 10580), (345, 10601), (348, 10613), (350, 10619), (405, 10883), (418, 11000), (426, 11096),

Gene: Bibwit_12 Start: 7349, Stop: 8971, Start Num: 6

Candidate Starts for Bibwit_12:

(Start: 6 @7349 has 97 MA's), (52, 7508), (61, 7547), (74, 7610), (93, 7703), (100, 7730), (113, 7769), (160, 7898), (175, 7958), (190, 8027), (194, 8048), (198, 8066), (200, 8081), (201, 8087), (211, 8150), (230, 8210), (233, 8222), (240, 8261), (243, 8273), (246, 8282), (252, 8327), (257, 8357), (262, 8402), (265, 8417), (266, 8420), (270, 8456), (276, 8504), (279, 8513), (284, 8540), (317, 8717), (338, 8774), (341, 8780), (348, 8795), (361, 8816), (363, 8822), (370, 8858), (375, 8885),

Gene: Big4_71 Start: 29132, Stop: 30859, Start Num: 32

Candidate Starts for Big4_71:

(Start: 32 @29132 has 7 MA's), (47, 29186), (53, 29210), (66, 29261), (72, 29297), (92, 29399), (105, 29450), (116, 29483), (131, 29549), (184, 29756), (194, 29810), (236, 30026), (252, 30119), (257, 30149), (269, 30233), (272, 30269), (275, 30293), (282, 30326), (286, 30341), (325, 30545), (326, 30548), (327, 30551), (343, 30602), (379, 30773),

Gene: BirdInFrench_21 Start: 7665, Stop: 9464, Start Num: 37

Candidate Starts for BirdInFrench_21:

(Start: 37 @7665 has 37 MA's), (124, 7980), (134, 8010), (159, 8076), (218, 8343), (226, 8388), (240, 8475), (250, 8520), (256, 8556), (262, 8604), (263, 8610), (266, 8622), (270, 8658), (273, 8682), (303, 8817), (318, 8925), (323, 8946), (349, 9027), (394, 9165), (403, 9201), (412, 9267), (417, 9336), (421, 9369), (427, 9438),

Gene: Bizzy_13 Start: 6469, Stop: 8097, Start Num: 6

Candidate Starts for Bizzy_13:

(Start: 6 @6469 has 97 MA's), (Start: 34 @6592 has 11 MA's), (43, 6613), (61, 6670), (74, 6733), (78, 6763), (93, 6826), (100, 6853), (160, 7021), (181, 7108), (189, 7147), (194, 7171), (198, 7189), (200, 7204), (201, 7210), (211, 7273), (233, 7345), (240, 7384), (252, 7450), (257, 7480), (262, 7525), (265, 7540), (266, 7543), (270, 7579), (276, 7627), (279, 7636), (284, 7663), (292, 7690), (303, 7735), (314, 7810), (317, 7840), (321, 7858), (338, 7897), (341, 7903), (348, 7918), (361, 7939), (363, 7945), (370, 7981), (376, 8014),

Gene: Blab_20 Start: 8374, Stop: 10200, Start Num: 37

Candidate Starts for Blab_20:

(Start: 37 @8374 has 37 MA's), (111, 8659), (124, 8698), (153, 8776), (159, 8794), (198, 8944), (200, 8959), (207, 9016), (231, 9133), (233, 9142), (257, 9277), (262, 9322), (263, 9328), (266, 9340), (273, 9400), (303, 9529), (304, 9535), (307, 9562), (324, 9661), (339, 9706), (394, 9901), (403, 9937), (406, 9955), (411, 10000),

Gene: Bloom_80 Start: 33695, Stop: 35374, Start Num: 31

Candidate Starts for Bloom_80:

(Start: 28 @33689 has 1 MA's), (Start: 31 @33695 has 1 MA's), (58, 33800), (83, 33923), (85, 33935), (120, 34058), (186, 34310), (194, 34355), (225, 34511), (227, 34520), (228, 34532), (236, 34568), (239, 34589), (268, 34766), (334, 35120), (355, 35186), (357, 35192), (385, 35318), (388, 35327), (399, 35363),

Gene: BlueNGold_76 Start: 31373, Stop: 33103, Start Num: 25

Candidate Starts for BlueNGold_76:

(Start: 25 @31373 has 5 MA's), (53, 31451), (67, 31505), (70, 31517), (85, 31604), (88, 31619), (110, 31709), (128, 31784), (149, 31874), (191, 32069), (194, 32087), (195, 32090), (198, 32105), (200, 32120), (204, 32135), (206, 32162), (214, 32201), (251, 32372), (257, 32405), (263, 32456), (267, 32471), (268, 32480), (277, 32555), (278, 32558), (282, 32582), (326, 32807), (331, 32822), (340, 32852), (354, 32900), (357, 32915), (358, 32921),

Gene: BobBob_10 Start: 6015, Stop: 7637, Start Num: 6

Candidate Starts for BobBob_10:

(Start: 6 @6015 has 97 MA's), (52, 6174), (61, 6213), (74, 6276), (93, 6369), (100, 6396), (113, 6435), (158, 6555), (160, 6564), (175, 6624), (190, 6693), (194, 6714), (198, 6732), (200, 6747), (201, 6753), (211, 6816), (230, 6876), (233, 6888), (240, 6927), (243, 6939), (246, 6948), (252, 6993), (257, 7023), (262, 7068), (265, 7083), (266, 7086), (270, 7122), (276, 7170), (279, 7179), (284, 7206), (317, 7383), (338, 7440), (341, 7446), (348, 7461), (361, 7482), (363, 7488), (370, 7524), (375, 7551),

Gene: Boopy_77 Start: 31385, Stop: 33115, Start Num: 25

Candidate Starts for Boopy_77:

(Start: 25 @31385 has 5 MA's), (53, 31463), (67, 31517), (70, 31529), (85, 31616), (88, 31631), (110, 31721), (128, 31796), (149, 31886), (191, 32081), (194, 32099), (195, 32102), (198, 32117), (200, 32132), (204, 32147), (206, 32174), (214, 32213), (251, 32384), (257, 32417), (263, 32468), (267, 32483), (268, 32492), (277, 32567), (278, 32570), (282, 32594), (326, 32819), (331, 32834), (340, 32864), (354, 32912), (357, 32927), (358, 32933),

Gene: Brandonk123_15 Start: 7162, Stop: 8784, Start Num: 6

Candidate Starts for Brandonk123_15:

(Start: 6 @7162 has 97 MA's), (52, 7321), (61, 7360), (74, 7423), (93, 7516), (100, 7543), (113, 7582), (158, 7702), (160, 7711), (175, 7771), (190, 7840), (194, 7861), (198, 7879), (200, 7894), (201, 7900), (211, 7963), (230, 8023), (233, 8035), (240, 8074), (243, 8086), (246, 8095), (252, 8140), (257, 8170), (262, 8215), (265, 8230), (266, 8233), (270, 8269), (276, 8317), (279, 8326), (284, 8353), (317, 8530), (338, 8587), (341, 8593), (348, 8608), (361, 8629), (363, 8635), (370, 8671), (375, 8698),

Gene: BrazzalePHS_19 Start: 8484, Stop: 10151, Start Num: 14

Candidate Starts for BrazzalePHS_19:

(Start: 13 @8475 has 37 MA's), (Start: 14 @8484 has 13 MA's), (49, 8598), (50, 8604), (75, 8709), (77, 8721), (100, 8820), (102, 8826), (104, 8838), (116, 8892), (122, 8910), (135, 8964), (146, 8994), (158, 9033), (163, 9051), (164, 9060), (174, 9096), (186, 9159), (198, 9222), (203, 9249), (233, 9396), (234, 9399), (241, 9438), (246, 9456), (259, 9528), (268, 9594), (269, 9603), (279, 9675), (285, 9708), (287, 9714), (294, 9744), (297, 9759), (319, 9897), (322, 9912), (329, 9933), (330, 9936),

Gene: BruhMoment_18 Start: 8617, Stop: 10521, Start Num: 32

Candidate Starts for BruhMoment_18:

(Start: 32 @8617 has 7 MA's), (35, 8626), (84, 8815), (107, 8890), (124, 8938), (131, 8962), (160, 9040), (175, 9103), (207, 9283), (210, 9292), (212, 9304), (231, 9379), (234, 9391), (236, 9400), (240, 9439), (252, 9493), (262, 9568), (266, 9586), (303, 9787), (318, 9895), (347, 9991), (382, 10177), (395, 10219), (404, 10264), (419, 10402), (426, 10483),

Gene: Busephilis_20 Start: 8414, Stop: 10090, Start Num: 13

Candidate Starts for Busephilis_20:

(Start: 13 @8414 has 37 MA's), (Start: 14 @8423 has 13 MA's), (49, 8537), (50, 8543), (75, 8648), (77, 8660), (100, 8759), (102, 8765), (104, 8777), (116, 8831), (122, 8849), (135, 8903), (146, 8933), (158, 8972), (163, 8990), (164, 8999), (174, 9035), (186, 9098), (198, 9161), (203, 9188), (233, 9335),

(234, 9338), (241, 9377), (246, 9395), (259, 9467), (268, 9533), (269, 9542), (279, 9614), (285, 9647), (287, 9653), (294, 9683), (297, 9698), (319, 9836), (322, 9851), (329, 9872), (330, 9875),

Gene: CandC_20 Start: 7351, Stop: 9150, Start Num: 37

Candidate Starts for CandC_20:

(Start: 37 @7351 has 37 MA's), (68, 7450), (106, 7615), (124, 7666), (134, 7696), (159, 7762), (218, 8029), (226, 8074), (240, 8161), (242, 8170), (250, 8206), (256, 8242), (262, 8290), (263, 8296), (266, 8308), (270, 8344), (273, 8368), (303, 8503), (318, 8611), (323, 8632), (349, 8713), (353, 8722), (389, 8833), (394, 8851), (403, 8887), (412, 8953), (417, 9022), (421, 9055), (428, 9130),

Gene: Casend_23 Start: 9100, Stop: 10926, Start Num: 37

Candidate Starts for Casend_23:

(Start: 37 @9100 has 37 MA's), (77, 9250), (111, 9385), (124, 9424), (153, 9502), (159, 9520), (198, 9670), (200, 9685), (207, 9742), (221, 9811), (231, 9859), (233, 9868), (257, 10003), (262, 10048), (263, 10054), (266, 10066), (273, 10126), (303, 10255), (304, 10261), (307, 10288), (324, 10387), (339, 10432), (394, 10627), (403, 10663), (406, 10681), (411, 10726),

Gene: Cece_66 Start: 27502, Stop: 29211, Start Num: 32

Candidate Starts for Cece_66:

(Start: 32 @27502 has 7 MA's), (51, 27565), (53, 27574), (84, 27733), (142, 27946), (162, 28012), (184, 28117), (194, 28171), (207, 28258), (235, 28384), (236, 28390), (247, 28462), (257, 28513), (269, 28597), (275, 28657), (322, 28900), (327, 28915), (332, 28930), (338, 28951), (340, 28957), (359, 29038), (379, 29125),

Gene: ChadMasterC_12 Start: 6750, Stop: 8372, Start Num: 6

Candidate Starts for ChadMasterC_12:

(Start: 6 @6750 has 97 MA's), (52, 6909), (61, 6948), (74, 7011), (93, 7104), (100, 7131), (113, 7170), (160, 7299), (175, 7359), (190, 7428), (194, 7449), (198, 7467), (200, 7482), (201, 7488), (211, 7551), (230, 7611), (233, 7623), (240, 7662), (243, 7674), (246, 7683), (249, 7716), (252, 7728), (257, 7758), (262, 7803), (265, 7818), (266, 7821), (270, 7857), (276, 7905), (279, 7914), (284, 7941), (317, 8118), (338, 8175), (341, 8181), (348, 8196), (361, 8217), (363, 8223), (370, 8259), (375, 8286),

Gene: Charming_10 Start: 6017, Stop: 7639, Start Num: 6

Candidate Starts for Charming_10:

(Start: 6 @6017 has 97 MA's), (52, 6176), (61, 6215), (74, 6278), (93, 6371), (100, 6398), (113, 6437), (158, 6557), (160, 6566), (175, 6626), (190, 6695), (194, 6716), (198, 6734), (200, 6749), (201, 6755), (211, 6818), (230, 6878), (233, 6890), (240, 6929), (243, 6941), (246, 6950), (252, 6995), (257, 7025), (262, 7070), (265, 7085), (266, 7088), (270, 7124), (276, 7172), (279, 7181), (284, 7208), (317, 7385), (338, 7442), (341, 7448), (348, 7463), (361, 7484), (363, 7490), (370, 7526), (375, 7553),

Gene: Chickadee_13 Start: 5786, Stop: 7462, Start Num: 6

Candidate Starts for Chickadee_13:

(Start: 6 @5786 has 97 MA's), (11, 5819), (26, 5897), (44, 5951), (74, 6083), (78, 6113), (96, 6191), (102, 6209), (127, 6290), (158, 6362), (160, 6371), (175, 6431), (198, 6539), (199, 6551), (200, 6554), (201, 6560), (233, 6695), (234, 6698), (246, 6755), (257, 6830), (262, 6875), (266, 6893), (269, 6914), (273, 6953), (276, 6977), (280, 6998), (284, 7013), (298, 7064), (303, 7085), (317, 7190), (325, 7220), (335, 7244), (338, 7247), (368, 7325),

Gene: Cinna_12 Start: 5856, Stop: 7613, Start Num: 14

Candidate Starts for Cinna_12:

(Start: 13 @5847 has 37 MA's), (Start: 14 @5856 has 13 MA's), (41, 5940), (50, 5976), (58, 6009), (75, 6087), (77, 6099), (78, 6108), (80, 6120), (82, 6126), (100, 6198), (102, 6204), (124, 6300), (135, 6342), (141, 6372), (148, 6402), (158, 6438), (160, 6447), (163, 6456), (164, 6465), (182, 6546), (184,

6552), (186, 6561), (198, 6624), (203, 6651), (207, 6696), (220, 6747), (233, 6798), (241, 6840), (246, 6858), (248, 6873), (259, 6930), (269, 7005), (271, 7029), (286, 7113), (287, 7116), (297, 7161), (304, 7191), (310, 7239), (323, 7320), (329, 7338), (330, 7341), (351, 7410), (356, 7434), (393, 7569), (401, 7593),

Gene: ClamChowder_12 Start: 5583, Stop: 7169, Start Num: 6

Candidate Starts for ClamChowder_12:

(Start: 6 @5583 has 97 MA's), (75, 5835), (79, 5865), (113, 5982), (119, 6003), (125, 6018), (183, 6192), (192, 6234), (196, 6258), (197, 6261), (205, 6300), (219, 6372), (233, 6432), (234, 6435), (235, 6438), (241, 6474), (243, 6483), (245, 6489), (246, 6492), (257, 6555), (262, 6600), (268, 6630), (273, 6678), (284, 6735), (290, 6756), (297, 6783), (298, 6786), (304, 6813), (311, 6864), (317, 6912),

Gene: ClearAsMud_22 Start: 9173, Stop: 10873, Start Num: 13

Candidate Starts for ClearAsMud_22:

(Start: 13 @9173 has 37 MA's), (Start: 14 @9182 has 13 MA's), (50, 9302), (75, 9407), (77, 9419), (100, 9518), (102, 9524), (103, 9533), (116, 9590), (122, 9608), (135, 9662), (140, 9686), (145, 9689), (154, 9713), (158, 9731), (163, 9749), (164, 9758), (174, 9794), (186, 9857), (198, 9920), (203, 9947), (207, 9992), (233, 10094), (234, 10097), (241, 10136), (246, 10154), (259, 10226), (268, 10292), (269, 10301), (273, 10340), (285, 10406), (287, 10412), (294, 10442), (319, 10595), (323, 10613), (330, 10634), (336, 10655), (337, 10658), (344, 10679), (384, 10832),

Gene: Clown_16 Start: 8860, Stop: 10452, Start Num: 6

Candidate Starts for Clown_16:

(Start: 6 @8860 has 97 MA's), (79, 9139), (110, 9247), (112, 9253), (113, 9256), (119, 9277), (125, 9292), (201, 9565), (205, 9577), (206, 9601), (215, 9646), (219, 9649), (233, 9706), (240, 9745), (241, 9748), (243, 9757), (245, 9763), (257, 9829), (262, 9874), (268, 9904), (273, 9952), (284, 10009), (290, 10030), (292, 10036), (297, 10057), (298, 10060), (303, 10081), (304, 10087), (342, 10264),

Gene: CoveyB_12 Start: 5455, Stop: 7041, Start Num: 6

Candidate Starts for CoveyB_12:

(Start: 6 @5455 has 97 MA's), (75, 5707), (79, 5737), (113, 5854), (119, 5875), (125, 5890), (183, 6064), (192, 6106), (196, 6130), (197, 6133), (205, 6172), (219, 6244), (233, 6304), (234, 6307), (235, 6310), (241, 6346), (243, 6355), (245, 6361), (246, 6364), (257, 6427), (262, 6472), (268, 6502), (273, 6550), (284, 6607), (290, 6628), (297, 6655), (298, 6658), (304, 6685), (311, 6736), (317, 6784),

Gene: Cranjjs_21 Start: 8638, Stop: 10314, Start Num: 13

Candidate Starts for Cranjjs_21:

(Start: 13 @8638 has 37 MA's), (Start: 14 @8647 has 13 MA's), (17, 8662), (49, 8761), (50, 8767), (75, 8872), (77, 8884), (100, 8983), (102, 8989), (104, 9001), (116, 9055), (122, 9073), (135, 9127), (146, 9157), (158, 9196), (163, 9214), (164, 9223), (174, 9259), (186, 9322), (198, 9385), (203, 9412), (233, 9559), (234, 9562), (241, 9601), (246, 9619), (259, 9691), (268, 9757), (269, 9766), (273, 9805), (279, 9838), (285, 9871), (287, 9877), (294, 9907), (297, 9922), (319, 10060), (322, 10075), (329, 10096), (330, 10099),

Gene: CrazyRich_19 Start: 8448, Stop: 10124, Start Num: 13

Candidate Starts for CrazyRich_19:

(Start: 13 @8448 has 37 MA's), (Start: 14 @8457 has 13 MA's), (49, 8571), (50, 8577), (75, 8682), (77, 8694), (100, 8793), (102, 8799), (104, 8811), (116, 8865), (122, 8883), (135, 8937), (146, 8967), (158, 9006), (163, 9024), (164, 9033), (174, 9069), (186, 9132), (198, 9195), (203, 9222), (233, 9369), (234, 9372), (241, 9411), (246, 9429), (259, 9501), (268, 9567), (269, 9576), (279, 9648), (285, 9681), (287, 9687), (294, 9717), (297, 9732), (319, 9870), (322, 9885), (329, 9906), (330, 9909),

Gene: Cressida_13 Start: 6076, Stop: 7833, Start Num: 14

Candidate Starts for Cressida_13:

(Start: 13 @6067 has 37 MA's), (Start: 14 @6076 has 13 MA's), (41, 6160), (58, 6232), (75, 6310), (77, 6322), (78, 6331), (80, 6343), (82, 6349), (100, 6421), (102, 6427), (124, 6523), (135, 6565), (148, 6625), (151, 6628), (158, 6661), (160, 6670), (163, 6679), (164, 6688), (182, 6769), (184, 6775), (186, 6784), (198, 6847), (203, 6874), (207, 6919), (233, 7021), (240, 7060), (246, 7081), (248, 7096), (259, 7153), (269, 7228), (271, 7252), (286, 7336), (287, 7339), (288, 7348), (297, 7384), (304, 7414), (305, 7420), (310, 7462), (323, 7543), (329, 7561), (330, 7564), (350, 7630), (351, 7633),

Gene: Crisis_21 Start: 8432, Stop: 10108, Start Num: 13

Candidate Starts for Crisis_21:

(Start: 13 @8432 has 37 MA's), (Start: 14 @8441 has 13 MA's), (17, 8456), (49, 8555), (50, 8561), (75, 8666), (77, 8678), (100, 8777), (102, 8783), (104, 8795), (116, 8849), (122, 8867), (135, 8921), (146, 8951), (158, 8990), (163, 9008), (164, 9017), (174, 9053), (186, 9116), (198, 9179), (203, 9206), (233, 9353), (234, 9356), (241, 9395), (246, 9413), (259, 9485), (268, 9551), (269, 9560), (279, 9632), (285, 9665), (287, 9671), (294, 9701), (297, 9716), (319, 9854), (322, 9869), (329, 9890), (330, 9893),

Gene: Danyall_12 Start: 5455, Stop: 7041, Start Num: 6

Candidate Starts for Danyall_12:

(Start: 6 @5455 has 97 MA's), (75, 5707), (79, 5737), (113, 5854), (119, 5875), (125, 5890), (183, 6064), (192, 6106), (196, 6130), (197, 6133), (205, 6172), (219, 6244), (233, 6304), (234, 6307), (235, 6310), (241, 6346), (243, 6355), (245, 6361), (246, 6364), (257, 6427), (262, 6472), (268, 6502), (273, 6550), (284, 6607), (290, 6628), (297, 6655), (298, 6658), (304, 6685), (311, 6736), (317, 6784),

Gene: Delrey21_14 Start: 7230, Stop: 8897, Start Num: 6

Candidate Starts for Delrey21_14:

(Start: 6 @7230 has 97 MA's), (15, 7305), (20, 7326), (Start: 31 @7353 has 1 MA's), (56, 7440), (74, 7521), (78, 7551), (102, 7647), (106, 7662), (114, 7683), (121, 7704), (127, 7728), (158, 7800), (160, 7809), (187, 7920), (189, 7935), (194, 7959), (198, 7977), (200, 7992), (201, 7998), (213, 8073), (233, 8133), (257, 8268), (262, 8313), (269, 8352), (274, 8403), (280, 8436), (283, 8448), (284, 8451), (287, 8463), (292, 8478), (298, 8502), (303, 8523), (311, 8580), (317, 8631), (325, 8661), (327, 8667), (349, 8724), (368, 8769), (375, 8817),

Gene: Derg_10 Start: 5599, Stop: 7227, Start Num: 6

Candidate Starts for Derg_10:

(Start: 6 @5599 has 97 MA's), (Start: 34 @5722 has 11 MA's), (43, 5743), (61, 5800), (74, 5863), (78, 5893), (93, 5956), (100, 5983), (160, 6151), (181, 6238), (189, 6277), (194, 6301), (198, 6319), (200, 6334), (201, 6340), (211, 6403), (233, 6475), (240, 6514), (246, 6535), (252, 6580), (257, 6610), (262, 6655), (265, 6670), (266, 6673), (270, 6709), (276, 6757), (279, 6766), (284, 6793), (292, 6820), (303, 6865), (314, 6940), (317, 6970), (321, 6988), (338, 7027), (341, 7033), (348, 7048), (361, 7069), (363, 7075), (370, 7111), (376, 7144),

Gene: Dxdert_14 Start: 6244, Stop: 7917, Start Num: 6

Candidate Starts for Dxdert_14:

(Start: 6 @6244 has 97 MA's), (9, 6271), (26, 6352), (74, 6538), (78, 6568), (96, 6646), (102, 6664), (127, 6745), (158, 6817), (160, 6826), (175, 6886), (198, 6994), (199, 7006), (200, 7009), (201, 7015), (233, 7150), (234, 7153), (246, 7210), (257, 7285), (262, 7330), (266, 7348), (268, 7360), (273, 7408), (276, 7432), (280, 7453), (284, 7468), (298, 7519), (317, 7645), (325, 7675), (338, 7702),

Gene: DoctorFroggo_14 Start: 7230, Stop: 8897, Start Num: 6

Candidate Starts for DoctorFroggo_14:

(Start: 6 @7230 has 97 MA's), (15, 7305), (20, 7326), (Start: 31 @7353 has 1 MA's), (56, 7440), (74, 7521), (78, 7551), (102, 7647), (106, 7662), (114, 7683), (121, 7704), (127, 7728), (158, 7800), (160, 7809), (187, 7920), (189, 7935), (194, 7959), (198, 7977), (200, 7992), (201, 7998), (213, 8073), (233,

8133), (257, 8268), (262, 8313), (269, 8352), (274, 8403), (280, 8436), (283, 8448), (284, 8451), (287, 8463), (292, 8478), (298, 8502), (303, 8523), (311, 8580), (317, 8631), (325, 8661), (327, 8667), (349, 8724), (368, 8769), (375, 8817),

Gene: DonaldDuck_22 Start: 8446, Stop: 10272, Start Num: 37

Candidate Starts for DonaldDuck_22:

(Start: 37 @8446 has 37 MA's), (77, 8596), (111, 8731), (124, 8770), (153, 8848), (159, 8866), (198, 9016), (200, 9031), (207, 9088), (221, 9157), (231, 9205), (233, 9214), (257, 9349), (262, 9394), (263, 9400), (266, 9412), (273, 9472), (303, 9601), (304, 9607), (307, 9634), (324, 9733), (339, 9778), (394, 9973), (403, 10009), (406, 10027), (411, 10072),

Gene: DunneganBoMo_69 Start: 27884, Stop: 29458, Start Num: 47

Candidate Starts for DunneganBoMo_69:

(Start: 31 @27824 has 1 MA's), (47, 27884), (131, 28241), (184, 28430), (186, 28439), (227, 28643), (236, 28691), (264, 28871), (275, 28958), (289, 29024), (294, 29036), (343, 29267), (366, 29354), (399, 29447),

Gene: EMoore_7 Start: 4408, Stop: 6045, Start Num: 6

Candidate Starts for EMoore_7:

(Start: 6 @4408 has 97 MA's), (12, 4444), (Start: 13 @4462 has 37 MA's), (Start: 28 @4522 has 1 MA's), (38, 4546), (57, 4603), (66, 4636), (74, 4681), (78, 4711), (85, 4744), (88, 4759), (113, 4840), (157, 4957), (158, 4960), (175, 5029), (194, 5119), (196, 5128), (198, 5137), (200, 5152), (201, 5158), (208, 5212), (213, 5233), (233, 5293), (234, 5296), (246, 5353), (247, 5377), (249, 5386), (257, 5428), (262, 5473), (266, 5491), (269, 5512), (276, 5575), (280, 5596), (284, 5611), (298, 5662), (315, 5767), (317, 5788), (325, 5818), (333, 5836), (335, 5842), (349, 5878), (363, 5902), (365, 5908), (368, 5923), (376, 5980), (391, 6016),

Gene: EarickHC_20 Start: 8353, Stop: 10035, Start Num: 14

Candidate Starts for EarickHC_20:

(Start: 13 @8344 has 37 MA's), (Start: 14 @8353 has 13 MA's), (17, 8368), (49, 8467), (50, 8473), (75, 8578), (77, 8590), (100, 8689), (102, 8695), (104, 8707), (116, 8761), (122, 8779), (135, 8833), (146, 8863), (158, 8902), (163, 8920), (164, 8929), (174, 8965), (186, 9028), (198, 9091), (203, 9118), (233, 9265), (234, 9268), (241, 9307), (259, 9397), (268, 9463), (269, 9472), (279, 9544), (285, 9577), (287, 9583), (294, 9613), (297, 9628), (319, 9766), (322, 9781), (329, 9802), (330, 9805),

Gene: EdmundFerry_12 Start: 5801, Stop: 7477, Start Num: 6

Candidate Starts for EdmundFerry_12:

(Start: 6 @5801 has 97 MA's), (11, 5834), (26, 5912), (44, 5966), (74, 6098), (78, 6128), (96, 6206), (102, 6224), (127, 6305), (158, 6377), (160, 6386), (175, 6446), (198, 6554), (199, 6566), (200, 6569), (201, 6575), (233, 6710), (234, 6713), (246, 6770), (257, 6845), (262, 6890), (266, 6908), (269, 6929), (273, 6968), (276, 6992), (280, 7013), (284, 7028), (298, 7079), (303, 7100), (317, 7205), (325, 7235), (335, 7259), (338, 7262), (368, 7340),

Gene: Evamon_12 Start: 5436, Stop: 7022, Start Num: 6

Candidate Starts for Evamon_12:

(Start: 6 @5436 has 97 MA's), (75, 5688), (79, 5718), (113, 5835), (119, 5856), (125, 5871), (183, 6045), (192, 6087), (196, 6111), (197, 6114), (205, 6153), (219, 6225), (233, 6285), (234, 6288), (235, 6291), (241, 6327), (243, 6336), (245, 6342), (246, 6345), (257, 6408), (262, 6453), (268, 6483), (273, 6531), (284, 6588), (290, 6609), (297, 6636), (298, 6639), (304, 6666), (311, 6717), (317, 6765),

Gene: EverythinBagel_22 Start: 8840, Stop: 10666, Start Num: 37

Candidate Starts for EverythinBagel_22:

(Start: 37 @8840 has 37 MA's), (68, 8939), (77, 8990), (111, 9125), (124, 9164), (153, 9242), (159, 9260), (198, 9410), (200, 9425), (207, 9482), (221, 9551), (231, 9599), (233, 9608), (257, 9743), (262, 9788), (263, 9794), (266, 9806), (273, 9866), (303, 9995), (304, 10001), (307, 10028), (324, 10127), (339, 10172), (394, 10367), (403, 10403), (406, 10421), (411, 10466),

Gene: Fireball_13 Start: 5562, Stop: 7145, Start Num: 6

Candidate Starts for Fireball_13:

(Start: 6 @5562 has 97 MA's), (Start: 34 @5676 has 11 MA's), (79, 5844), (114, 5964), (119, 5982), (125, 5997), (177, 6147), (185, 6177), (196, 6237), (197, 6240), (205, 6279), (219, 6351), (233, 6411), (234, 6414), (235, 6417), (241, 6453), (243, 6462), (245, 6468), (246, 6471), (257, 6534), (262, 6579), (268, 6609), (273, 6657), (284, 6714), (290, 6735), (292, 6741), (297, 6762), (304, 6792), (311, 6843), (317, 6891),

Gene: Fireman_20 Start: 8089, Stop: 9774, Start Num: 14

Candidate Starts for Fireman_20:

(Start: 13 @8080 has 37 MA's), (Start: 14 @8089 has 13 MA's), (50, 8212), (75, 8317), (77, 8329), (116, 8500), (122, 8518), (133, 8569), (158, 8641), (161, 8653), (163, 8659), (164, 8668), (174, 8704), (186, 8767), (198, 8830), (203, 8857), (207, 8902), (210, 8911), (220, 8953), (233, 9004), (234, 9007), (241, 9046), (243, 9055), (246, 9064), (252, 9097), (259, 9136), (268, 9202), (269, 9211), (270, 9226), (273, 9250), (285, 9316), (287, 9322), (294, 9349), (319, 9502), (330, 9541), (336, 9562), (350, 9607), (387, 9754),

Gene: Fitzgerald_11 Start: 6943, Stop: 8565, Start Num: 6

Candidate Starts for Fitzgerald_11:

(Start: 6 @6943 has 97 MA's), (Start: 34 @7063 has 11 MA's), (52, 7102), (61, 7141), (74, 7204), (93, 7297), (100, 7324), (113, 7363), (160, 7492), (175, 7552), (190, 7621), (194, 7642), (198, 7660), (200, 7675), (201, 7681), (211, 7744), (230, 7804), (233, 7816), (240, 7855), (243, 7867), (246, 7876), (249, 7909), (252, 7921), (257, 7951), (262, 7996), (265, 8011), (266, 8014), (270, 8050), (276, 8098), (279, 8107), (284, 8134), (317, 8311), (338, 8368), (341, 8374), (348, 8389), (361, 8410), (363, 8416), (370, 8452), (375, 8479),

Gene: Fizzles_22 Start: 8440, Stop: 10269, Start Num: 37

Candidate Starts for Fizzles_22:

(Start: 37 @8440 has 37 MA's), (96, 8683), (97, 8689), (124, 8767), (153, 8845), (159, 8863), (180, 8935), (198, 9013), (200, 9028), (207, 9085), (224, 9157), (229, 9181), (231, 9193), (233, 9202), (257, 9337), (260, 9358), (262, 9382), (263, 9388), (266, 9400), (273, 9460), (284, 9520), (303, 9589), (304, 9595), (313, 9661), (324, 9721), (346, 9787), (351, 9805), (369, 9871), (394, 9970), (403, 10006), (409, 10060), (423, 10195),

Gene: Flatwoods_13 Start: 6473, Stop: 8101, Start Num: 6

Candidate Starts for Flatwoods_13:

(Start: 6 @6473 has 97 MA's), (Start: 34 @6596 has 11 MA's), (43, 6617), (61, 6674), (74, 6737), (78, 6767), (93, 6830), (100, 6857), (158, 7016), (160, 7025), (181, 7112), (189, 7151), (194, 7175), (198, 7193), (200, 7208), (201, 7214), (211, 7277), (233, 7349), (240, 7388), (252, 7454), (257, 7484), (262, 7529), (265, 7544), (266, 7547), (270, 7583), (276, 7631), (279, 7640), (284, 7667), (292, 7694), (303, 7739), (314, 7814), (317, 7844), (321, 7862), (338, 7901), (341, 7907), (348, 7922), (361, 7943), (363, 7949), (370, 7985), (376, 8018),

Gene: Forza_77 Start: 31301, Stop: 33031, Start Num: 25

Candidate Starts for Forza_77:

(Start: 25 @31301 has 5 MA's), (53, 31379), (67, 31433), (70, 31445), (85, 31532), (88, 31547), (110, 31637), (128, 31712), (149, 31802), (191, 31997), (194, 32015), (195, 32018), (198, 32033), (200, 32048), (204, 32063), (206, 32090), (214, 32129), (251, 32300), (257, 32333), (263, 32384), (267,

32399), (268, 32408), (277, 32483), (278, 32486), (282, 32510), (326, 32735), (331, 32750), (340, 32780), (354, 32828), (357, 32843), (358, 32849),

Gene: Fosterous_10 Start: 6015, Stop: 7637, Start Num: 6

Candidate Starts for Fosterous_10:

(Start: 6 @6015 has 97 MA's), (52, 6174), (61, 6213), (74, 6276), (93, 6369), (100, 6396), (113, 6435), (158, 6555), (160, 6564), (175, 6624), (190, 6693), (194, 6714), (198, 6732), (200, 6747), (201, 6753), (211, 6816), (230, 6876), (233, 6888), (240, 6927), (243, 6939), (246, 6948), (252, 6993), (257, 7023), (262, 7068), (265, 7083), (266, 7086), (270, 7122), (276, 7170), (279, 7179), (284, 7206), (313, 7350), (317, 7383), (338, 7440), (341, 7446), (348, 7461), (361, 7482), (363, 7488), (370, 7524), (375, 7551),

Gene: FrankDeliGuy_20 Start: 8306, Stop: 10132, Start Num: 37

Candidate Starts for FrankDeliGuy_20:

(Start: 37 @8306 has 37 MA's), (77, 8456), (111, 8591), (124, 8630), (153, 8708), (159, 8726), (198, 8876), (200, 8891), (207, 8948), (221, 9017), (231, 9065), (233, 9074), (257, 9209), (262, 9254), (263, 9260), (266, 9272), (273, 9332), (303, 9461), (304, 9467), (307, 9494), (324, 9593), (339, 9638), (394, 9833), (403, 9869), (406, 9887), (411, 9932),

Gene: Fransoyer_24 Start: 9057, Stop: 10871, Start Num: 37

Candidate Starts for Fransoyer_24:

(Start: 29 @9036 has 1 MA's), (Start: 37 @9057 has 37 MA's), (124, 9384), (129, 9402), (134, 9414), (184, 9558), (198, 9630), (202, 9654), (208, 9705), (232, 9819), (238, 9846), (241, 9876), (257, 9957), (262, 10002), (263, 10008), (266, 10020), (273, 10080), (290, 10164), (303, 10209), (304, 10215), (313, 10281), (324, 10341), (353, 10431), (369, 10491), (394, 10572), (423, 10797),

Gene: Fregley_22 Start: 7891, Stop: 9690, Start Num: 37

Candidate Starts for Fregley_22:

(Start: 37 @7891 has 37 MA's), (68, 7990), (106, 8155), (124, 8206), (134, 8236), (159, 8302), (218, 8569), (226, 8614), (240, 8701), (250, 8746), (256, 8782), (262, 8830), (263, 8836), (266, 8848), (270, 8884), (273, 8908), (303, 9043), (318, 9151), (323, 9172), (349, 9253), (353, 9262), (389, 9373), (394, 9391), (403, 9427), (412, 9493), (417, 9562), (421, 9595), (428, 9670),

Gene: Fugax_12 Start: 5583, Stop: 7169, Start Num: 6

Candidate Starts for Fugax_12:

(Start: 6 @5583 has 97 MA's), (75, 5835), (79, 5865), (113, 5982), (119, 6003), (125, 6018), (183, 6192), (192, 6234), (196, 6258), (197, 6261), (205, 6300), (219, 6372), (233, 6432), (234, 6435), (235, 6438), (241, 6474), (243, 6483), (245, 6489), (246, 6492), (257, 6555), (262, 6600), (268, 6630), (273, 6678), (284, 6735), (290, 6756), (297, 6783), (298, 6786), (304, 6813), (311, 6864), (317, 6912),

Gene: FuzzBuster_24 Start: 8570, Stop: 10354, Start Num: 13

Candidate Starts for FuzzBuster_24:

(Start: 13 @8570 has 37 MA's), (Start: 14 @8579 has 13 MA's), (33, 8636), (75, 8798), (82, 8837), (104, 8930), (144, 9086), (155, 9116), (156, 9119), (198, 9314), (203, 9341), (207, 9386), (209, 9392), (210, 9395), (216, 9419), (233, 9488), (241, 9530), (243, 9539), (244, 9542), (257, 9611), (269, 9695), (271, 9719), (286, 9803), (287, 9806), (302, 9863), (303, 9872), (304, 9878), (329, 10025), (336, 10049), (345, 10076), (350, 10094), (361, 10136), (391, 10265),

Gene: GMA2_9 Start: 6225, Stop: 7979, Start Num: 16

Candidate Starts for GMA2_9:

(16, 6225), (67, 6396), (85, 6495), (86, 6504), (97, 6543), (143, 6741), (166, 6834), (191, 6963), (194, 6981), (204, 7029), (206, 7056), (207, 7068), (229, 7143), (268, 7374), (278, 7452), (286, 7491), (328, 7707), (340, 7746), (357, 7809), (358, 7815), (366, 7851), (377, 7926),

Gene: GTE6_14 Start: 6302, Stop: 7978, Start Num: 6

Candidate Starts for GTE6_14:

(Start: 6 @6302 has 97 MA's), (11, 6335), (26, 6413), (38, 6440), (44, 6467), (74, 6599), (78, 6629), (96, 6707), (102, 6725), (127, 6806), (158, 6878), (160, 6887), (175, 6947), (198, 7055), (199, 7067), (200, 7070), (201, 7076), (233, 7211), (234, 7214), (246, 7271), (257, 7346), (262, 7391), (266, 7409), (269, 7430), (273, 7469), (276, 7493), (280, 7514), (284, 7529), (298, 7580), (303, 7601), (317, 7706), (325, 7736),

Gene: Gaea_12 Start: 6275, Stop: 7903, Start Num: 6

Candidate Starts for Gaea_12:

(Start: 6 @6275 has 97 MA's), (Start: 34 @6398 has 11 MA's), (43, 6419), (61, 6476), (74, 6539), (78, 6569), (93, 6632), (100, 6659), (160, 6827), (181, 6914), (189, 6953), (194, 6977), (198, 6995), (200, 7010), (201, 7016), (211, 7079), (233, 7151), (240, 7190), (252, 7256), (257, 7286), (262, 7331), (265, 7346), (266, 7349), (270, 7385), (276, 7433), (279, 7442), (284, 7469), (292, 7496), (303, 7541), (311, 7598), (314, 7616), (317, 7646), (321, 7664), (338, 7703), (341, 7709), (348, 7724), (361, 7745), (363, 7751), (370, 7787), (376, 7820),

Gene: Galadriel_14 Start: 6783, Stop: 8405, Start Num: 6

Candidate Starts for Galadriel_14:

(Start: 6 @6783 has 97 MA's), (52, 6942), (61, 6981), (74, 7044), (93, 7137), (100, 7164), (113, 7203), (160, 7332), (175, 7392), (190, 7461), (194, 7482), (198, 7500), (200, 7515), (201, 7521), (211, 7584), (230, 7644), (233, 7656), (240, 7695), (243, 7707), (246, 7716), (252, 7761), (257, 7791), (262, 7836), (265, 7851), (266, 7854), (270, 7890), (276, 7938), (279, 7947), (284, 7974), (317, 8151), (338, 8208), (341, 8214), (348, 8229), (361, 8250), (363, 8256), (370, 8292), (375, 8319),

Gene: Ganandorf_19 Start: 8504, Stop: 10171, Start Num: 14

Candidate Starts for Ganandorf_19:

(Start: 13 @8495 has 37 MA's), (Start: 14 @8504 has 13 MA's), (49, 8618), (50, 8624), (75, 8729), (77, 8741), (100, 8840), (102, 8846), (104, 8858), (116, 8912), (122, 8930), (135, 8984), (146, 9014), (158, 9053), (163, 9071), (164, 9080), (174, 9116), (186, 9179), (198, 9242), (203, 9269), (233, 9416), (234, 9419), (241, 9458), (246, 9476), (259, 9548), (268, 9614), (269, 9623), (279, 9695), (285, 9728), (287, 9734), (294, 9764), (297, 9779), (319, 9917), (322, 9932), (329, 9953), (330, 9956),

Gene: Gazebo_21 Start: 8940, Stop: 10766, Start Num: 37

Candidate Starts for Gazebo_21:

(Start: 37 @8940 has 37 MA's), (111, 9225), (124, 9264), (153, 9342), (159, 9360), (198, 9510), (200, 9525), (207, 9582), (231, 9699), (233, 9708), (257, 9843), (262, 9888), (263, 9894), (266, 9906), (273, 9966), (303, 10095), (304, 10101), (307, 10128), (324, 10227), (339, 10272), (394, 10467), (403, 10503), (406, 10521), (411, 10566),

Gene: Geodirt_12 Start: 6790, Stop: 8412, Start Num: 6

Candidate Starts for Geodirt_12:

(Start: 6 @6790 has 97 MA's), (52, 6949), (61, 6988), (74, 7051), (93, 7144), (100, 7171), (113, 7210), (160, 7339), (175, 7399), (190, 7468), (194, 7489), (198, 7507), (200, 7522), (201, 7528), (211, 7591), (230, 7651), (233, 7663), (240, 7702), (243, 7714), (246, 7723), (249, 7756), (252, 7768), (257, 7798), (262, 7843), (265, 7858), (266, 7861), (270, 7897), (276, 7945), (279, 7954), (284, 7981), (317, 8158), (338, 8215), (341, 8221), (348, 8236), (361, 8257), (363, 8263), (370, 8299), (375, 8326),

Gene: Gezellig_12 Start: 5562, Stop: 7145, Start Num: 6

Candidate Starts for Gezellig_12:

(Start: 6 @5562 has 97 MA's), (Start: 34 @5676 has 11 MA's), (79, 5844), (114, 5964), (119, 5982), (125, 5997), (177, 6147), (185, 6177), (196, 6237), (197, 6240), (205, 6279), (219, 6351), (233, 6411), (234, 6414), (235, 6417), (241, 6453), (243, 6462), (245, 6468), (246, 6471), (257, 6534), (262, 6579),

(268, 6609), (273, 6657), (284, 6714), (290, 6735), (292, 6741), (297, 6762), (304, 6792), (311, 6843), (317, 6891),

Gene: Gina_20 Start: 7583, Stop: 9301, Start Num: 13

Candidate Starts for Gina_20:

(Start: 13 @7583 has 37 MA's), (Start: 14 @7592 has 13 MA's), (50, 7712), (75, 7817), (77, 7829), (100, 7928), (104, 7946), (116, 8000), (122, 8018), (133, 8069), (139, 8093), (154, 8123), (161, 8153), (163, 8159), (164, 8168), (174, 8204), (186, 8267), (198, 8330), (203, 8357), (207, 8402), (233, 8504), (234, 8507), (243, 8555), (246, 8564), (252, 8597), (259, 8636), (268, 8702), (269, 8711), (270, 8726), (271, 8735), (273, 8750), (274, 8762), (279, 8783), (285, 8816), (287, 8822), (294, 8852), (304, 8897), (319, 9005), (325, 9029), (336, 9065), (337, 9068), (344, 9089), (350, 9110), (383, 9245), (387, 9257), (396, 9284),

Gene: GodonK_66 Start: 24698, Stop: 26512, Start Num: 22

Candidate Starts for GodonK_66:

(Start: 19 @24686 has 1 MA's), (Start: 22 @24698 has 1 MA's), (40, 24743), (45, 24767), (67, 24854), (82, 24938), (83, 24941), (94, 24986), (143, 25199), (167, 25298), (172, 25322), (194, 25442), (199, 25472), (204, 25490), (206, 25517), (230, 25613), (236, 25637), (240, 25676), (244, 25691), (252, 25730), (253, 25733), (254, 25736), (261, 25784), (263, 25811), (268, 25835), (277, 25910), (278, 25913), (279, 25916), (280, 25928), (282, 25937), (286, 25952), (287, 25955), (321, 26150), (338, 26201), (358, 26276), (362, 26297), (386, 26414),

Gene: Grassboy_23 Start: 9122, Stop: 10948, Start Num: 37

Candidate Starts for Grassboy_23:

(Start: 37 @9122 has 37 MA's), (77, 9272), (111, 9407), (124, 9446), (153, 9524), (159, 9542), (198, 9692), (200, 9707), (207, 9764), (231, 9881), (233, 9890), (257, 10025), (262, 10070), (263, 10076), (266, 10088), (273, 10148), (303, 10277), (304, 10283), (307, 10310), (324, 10409), (339, 10454), (394, 10649), (403, 10685), (406, 10703), (411, 10748),

Gene: Gustavo_12 Start: 6272, Stop: 7900, Start Num: 6

Candidate Starts for Gustavo_12:

(Start: 6 @6272 has 97 MA's), (Start: 34 @6395 has 11 MA's), (43, 6416), (61, 6473), (74, 6536), (78, 6566), (93, 6629), (100, 6656), (160, 6824), (181, 6911), (189, 6950), (194, 6974), (198, 6992), (200, 7007), (201, 7013), (211, 7076), (233, 7148), (240, 7187), (252, 7253), (257, 7283), (262, 7328), (265, 7343), (266, 7346), (270, 7382), (276, 7430), (279, 7439), (284, 7466), (292, 7493), (303, 7538), (314, 7613), (317, 7643), (321, 7661), (338, 7700), (341, 7706), (348, 7721), (361, 7742), (363, 7748), (370, 7784), (376, 7817),

Gene: Halo3_13 Start: 5892, Stop: 7478, Start Num: 6

Candidate Starts for Halo3_13:

(Start: 6 @5892 has 97 MA's), (15, 5955), (75, 6144), (79, 6174), (113, 6291), (119, 6312), (125, 6327), (183, 6501), (185, 6507), (192, 6543), (196, 6567), (197, 6570), (205, 6609), (219, 6681), (233, 6741), (240, 6780), (241, 6783), (243, 6792), (245, 6798), (257, 6864), (262, 6909), (268, 6939), (273, 6987), (284, 7044), (290, 7065), (297, 7092), (298, 7095), (304, 7122), (311, 7173), (317, 7221),

Gene: Hans_15 Start: 6962, Stop: 8596, Start Num: 6

Candidate Starts for Hans_15:

(Start: 6 @6962 has 97 MA's), (9, 6989), (12, 6998), (15, 7034), (38, 7100), (57, 7157), (66, 7190), (74, 7235), (78, 7265), (79, 7274), (85, 7298), (88, 7313), (113, 7394), (131, 7451), (157, 7511), (160, 7523), (164, 7541), (175, 7583), (194, 7673), (198, 7691), (200, 7706), (201, 7712), (208, 7766), (213, 7787), (233, 7847), (234, 7850), (246, 7907), (247, 7931), (252, 7952), (257, 7982), (262, 8027), (266, 8045), (269, 8066), (276, 8129), (280, 8150), (284, 8165), (298, 8216), (315, 8321), (317, 8342), (325, 8372), (333, 8390), (363, 8456), (368, 8477), (376, 8531),

Gene: Hermeonysus_19 Start: 8365, Stop: 10041, Start Num: 13

Candidate Starts for Hermeonysus_19:

(Start: 13 @8365 has 37 MA's), (Start: 14 @8374 has 13 MA's), (49, 8488), (50, 8494), (75, 8599), (77, 8611), (100, 8710), (102, 8716), (104, 8728), (116, 8782), (122, 8800), (135, 8854), (146, 8884), (158, 8923), (163, 8941), (164, 8950), (174, 8986), (186, 9049), (198, 9112), (203, 9139), (233, 9286), (234, 9289), (241, 9328), (246, 9346), (259, 9418), (268, 9484), (269, 9493), (279, 9565), (285, 9598), (287, 9604), (294, 9634), (297, 9649), (319, 9787), (322, 9802), (329, 9823), (330, 9826),

Gene: Honeyfin_21 Start: 8650, Stop: 10356, Start Num: 13

Candidate Starts for Honeyfin_21:

(Start: 13 @8650 has 37 MA's), (Start: 14 @8659 has 13 MA's), (17, 8674), (49, 8773), (50, 8779), (75, 8884), (77, 8896), (100, 8995), (102, 9001), (116, 9067), (122, 9085), (135, 9139), (146, 9169), (158, 9208), (163, 9226), (164, 9235), (174, 9271), (186, 9334), (198, 9397), (203, 9424), (207, 9469), (233, 9571), (234, 9574), (241, 9613), (246, 9631), (259, 9703), (268, 9769), (269, 9778), (273, 9817), (279, 9850), (285, 9883), (287, 9889), (294, 9919), (319, 10072), (322, 10087), (329, 10108), (330, 10111), (387, 10324),

Gene: Hyperion_21 Start: 8813, Stop: 10639, Start Num: 37

Candidate Starts for Hyperion_21:

(Start: 37 @8813 has 37 MA's), (77, 8963), (111, 9098), (124, 9137), (153, 9215), (159, 9233), (198, 9383), (200, 9398), (207, 9455), (231, 9572), (233, 9581), (257, 9716), (262, 9761), (263, 9767), (266, 9779), (273, 9839), (303, 9968), (304, 9974), (307, 10001), (324, 10100), (339, 10145), (394, 10340), (403, 10376), (406, 10394), (411, 10439),

Gene: Inspectinfecti_14 Start: 7478, Stop: 9112, Start Num: 6

Candidate Starts for Inspectinfecti_14:

(Start: 6 @7478 has 97 MA's), (9, 7505), (12, 7514), (15, 7550), (Start: 28 @7592 has 1 MA's), (38, 7616), (57, 7673), (66, 7706), (74, 7751), (78, 7781), (79, 7790), (85, 7814), (88, 7829), (113, 7910), (131, 7967), (157, 8027), (160, 8039), (164, 8057), (175, 8099), (194, 8189), (198, 8207), (200, 8222), (201, 8228), (208, 8282), (213, 8303), (233, 8363), (234, 8366), (246, 8423), (247, 8447), (257, 8498), (262, 8543), (266, 8561), (269, 8582), (276, 8645), (280, 8666), (284, 8681), (298, 8732), (315, 8837), (317, 8858), (325, 8888), (333, 8906), (363, 8972), (368, 8993), (376, 9047),

Gene: JKSyngboy_11 Start: 6783, Stop: 8414, Start Num: 6

Candidate Starts for JKSyngboy_11:

(Start: 6 @6783 has 97 MA's), (Start: 34 @6906 has 11 MA's), (43, 6927), (61, 6984), (74, 7047), (93, 7140), (100, 7167), (160, 7335), (181, 7422), (189, 7461), (194, 7485), (198, 7503), (200, 7518), (201, 7524), (211, 7587), (233, 7659), (236, 7671), (240, 7698), (246, 7719), (252, 7764), (257, 7794), (262, 7839), (265, 7854), (266, 7857), (270, 7893), (276, 7941), (279, 7950), (303, 8049), (311, 8106), (314, 8124), (317, 8154), (321, 8172), (338, 8211), (341, 8217), (348, 8232), (361, 8253), (363, 8259), (370, 8298),

Gene: Jabberwocky_11 Start: 6945, Stop: 8567, Start Num: 6

Candidate Starts for Jabberwocky_11:

(Start: 6 @6945 has 97 MA's), (Start: 34 @7065 has 11 MA's), (52, 7104), (61, 7143), (74, 7206), (93, 7299), (100, 7326), (113, 7365), (160, 7494), (175, 7554), (190, 7623), (194, 7644), (198, 7662), (200, 7677), (201, 7683), (211, 7746), (230, 7806), (233, 7818), (240, 7857), (243, 7869), (246, 7878), (249, 7911), (252, 7923), (257, 7953), (262, 7998), (265, 8013), (266, 8016), (270, 8052), (276, 8100), (279, 8109), (284, 8136), (317, 8313), (338, 8370), (341, 8376), (348, 8391), (361, 8412), (363, 8418), (370, 8454), (375, 8481),

Gene: Jambalaya_12 Start: 5267, Stop: 6853, Start Num: 6

Candidate Starts for Jambalaya_12:

(Start: 6 @5267 has 97 MA's), (Start: 34 @5381 has 11 MA's), (79, 5549), (114, 5669), (119, 5687), (125, 5702), (177, 5852), (185, 5882), (196, 5942), (197, 5945), (205, 5984), (219, 6056), (233, 6116), (234, 6119), (235, 6122), (241, 6158), (243, 6167), (245, 6173), (246, 6176), (257, 6239), (262, 6284), (268, 6314), (273, 6362), (284, 6419), (290, 6440), (292, 6446), (297, 6467), (298, 6470), (304, 6497), (311, 6548), (317, 6596),

Gene: Jayden_20 Start: 7979, Stop: 9697, Start Num: 13

Candidate Starts for Jayden_20:

(1, 7835), (Start: 13 @7979 has 37 MA's), (Start: 14 @7988 has 13 MA's), (42, 8084), (50, 8108), (75, 8213), (77, 8225), (100, 8324), (104, 8342), (116, 8396), (122, 8414), (133, 8465), (135, 8468), (152, 8507), (154, 8519), (158, 8537), (163, 8555), (164, 8564), (174, 8600), (186, 8663), (198, 8726), (203, 8753), (207, 8798), (233, 8900), (234, 8903), (246, 8960), (252, 8993), (259, 9032), (268, 9098), (269, 9107), (270, 9122), (273, 9146), (274, 9158), (285, 9212), (287, 9218), (294, 9248), (319, 9401), (329, 9437), (336, 9461), (337, 9464), (344, 9485), (350, 9506), (378, 9629), (383, 9641), (387, 9653), (396, 9680),

Gene: Jefe_20 Start: 8418, Stop: 10094, Start Num: 13

Candidate Starts for Jefe_20:

(Start: 13 @8418 has 37 MA's), (Start: 14 @8427 has 13 MA's), (49, 8541), (50, 8547), (75, 8652), (77, 8664), (102, 8769), (104, 8781), (116, 8835), (122, 8853), (135, 8907), (146, 8937), (158, 8976), (163, 8994), (164, 9003), (174, 9039), (186, 9102), (198, 9165), (203, 9192), (233, 9339), (234, 9342), (241, 9381), (246, 9399), (259, 9471), (268, 9537), (269, 9546), (279, 9618), (285, 9651), (287, 9657), (294, 9687), (297, 9702), (319, 9840), (322, 9855), (329, 9876), (330, 9879),

Gene: Jehoshaphat_24 Start: 9365, Stop: 11191, Start Num: 37

Candidate Starts for Jehoshaphat_24:

(Start: 37 @9365 has 37 MA's), (77, 9515), (111, 9650), (124, 9689), (153, 9767), (159, 9785), (198, 9935), (200, 9950), (207, 10007), (221, 10076), (231, 10124), (233, 10133), (257, 10268), (262, 10313), (263, 10319), (266, 10331), (273, 10391), (303, 10520), (304, 10526), (307, 10553), (324, 10652), (339, 10697), (394, 10892), (403, 10928), (406, 10946), (411, 10991),

Gene: Jollipop_20 Start: 8736, Stop: 10442, Start Num: 13

Candidate Starts for Jollipop_20:

(Start: 13 @8736 has 37 MA's), (Start: 14 @8745 has 13 MA's), (17, 8760), (49, 8859), (50, 8865), (75, 8970), (77, 8982), (100, 9081), (102, 9087), (104, 9099), (116, 9153), (122, 9171), (135, 9225), (146, 9255), (158, 9294), (163, 9312), (164, 9321), (174, 9357), (186, 9420), (198, 9483), (203, 9510), (207, 9555), (233, 9657), (234, 9660), (241, 9699), (246, 9717), (259, 9789), (268, 9855), (269, 9864), (273, 9903), (279, 9936), (285, 9969), (287, 9975), (294, 10005), (319, 10158), (322, 10173), (329, 10194), (330, 10197), (384, 10401), (387, 10410),

Gene: Judebell_24 Start: 8906, Stop: 10732, Start Num: 37

Candidate Starts for Judebell_24:

(Start: 37 @8906 has 37 MA's), (77, 9056), (111, 9191), (124, 9230), (153, 9308), (159, 9326), (198, 9476), (200, 9491), (207, 9548), (221, 9617), (231, 9665), (233, 9674), (257, 9809), (262, 9854), (263, 9860), (266, 9872), (273, 9932), (303, 10061), (304, 10067), (307, 10094), (324, 10193), (339, 10238), (394, 10433), (403, 10469), (406, 10487), (411, 10532),

Gene: KaiHaiDragon_20 Start: 8353, Stop: 10035, Start Num: 14

Candidate Starts for KaiHaiDragon_20:

(Start: 13 @8344 has 37 MA's), (Start: 14 @8353 has 13 MA's), (17, 8368), (49, 8467), (50, 8473), (75, 8578), (77, 8590), (100, 8689), (102, 8695), (104, 8707), (116, 8761), (122, 8779), (135, 8833), (146, 8863), (158, 8902), (163, 8920), (164, 8929), (174, 8965), (186, 9028), (198, 9091), (203, 9118),

(233, 9265), (234, 9268), (241, 9307), (259, 9397), (268, 9463), (269, 9472), (279, 9544), (285, 9577), (287, 9583), (294, 9613), (297, 9628), (319, 9766), (322, 9781), (329, 9802), (330, 9805),

Gene: Kamashten_13 Start: 7104, Stop: 8729, Start Num: 6

Candidate Starts for Kamashten_13:

(Start: 6 @7104 has 97 MA's), (52, 7263), (61, 7302), (74, 7365), (100, 7485), (113, 7524), (160, 7653), (175, 7713), (190, 7782), (194, 7803), (198, 7821), (200, 7836), (201, 7842), (211, 7905), (230, 7965), (233, 7977), (240, 8016), (243, 8028), (246, 8037), (249, 8070), (252, 8082), (257, 8112), (262, 8157), (265, 8172), (266, 8175), (270, 8211), (276, 8259), (279, 8268), (284, 8295), (317, 8472), (338, 8529), (341, 8535), (348, 8550), (361, 8571), (363, 8577), (370, 8613), (375, 8643),

Gene: Keitabear_13 Start: 8156, Stop: 9778, Start Num: 6

Candidate Starts for Keitabear_13:

(Start: 6 @8156 has 97 MA's), (Start: 34 @8276 has 11 MA's), (52, 8315), (57, 8336), (61, 8354), (74, 8417), (93, 8510), (100, 8537), (113, 8576), (160, 8705), (175, 8765), (190, 8834), (194, 8855), (198, 8873), (200, 8888), (201, 8894), (211, 8957), (230, 9017), (233, 9029), (240, 9068), (243, 9080), (246, 9089), (249, 9122), (252, 9134), (257, 9164), (262, 9209), (265, 9224), (266, 9227), (270, 9263), (276, 9311), (279, 9320), (284, 9347), (317, 9524), (338, 9581), (341, 9587), (348, 9602), (361, 9623), (363, 9629), (370, 9665), (375, 9692),

Gene: Kelcole_20 Start: 7743, Stop: 9542, Start Num: 37

Candidate Starts for Kelcole_20:

(Start: 37 @7743 has 37 MA's), (68, 7842), (106, 8007), (124, 8058), (134, 8088), (159, 8154), (218, 8421), (226, 8466), (240, 8553), (250, 8598), (256, 8634), (262, 8682), (263, 8688), (266, 8700), (270, 8736), (273, 8760), (303, 8895), (318, 9003), (323, 9024), (349, 9105), (353, 9114), (389, 9225), (394, 9243), (403, 9279), (412, 9345), (417, 9414), (421, 9447), (428, 9522),

Gene: Kewpiedoll_13 Start: 6506, Stop: 8128, Start Num: 6

Candidate Starts for Kewpiedoll_13:

(Start: 6 @6506 has 97 MA's), (Start: 34 @6626 has 11 MA's), (52, 6665), (61, 6704), (74, 6767), (93, 6860), (100, 6887), (113, 6926), (160, 7055), (175, 7115), (190, 7184), (194, 7205), (198, 7223), (200, 7238), (201, 7244), (211, 7307), (230, 7367), (233, 7379), (240, 7418), (243, 7430), (246, 7439), (249, 7472), (252, 7484), (257, 7514), (262, 7559), (265, 7574), (266, 7577), (270, 7613), (276, 7661), (279, 7670), (284, 7697), (317, 7874), (338, 7931), (341, 7937), (348, 7952), (361, 7973), (363, 7979), (370, 8015), (375, 8042),

Gene: KimmyK_12 Start: 5583, Stop: 7169, Start Num: 6

Candidate Starts for KimmyK_12:

(Start: 6 @5583 has 97 MA's), (75, 5835), (79, 5865), (113, 5982), (119, 6003), (125, 6018), (183, 6192), (192, 6234), (196, 6258), (197, 6261), (205, 6300), (219, 6372), (233, 6432), (234, 6435), (235, 6438), (241, 6474), (243, 6483), (245, 6489), (246, 6492), (257, 6555), (262, 6600), (268, 6630), (273, 6678), (284, 6735), (290, 6756), (297, 6783), (298, 6786), (304, 6813), (311, 6864), (317, 6912),

Gene: Kithara_22 Start: 9733, Stop: 11709, Start Num: 23

Candidate Starts for Kithara_22:

(23, 9733), (41, 9775), (65, 9859), (69, 9877), (76, 9922), (81, 9949), (109, 10093), (115, 10108), (123, 10135), (130, 10177), (136, 10195), (150, 10231), (186, 10366), (208, 10504), (212, 10522), (217, 10540), (218, 10543), (231, 10606), (234, 10618), (238, 10639), (242, 10675), (244, 10681), (246, 10687), (262, 10795), (263, 10801), (300, 11002), (318, 11125), (322, 11143), (368, 11281), (381, 11359), (403, 11437), (408, 11485), (412, 11503), (414, 11548), (422, 11638), (426, 11683),

Gene: Kowalski_19 Start: 8475, Stop: 10151, Start Num: 13

Candidate Starts for Kowalski_19:

(Start: 13 @8475 has 37 MA's), (Start: 14 @8484 has 13 MA's), (49, 8598), (50, 8604), (75, 8709), (77, 8721), (100, 8820), (102, 8826), (104, 8838), (116, 8892), (122, 8910), (135, 8964), (146, 8994), (158, 9033), (163, 9051), (164, 9060), (174, 9096), (186, 9159), (198, 9222), (203, 9249), (233, 9396), (234, 9399), (241, 9438), (246, 9456), (259, 9528), (268, 9594), (269, 9603), (279, 9675), (285, 9708), (287, 9714), (294, 9744), (297, 9759), (319, 9897), (322, 9912), (329, 9933), (330, 9936),

Gene: Kozie_14 Start: 7119, Stop: 8849, Start Num: 14

Candidate Starts for Kozie_14:

(Start: 13 @7110 has 37 MA's), (Start: 14 @7119 has 13 MA's), (41, 7200), (62, 7275), (75, 7341), (77, 7353), (78, 7362), (82, 7380), (100, 7452), (116, 7524), (124, 7554), (133, 7593), (135, 7596), (144, 7650), (154, 7677), (158, 7695), (160, 7704), (163, 7713), (164, 7722), (171, 7746), (177, 7779), (182, 7800), (184, 7806), (203, 7905), (207, 7950), (233, 8052), (246, 8112), (248, 8127), (259, 8184), (269, 8259), (273, 8298), (287, 8370), (288, 8379), (323, 8574), (329, 8592), (330, 8595), (345, 8643), (351, 8664), (356, 8688), (360, 8694), (367, 8712), (390, 8805),

Gene: Kroos_12 Start: 6436, Stop: 8064, Start Num: 6

Candidate Starts for Kroos_12:

(Start: 6 @6436 has 97 MA's), (Start: 34 @6559 has 11 MA's), (43, 6580), (61, 6637), (74, 6700), (78, 6730), (93, 6793), (100, 6820), (114, 6862), (160, 6988), (181, 7075), (189, 7114), (194, 7138), (198, 7156), (200, 7171), (201, 7177), (211, 7240), (233, 7312), (240, 7351), (252, 7417), (257, 7447), (262, 7492), (265, 7507), (266, 7510), (270, 7546), (276, 7594), (279, 7603), (284, 7630), (292, 7657), (303, 7702), (311, 7759), (314, 7777), (317, 7807), (321, 7825), (338, 7864), (341, 7870), (348, 7885), (361, 7906), (363, 7912), (370, 7948), (376, 7981),

Gene: Kwekel_13 Start: 5795, Stop: 7471, Start Num: 6

Candidate Starts for Kwekel_13:

(Start: 6 @5795 has 97 MA's), (26, 5906), (38, 5933), (45, 5963), (74, 6092), (78, 6122), (96, 6200), (127, 6299), (158, 6371), (160, 6380), (165, 6401), (175, 6440), (194, 6530), (198, 6548), (200, 6563), (201, 6569), (213, 6644), (233, 6704), (234, 6707), (246, 6764), (257, 6839), (262, 6884), (269, 6923), (273, 6962), (276, 6986), (280, 7007), (284, 7022), (287, 7034), (298, 7073), (317, 7199), (325, 7229), (368, 7334),

Gene: Kwobi_12 Start: 6275, Stop: 7903, Start Num: 6

Candidate Starts for Kwobi_12:

(Start: 6 @6275 has 97 MA's), (Start: 34 @6398 has 11 MA's), (43, 6419), (61, 6476), (74, 6539), (78, 6569), (93, 6632), (100, 6659), (160, 6827), (181, 6914), (189, 6953), (194, 6977), (198, 6995), (200, 7010), (201, 7016), (211, 7079), (233, 7151), (240, 7190), (252, 7256), (257, 7286), (262, 7331), (265, 7346), (266, 7349), (270, 7385), (276, 7433), (279, 7442), (284, 7469), (292, 7496), (303, 7541), (314, 7616), (317, 7646), (321, 7664), (338, 7703), (341, 7709), (348, 7724), (361, 7745), (363, 7751), (370, 7787), (376, 7820),

Gene: Kyva_24 Start: 9157, Stop: 10983, Start Num: 37

Candidate Starts for Kyva_24:

(Start: 37 @9157 has 37 MA's), (77, 9307), (111, 9442), (124, 9481), (153, 9559), (159, 9577), (198, 9727), (200, 9742), (207, 9799), (231, 9916), (233, 9925), (257, 10060), (262, 10105), (263, 10111), (266, 10123), (273, 10183), (303, 10312), (304, 10318), (307, 10345), (324, 10444), (339, 10489), (394, 10684), (403, 10720), (406, 10738), (411, 10783),

Gene: Lennon_13 Start: 7365, Stop: 8987, Start Num: 6

Candidate Starts for Lennon_13:

(Start: 6 @7365 has 97 MA's), (52, 7524), (61, 7563), (74, 7626), (100, 7746), (113, 7785), (158, 7905), (160, 7914), (175, 7974), (190, 8043), (194, 8064), (198, 8082), (200, 8097), (201, 8103), (211, 8166), (230, 8226), (233, 8238), (240, 8277), (243, 8289), (246, 8298), (249, 8331), (252, 8343), (257,

8373), (262, 8418), (265, 8433), (266, 8436), (270, 8472), (276, 8520), (279, 8529), (284, 8556), (317, 8733), (338, 8790), (341, 8796), (348, 8811), (361, 8832), (363, 8838), (370, 8874), (375, 8901),

Gene: Leonard_13 Start: 7073, Stop: 8707, Start Num: 6

Candidate Starts for Leonard_13:

(Start: 6 @7073 has 97 MA's), (9, 7100), (12, 7109), (15, 7145), (Start: 28 @7187 has 1 MA's), (38, 7211), (57, 7268), (66, 7301), (74, 7346), (78, 7376), (79, 7385), (85, 7409), (88, 7424), (113, 7505), (131, 7562), (157, 7622), (160, 7634), (164, 7652), (175, 7694), (194, 7784), (198, 7802), (200, 7817), (201, 7823), (208, 7877), (213, 7898), (233, 7958), (234, 7961), (246, 8018), (247, 8042), (257, 8093), (262, 8138), (266, 8156), (269, 8177), (276, 8240), (280, 8261), (284, 8276), (298, 8327), (315, 8432), (317, 8453), (325, 8483), (333, 8501), (363, 8567), (368, 8588), (376, 8642),

Gene: LilHam_10 Start: 5591, Stop: 7219, Start Num: 6

Candidate Starts for LilHam_10:

(Start: 6 @5591 has 97 MA's), (Start: 34 @5714 has 11 MA's), (43, 5735), (61, 5792), (74, 5855), (78, 5885), (93, 5948), (100, 5975), (160, 6143), (181, 6230), (189, 6269), (194, 6293), (198, 6311), (200, 6326), (201, 6332), (211, 6395), (233, 6467), (240, 6506), (252, 6572), (257, 6602), (262, 6647), (265, 6662), (266, 6665), (270, 6701), (276, 6749), (279, 6758), (284, 6785), (292, 6812), (303, 6857), (314, 6932), (317, 6962), (321, 6980), (338, 7019), (341, 7025), (348, 7040), (361, 7061), (363, 7067), (370, 7103), (376, 7136),

Gene: Lilbeanie_13 Start: 5278, Stop: 6954, Start Num: 3

Candidate Starts for Lilbeanie_13:

(Start: 3 @5278 has 1 MA's), (18, 5377), (39, 5437), (56, 5512), (57, 5515), (74, 5593), (113, 5752), (121, 5776), (132, 5812), (175, 5935), (177, 5944), (205, 6076), (219, 6148), (233, 6208), (234, 6211), (236, 6220), (246, 6268), (249, 6292), (250, 6295), (257, 6334), (268, 6409), (273, 6457), (283, 6514), (289, 6532), (298, 6568), (310, 6643), (313, 6661), (373, 6853),

Gene: LittleFortune_21 Start: 8692, Stop: 10398, Start Num: 13

Candidate Starts for LittleFortune_21:

(Start: 13 @8692 has 37 MA's), (Start: 14 @8701 has 13 MA's), (17, 8716), (49, 8815), (50, 8821), (75, 8926), (77, 8938), (100, 9037), (102, 9043), (116, 9109), (122, 9127), (135, 9181), (146, 9211), (158, 9250), (163, 9268), (164, 9277), (174, 9313), (186, 9376), (198, 9439), (203, 9466), (207, 9511), (233, 9613), (234, 9616), (241, 9655), (246, 9673), (259, 9745), (268, 9811), (269, 9820), (273, 9859), (279, 9892), (285, 9925), (287, 9931), (294, 9961), (319, 10114), (322, 10129), (329, 10150), (330, 10153), (384, 10357), (387, 10366),

Gene: Llemily_22 Start: 8141, Stop: 9967, Start Num: 37

Candidate Starts for Llemily_22:

(Start: 37 @8141 has 37 MA's), (77, 8291), (111, 8426), (124, 8465), (153, 8543), (159, 8561), (198, 8711), (200, 8726), (207, 8783), (221, 8852), (231, 8900), (233, 8909), (257, 9044), (262, 9089), (263, 9095), (266, 9107), (273, 9167), (303, 9296), (304, 9302), (307, 9329), (324, 9428), (339, 9473), (394, 9668), (403, 9704), (406, 9722), (411, 9767),

Gene: Lonelysoil_21 Start: 8386, Stop: 10212, Start Num: 37

Candidate Starts for Lonelysoil_21:

(Start: 37 @8386 has 37 MA's), (77, 8536), (111, 8671), (124, 8710), (153, 8788), (159, 8806), (198, 8956), (200, 8971), (207, 9028), (221, 9097), (231, 9145), (233, 9154), (257, 9289), (262, 9334), (263, 9340), (266, 9352), (273, 9412), (303, 9541), (304, 9547), (307, 9574), (324, 9673), (339, 9718), (394, 9913), (403, 9949), (406, 9967), (411, 10012),

Gene: Love_14 Start: 7094, Stop: 8716, Start Num: 6

Candidate Starts for Love_14:

(Start: 6 @7094 has 97 MA's), (Start: 34 @7214 has 11 MA's), (52, 7253), (61, 7292), (74, 7355), (93, 7448), (100, 7475), (113, 7514), (158, 7634), (160, 7643), (175, 7703), (190, 7772), (194, 7793), (198, 7811), (200, 7826), (201, 7832), (211, 7895), (230, 7955), (233, 7967), (240, 8006), (243, 8018), (246, 8027), (252, 8072), (257, 8102), (262, 8147), (265, 8162), (266, 8165), (270, 8201), (276, 8249), (279, 8258), (284, 8285), (317, 8462), (338, 8519), (341, 8525), (348, 8540), (361, 8561), (363, 8567), (370, 8603), (375, 8630),

Gene: Marcie_26 Start: 8457, Stop: 10256, Start Num: 37

Candidate Starts for Marcie_26:

(Start: 37 @8457 has 37 MA's), (89, 8670), (124, 8772), (134, 8802), (159, 8868), (218, 9135), (219, 9150), (222, 9168), (226, 9180), (240, 9267), (242, 9276), (250, 9312), (256, 9348), (262, 9396), (263, 9402), (266, 9414), (270, 9450), (273, 9474), (303, 9609), (318, 9717), (349, 9819), (353, 9828), (379, 9927), (389, 9939), (394, 9957), (403, 9993), (412, 10059), (417, 10128), (421, 10161), (427, 10230), (428, 10236),

Gene: Mareelih_76 Start: 30803, Stop: 32533, Start Num: 25

Candidate Starts for Mareelih_76:

(Start: 25 @30803 has 5 MA's), (53, 30881), (67, 30935), (70, 30947), (85, 31034), (88, 31049), (110, 31139), (128, 31214), (149, 31304), (191, 31499), (194, 31517), (195, 31520), (198, 31535), (200, 31550), (204, 31565), (206, 31592), (214, 31631), (251, 31802), (257, 31835), (263, 31886), (267, 31901), (268, 31910), (277, 31985), (278, 31988), (282, 32012), (326, 32237), (331, 32252), (340, 32282), (354, 32330), (357, 32345), (358, 32351),

Gene: Margaery_12 Start: 5952, Stop: 7694, Start Num: 14

Candidate Starts for Margaery_12:

(Start: 13 @5943 has 37 MA's), (Start: 14 @5952 has 13 MA's), (36, 6021), (41, 6033), (58, 6090), (62, 6105), (75, 6168), (77, 6180), (78, 6189), (82, 6207), (100, 6279), (124, 6381), (135, 6423), (144, 6474), (154, 6501), (155, 6507), (158, 6519), (160, 6528), (170, 6567), (171, 6570), (177, 6606), (182, 6627), (184, 6633), (186, 6642), (198, 6705), (203, 6732), (207, 6777), (233, 6879), (243, 6930), (252, 6972), (259, 7011), (268, 7077), (269, 7086), (271, 7110), (272, 7122), (273, 7125), (287, 7197), (297, 7242), (302, 7257), (329, 7419), (345, 7470), (351, 7491), (365, 7536), (371, 7590),

Gene: Mashley_20 Start: 8624, Stop: 10450, Start Num: 37

Candidate Starts for Mashley_20:

(Start: 37 @8624 has 37 MA's), (77, 8774), (111, 8909), (124, 8948), (153, 9026), (159, 9044), (198, 9194), (200, 9209), (207, 9266), (231, 9383), (233, 9392), (257, 9527), (262, 9572), (263, 9578), (266, 9590), (273, 9650), (303, 9779), (304, 9785), (307, 9812), (324, 9911), (339, 9956), (394, 10151), (403, 10187), (406, 10205), (411, 10250),

Gene: Matzah_13 Start: 6000, Stop: 7757, Start Num: 14

Candidate Starts for Matzah_13:

(Start: 13 @5991 has 37 MA's), (Start: 14 @6000 has 13 MA's), (41, 6084), (50, 6120), (58, 6153), (75, 6231), (77, 6243), (78, 6252), (80, 6264), (82, 6270), (100, 6342), (102, 6348), (124, 6444), (135, 6486), (141, 6516), (148, 6546), (158, 6582), (160, 6591), (163, 6600), (164, 6609), (182, 6690), (184, 6696), (186, 6705), (198, 6768), (203, 6795), (207, 6840), (220, 6891), (233, 6942), (246, 7002), (248, 7017), (259, 7074), (269, 7149), (271, 7173), (286, 7257), (287, 7260), (297, 7305), (304, 7335), (310, 7383), (323, 7464), (329, 7482), (330, 7485), (351, 7554), (356, 7578), (393, 7713), (401, 7737),

Gene: McKinley_13 Start: 7453, Stop: 9075, Start Num: 6

Candidate Starts for McKinley_13:

(Start: 6 @7453 has 97 MA's), (Start: 34 @7573 has 11 MA's), (52, 7612), (61, 7651), (74, 7714), (93, 7807), (100, 7834), (113, 7873), (160, 8002), (175, 8062), (190, 8131), (194, 8152), (198, 8170), (200, 8185), (201, 8191), (211, 8254), (230, 8314), (233, 8326), (240, 8365), (243, 8377), (246, 8386), (252,

8431), (257, 8461), (262, 8506), (265, 8521), (266, 8524), (270, 8560), (276, 8608), (279, 8617), (284, 8644), (313, 8788), (317, 8821), (338, 8878), (341, 8884), (348, 8899), (361, 8920), (363, 8926), (370, 8962), (375, 8989),

Gene: Megan_13 Start: 8673, Stop: 10412, Start Num: 13

Candidate Starts for Megan_13:

(10, 8646), (Start: 13 @8673 has 37 MA's), (Start: 14 @8682 has 13 MA's), (21, 8712), (48, 8790), (57, 8826), (75, 8910), (77, 8922), (85, 8964), (90, 8985), (104, 9039), (116, 9093), (117, 9096), (133, 9162), (158, 9225), (163, 9243), (164, 9252), (186, 9345), (198, 9408), (203, 9435), (207, 9480), (216, 9513), (218, 9522), (219, 9525), (233, 9582), (234, 9585), (241, 9624), (243, 9633), (246, 9642), (252, 9675), (259, 9714), (268, 9780), (269, 9789), (271, 9813), (273, 9828), (287, 9900), (302, 9975), (304, 9990), (320, 10110), (321, 10116), (329, 10140), (330, 10143), (345, 10191), (360, 10242), (366, 10254), (370, 10290), (379, 10332), (402, 10395),

Gene: MelBins_13 Start: 6850, Stop: 8484, Start Num: 6

Candidate Starts for MelBins_13:

(Start: 6 @6850 has 97 MA's), (9, 6877), (12, 6886), (15, 6922), (38, 6988), (57, 7045), (66, 7078), (74, 7123), (78, 7153), (79, 7162), (85, 7186), (88, 7201), (113, 7282), (131, 7339), (157, 7399), (160, 7411), (164, 7429), (175, 7471), (194, 7561), (198, 7579), (200, 7594), (201, 7600), (208, 7654), (213, 7675), (233, 7735), (234, 7738), (246, 7795), (247, 7819), (257, 7870), (262, 7915), (266, 7933), (269, 7954), (276, 8017), (280, 8038), (284, 8053), (298, 8104), (315, 8209), (317, 8230), (325, 8260), (333, 8278), (335, 8284), (349, 8320), (363, 8344), (365, 8350), (368, 8365), (376, 8419),

Gene: MellowYellow_19 Start: 7989, Stop: 9875, Start Num: 34

Candidate Starts for MellowYellow_19:

(Start: 34 @7989 has 11 MA's), (38, 7998), (54, 8037), (80, 8160), (84, 8178), (98, 8229), (106, 8253), (131, 8328), (196, 8571), (236, 8763), (263, 8937), (266, 8949), (290, 9099), (303, 9150), (307, 9183), (308, 9189), (313, 9222), (318, 9258), (325, 9285), (338, 9324), (345, 9345), (348, 9357), (405, 9621), (418, 9738), (426, 9834),

Gene: MementoMori_13 Start: 5993, Stop: 7759, Start Num: 13

Candidate Starts for MementoMori_13:

(Start: 13 @5993 has 37 MA's), (Start: 14 @6002 has 13 MA's), (41, 6083), (50, 6119), (58, 6152), (75, 6230), (77, 6242), (78, 6251), (80, 6263), (82, 6269), (100, 6341), (102, 6347), (124, 6443), (135, 6485), (141, 6515), (144, 6536), (148, 6545), (158, 6581), (160, 6590), (163, 6599), (164, 6608), (182, 6689), (184, 6695), (186, 6704), (198, 6767), (203, 6794), (207, 6839), (220, 6890), (233, 6941), (246, 7001), (248, 7016), (259, 7073), (269, 7148), (271, 7172), (286, 7256), (287, 7259), (297, 7304), (304, 7334), (310, 7382), (323, 7463), (329, 7481), (330, 7484), (345, 7532), (351, 7553), (356, 7577), (360, 7583), (393, 7715), (401, 7739),

Gene: Merry_20 Start: 8465, Stop: 10132, Start Num: 14

Candidate Starts for Merry_20:

(2, 8363), (10, 8429), (Start: 13 @8456 has 37 MA's), (Start: 14 @8465 has 13 MA's), (42, 8561), (50, 8585), (75, 8690), (77, 8702), (100, 8801), (116, 8873), (122, 8891), (139, 8966), (145, 8972), (158, 9011), (161, 9023), (164, 9038), (170, 9062), (174, 9074), (177, 9101), (184, 9128), (186, 9137), (203, 9227), (207, 9272), (233, 9374), (234, 9377), (243, 9425), (246, 9434), (259, 9506), (268, 9572), (269, 9581), (287, 9692), (301, 9749), (323, 9893), (327, 9905), (336, 9935), (378, 10103),

Gene: Metamorphoo_20 Start: 8066, Stop: 9760, Start Num: 13

Candidate Starts for Metamorphoo_20:

(Start: 13 @8066 has 37 MA's), (Start: 14 @8075 has 13 MA's), (50, 8198), (75, 8303), (77, 8315), (100, 8414), (116, 8486), (122, 8504), (158, 8627), (161, 8639), (163, 8645), (164, 8654), (174, 8690), (186, 8753), (198, 8816), (203, 8843), (207, 8888), (210, 8897), (220, 8939), (233, 8990), (234, 8993),

(241, 9032), (243, 9041), (246, 9050), (252, 9083), (259, 9122), (268, 9188), (269, 9197), (270, 9212), (273, 9236), (285, 9302), (287, 9308), (294, 9335), (319, 9488), (330, 9527), (336, 9548), (350, 9593), (387, 9740),

Gene: Mimi_83 Start: 33042, Stop: 34721, Start Num: 31

Candidate Starts for Mimi_83:

(Start: 28 @33036 has 1 MA's), (Start: 31 @33042 has 1 MA's), (58, 33147), (83, 33270), (85, 33282), (120, 33405), (186, 33657), (194, 33702), (225, 33858), (227, 33867), (228, 33879), (236, 33915), (239, 33936), (268, 34113), (334, 34467), (355, 34533), (357, 34539), (385, 34665), (388, 34674), (399, 34710),

Gene: MoontowerMania_11 Start: 6493, Stop: 8115, Start Num: 6

Candidate Starts for MoontowerMania_11:

(Start: 6 @6493 has 97 MA's), (Start: 34 @6613 has 11 MA's), (52, 6652), (61, 6691), (74, 6754), (93, 6847), (100, 6874), (113, 6913), (158, 7033), (160, 7042), (175, 7102), (190, 7171), (194, 7192), (198, 7210), (200, 7225), (201, 7231), (211, 7294), (230, 7354), (233, 7366), (240, 7405), (243, 7417), (246, 7426), (249, 7459), (252, 7471), (257, 7501), (262, 7546), (265, 7561), (266, 7564), (270, 7600), (276, 7648), (279, 7657), (284, 7684), (317, 7861), (338, 7918), (341, 7924), (348, 7939), (361, 7960), (363, 7966), (370, 8002), (375, 8029),

Gene: MorillMayhem_21 Start: 8632, Stop: 10458, Start Num: 37

Candidate Starts for MorillMayhem_21:

(Start: 37 @8632 has 37 MA's), (111, 8917), (124, 8956), (126, 8968), (153, 9034), (159, 9052), (198, 9202), (200, 9217), (207, 9274), (221, 9343), (231, 9391), (233, 9400), (257, 9535), (262, 9580), (263, 9586), (266, 9598), (273, 9658), (303, 9787), (304, 9793), (307, 9820), (324, 9919), (339, 9964), (394, 10159), (403, 10195), (406, 10213), (411, 10258),

Gene: Mutzi_12 Start: 5455, Stop: 7041, Start Num: 6

Candidate Starts for Mutzi_12:

(Start: 6 @5455 has 97 MA's), (75, 5707), (79, 5737), (113, 5854), (119, 5875), (125, 5890), (183, 6064), (192, 6106), (196, 6130), (197, 6133), (205, 6172), (219, 6244), (233, 6304), (234, 6307), (235, 6310), (241, 6346), (243, 6355), (245, 6361), (246, 6364), (257, 6427), (262, 6472), (268, 6502), (273, 6550), (284, 6607), (290, 6628), (297, 6655), (298, 6658), (304, 6685), (311, 6736), (317, 6784),

Gene: Namago_22 Start: 8194, Stop: 10020, Start Num: 37

Candidate Starts for Namago_22:

(Start: 37 @8194 has 37 MA's), (111, 8479), (124, 8518), (153, 8596), (159, 8614), (200, 8779), (207, 8836), (231, 8953), (233, 8962), (257, 9097), (262, 9142), (263, 9148), (266, 9160), (273, 9220), (303, 9349), (304, 9355), (307, 9382), (324, 9481), (339, 9526), (394, 9721), (403, 9757), (406, 9775), (411, 9820),

Gene: Natkenzie_14 Start: 6957, Stop: 8627, Start Num: 6

Candidate Starts for Natkenzie_14:

(Start: 6 @6957 has 97 MA's), (15, 7032), (20, 7053), (Start: 31 @7080 has 1 MA's), (56, 7167), (74, 7248), (78, 7278), (79, 7287), (97, 7362), (102, 7374), (114, 7410), (127, 7455), (158, 7527), (160, 7536), (187, 7647), (194, 7686), (196, 7695), (198, 7704), (199, 7716), (200, 7719), (201, 7725), (213, 7800), (230, 7848), (233, 7860), (255, 7980), (257, 7995), (262, 8040), (269, 8079), (274, 8130), (280, 8163), (283, 8175), (284, 8178), (292, 8205), (298, 8229), (311, 8307), (317, 8358), (325, 8388), (327, 8394), (349, 8451), (368, 8496),

Gene: Nicole72_14 Start: 8906, Stop: 10651, Start Num: 13

Candidate Starts for Nicole72_14:

(Start: 13 @8906 has 37 MA's), (Start: 14 @8915 has 13 MA's), (57, 9056), (75, 9140), (77, 9152), (80, 9173), (85, 9194), (100, 9251), (104, 9269), (122, 9341), (133, 9392), (158, 9455), (163, 9473), (164, 9482), (186, 9575), (198, 9638), (203, 9665), (207, 9710), (216, 9743), (218, 9752), (219, 9755), (233, 9812), (234, 9815), (241, 9854), (243, 9863), (246, 9872), (252, 9905), (259, 9944), (268, 10010), (269, 10019), (271, 10043), (273, 10058), (287, 10130), (294, 10175), (320, 10340), (321, 10346), (329, 10370), (330, 10373), (345, 10421), (350, 10439), (364, 10478), (366, 10487), (379, 10565), (392, 10607),

Gene: Nike_22 Start: 9101, Stop: 10927, Start Num: 37

Candidate Starts for Nike_22:

(Start: 37 @9101 has 37 MA's), (111, 9386), (124, 9425), (153, 9503), (159, 9521), (198, 9671), (200, 9686), (207, 9743), (221, 9812), (231, 9860), (233, 9869), (257, 10004), (262, 10049), (263, 10055), (266, 10067), (273, 10127), (303, 10256), (304, 10262), (307, 10289), (324, 10388), (339, 10433), (394, 10628), (403, 10664), (406, 10682), (411, 10727), (424, 10883),

Gene: NoodlelyBoi_19 Start: 8480, Stop: 10180, Start Num: 13

Candidate Starts for NoodlelyBoi_19:

(Start: 13 @8480 has 37 MA's), (Start: 14 @8489 has 13 MA's), (50, 8609), (75, 8714), (77, 8726), (100, 8825), (102, 8831), (103, 8840), (116, 8897), (122, 8915), (135, 8969), (140, 8993), (145, 8996), (154, 9020), (158, 9038), (163, 9056), (164, 9065), (174, 9101), (186, 9164), (198, 9227), (203, 9254), (207, 9299), (233, 9401), (234, 9404), (241, 9443), (246, 9461), (259, 9533), (268, 9599), (269, 9608), (273, 9647), (285, 9713), (287, 9719), (294, 9749), (319, 9902), (323, 9920), (330, 9941), (336, 9962), (337, 9965), (344, 9986),

Gene: Nordenberg_7 Start: 4637, Stop: 6259, Start Num: 6

Candidate Starts for Nordenberg_7:

(Start: 6 @4637 has 97 MA's), (52, 4796), (61, 4835), (74, 4898), (93, 4991), (100, 5018), (113, 5057), (160, 5186), (175, 5246), (190, 5315), (194, 5336), (198, 5354), (200, 5369), (201, 5375), (211, 5438), (230, 5498), (233, 5510), (240, 5549), (243, 5561), (246, 5570), (252, 5615), (257, 5645), (262, 5690), (265, 5705), (266, 5708), (270, 5744), (276, 5792), (279, 5801), (284, 5828), (317, 6005), (338, 6062), (341, 6068), (348, 6083), (361, 6104), (363, 6110), (370, 6146), (375, 6173),

Gene: Nubi_12 Start: 5453, Stop: 7042, Start Num: 6

Candidate Starts for Nubi_12:

(Start: 6 @5453 has 97 MA's), (15, 5516), (75, 5708), (79, 5738), (113, 5855), (119, 5876), (125, 5891), (183, 6065), (192, 6107), (196, 6131), (197, 6134), (205, 6173), (219, 6245), (233, 6305), (234, 6308), (235, 6311), (241, 6347), (243, 6356), (245, 6362), (246, 6365), (257, 6428), (262, 6473), (268, 6503), (273, 6551), (284, 6608), (290, 6629), (297, 6656), (298, 6659), (304, 6686), (311, 6737), (317, 6785),

Gene: NyleyClemson_19 Start: 7931, Stop: 9820, Start Num: 34

Candidate Starts for NyleyClemson_19:

(Start: 34 @7931 has 11 MA's), (38, 7940), (54, 7979), (80, 8102), (84, 8120), (106, 8195), (131, 8270), (196, 8513), (236, 8705), (263, 8879), (266, 8891), (290, 9041), (303, 9092), (307, 9125), (308, 9131), (313, 9164), (318, 9200), (325, 9227), (338, 9266), (348, 9299), (405, 9566), (418, 9683), (426, 9779),

Gene: Odyssey395_24 Start: 9446, Stop: 11332, Start Num: 34

Candidate Starts for Odyssey395_24:

(Start: 34 @9446 has 11 MA's), (38, 9455), (54, 9494), (80, 9617), (84, 9635), (98, 9686), (106, 9710), (131, 9785), (236, 10220), (263, 10394), (266, 10406), (290, 10556), (303, 10607), (307, 10640), (308, 10646), (313, 10679), (318, 10715), (325, 10742), (338, 10781), (345, 10802), (348, 10814), (405, 11078), (418, 11195), (426, 11291),

Gene: OneinaGillian_21 Start: 7426, Stop: 9225, Start Num: 37

Candidate Starts for OneinaGillian_21:

(Start: 37 @7426 has 37 MA's), (68, 7525), (106, 7690), (124, 7741), (134, 7771), (159, 7837), (218, 8104), (226, 8149), (240, 8236), (242, 8245), (250, 8281), (256, 8317), (262, 8365), (263, 8371), (266, 8383), (270, 8419), (273, 8443), (303, 8578), (318, 8686), (323, 8707), (349, 8788), (353, 8797), (389, 8908), (394, 8926), (403, 8962), (412, 9028), (417, 9097), (421, 9130), (428, 9205),

Gene: Onika_19 Start: 8448, Stop: 10124, Start Num: 13

Candidate Starts for Onika_19:

(Start: 13 @8448 has 37 MA's), (Start: 14 @8457 has 13 MA's), (49, 8571), (50, 8577), (75, 8682), (77, 8694), (100, 8793), (102, 8799), (104, 8811), (116, 8865), (122, 8883), (135, 8937), (146, 8967), (158, 9006), (163, 9024), (164, 9033), (174, 9069), (186, 9132), (198, 9195), (203, 9222), (207, 9267), (233, 9369), (234, 9372), (241, 9411), (246, 9429), (259, 9501), (268, 9567), (269, 9576), (273, 9615), (279, 9648), (285, 9681), (287, 9687), (294, 9717), (297, 9732), (319, 9870), (322, 9885), (329, 9906), (330, 9909),

Gene: Paries_13 Start: 6785, Stop: 8407, Start Num: 6

Candidate Starts for Paries_13:

(Start: 6 @6785 has 97 MA's), (52, 6944), (61, 6983), (74, 7046), (93, 7139), (100, 7166), (113, 7205), (158, 7325), (160, 7334), (175, 7394), (190, 7463), (194, 7484), (198, 7502), (200, 7517), (201, 7523), (211, 7586), (230, 7646), (233, 7658), (240, 7697), (243, 7709), (246, 7718), (252, 7763), (257, 7793), (262, 7838), (265, 7853), (266, 7856), (270, 7892), (276, 7940), (279, 7949), (284, 7976), (317, 8153), (338, 8210), (341, 8216), (348, 8231), (361, 8252), (363, 8258), (370, 8294), (375, 8321),

Gene: Paschalis_19 Start: 8434, Stop: 10140, Start Num: 13

Candidate Starts for Paschalis_19:

(Start: 13 @8434 has 37 MA's), (Start: 14 @8443 has 13 MA's), (17, 8458), (49, 8557), (50, 8563), (75, 8668), (77, 8680), (100, 8779), (102, 8785), (104, 8797), (116, 8851), (122, 8869), (135, 8923), (146, 8953), (158, 8992), (163, 9010), (164, 9019), (174, 9055), (186, 9118), (198, 9181), (203, 9208), (207, 9253), (233, 9355), (234, 9358), (241, 9397), (246, 9415), (259, 9487), (268, 9553), (269, 9562), (273, 9601), (279, 9634), (285, 9667), (287, 9673), (294, 9703), (319, 9856), (322, 9871), (329, 9892), (330, 9895), (387, 10108),

Gene: Patbob_76 Start: 33335, Stop: 35014, Start Num: 31

Candidate Starts for Patbob_76:

(Start: 28 @33329 has 1 MA's), (Start: 31 @33335 has 1 MA's), (58, 33440), (83, 33563), (85, 33575), (120, 33698), (186, 33950), (194, 33995), (225, 34151), (227, 34160), (228, 34172), (236, 34208), (239, 34229), (268, 34406), (334, 34760), (355, 34826), (357, 34832), (385, 34958), (388, 34967), (399, 35003),

Gene: PauloDiaboli_82 Start: 29189, Stop: 30925, Start Num: 32

Candidate Starts for PauloDiaboli_82:

(Start: 32 @29189 has 7 MA's), (51, 29252), (53, 29261), (71, 29339), (83, 29411), (84, 29420), (90, 29444), (93, 29453), (116, 29534), (138, 29627), (158, 29684), (184, 29807), (194, 29861), (212, 29969), (236, 30080), (241, 30122), (257, 30203), (260, 30224), (269, 30287), (275, 30347), (282, 30380), (295, 30428), (306, 30488), (325, 30599), (356, 30707), (379, 30827), (381, 30851),

Gene: Pepe25_20 Start: 7682, Stop: 9481, Start Num: 37

Candidate Starts for Pepe25_20:

(Start: 37 @7682 has 37 MA's), (124, 7997), (134, 8027), (159, 8093), (218, 8360), (240, 8492), (250, 8537), (256, 8573), (262, 8621), (263, 8627), (266, 8639), (270, 8675), (273, 8699), (303, 8834), (318, 8942), (323, 8963), (338, 9008), (349, 9044), (394, 9182), (403, 9218), (412, 9284), (417, 9353), (421,

9386), (427, 9455),

Gene: Phabia_22 Start: 8559, Stop: 10385, Start Num: 37

Candidate Starts for Phabia_22:

(Start: 37 @8559 has 37 MA's), (77, 8709), (111, 8844), (124, 8883), (153, 8961), (159, 8979), (198, 9129), (200, 9144), (207, 9201), (221, 9270), (231, 9318), (233, 9327), (257, 9462), (262, 9507), (263, 9513), (266, 9525), (273, 9585), (303, 9714), (304, 9720), (307, 9747), (324, 9846), (339, 9891), (394, 10086), (403, 10122), (406, 10140), (411, 10185),

Gene: Phauci_6 Start: 3603, Stop: 5237, Start Num: 6

Candidate Starts for Phauci_6:

(Start: 6 @3603 has 97 MA's), (9, 3630), (12, 3639), (15, 3675), (38, 3741), (57, 3798), (66, 3831), (74, 3876), (78, 3906), (79, 3915), (85, 3939), (88, 3954), (113, 4035), (131, 4092), (157, 4152), (160, 4164), (164, 4182), (175, 4224), (194, 4314), (198, 4332), (200, 4347), (201, 4353), (208, 4407), (213, 4428), (233, 4488), (234, 4491), (246, 4548), (247, 4572), (252, 4593), (257, 4623), (262, 4668), (266, 4686), (269, 4707), (276, 4770), (280, 4791), (284, 4806), (298, 4857), (315, 4962), (317, 4983), (325, 5013), (333, 5031), (363, 5097), (368, 5118), (376, 5172),

Gene: Phendrix_65 Start: 24534, Stop: 26360, Start Num: 19

Candidate Starts for Phendrix_65:

(Start: 19 @24534 has 1 MA's), (Start: 22 @24546 has 1 MA's), (40, 24591), (45, 24615), (67, 24702), (82, 24786), (83, 24789), (94, 24834), (143, 25047), (167, 25146), (172, 25170), (194, 25290), (199, 25320), (204, 25338), (206, 25365), (230, 25461), (236, 25485), (240, 25524), (244, 25539), (252, 25578), (253, 25581), (254, 25584), (261, 25632), (263, 25659), (268, 25683), (277, 25758), (278, 25761), (279, 25764), (280, 25776), (282, 25785), (286, 25800), (321, 25998), (338, 26049), (358, 26124), (362, 26145), (386, 26262),

Gene: Phinally_13 Start: 7070, Stop: 8704, Start Num: 6

Candidate Starts for Phinally_13:

(Start: 6 @7070 has 97 MA's), (9, 7097), (12, 7106), (15, 7142), (Start: 28 @7184 has 1 MA's), (38, 7208), (57, 7265), (66, 7298), (74, 7343), (78, 7373), (79, 7382), (85, 7406), (88, 7421), (113, 7502), (131, 7559), (157, 7619), (160, 7631), (164, 7649), (175, 7691), (194, 7781), (198, 7799), (200, 7814), (201, 7820), (208, 7874), (213, 7895), (233, 7955), (234, 7958), (246, 8015), (247, 8039), (257, 8090), (262, 8135), (266, 8153), (269, 8174), (276, 8237), (280, 8258), (284, 8273), (298, 8324), (315, 8429), (317, 8450), (325, 8480), (333, 8498), (363, 8564), (368, 8585), (376, 8639),

Gene: Phinky_28 Start: 9498, Stop: 11324, Start Num: 37

Candidate Starts for Phinky_28:

(Start: 37 @9498 has 37 MA's), (49, 9519), (77, 9648), (124, 9825), (147, 9897), (153, 9906), (154, 9909), (179, 9993), (209, 10158), (223, 10224), (257, 10401), (262, 10446), (263, 10452), (266, 10464), (273, 10524), (303, 10653), (304, 10659), (313, 10725), (324, 10785), (394, 11025), (412, 11127), (427, 11298), (429, 11316),

Gene: Phlop_12 Start: 5562, Stop: 7145, Start Num: 6

Candidate Starts for Phlop_12:

(Start: 6 @5562 has 97 MA's), (Start: 34 @5676 has 11 MA's), (79, 5844), (114, 5964), (119, 5982), (125, 5997), (177, 6147), (185, 6177), (196, 6237), (197, 6240), (205, 6279), (219, 6351), (233, 6411), (234, 6414), (235, 6417), (241, 6453), (243, 6462), (245, 6468), (246, 6471), (257, 6534), (262, 6579), (268, 6609), (273, 6657), (284, 6714), (290, 6735), (292, 6741), (297, 6762), (304, 6792), (311, 6843), (317, 6891),

Gene: Phorgeous_19 Start: 8286, Stop: 9992, Start Num: 13

Candidate Starts for Phorgeous_19:

(Start: 13 @8286 has 37 MA's), (Start: 14 @8295 has 13 MA's), (17, 8310), (49, 8409), (50, 8415), (75, 8520), (77, 8532), (100, 8631), (102, 8637), (116, 8703), (122, 8721), (135, 8775), (146, 8805), (158, 8844), (163, 8862), (164, 8871), (174, 8907), (186, 8970), (198, 9033), (203, 9060), (207, 9105), (233, 9207), (234, 9210), (241, 9249), (246, 9267), (259, 9339), (268, 9405), (269, 9414), (273, 9453), (279, 9486), (285, 9519), (287, 9525), (294, 9555), (319, 9708), (322, 9723), (329, 9744), (330, 9747), (384, 9951), (387, 9960),

Gene: Phrampa_70 Start: 30361, Stop: 32055, Start Num: 31

Candidate Starts for Phrampa_70:

(Start: 28 @30355 has 1 MA's), (Start: 31 @30361 has 1 MA's), (58, 30463), (83, 30586), (85, 30598), (97, 30646), (120, 30721), (138, 30802), (186, 30973), (194, 31018), (207, 31105), (225, 31174), (227, 31183), (236, 31231), (239, 31252), (243, 31282), (268, 31429), (334, 31783), (357, 31855), (385, 31996), (388, 32005), (399, 32044),

Gene: Phrancesco_21 Start: 8565, Stop: 10271, Start Num: 13

Candidate Starts for Phrancesco_21:

(Start: 13 @8565 has 37 MA's), (Start: 14 @8574 has 13 MA's), (17, 8589), (49, 8688), (50, 8694), (75, 8799), (77, 8811), (100, 8910), (102, 8916), (116, 8982), (122, 9000), (135, 9054), (146, 9084), (158, 9123), (163, 9141), (164, 9150), (174, 9186), (186, 9249), (198, 9312), (203, 9339), (207, 9384), (233, 9486), (234, 9489), (241, 9528), (246, 9546), (259, 9618), (268, 9684), (269, 9693), (273, 9732), (279, 9765), (285, 9798), (287, 9804), (294, 9834), (319, 9987), (322, 10002), (329, 10023), (330, 10026), (387, 10239),

Gene: PierreOrion_20 Start: 8589, Stop: 10295, Start Num: 13

Candidate Starts for PierreOrion_20:

(Start: 13 @8589 has 37 MA's), (Start: 14 @8598 has 13 MA's), (17, 8613), (49, 8712), (50, 8718), (75, 8823), (77, 8835), (100, 8934), (102, 8940), (104, 8952), (116, 9006), (122, 9024), (135, 9078), (146, 9108), (158, 9147), (163, 9165), (164, 9174), (174, 9210), (186, 9273), (198, 9336), (203, 9363), (207, 9408), (233, 9510), (234, 9513), (241, 9552), (246, 9570), (259, 9642), (268, 9708), (269, 9717), (273, 9756), (279, 9789), (285, 9822), (287, 9828), (294, 9858), (319, 10011), (322, 10026), (329, 10047), (330, 10050), (387, 10263),

Gene: PinkCoffee_12 Start: 5592, Stop: 7178, Start Num: 6

Candidate Starts for PinkCoffee_12:

(Start: 6 @5592 has 97 MA's), (75, 5844), (79, 5874), (113, 5991), (119, 6012), (125, 6027), (183, 6201), (192, 6243), (196, 6267), (197, 6270), (205, 6309), (219, 6381), (233, 6441), (234, 6444), (235, 6447), (241, 6483), (243, 6492), (245, 6498), (246, 6501), (257, 6564), (262, 6609), (268, 6639), (273, 6687), (284, 6744), (290, 6765), (297, 6792), (298, 6795), (304, 6822), (311, 6873), (317, 6921),

Gene: PiperSansNom_20 Start: 8738, Stop: 10444, Start Num: 13

Candidate Starts for PiperSansNom_20:

(Start: 13 @8738 has 37 MA's), (Start: 14 @8747 has 13 MA's), (17, 8762), (49, 8861), (50, 8867), (75, 8972), (77, 8984), (100, 9083), (102, 9089), (104, 9101), (116, 9155), (122, 9173), (135, 9227), (146, 9257), (158, 9296), (163, 9314), (164, 9323), (174, 9359), (186, 9422), (198, 9485), (203, 9512), (233, 9659), (234, 9662), (241, 9701), (246, 9719), (259, 9791), (268, 9857), (269, 9866), (273, 9905), (279, 9938), (285, 9971), (287, 9977), (294, 10007), (319, 10160), (322, 10175), (329, 10196), (330, 10199), (384, 10403), (387, 10412),

Gene: Piperis_20 Start: 8441, Stop: 10117, Start Num: 13

Candidate Starts for Piperis_20:

(Start: 13 @8441 has 37 MA's), (Start: 14 @8450 has 13 MA's), (17, 8465), (49, 8564), (50, 8570), (75, 8675), (77, 8687), (100, 8786), (102, 8792), (104, 8804), (116, 8858), (122, 8876), (135, 8930), (146, 8960), (158, 8999), (163, 9017), (164, 9026), (174, 9062), (186, 9125), (198, 9188), (203, 9215),

(207, 9260), (233, 9362), (234, 9365), (241, 9404), (246, 9422), (259, 9494), (268, 9560), (269, 9569), (273, 9608), (279, 9641), (285, 9674), (287, 9680), (294, 9710), (319, 9863), (322, 9878), (329, 9899), (330, 9902),

Gene: Pointis_22 Start: 9444, Stop: 11336, Start Num: 34

Candidate Starts for Pointis_22:

(Start: 34 @9444 has 11 MA's), (38, 9453), (54, 9492), (80, 9615), (84, 9633), (98, 9684), (106, 9708), (131, 9783), (196, 10026), (236, 10218), (263, 10392), (266, 10404), (290, 10554), (303, 10605), (307, 10638), (308, 10644), (313, 10677), (318, 10713), (325, 10740), (338, 10779), (345, 10800), (348, 10812), (405, 11082), (418, 11199), (426, 11295),

Gene: Portcullis_12 Start: 5515, Stop: 7101, Start Num: 6

Candidate Starts for Portcullis_12:

(Start: 6 @5515 has 97 MA's), (Start: 34 @5629 has 11 MA's), (79, 5797), (114, 5917), (119, 5935), (125, 5950), (177, 6100), (185, 6130), (196, 6190), (197, 6193), (205, 6232), (219, 6304), (233, 6364), (234, 6367), (235, 6370), (241, 6406), (243, 6415), (245, 6421), (246, 6424), (257, 6487), (262, 6532), (268, 6562), (273, 6610), (284, 6667), (290, 6688), (292, 6694), (297, 6715), (298, 6718), (304, 6745), (311, 6796), (317, 6844),

Gene: Pulchra_21 Start: 8840, Stop: 10516, Start Num: 13

Candidate Starts for Pulchra_21:

(Start: 13 @8840 has 37 MA's), (Start: 14 @8849 has 13 MA's), (17, 8864), (49, 8963), (50, 8969), (75, 9074), (77, 9086), (100, 9185), (102, 9191), (104, 9203), (116, 9257), (122, 9275), (135, 9329), (146, 9359), (158, 9398), (163, 9416), (164, 9425), (174, 9461), (186, 9524), (198, 9587), (203, 9614), (233, 9761), (234, 9764), (241, 9803), (246, 9821), (259, 9893), (268, 9959), (269, 9968), (273, 10007), (279, 10040), (285, 10073), (287, 10079), (294, 10109), (297, 10124), (319, 10262), (322, 10277), (329, 10298), (330, 10301),

Gene: PullumCavea_12 Start: 5562, Stop: 7145, Start Num: 6

Candidate Starts for PullumCavea_12:

(Start: 6 @5562 has 97 MA's), (Start: 34 @5676 has 11 MA's), (79, 5844), (114, 5964), (119, 5982), (125, 5997), (177, 6147), (185, 6177), (196, 6237), (197, 6240), (205, 6279), (219, 6351), (233, 6411), (234, 6414), (235, 6417), (241, 6453), (243, 6462), (245, 6468), (246, 6471), (257, 6534), (262, 6579), (268, 6609), (273, 6657), (284, 6714), (290, 6735), (292, 6741), (297, 6762), (304, 6792), (311, 6843), (317, 6891),

Gene: Pumpernickel_80 Start: 31376, Stop: 33094, Start Num: 32

Candidate Starts for Pumpernickel_80:

(4, 31238), (7, 31247), (8, 31259), (Start: 32 @31376 has 7 MA's), (63, 31490), (138, 31817), (172, 31934), (194, 32051), (212, 32159), (236, 32267), (257, 32390), (260, 32411), (268, 32465), (275, 32534), (309, 32702), (325, 32786), (326, 32789), (327, 32792), (347, 32858),

Gene: Pureglobe5_24 Start: 9460, Stop: 11346, Start Num: 34

Candidate Starts for Pureglobe5_24:

(Start: 34 @9460 has 11 MA's), (38, 9469), (54, 9508), (80, 9631), (84, 9649), (98, 9700), (106, 9724), (131, 9799), (236, 10234), (263, 10408), (266, 10420), (290, 10570), (303, 10621), (307, 10654), (308, 10660), (313, 10693), (318, 10729), (325, 10756), (338, 10795), (345, 10816), (348, 10828), (405, 11092), (418, 11209), (426, 11305),

Gene: Quammi_20 Start: 8130, Stop: 9956, Start Num: 37

Candidate Starts for Quammi_20:

(Start: 37 @8130 has 37 MA's), (77, 8280), (111, 8415), (124, 8454), (153, 8532), (159, 8550), (198, 8700), (200, 8715), (207, 8772), (221, 8841), (231, 8889), (233, 8898), (257, 9033), (262, 9078), (263,

9084), (266, 9096), (273, 9156), (303, 9285), (304, 9291), (307, 9318), (324, 9417), (339, 9462), (394, 9657), (403, 9693), (406, 9711), (411, 9756),

Gene: Quhwah_22 Start: 8789, Stop: 10495, Start Num: 13

Candidate Starts for Quhwah_22:

(Start: 13 @8789 has 37 MA's), (Start: 14 @8798 has 13 MA's), (49, 8912), (50, 8918), (75, 9023), (77, 9035), (100, 9134), (102, 9140), (104, 9152), (116, 9206), (122, 9224), (135, 9278), (146, 9308), (158, 9347), (163, 9365), (164, 9374), (174, 9410), (186, 9473), (198, 9536), (203, 9563), (207, 9608), (233, 9710), (234, 9713), (241, 9752), (246, 9770), (259, 9842), (268, 9908), (269, 9917), (273, 9956), (279, 9989), (285, 10022), (287, 10028), (294, 10058), (319, 10211), (322, 10226), (329, 10247), (330, 10250), (384, 10454), (387, 10463),

Gene: Racecar_77 Start: 33689, Stop: 35374, Start Num: 28

Candidate Starts for Racecar_77:

(Start: 28 @33689 has 1 MA's), (Start: 31 @33695 has 1 MA's), (58, 33800), (83, 33923), (85, 33935), (120, 34058), (186, 34310), (194, 34355), (225, 34511), (227, 34520), (228, 34532), (236, 34568), (239, 34589), (268, 34766), (334, 35120), (355, 35186), (357, 35192), (385, 35318), (388, 35327), (399, 35363),

Gene: Ramiel05_19 Start: 8475, Stop: 10151, Start Num: 13

Candidate Starts for Ramiel05_19:

(Start: 13 @8475 has 37 MA's), (Start: 14 @8484 has 13 MA's), (49, 8598), (50, 8604), (75, 8709), (77, 8721), (100, 8820), (102, 8826), (104, 8838), (116, 8892), (122, 8910), (135, 8964), (146, 8994), (158, 9033), (163, 9051), (164, 9060), (174, 9096), (186, 9159), (198, 9222), (203, 9249), (233, 9396), (234, 9399), (241, 9438), (246, 9456), (259, 9528), (268, 9594), (269, 9603), (279, 9675), (285, 9708), (287, 9714), (294, 9744), (297, 9759), (319, 9897), (322, 9912), (329, 9933), (330, 9936),

Gene: Ranunculus_17 Start: 8385, Stop: 10292, Start Num: 34

Candidate Starts for Ranunculus_17:

(Start: 34 @8385 has 11 MA's), (54, 8433), (80, 8556), (84, 8574), (98, 8625), (106, 8649), (111, 8661), (129, 8718), (131, 8724), (236, 9159), (262, 9327), (263, 9333), (266, 9345), (303, 9546), (307, 9579), (308, 9585), (313, 9618), (318, 9654), (338, 9720), (348, 9753), (352, 9765), (380, 9921), (389, 9957), (395, 9978), (403, 10011), (418, 10155), (423, 10209), (424, 10239),

Gene: Ribeye_13 Start: 6470, Stop: 8098, Start Num: 6

Candidate Starts for Ribeye_13:

(Start: 6 @6470 has 97 MA's), (Start: 34 @6593 has 11 MA's), (43, 6614), (61, 6671), (74, 6734), (78, 6764), (93, 6827), (100, 6854), (160, 7022), (181, 7109), (189, 7148), (194, 7172), (198, 7190), (200, 7205), (201, 7211), (211, 7274), (233, 7346), (240, 7385), (252, 7451), (257, 7481), (262, 7526), (265, 7541), (266, 7544), (270, 7580), (276, 7628), (279, 7637), (284, 7664), (292, 7691), (303, 7736), (314, 7811), (317, 7841), (321, 7859), (338, 7898), (341, 7904), (348, 7919), (361, 7940), (363, 7946), (370, 7982), (376, 8015),

Gene: RiverRaider_13 Start: 6026, Stop: 7657, Start Num: 6

Candidate Starts for RiverRaider_13:

(Start: 6 @6026 has 97 MA's), (61, 6227), (74, 6290), (93, 6383), (110, 6440), (157, 6566), (160, 6578), (190, 6707), (194, 6728), (198, 6746), (200, 6761), (201, 6767), (233, 6902), (240, 6941), (246, 6962), (252, 7007), (257, 7037), (262, 7082), (265, 7097), (266, 7100), (270, 7136), (279, 7193), (284, 7220), (292, 7247), (310, 7346), (311, 7349), (313, 7364), (316, 7388), (317, 7397), (321, 7415), (326, 7430), (338, 7454), (347, 7472), (348, 7475), (361, 7496), (367, 7517), (370, 7541), (375, 7568), (391, 7607),

Gene: Rizwana_16 Start: 8365, Stop: 10227, Start Num: 34

Candidate Starts for Rizwana_16:

(Start: 34 @8365 has 11 MA's), (38, 8374), (64, 8449), (74, 8497), (84, 8557), (91, 8587), (101, 8614), (124, 8680), (168, 8812), (182, 8872), (183, 8875), (210, 9031), (212, 9043), (231, 9118), (234, 9130), (236, 9139), (240, 9178), (252, 9232), (262, 9307), (286, 9454), (291, 9478), (293, 9484), (299, 9508), (303, 9526), (313, 9598), (318, 9634), (326, 9664), (339, 9703), (343, 9715), (352, 9745), (372, 9841), (380, 9880), (398, 9949), (404, 9982), (424, 10186), (425, 10189), (426, 10198),

Gene: RoadKill_11 Start: 5257, Stop: 6933, Start Num: 6

Candidate Starts for RoadKill_11:

(Start: 6 @5257 has 97 MA's), (11, 5290), (26, 5368), (44, 5422), (74, 5554), (78, 5584), (96, 5662), (102, 5680), (127, 5761), (158, 5833), (160, 5842), (175, 5902), (198, 6010), (199, 6022), (200, 6025), (201, 6031), (233, 6166), (234, 6169), (246, 6226), (257, 6301), (262, 6346), (266, 6364), (269, 6385), (273, 6424), (276, 6448), (280, 6469), (284, 6484), (298, 6535), (303, 6556), (317, 6661), (325, 6691), (335, 6715), (338, 6718), (368, 6796),

Gene: RobinRose_23 Start: 7894, Stop: 9693, Start Num: 37

Candidate Starts for RobinRose_23:

(Start: 37 @7894 has 37 MA's), (68, 7993), (106, 8158), (124, 8209), (134, 8239), (159, 8305), (218, 8572), (226, 8617), (240, 8704), (250, 8749), (256, 8785), (262, 8833), (263, 8839), (266, 8851), (270, 8887), (273, 8911), (303, 9046), (318, 9154), (323, 9175), (349, 9256), (353, 9265), (389, 9376), (394, 9394), (403, 9430), (412, 9496), (417, 9565), (421, 9598), (428, 9673),

Gene: RobsFeet_21 Start: 8347, Stop: 10041, Start Num: 13

Candidate Starts for RobsFeet_21:

(Start: 13 @8347 has 37 MA's), (Start: 14 @8356 has 13 MA's), (50, 8479), (75, 8584), (77, 8596), (100, 8695), (116, 8767), (122, 8785), (158, 8908), (161, 8920), (163, 8926), (164, 8935), (174, 8971), (186, 9034), (198, 9097), (203, 9124), (207, 9169), (220, 9220), (233, 9271), (234, 9274), (241, 9313), (243, 9322), (246, 9331), (252, 9364), (259, 9403), (268, 9469), (269, 9478), (270, 9493), (273, 9517), (285, 9583), (287, 9589), (294, 9616), (319, 9769), (330, 9808), (336, 9829), (350, 9874), (387, 10021),

Gene: Rofo_12 Start: 7025, Stop: 8647, Start Num: 6

Candidate Starts for Rofo_12:

(Start: 6 @7025 has 97 MA's), (52, 7184), (61, 7223), (74, 7286), (93, 7379), (100, 7406), (113, 7445), (160, 7574), (175, 7634), (190, 7703), (194, 7724), (198, 7742), (200, 7757), (201, 7763), (211, 7826), (230, 7886), (233, 7898), (240, 7937), (243, 7949), (246, 7958), (252, 8003), (257, 8033), (262, 8078), (265, 8093), (266, 8096), (270, 8132), (276, 8180), (279, 8189), (284, 8216), (317, 8393), (338, 8450), (341, 8456), (348, 8471), (361, 8492), (363, 8498), (370, 8534), (375, 8561),

Gene: RogerDodger_13 Start: 5819, Stop: 7405, Start Num: 6

Candidate Starts for RogerDodger_13:

(Start: 6 @5819 has 97 MA's), (49, 5963), (68, 6035), (79, 6101), (86, 6134), (113, 6218), (119, 6239), (125, 6254), (183, 6428), (185, 6434), (192, 6470), (196, 6494), (197, 6497), (205, 6536), (219, 6608), (233, 6668), (234, 6671), (235, 6674), (241, 6710), (243, 6719), (245, 6725), (246, 6728), (257, 6791), (262, 6836), (268, 6866), (273, 6914), (284, 6971), (290, 6992), (297, 7019), (298, 7022), (304, 7049), (311, 7100), (317, 7148),

Gene: RomansRevenge_13 Start: 6378, Stop: 8228, Start Num: 34

Candidate Starts for RomansRevenge_13:

(Start: 28 @6363 has 1 MA's), (Start: 34 @6378 has 11 MA's), (59, 6444), (64, 6462), (83, 6561), (84, 6570), (85, 6573), (87, 6585), (88, 6588), (99, 6621), (108, 6648), (124, 6693), (161, 6795), (169, 6822), (174, 6837), (182, 6876), (188, 6909), (193, 6927), (196, 6945), (210, 7035), (212, 7047), (231, 7131), (236, 7152), (241, 7194), (252, 7245), (262, 7320), (263, 7326), (266, 7338), (275, 7419), (281,

7449), (291, 7485), (303, 7530), (318, 7638), (374, 7845), (388, 7881), (404, 7950), (410, 7998), (413, 8037), (418, 8082), (426, 8178),

Gene: Romm_23 Start: 7894, Stop: 9693, Start Num: 37

Candidate Starts for Romm_23:

(Start: 37 @7894 has 37 MA's), (68, 7993), (106, 8158), (124, 8209), (134, 8239), (159, 8305), (218, 8572), (226, 8617), (240, 8704), (250, 8749), (256, 8785), (262, 8833), (263, 8839), (266, 8851), (270, 8887), (273, 8911), (303, 9046), (318, 9154), (323, 9175), (349, 9256), (353, 9265), (389, 9376), (394, 9394), (403, 9430), (412, 9496), (417, 9565), (421, 9598), (428, 9673),

Gene: Rowlf_18 Start: 7897, Stop: 9723, Start Num: 37

Candidate Starts for Rowlf_18:

(Start: 37 @7897 has 37 MA's), (111, 8182), (124, 8221), (153, 8299), (159, 8317), (198, 8467), (200, 8482), (207, 8539), (221, 8608), (231, 8656), (233, 8665), (257, 8800), (262, 8845), (263, 8851), (266, 8863), (273, 8923), (303, 9052), (304, 9058), (307, 9085), (324, 9184), (339, 9229), (394, 9424), (403, 9460), (406, 9478), (411, 9523),

Gene: RubyRalph_24 Start: 8991, Stop: 10805, Start Num: 37

Candidate Starts for RubyRalph_24:

(Start: 29 @8970 has 1 MA's), (Start: 37 @8991 has 37 MA's), (124, 9318), (129, 9336), (134, 9348), (184, 9492), (198, 9564), (202, 9588), (208, 9639), (232, 9753), (238, 9780), (241, 9810), (257, 9891), (262, 9936), (263, 9942), (266, 9954), (273, 10014), (290, 10098), (303, 10143), (304, 10149), (313, 10215), (324, 10275), (353, 10365), (369, 10425), (394, 10506), (423, 10731),

Gene: Rudy_20 Start: 8130, Stop: 9956, Start Num: 37

Candidate Starts for Rudy_20:

(Start: 37 @8130 has 37 MA's), (77, 8280), (111, 8415), (124, 8454), (153, 8532), (159, 8550), (198, 8700), (200, 8715), (207, 8772), (221, 8841), (231, 8889), (233, 8898), (257, 9033), (262, 9078), (263, 9084), (266, 9096), (273, 9156), (303, 9285), (304, 9291), (307, 9318), (324, 9417), (339, 9462), (394, 9657), (403, 9693), (406, 9711), (411, 9756),

Gene: SJReid_81 Start: 34914, Stop: 36533, Start Num: 31

Candidate Starts for SJReid_81:

(Start: 31 @34914 has 1 MA's), (58, 35016), (60, 35022), (85, 35151), (134, 35334), (234, 35763), (237, 35775), (239, 35793), (268, 35970), (275, 36039), (325, 36291), (334, 36324), (357, 36396), (363, 36423), (385, 36480), (399, 36522),

Gene: SadLad_25 Start: 9427, Stop: 11262, Start Num: 29

Candidate Starts for SadLad_25:

(Start: 29 @9427 has 1 MA's), (Start: 37 @9448 has 37 MA's), (124, 9775), (129, 9793), (134, 9805), (184, 9949), (198, 10021), (202, 10045), (208, 10096), (232, 10210), (238, 10237), (241, 10267), (257, 10348), (262, 10393), (263, 10399), (266, 10411), (273, 10471), (290, 10555), (303, 10600), (304, 10606), (313, 10672), (324, 10732), (353, 10822), (369, 10882), (394, 10963), (423, 11188),

Gene: SallyK_23 Start: 9291, Stop: 11117, Start Num: 37

Candidate Starts for SallyK_23:

(Start: 37 @9291 has 37 MA's), (77, 9441), (111, 9576), (124, 9615), (153, 9693), (159, 9711), (198, 9861), (200, 9876), (207, 9933), (221, 10002), (231, 10050), (233, 10059), (257, 10194), (262, 10239), (263, 10245), (273, 10317), (303, 10446), (304, 10452), (307, 10479), (324, 10578), (339, 10623), (394, 10818), (403, 10854), (406, 10872), (411, 10917),

Gene: Salvador_12 Start: 5434, Stop: 7020, Start Num: 6

Candidate Starts for Salvador_12:

(Start: 6 @5434 has 97 MA's), (75, 5686), (79, 5716), (113, 5833), (119, 5854), (125, 5869), (183, 6043), (192, 6085), (196, 6109), (197, 6112), (205, 6151), (219, 6223), (233, 6283), (234, 6286), (235, 6289), (241, 6325), (243, 6334), (245, 6340), (246, 6343), (257, 6406), (262, 6451), (268, 6481), (273, 6529), (284, 6586), (290, 6607), (297, 6634), (298, 6637), (304, 6664), (311, 6715), (317, 6763),

Gene: Sampson_14 Start: 6902, Stop: 8572, Start Num: 6

Candidate Starts for Sampson_14:

(Start: 6 @6902 has 97 MA's), (15, 6977), (20, 6998), (Start: 31 @7025 has 1 MA's), (56, 7112), (74, 7193), (78, 7223), (79, 7232), (97, 7307), (102, 7319), (114, 7355), (127, 7400), (158, 7472), (160, 7481), (187, 7592), (194, 7631), (196, 7640), (198, 7649), (199, 7661), (200, 7664), (201, 7670), (213, 7745), (230, 7793), (233, 7805), (255, 7925), (257, 7940), (262, 7985), (269, 8024), (274, 8075), (280, 8108), (283, 8120), (284, 8123), (292, 8150), (298, 8174), (311, 8252), (317, 8303), (325, 8333), (327, 8339), (349, 8396), (368, 8441),

Gene: Sanjuju_11 Start: 6983, Stop: 8605, Start Num: 6

Candidate Starts for Sanjuju_11:

(Start: 6 @6983 has 97 MA's), (Start: 34 @7103 has 11 MA's), (52, 7142), (61, 7181), (74, 7244), (93, 7337), (100, 7364), (113, 7403), (160, 7532), (175, 7592), (190, 7661), (194, 7682), (198, 7700), (200, 7715), (201, 7721), (211, 7784), (230, 7844), (233, 7856), (240, 7895), (243, 7907), (246, 7916), (249, 7949), (252, 7961), (257, 7991), (262, 8036), (265, 8051), (266, 8054), (270, 8090), (276, 8138), (279, 8147), (284, 8174), (317, 8351), (338, 8408), (341, 8414), (348, 8429), (361, 8450), (363, 8456), (370, 8492), (375, 8519),

Gene: Saronaya_12 Start: 6272, Stop: 7900, Start Num: 6

Candidate Starts for Saronaya_12:

(Start: 6 @6272 has 97 MA's), (Start: 34 @6395 has 11 MA's), (43, 6416), (61, 6473), (74, 6536), (78, 6566), (93, 6629), (100, 6656), (160, 6824), (181, 6911), (189, 6950), (194, 6974), (198, 6992), (200, 7007), (201, 7013), (211, 7076), (233, 7148), (240, 7187), (252, 7253), (257, 7283), (262, 7328), (265, 7343), (266, 7346), (270, 7382), (276, 7430), (279, 7439), (284, 7466), (292, 7493), (303, 7538), (314, 7613), (317, 7643), (321, 7661), (338, 7700), (341, 7706), (348, 7721), (361, 7742), (363, 7748), (370, 7784), (376, 7817),

Gene: Savannah_19 Start: 8499, Stop: 10175, Start Num: 13

Candidate Starts for Savannah_19:

(Start: 13 @8499 has 37 MA's), (Start: 14 @8508 has 13 MA's), (49, 8622), (50, 8628), (75, 8733), (77, 8745), (100, 8844), (102, 8850), (104, 8862), (116, 8916), (122, 8934), (135, 8988), (146, 9018), (158, 9057), (163, 9075), (164, 9084), (174, 9120), (186, 9183), (198, 9246), (203, 9273), (233, 9420), (234, 9423), (241, 9462), (246, 9480), (259, 9552), (268, 9618), (269, 9627), (279, 9699), (285, 9732), (287, 9738), (294, 9768), (297, 9783), (319, 9921), (322, 9936), (329, 9957), (330, 9960),

Gene: Savbucketdawg_12 Start: 5267, Stop: 6853, Start Num: 6

Candidate Starts for Savbucketdawg_12:

(Start: 6 @5267 has 97 MA's), (Start: 34 @5381 has 11 MA's), (79, 5549), (114, 5669), (119, 5687), (125, 5702), (177, 5852), (185, 5882), (196, 5942), (197, 5945), (205, 5984), (219, 6056), (233, 6116), (234, 6119), (235, 6122), (241, 6158), (243, 6167), (245, 6173), (246, 6176), (257, 6239), (262, 6284), (268, 6314), (273, 6362), (284, 6419), (290, 6440), (292, 6446), (297, 6467), (298, 6470), (304, 6497), (311, 6548), (317, 6596),

Gene: SchottB_11 Start: 6448, Stop: 8076, Start Num: 6

Candidate Starts for SchottB_11:

(Start: 6 @6448 has 97 MA's), (Start: 34 @6571 has 11 MA's), (43, 6592), (61, 6649), (74, 6712), (78, 6742), (93, 6805), (100, 6832), (160, 7000), (181, 7087), (189, 7126), (194, 7150), (198, 7168), (200, 7183), (201, 7189), (211, 7252), (233, 7324), (240, 7363), (252, 7429), (257, 7459), (262, 7504), (265,

7519), (266, 7522), (270, 7558), (276, 7606), (279, 7615), (284, 7642), (292, 7669), (303, 7714), (314, 7789), (317, 7819), (321, 7837), (338, 7876), (341, 7882), (348, 7897), (361, 7918), (363, 7924), (370, 7960), (376, 7993),

Gene: Scioto_14 Start: 6957, Stop: 8627, Start Num: 6

Candidate Starts for Scioto_14:

(Start: 6 @6957 has 97 MA's), (15, 7032), (20, 7053), (Start: 31 @7080 has 1 MA's), (56, 7167), (74, 7248), (78, 7278), (79, 7287), (97, 7362), (102, 7374), (114, 7410), (127, 7455), (158, 7527), (160, 7536), (187, 7647), (194, 7686), (196, 7695), (198, 7704), (199, 7716), (200, 7719), (201, 7725), (213, 7800), (230, 7848), (233, 7860), (255, 7980), (257, 7995), (262, 8040), (269, 8079), (274, 8130), (280, 8163), (283, 8175), (284, 8178), (292, 8205), (298, 8229), (311, 8307), (317, 8358), (325, 8388), (327, 8394), (349, 8451), (368, 8496),

Gene: Scumberland_21 Start: 8659, Stop: 10365, Start Num: 13

Candidate Starts for Scumberland_21:

(Start: 13 @8659 has 37 MA's), (Start: 14 @8668 has 13 MA's), (17, 8683), (49, 8782), (50, 8788), (75, 8893), (77, 8905), (100, 9004), (102, 9010), (116, 9076), (122, 9094), (135, 9148), (146, 9178), (158, 9217), (163, 9235), (164, 9244), (174, 9280), (186, 9343), (198, 9406), (203, 9433), (207, 9478), (233, 9580), (234, 9583), (241, 9622), (246, 9640), (259, 9712), (268, 9778), (269, 9787), (273, 9826), (279, 9859), (285, 9892), (287, 9898), (294, 9928), (319, 10081), (322, 10096), (329, 10117), (330, 10120), (387, 10333),

Gene: Sedona_13 Start: 7991, Stop: 9613, Start Num: 6

Candidate Starts for Sedona_13:

(Start: 6 @7991 has 97 MA's), (52, 8150), (61, 8189), (74, 8252), (93, 8345), (100, 8372), (113, 8411), (160, 8540), (175, 8600), (190, 8669), (194, 8690), (198, 8708), (200, 8723), (201, 8729), (211, 8792), (230, 8852), (233, 8864), (240, 8903), (243, 8915), (246, 8924), (249, 8957), (252, 8969), (257, 8999), (262, 9044), (265, 9059), (266, 9062), (270, 9098), (276, 9146), (279, 9155), (284, 9182), (317, 9359), (338, 9416), (341, 9422), (348, 9437), (361, 9458), (363, 9464), (370, 9500), (375, 9527),

Gene: Selwyn23_21 Start: 8668, Stop: 10344, Start Num: 13

Candidate Starts for Selwyn23_21:

(Start: 13 @8668 has 37 MA's), (Start: 14 @8677 has 13 MA's), (17, 8692), (49, 8791), (50, 8797), (75, 8902), (77, 8914), (100, 9013), (102, 9019), (104, 9031), (116, 9085), (122, 9103), (135, 9157), (146, 9187), (158, 9226), (163, 9244), (164, 9253), (174, 9289), (186, 9352), (198, 9415), (203, 9442), (233, 9589), (234, 9592), (241, 9631), (246, 9649), (259, 9721), (268, 9787), (269, 9796), (279, 9868), (285, 9901), (287, 9907), (294, 9937), (297, 9952), (319, 10090), (322, 10105), (329, 10126), (330, 10129),

Gene: Shinji_12 Start: 5456, Stop: 7042, Start Num: 6

Candidate Starts for Shinji_12:

(Start: 6 @5456 has 97 MA's), (Start: 34 @5570 has 11 MA's), (79, 5738), (114, 5858), (119, 5876), (125, 5891), (177, 6041), (185, 6071), (196, 6131), (197, 6134), (205, 6173), (219, 6245), (233, 6305), (234, 6308), (235, 6311), (241, 6347), (243, 6356), (245, 6362), (246, 6365), (257, 6428), (262, 6473), (268, 6503), (273, 6551), (284, 6608), (290, 6629), (292, 6635), (297, 6656), (298, 6659), (304, 6686), (311, 6737), (317, 6785),

Gene: Shivanishola_12 Start: 7199, Stop: 8818, Start Num: 6

Candidate Starts for Shivanishola_12:

(Start: 6 @7199 has 97 MA's), (52, 7358), (61, 7397), (74, 7460), (93, 7553), (100, 7580), (113, 7619), (160, 7748), (175, 7808), (190, 7877), (194, 7898), (198, 7916), (200, 7931), (201, 7937), (211, 8000), (233, 8072), (240, 8111), (243, 8123), (246, 8132), (249, 8165), (252, 8177), (257, 8207), (262, 8252), (265, 8267), (266, 8270), (270, 8306), (276, 8354), (279, 8363), (284, 8390), (317, 8567), (338, 8624),

(341, 8630), (348, 8645), (361, 8666), (363, 8672), (370, 8708), (375, 8735),

Gene: Shotgun_19 Start: 8297, Stop: 9973, Start Num: 13

Candidate Starts for Shotgun_19:

(Start: 13 @8297 has 37 MA's), (Start: 14 @8306 has 13 MA's), (49, 8420), (50, 8426), (75, 8531), (77, 8543), (100, 8642), (102, 8648), (104, 8660), (116, 8714), (122, 8732), (135, 8786), (146, 8816), (158, 8855), (163, 8873), (164, 8882), (174, 8918), (186, 8981), (198, 9044), (203, 9071), (233, 9218), (234, 9221), (241, 9260), (246, 9278), (259, 9350), (268, 9416), (269, 9425), (279, 9497), (285, 9530), (287, 9536), (294, 9566), (297, 9581), (319, 9719), (322, 9734), (329, 9755), (330, 9758),

Gene: SilentRX_18 Start: 8516, Stop: 10414, Start Num: 34

Candidate Starts for SilentRX_18:

(Start: 34 @8516 has 11 MA's), (64, 8603), (66, 8612), (73, 8645), (91, 8741), (107, 8786), (124, 8834), (131, 8858), (182, 9029), (183, 9032), (197, 9101), (207, 9179), (210, 9188), (212, 9200), (231, 9272), (234, 9284), (236, 9293), (241, 9335), (252, 9386), (258, 9419), (262, 9461), (263, 9467), (266, 9479), (303, 9701), (312, 9767), (318, 9809), (380, 10058), (395, 10115), (406, 10166), (420, 10301), (426, 10376), (428, 10388),

Gene: Sillytadpoles_22 Start: 8128, Stop: 9954, Start Num: 37

Candidate Starts for Sillytadpoles_22:

(Start: 37 @8128 has 37 MA's), (77, 8278), (111, 8413), (124, 8452), (153, 8530), (159, 8548), (198, 8698), (200, 8713), (207, 8770), (221, 8839), (231, 8887), (233, 8896), (257, 9031), (262, 9076), (263, 9082), (266, 9094), (273, 9154), (303, 9283), (304, 9289), (307, 9316), (324, 9415), (339, 9460), (394, 9655), (403, 9691), (406, 9709), (411, 9754),

Gene: Sitar_13 Start: 7365, Stop: 8987, Start Num: 6

Candidate Starts for Sitar_13:

(Start: 6 @7365 has 97 MA's), (52, 7524), (61, 7563), (74, 7626), (100, 7746), (113, 7785), (158, 7905), (160, 7914), (175, 7974), (190, 8043), (194, 8064), (198, 8082), (200, 8097), (201, 8103), (211, 8166), (230, 8226), (233, 8238), (240, 8277), (243, 8289), (246, 8298), (249, 8331), (252, 8343), (257, 8373), (262, 8418), (265, 8433), (266, 8436), (270, 8472), (276, 8520), (279, 8529), (284, 8556), (317, 8733), (338, 8790), (341, 8796), (348, 8811), (361, 8832), (363, 8838), (370, 8874), (375, 8901),

Gene: Sixama_72 Start: 30011, Stop: 31756, Start Num: 25

Candidate Starts for Sixama_72:

(Start: 25 @30011 has 5 MA's), (27, 30017), (30, 30020), (53, 30098), (85, 30251), (97, 30299), (143, 30497), (194, 30740), (195, 30743), (198, 30758), (199, 30770), (204, 30788), (206, 30815), (210, 30836), (212, 30848), (250, 31019), (257, 31058), (263, 31109), (268, 31133), (277, 31208), (278, 31211), (282, 31235), (340, 31505), (358, 31574), (377, 31685), (392, 31733),

Gene: Smarties_28 Start: 10100, Stop: 11824, Start Num: 13

Candidate Starts for Smarties_28:

(Start: 13 @10100 has 37 MA's), (Start: 14 @10109 has 13 MA's), (50, 10229), (75, 10334), (77, 10346), (100, 10445), (116, 10517), (122, 10535), (173, 10715), (174, 10721), (176, 10745), (186, 10784), (198, 10847), (203, 10874), (207, 10919), (233, 11021), (234, 11024), (241, 11063), (243, 11072), (252, 11114), (259, 11153), (268, 11219), (269, 11228), (270, 11243), (273, 11267), (285, 11333), (287, 11339), (294, 11366), (319, 11519), (323, 11537), (336, 11579), (344, 11603), (350, 11624), (363, 11660), (397, 11801), (400, 11813),

Gene: SmokingBunny_12 Start: 5434, Stop: 7020, Start Num: 6

Candidate Starts for SmokingBunny_12:

(Start: 6 @5434 has 97 MA's), (75, 5686), (79, 5716), (113, 5833), (119, 5854), (125, 5869), (183, 6043), (192, 6085), (196, 6109), (197, 6112), (205, 6151), (219, 6223), (233, 6283), (234, 6286), (235,

6289), (241, 6325), (243, 6334), (245, 6340), (246, 6343), (257, 6406), (262, 6451), (268, 6481), (273, 6529), (284, 6586), (290, 6607), (297, 6634), (298, 6637), (304, 6664), (311, 6715), (317, 6763),

Gene: Squash_24 Start: 9156, Stop: 10982, Start Num: 37

Candidate Starts for Squash_24:

(Start: 37 @9156 has 37 MA's), (111, 9441), (124, 9480), (153, 9558), (159, 9576), (198, 9726), (200, 9741), (207, 9798), (221, 9867), (231, 9915), (233, 9924), (257, 10059), (262, 10104), (263, 10110), (266, 10122), (273, 10182), (303, 10311), (304, 10317), (307, 10344), (324, 10443), (339, 10488), (394, 10683), (403, 10719), (406, 10737), (411, 10782), (424, 10938),

Gene: Statler_24 Start: 9110, Stop: 10936, Start Num: 37

Candidate Starts for Statler_24:

(Start: 37 @9110 has 37 MA's), (111, 9395), (124, 9434), (153, 9512), (159, 9530), (198, 9680), (200, 9695), (207, 9752), (221, 9821), (231, 9869), (233, 9878), (257, 10013), (262, 10058), (263, 10064), (266, 10076), (273, 10136), (303, 10265), (304, 10271), (307, 10298), (324, 10397), (339, 10442), (394, 10637), (403, 10673), (406, 10691), (411, 10736),

Gene: StorminNorm_12 Start: 6275, Stop: 7903, Start Num: 6

Candidate Starts for StorminNorm_12:

(Start: 6 @6275 has 97 MA's), (Start: 34 @6398 has 11 MA's), (43, 6419), (61, 6476), (74, 6539), (78, 6569), (93, 6632), (100, 6659), (160, 6827), (181, 6914), (189, 6953), (194, 6977), (198, 6995), (200, 7010), (201, 7016), (211, 7079), (233, 7151), (240, 7190), (252, 7256), (257, 7286), (262, 7331), (265, 7346), (266, 7349), (270, 7385), (276, 7433), (279, 7442), (284, 7469), (292, 7496), (303, 7541), (311, 7598), (314, 7616), (317, 7646), (321, 7664), (338, 7703), (341, 7709), (348, 7724), (361, 7745), (363, 7751), (370, 7787), (376, 7820),

Gene: StrawberryJamm_24 Start: 8430, Stop: 10256, Start Num: 37

Candidate Starts for StrawberryJamm_24:

(Start: 37 @8430 has 37 MA's), (77, 8580), (111, 8715), (124, 8754), (153, 8832), (159, 8850), (198, 9000), (200, 9015), (207, 9072), (221, 9141), (231, 9189), (233, 9198), (257, 9333), (262, 9378), (263, 9384), (266, 9396), (273, 9456), (303, 9585), (304, 9591), (307, 9618), (324, 9717), (339, 9762), (394, 9957), (403, 9993), (406, 10011), (411, 10056),

Gene: Stultus_12 Start: 7189, Stop: 8811, Start Num: 6

Candidate Starts for Stultus_12:

(Start: 6 @7189 has 97 MA's), (52, 7348), (61, 7387), (74, 7450), (93, 7543), (100, 7570), (113, 7609), (160, 7738), (175, 7798), (179, 7813), (190, 7867), (194, 7888), (198, 7906), (200, 7921), (201, 7927), (211, 7990), (230, 8050), (233, 8062), (240, 8101), (243, 8113), (246, 8122), (249, 8155), (252, 8167), (257, 8197), (262, 8242), (265, 8257), (266, 8260), (270, 8296), (276, 8344), (279, 8353), (284, 8380), (317, 8557), (338, 8614), (341, 8620), (348, 8635), (361, 8656), (363, 8662), (370, 8698), (375, 8725),

Gene: Sunfish_25 Start: 9771, Stop: 11576, Start Num: 24

Candidate Starts for Sunfish_25:

(24, 9771), (41, 9810), (77, 9951), (84, 9990), (90, 10017), (111, 10065), (137, 10149), (186, 10290), (197, 10347), (218, 10467), (231, 10518), (241, 10581), (243, 10590), (246, 10599), (262, 10707), (263, 10713), (269, 10746), (296, 10887), (313, 10986), (317, 11022), (318, 11025), (369, 11199), (407, 11334), (412, 11379), (415, 11433), (418, 11457),

Gene: Sunny_20 Start: 8465, Stop: 10132, Start Num: 14

Candidate Starts for Sunny_20:

(2, 8363), (10, 8429), (Start: 13 @8456 has 37 MA's), (Start: 14 @8465 has 13 MA's), (42, 8561), (50, 8585), (75, 8690), (77, 8702), (100, 8801), (116, 8873), (122, 8891), (139, 8966), (145, 8972), (158, 9011), (161, 9023), (164, 9038), (170, 9062), (174, 9074), (177, 9101), (184, 9128), (186, 9137), (203,

9227), (207, 9272), (233, 9374), (234, 9377), (243, 9425), (246, 9434), (259, 9506), (268, 9572), (269, 9581), (287, 9692), (301, 9749), (323, 9893), (327, 9905), (336, 9935), (378, 10103),

Gene: Talia1610_76 Start: 33060, Stop: 34739, Start Num: 31

Candidate Starts for Talia1610_76:

(Start: 28 @33054 has 1 MA's), (Start: 31 @33060 has 1 MA's), (58, 33165), (83, 33288), (85, 33300), (120, 33423), (186, 33675), (194, 33720), (200, 33753), (225, 33876), (227, 33885), (228, 33897), (236, 33933), (268, 34131), (275, 34200), (334, 34485), (355, 34551), (357, 34557), (385, 34683), (388, 34692), (399, 34728),

Gene: Tangent_10 Start: 6017, Stop: 7639, Start Num: 6

Candidate Starts for Tangent_10:

(Start: 6 @6017 has 97 MA's), (52, 6176), (61, 6215), (74, 6278), (93, 6371), (100, 6398), (113, 6437), (158, 6557), (160, 6566), (175, 6626), (190, 6695), (194, 6716), (198, 6734), (200, 6749), (201, 6755), (211, 6818), (230, 6878), (233, 6890), (240, 6929), (243, 6941), (246, 6950), (252, 6995), (257, 7025), (262, 7070), (265, 7085), (266, 7088), (270, 7124), (276, 7172), (279, 7181), (284, 7208), (317, 7385), (338, 7442), (341, 7448), (348, 7463), (361, 7484), (363, 7490), (370, 7526), (375, 7553),

Gene: Tangerine_12 Start: 6284, Stop: 7912, Start Num: 6

Candidate Starts for Tangerine_12:

(Start: 6 @6284 has 97 MA's), (Start: 34 @6407 has 11 MA's), (43, 6428), (61, 6485), (74, 6548), (78, 6578), (93, 6641), (100, 6668), (160, 6836), (181, 6923), (189, 6962), (194, 6986), (198, 7004), (200, 7019), (201, 7025), (211, 7088), (233, 7160), (240, 7199), (252, 7265), (257, 7295), (262, 7340), (265, 7355), (266, 7358), (270, 7394), (276, 7442), (279, 7451), (284, 7478), (292, 7505), (303, 7550), (311, 7607), (314, 7625), (317, 7655), (321, 7673), (338, 7712), (341, 7718), (348, 7733), (361, 7754), (363, 7760), (370, 7796), (376, 7829),

Gene: Tank_17 Start: 8380, Stop: 10260, Start Num: 34

Candidate Starts for Tank_17:

(Start: 34 @8380 has 11 MA's), (38, 8389), (64, 8464), (74, 8512), (84, 8572), (91, 8602), (124, 8695), (164, 8815), (178, 8872), (182, 8887), (192, 8932), (210, 9046), (212, 9058), (231, 9133), (234, 9145), (236, 9154), (237, 9157), (240, 9193), (252, 9247), (262, 9322), (266, 9340), (291, 9493), (293, 9499), (295, 9505), (298, 9520), (303, 9541), (318, 9649), (329, 9688), (339, 9718), (380, 9895), (404, 9997), (416, 10096), (420, 10138), (426, 10213), (428, 10225),

Gene: Tardus_14 Start: 5997, Stop: 7670, Start Num: 6

Candidate Starts for Tardus_14:

(Start: 6 @5997 has 97 MA's), (15, 6072), (Start: 31 @6120 has 1 MA's), (56, 6207), (74, 6288), (78, 6318), (114, 6450), (127, 6495), (158, 6567), (160, 6576), (187, 6687), (194, 6726), (198, 6744), (199, 6756), (200, 6759), (201, 6765), (213, 6840), (233, 6900), (255, 7020), (257, 7035), (262, 7080), (269, 7119), (274, 7170), (280, 7203), (283, 7215), (284, 7218), (292, 7245), (298, 7269), (311, 7347), (317, 7398), (325, 7428), (327, 7434), (349, 7491), (368, 7536),

Gene: Teamocil_20 Start: 7583, Stop: 9301, Start Num: 13

Candidate Starts for Teamocil_20:

(Start: 13 @7583 has 37 MA's), (Start: 14 @7592 has 13 MA's), (50, 7712), (75, 7817), (77, 7829), (100, 7928), (104, 7946), (116, 8000), (122, 8018), (133, 8069), (139, 8093), (154, 8123), (161, 8153), (163, 8159), (164, 8168), (174, 8204), (186, 8267), (198, 8330), (203, 8357), (207, 8402), (233, 8504), (234, 8507), (243, 8555), (246, 8564), (252, 8597), (259, 8636), (268, 8702), (269, 8711), (270, 8726), (271, 8735), (273, 8750), (274, 8762), (279, 8783), (285, 8816), (287, 8822), (294, 8852), (304, 8897), (319, 9005), (325, 9029), (336, 9065), (337, 9068), (344, 9089), (350, 9110), (383, 9245), (387, 9257), (396, 9284),

Gene: Teehee_23 Start: 9365, Stop: 11191, Start Num: 37

Candidate Starts for Teehee_23:

(Start: 37 @9365 has 37 MA's), (77, 9515), (111, 9650), (124, 9689), (153, 9767), (159, 9785), (198, 9935), (200, 9950), (207, 10007), (221, 10076), (231, 10124), (233, 10133), (257, 10268), (262, 10313), (263, 10319), (266, 10331), (273, 10391), (303, 10520), (304, 10526), (307, 10553), (324, 10652), (339, 10697), (394, 10892), (403, 10928), (406, 10946), (411, 10991),

Gene: Tempo_21 Start: 7770, Stop: 9569, Start Num: 37

Candidate Starts for Tempo_21:

(Start: 37 @7770 has 37 MA's), (68, 7869), (106, 8034), (124, 8085), (134, 8115), (159, 8181), (218, 8448), (226, 8493), (240, 8580), (250, 8625), (256, 8661), (262, 8709), (263, 8715), (266, 8727), (270, 8763), (273, 8787), (303, 8922), (318, 9030), (323, 9051), (349, 9132), (353, 9141), (389, 9252), (394, 9270), (403, 9306), (412, 9372), (417, 9441), (421, 9474), (428, 9549),

Gene: Terij_13 Start: 6017, Stop: 7762, Start Num: 14

Candidate Starts for Terij_13:

(Start: 13 @6008 has 37 MA's), (Start: 14 @6017 has 13 MA's), (41, 6098), (46, 6119), (58, 6155), (62, 6170), (75, 6233), (77, 6245), (78, 6254), (100, 6344), (135, 6488), (144, 6539), (158, 6584), (160, 6593), (170, 6632), (177, 6668), (182, 6689), (184, 6695), (186, 6704), (198, 6767), (203, 6794), (233, 6941), (241, 6983), (243, 6992), (246, 7001), (248, 7016), (252, 7034), (259, 7073), (268, 7139), (269, 7148), (271, 7172), (272, 7184), (273, 7187), (287, 7259), (297, 7310), (302, 7325), (310, 7388), (323, 7469), (329, 7487), (350, 7556), (351, 7559), (365, 7604),

Gene: Thing3_13 Start: 7104, Stop: 8729, Start Num: 6

Candidate Starts for Thing3_13:

(Start: 6 @7104 has 97 MA's), (52, 7263), (61, 7302), (74, 7365), (100, 7485), (113, 7524), (160, 7653), (175, 7713), (190, 7782), (194, 7803), (198, 7821), (200, 7836), (201, 7842), (211, 7905), (230, 7965), (233, 7977), (240, 8016), (243, 8028), (246, 8037), (249, 8070), (252, 8082), (257, 8112), (262, 8157), (265, 8172), (266, 8175), (270, 8211), (276, 8259), (279, 8268), (284, 8295), (317, 8472), (338, 8529), (341, 8535), (348, 8550), (361, 8571), (363, 8577), (370, 8613), (375, 8643),

Gene: Tiamoceli_14 Start: 6640, Stop: 8316, Start Num: 6

Candidate Starts for Tiamoceli_14:

(Start: 6 @6640 has 97 MA's), (11, 6673), (26, 6751), (44, 6805), (74, 6937), (78, 6967), (96, 7045), (102, 7063), (127, 7144), (158, 7216), (160, 7225), (175, 7285), (198, 7393), (199, 7405), (200, 7408), (201, 7414), (233, 7549), (234, 7552), (246, 7609), (257, 7684), (262, 7729), (266, 7747), (269, 7768), (273, 7807), (276, 7831), (280, 7852), (284, 7867), (298, 7918), (303, 7939), (317, 8044), (325, 8074), (335, 8098), (338, 8101), (368, 8179),

Gene: TillyBobJoe_12 Start: 5270, Stop: 6856, Start Num: 6

Candidate Starts for TillyBobJoe_12:

(Start: 6 @5270 has 97 MA's), (Start: 34 @5384 has 11 MA's), (79, 5552), (114, 5672), (119, 5690), (125, 5705), (177, 5855), (185, 5885), (196, 5945), (197, 5948), (205, 5987), (219, 6059), (233, 6119), (234, 6122), (235, 6125), (241, 6161), (243, 6170), (245, 6176), (246, 6179), (257, 6242), (262, 6287), (268, 6317), (273, 6365), (284, 6422), (290, 6443), (292, 6449), (297, 6470), (298, 6473), (304, 6500), (311, 6551), (317, 6599),

Gene: Tissue_22 Start: 8939, Stop: 10765, Start Num: 37

Candidate Starts for Tissue_22:

(Start: 37 @8939 has 37 MA's), (77, 9089), (111, 9224), (124, 9263), (153, 9341), (159, 9359), (198, 9509), (200, 9524), (207, 9581), (221, 9650), (231, 9698), (233, 9707), (257, 9842), (262, 9887), (263, 9893), (266, 9905), (273, 9965), (303, 10094), (304, 10100), (307, 10127), (324, 10226), (339, 10271), (394, 10466), (403, 10502), (406, 10520), (411, 10565),

Gene: Togo_12 Start: 5434, Stop: 7020, Start Num: 6

Candidate Starts for Togo_12:

(Start: 6 @5434 has 97 MA's), (75, 5686), (79, 5716), (113, 5833), (119, 5854), (125, 5869), (183, 6043), (192, 6085), (196, 6109), (197, 6112), (205, 6151), (219, 6223), (233, 6283), (234, 6286), (235, 6289), (241, 6325), (243, 6334), (245, 6340), (246, 6343), (257, 6406), (262, 6451), (268, 6481), (273, 6529), (284, 6586), (290, 6607), (297, 6634), (298, 6637), (304, 6664), (311, 6715), (317, 6763),

Gene: Twister6_12 Start: 5366, Stop: 6952, Start Num: 6

Candidate Starts for Twister6_12:

(Start: 6 @5366 has 97 MA's), (75, 5618), (79, 5648), (113, 5765), (119, 5786), (125, 5801), (183, 5975), (192, 6017), (196, 6041), (197, 6044), (205, 6083), (219, 6155), (233, 6215), (234, 6218), (235, 6221), (241, 6257), (243, 6266), (245, 6272), (246, 6275), (257, 6338), (262, 6383), (268, 6413), (273, 6461), (284, 6518), (290, 6539), (297, 6566), (298, 6569), (304, 6596), (311, 6647), (317, 6695),

Gene: Twonlo_11 Start: 5257, Stop: 6933, Start Num: 6

Candidate Starts for Twonlo_11:

(Start: 6 @5257 has 97 MA's), (11, 5290), (26, 5368), (44, 5422), (74, 5554), (78, 5584), (96, 5662), (102, 5680), (127, 5761), (158, 5833), (160, 5842), (175, 5902), (198, 6010), (199, 6022), (200, 6025), (201, 6031), (233, 6166), (234, 6169), (246, 6226), (257, 6301), (262, 6346), (266, 6364), (269, 6385), (273, 6424), (276, 6448), (280, 6469), (284, 6484), (298, 6535), (303, 6556), (317, 6661), (325, 6691), (335, 6715), (338, 6718), (368, 6796),

Gene: Tycho_12 Start: 6284, Stop: 7912, Start Num: 6

Candidate Starts for Tycho_12:

(Start: 6 @6284 has 97 MA's), (Start: 34 @6407 has 11 MA's), (43, 6428), (61, 6485), (74, 6548), (78, 6578), (93, 6641), (100, 6668), (158, 6827), (160, 6836), (181, 6923), (189, 6962), (194, 6986), (198, 7004), (200, 7019), (201, 7025), (211, 7088), (233, 7160), (240, 7199), (252, 7265), (257, 7295), (262, 7340), (265, 7355), (266, 7358), (270, 7394), (276, 7442), (279, 7451), (284, 7478), (292, 7505), (303, 7550), (314, 7625), (317, 7655), (321, 7673), (338, 7712), (341, 7718), (348, 7733), (361, 7754), (363, 7760), (370, 7796), (376, 7829),

Gene: Tyrumbra_18 Start: 7432, Stop: 9117, Start Num: 14

Candidate Starts for Tyrumbra_18:

(Start: 13 @7423 has 37 MA's), (Start: 14 @7432 has 13 MA's), (50, 7555), (75, 7660), (77, 7672), (100, 7771), (116, 7843), (122, 7861), (154, 7966), (158, 7984), (161, 7996), (163, 8002), (164, 8011), (174, 8047), (186, 8110), (198, 8173), (203, 8200), (207, 8245), (210, 8254), (220, 8296), (233, 8347), (234, 8350), (241, 8389), (243, 8398), (246, 8407), (252, 8440), (259, 8479), (268, 8545), (269, 8554), (270, 8569), (273, 8593), (285, 8659), (287, 8665), (294, 8692), (319, 8845), (330, 8884), (336, 8905), (350, 8950), (363, 8986), (365, 8992), (387, 9097),

Gene: Valary_13 Start: 5819, Stop: 7405, Start Num: 6

Candidate Starts for Valary_13:

(Start: 6 @5819 has 97 MA's), (Start: 34 @5933 has 11 MA's), (68, 6035), (79, 6101), (86, 6134), (114, 6221), (119, 6239), (125, 6254), (185, 6434), (196, 6494), (197, 6497), (205, 6536), (219, 6608), (233, 6668), (234, 6671), (235, 6674), (241, 6710), (243, 6719), (245, 6725), (246, 6728), (257, 6791), (262, 6836), (268, 6866), (273, 6914), (284, 6971), (290, 6992), (297, 7019), (298, 7022), (304, 7049), (311, 7100), (317, 7148),

Gene: VanDeWege_13 Start: 5747, Stop: 7333, Start Num: 6

Candidate Starts for VanDeWege_13:

(Start: 6 @5747 has 97 MA's), (Start: 34 @5861 has 11 MA's), (68, 5963), (79, 6029), (86, 6062), (114, 6149), (119, 6167), (125, 6182), (185, 6362), (196, 6422), (197, 6425), (205, 6464), (219, 6536),

(233, 6596), (234, 6599), (235, 6602), (240, 6635), (241, 6638), (243, 6647), (245, 6653), (246, 6656), (257, 6719), (262, 6764), (268, 6794), (273, 6842), (284, 6899), (290, 6920), (297, 6947), (298, 6950), (304, 6977), (311, 7028), (317, 7076),

Gene: Verity_14 Start: 7230, Stop: 8897, Start Num: 6

Candidate Starts for Verity_14:

(Start: 6 @7230 has 97 MA's), (15, 7305), (20, 7326), (Start: 31 @7353 has 1 MA's), (56, 7440), (74, 7521), (78, 7551), (102, 7647), (106, 7662), (114, 7683), (121, 7704), (127, 7728), (158, 7800), (160, 7809), (187, 7920), (189, 7935), (194, 7959), (198, 7977), (200, 7992), (201, 7998), (213, 8073), (233, 8133), (257, 8268), (262, 8313), (269, 8352), (274, 8403), (280, 8436), (283, 8448), (284, 8451), (287, 8463), (292, 8478), (298, 8502), (303, 8523), (311, 8580), (317, 8631), (325, 8661), (327, 8667), (349, 8724), (368, 8769), (375, 8817),

Gene: ViaConlectus_14 Start: 6957, Stop: 8627, Start Num: 6

Candidate Starts for ViaConlectus_14:

(Start: 6 @6957 has 97 MA's), (15, 7032), (20, 7053), (Start: 31 @7080 has 1 MA's), (56, 7167), (74, 7248), (78, 7278), (79, 7287), (97, 7362), (102, 7374), (114, 7410), (127, 7455), (158, 7527), (160, 7536), (187, 7647), (194, 7686), (196, 7695), (198, 7704), (199, 7716), (200, 7719), (201, 7725), (213, 7800), (230, 7848), (233, 7860), (255, 7980), (257, 7995), (262, 8040), (269, 8079), (274, 8130), (280, 8163), (283, 8175), (284, 8178), (292, 8205), (298, 8229), (311, 8307), (317, 8358), (325, 8388), (327, 8394), (349, 8451), (368, 8496),

Gene: Viceroy_21 Start: 8130, Stop: 9956, Start Num: 37

Candidate Starts for Viceroy_21:

(Start: 37 @8130 has 37 MA's), (77, 8280), (111, 8415), (124, 8454), (153, 8532), (159, 8550), (198, 8700), (200, 8715), (207, 8772), (221, 8841), (231, 8889), (233, 8898), (257, 9033), (262, 9078), (263, 9084), (266, 9096), (273, 9156), (303, 9285), (304, 9291), (307, 9318), (324, 9417), (339, 9462), (394, 9657), (403, 9693), (406, 9711), (411, 9756),

Gene: Vivi2_11 Start: 6178, Stop: 7800, Start Num: 6

Candidate Starts for Vivi2_11:

(Start: 6 @6178 has 97 MA's), (52, 6337), (61, 6376), (74, 6439), (93, 6532), (100, 6559), (113, 6598), (160, 6727), (175, 6787), (190, 6856), (194, 6877), (198, 6895), (200, 6910), (201, 6916), (211, 6979), (230, 7039), (233, 7051), (240, 7090), (243, 7102), (246, 7111), (249, 7144), (252, 7156), (257, 7186), (262, 7231), (265, 7246), (266, 7249), (270, 7285), (276, 7333), (279, 7342), (284, 7369), (317, 7546), (338, 7603), (341, 7609), (348, 7624), (361, 7645), (363, 7651), (370, 7687), (375, 7714),

Gene: Wayne3_23 Start: 9095, Stop: 10921, Start Num: 37

Candidate Starts for Wayne3_23:

(Start: 37 @9095 has 37 MA's), (77, 9245), (111, 9380), (124, 9419), (153, 9497), (159, 9515), (198, 9665), (200, 9680), (207, 9737), (221, 9806), (231, 9854), (233, 9863), (257, 9998), (262, 10043), (263, 10049), (266, 10061), (273, 10121), (303, 10250), (304, 10256), (307, 10283), (324, 10382), (339, 10427), (394, 10622), (403, 10658), (406, 10676), (411, 10721),

Gene: Wheelie_21 Start: 8446, Stop: 10272, Start Num: 37

Candidate Starts for Wheelie_21:

(Start: 37 @8446 has 37 MA's), (77, 8596), (111, 8731), (124, 8770), (153, 8848), (159, 8866), (198, 9016), (200, 9031), (207, 9088), (221, 9157), (231, 9205), (233, 9214), (257, 9349), (262, 9394), (263, 9400), (266, 9412), (273, 9472), (303, 9601), (304, 9607), (307, 9634), (324, 9733), (339, 9778), (394, 9973), (403, 10009), (406, 10027), (411, 10072),

Gene: Wilca_21 Start: 7665, Stop: 9464, Start Num: 37

Candidate Starts for Wilca_21:

(Start: 37 @7665 has 37 MA's), (124, 7980), (134, 8010), (159, 8076), (218, 8343), (226, 8388), (240, 8475), (250, 8520), (256, 8556), (262, 8604), (263, 8610), (266, 8622), (270, 8658), (273, 8682), (303, 8817), (318, 8925), (323, 8946), (349, 9027), (394, 9165), (403, 9201), (412, 9267), (417, 9336), (421, 9369), (427, 9438),

Gene: Wilde_17 Start: 8308, Stop: 10188, Start Num: 34

Candidate Starts for Wilde_17:

(Start: 34 @8308 has 11 MA's), (38, 8317), (64, 8392), (74, 8440), (84, 8500), (91, 8530), (124, 8623), (164, 8743), (178, 8800), (182, 8815), (192, 8860), (210, 8974), (212, 8986), (231, 9061), (234, 9073), (236, 9082), (237, 9085), (240, 9121), (252, 9175), (262, 9250), (266, 9268), (291, 9421), (293, 9427), (295, 9433), (298, 9448), (303, 9469), (318, 9577), (329, 9616), (339, 9646), (380, 9823), (404, 9925), (416, 10024), (420, 10066), (426, 10141), (428, 10153),

Gene: Wizard_12 Start: 5562, Stop: 7145, Start Num: 6

Candidate Starts for Wizard_12:

(Start: 6 @5562 has 97 MA's), (Start: 34 @5676 has 11 MA's), (79, 5844), (114, 5964), (119, 5982), (125, 5997), (177, 6147), (185, 6177), (196, 6237), (197, 6240), (205, 6279), (219, 6351), (233, 6411), (234, 6414), (235, 6417), (241, 6453), (243, 6462), (245, 6468), (246, 6471), (257, 6534), (262, 6579), (268, 6609), (273, 6657), (284, 6714), (290, 6735), (292, 6741), (297, 6762), (304, 6792), (311, 6843), (317, 6891),

Gene: Yeti_20 Start: 8441, Stop: 10147, Start Num: 13

Candidate Starts for Yeti_20:

(Start: 13 @8441 has 37 MA's), (Start: 14 @8450 has 13 MA's), (17, 8465), (49, 8564), (50, 8570), (75, 8675), (77, 8687), (100, 8786), (102, 8792), (116, 8858), (122, 8876), (135, 8930), (146, 8960), (158, 8999), (163, 9017), (164, 9026), (174, 9062), (186, 9125), (198, 9188), (203, 9215), (207, 9260), (233, 9362), (234, 9365), (241, 9404), (246, 9422), (259, 9494), (268, 9560), (269, 9569), (273, 9608), (279, 9641), (285, 9674), (287, 9680), (294, 9710), (319, 9863), (322, 9878), (329, 9899), (330, 9902), (384, 10106), (387, 10115),

Gene: YorkOnyx_12 Start: 6233, Stop: 7861, Start Num: 6

Candidate Starts for YorkOnyx_12:

(Start: 6 @6233 has 97 MA's), (Start: 34 @6356 has 11 MA's), (43, 6377), (55, 6407), (61, 6434), (74, 6497), (78, 6527), (93, 6590), (100, 6617), (114, 6659), (160, 6785), (189, 6911), (194, 6935), (198, 6953), (200, 6968), (201, 6974), (211, 7037), (233, 7109), (240, 7148), (252, 7214), (257, 7244), (262, 7289), (265, 7304), (266, 7307), (270, 7343), (276, 7391), (279, 7400), (284, 7427), (292, 7454), (303, 7499), (310, 7553), (311, 7556), (313, 7571), (317, 7604), (321, 7622), (338, 7661), (341, 7667), (348, 7682), (361, 7703), (363, 7709), (370, 7745), (376, 7778),

Gene: YungMoney_12 Start: 6514, Stop: 8100, Start Num: 6

Candidate Starts for YungMoney_12:

(Start: 6 @6514 has 97 MA's), (15, 6577), (75, 6766), (79, 6796), (86, 6829), (113, 6913), (119, 6934), (125, 6949), (183, 7123), (185, 7129), (192, 7165), (196, 7189), (197, 7192), (205, 7231), (219, 7303), (233, 7363), (234, 7366), (235, 7369), (241, 7405), (243, 7414), (245, 7420), (246, 7423), (257, 7486), (262, 7531), (268, 7561), (273, 7609), (284, 7666), (290, 7687), (297, 7714), (298, 7717), (304, 7744), (311, 7795), (317, 7843),

Gene: Zagie_22 Start: 8634, Stop: 10460, Start Num: 37

Candidate Starts for Zagie_22:

(Start: 37 @8634 has 37 MA's), (77, 8784), (111, 8919), (124, 8958), (153, 9036), (159, 9054), (198, 9204), (200, 9219), (207, 9276), (221, 9345), (231, 9393), (233, 9402), (257, 9537), (262, 9582), (263, 9588), (266, 9600), (273, 9660), (303, 9789), (304, 9795), (307, 9822), (324, 9921), (339, 9966), (394, 10161), (403, 10197), (406, 10215), (411, 10260),

Gene: Zhafia_25 Start: 8864, Stop: 10690, Start Num: 37

Candidate Starts for Zhafia_25:

(Start: 37 @8864 has 37 MA's), (111, 9149), (124, 9188), (153, 9266), (159, 9284), (200, 9449), (207, 9506), (231, 9623), (233, 9632), (257, 9767), (262, 9812), (263, 9818), (266, 9830), (273, 9890), (303, 10019), (304, 10025), (307, 10052), (324, 10151), (339, 10196), (394, 10391), (403, 10427), (406, 10445), (411, 10490),

Gene: Zipp_14 Start: 7375, Stop: 9042, Start Num: 6

Candidate Starts for Zipp_14:

(Start: 6 @7375 has 97 MA's), (15, 7450), (20, 7471), (Start: 31 @7498 has 1 MA's), (56, 7585), (74, 7666), (78, 7696), (102, 7792), (106, 7807), (114, 7828), (118, 7840), (121, 7849), (127, 7873), (158, 7945), (160, 7954), (187, 8065), (189, 8080), (194, 8104), (198, 8122), (200, 8137), (201, 8143), (213, 8218), (233, 8278), (257, 8413), (262, 8458), (269, 8497), (274, 8548), (280, 8581), (283, 8593), (284, 8596), (292, 8623), (298, 8647), (311, 8725), (317, 8776), (325, 8806), (327, 8812), (349, 8869), (368, 8914), (375, 8962),

Gene: Zitch_15 Start: 6694, Stop: 8367, Start Num: 6

Candidate Starts for Zitch_15:

(Start: 6 @6694 has 97 MA's), (15, 6769), (Start: 31 @6817 has 1 MA's), (56, 6904), (74, 6985), (78, 7015), (114, 7147), (127, 7192), (158, 7264), (160, 7273), (187, 7384), (194, 7423), (198, 7441), (199, 7453), (200, 7456), (201, 7462), (213, 7537), (230, 7585), (233, 7597), (257, 7732), (262, 7777), (269, 7816), (274, 7867), (280, 7900), (283, 7912), (284, 7915), (292, 7942), (298, 7966), (311, 8044), (317, 8095), (325, 8125), (327, 8131), (335, 8149), (349, 8188), (368, 8233),

Gene: Zooman_67 Start: 27800, Stop: 29527, Start Num: 32

Candidate Starts for Zooman_67:

(4, 27662), (5, 27668), (7, 27671), (Start: 32 @27800 has 7 MA's), (47, 27854), (53, 27878), (66, 27929), (84, 28037), (90, 28061), (116, 28151), (120, 28163), (131, 28217), (184, 28424), (194, 28478), (236, 28694), (252, 28787), (257, 28817), (269, 28901), (275, 28961), (282, 28994), (286, 29009), (325, 29213), (326, 29216), (327, 29219), (343, 29270), (379, 29441),