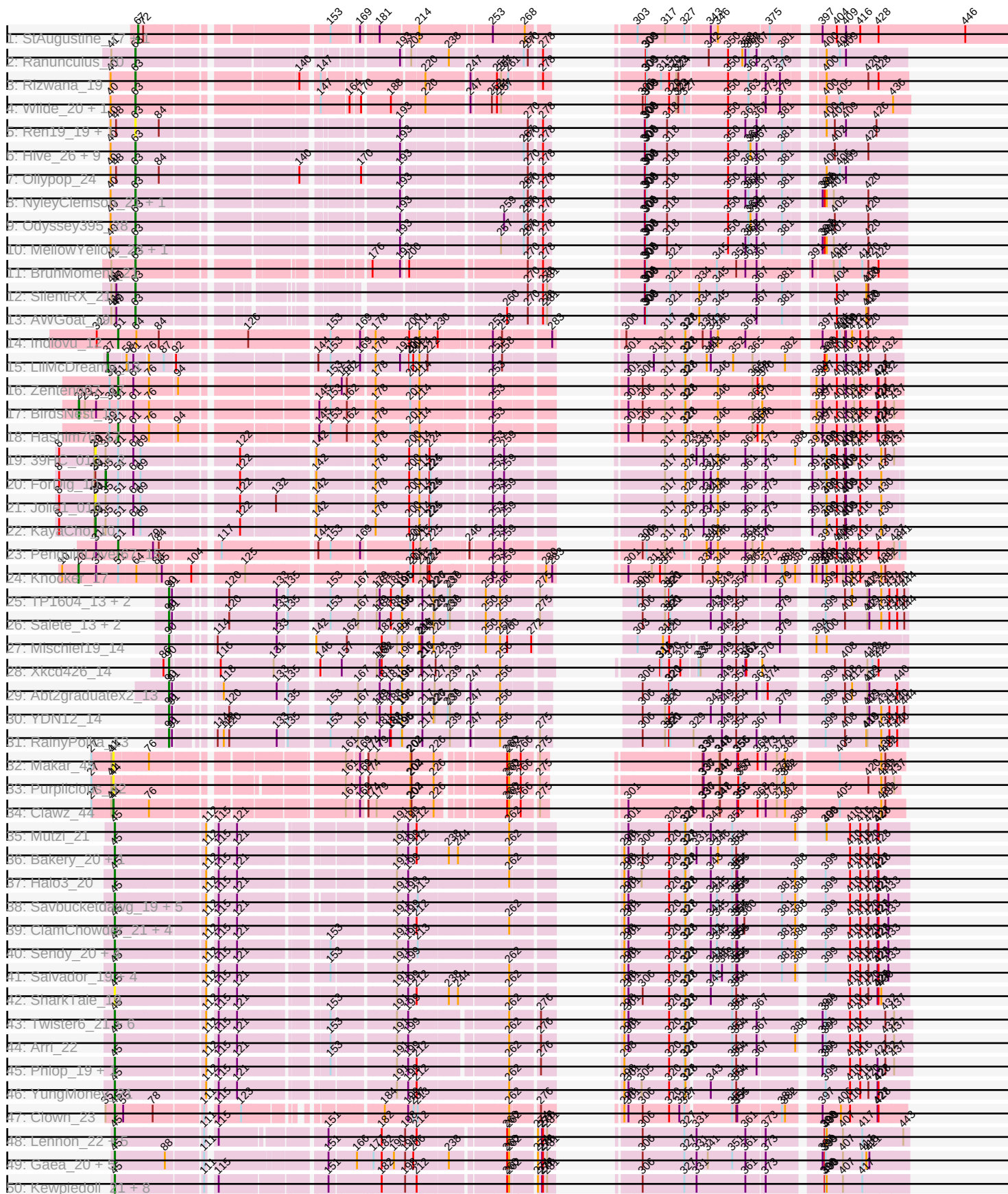
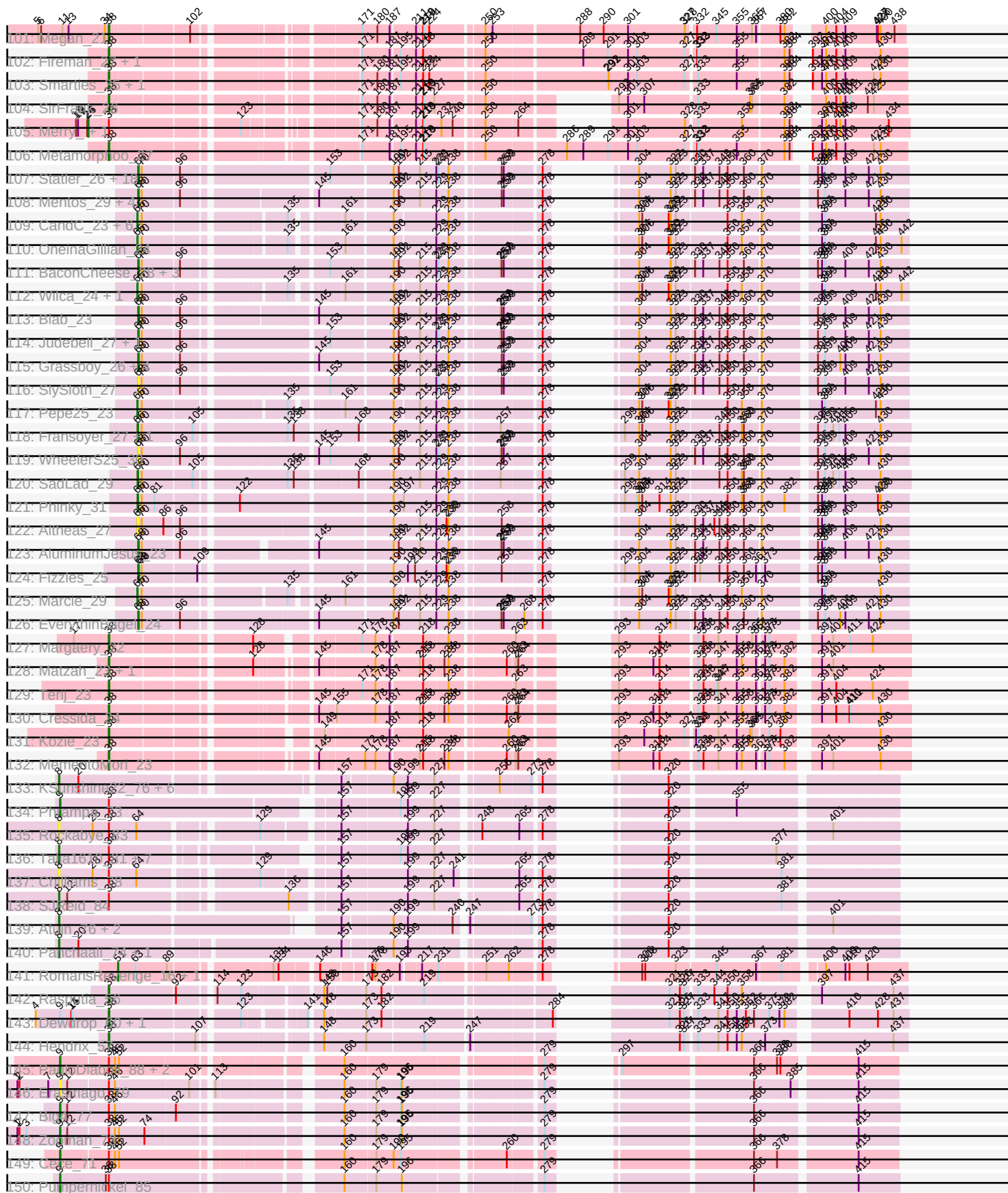
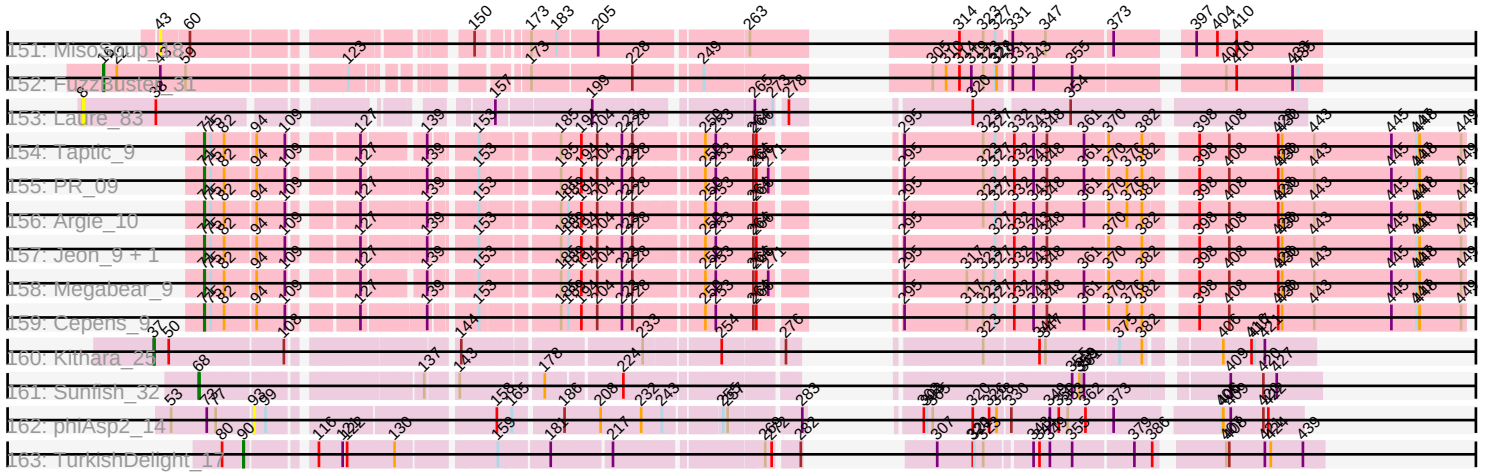




[illegible]



Pham 311114



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 311114 Report

This analysis was run 06/27/26 on database version 652.

Pham number 311114 has 360 members, 53 are drafts.

Phages represented in each track:

- Track 1 : StAugustine_17, Causa_19
- Track 2 : Ranunculus_20
- Track 3 : Rizwana_19
- Track 4 : Wilde_20, Tank_20
- Track 5 : Ren19_19, Nikan_21
- Track 6 : Hive_26, Pureglobe5_28, Popstraw_24, Pointis_26, Kubulix_27, BetaFish_26, Beagle_27, PhuzzTulsa_24, RIPWilbur_24, DogYard_26
- Track 7 : Ollypop_24
- Track 8 : NyleyClemson_21, RazzB_22
- Track 9 : Odyssey395_28
- Track 10 : MellowYellow_23, Forrestell_23
- Track 11 : BruhMoment_21
- Track 12 : SilentRX_21
- Track 13 : AWGoat_19
- Track 14 : Indlovu_12
- Track 15 : LilMcDreamy_13
- Track 16 : Zenteno07_17
- Track 17 : BirdsNest_17
- Track 18 : Hashim76_17
- Track 19 : 39HC_010, 40BC_010, Hosp_08
- Track 20 : ForDig_10
- Track 21 : Jolie1_010
- Track 22 : KayaCho_10
- Track 23 : PenguinLover67_15
- Track 24 : Knocker_17
- Track 25 : TP1604_13, Asis_13, BabyGotBac_13
- Track 26 : Salete_13, BayC_13, Maih_13
- Track 27 : Mischief19_14
- Track 28 : Xkcd426_14
- Track 29 : Abt2graduatex2_13
- Track 30 : YDN12_14
- Track 31 : RainyPolka_13
- Track 32 : Makar_45
- Track 33 : Purplicious_42
- Track 34 : Clawz_44
- Track 35 : Mutzi_21
- Track 36 : Bakery_20, Sixsevenium_20

- Track 37 : Halo3_20
- Track 38 : Savbucketdawg_19, Shinji_19, Jambalaya_19, TillyBobJoe_19, JohnPork_19, Portcullis_19
- Track 39 : ClamChowder_21, KimmyK_21, PinkCoffee_21, Barb_21, Fugax_21
- Track 40 : Sendy_20, Gezellig_19, Egi03_19, Wizard_19, Fireball_20
- Track 41 : Salvador_19, Evamon_19, Nubi_19, Togo_19, SmokingBunny_19
- Track 42 : SharkTale_19
- Track 43 : Twister6_21, VanDeWege_22, Valary_22, Danyall_21, CherryCola_22, RogerDodger_22, CoveyB_21
- Track 44 : Arri_22
- Track 45 : Phlop_19, PullumCavea_19
- Track 46 : YungMoney_21
- Track 47 : Clown_23
- Track 48 : Lennon_22, Bibwit_21, Ailee_20, Stultus_20, Sedona_22, Sitar_22
- Track 49 : Gaea_20, Tycho_20, Flatwoods_21, Bizzy_21, Kroos_21, Kwobi_22
- Track 50 : Kewpiedoll_21, FuegoCuervo_23, Galadriel_22, Barsten_21, McKinley_21, ChadMasterC_20, Vivi2_20, Fitzgerald_18, McCrothy_21
- Track 51 : Charming_18, Tangent_18, Fosterous_18, Shivanishola_20, Geodirt_19, Jabberwocky_18, Love_22, Brawn1_18, Paries_21, Brandonk123_22, Kamashten_21, BobBob_18, Sanjuju_18, MoontowerMania_19, Thing3_21
- Track 52 : RiverRaider_21
- Track 53 : Ashertheman_21, Tangerine_20, StorminNorm_20
- Track 54 : Baumdotcom_20, Gustavo_20, Saronaya_20
- Track 55 : Derg_16, Stichling_19, LilHam_18, SchottB_19
- Track 56 : Rofo_20
- Track 57 : Angelicage_20, Affeca_20
- Track 58 : YorkOnyx_21
- Track 59 : Ribeye_21
- Track 60 : Keitabear_22
- Track 61 : Baddon_20
- Track 62 : Nordenberg_15
- Track 63 : JKSyngboy_19
- Track 64 : Leonard_21, Phinally_21, Ali17_19
- Track 65 : Belphegor_18
- Track 66 : Hans_23
- Track 67 : Phauci_14
- Track 68 : MelBins_22
- Track 69 : EMoore_16
- Track 70 : Inspectinfecti_22
- Track 71 : Tiamoceli_21, Chickadee_20
- Track 72 : Twonlo_18
- Track 73 : EdmundFerry_19, Dextert_21, RoadKill_18
- Track 74 : Kwekel_20
- Track 75 : GTE6_20
- Track 76 : Scioto_21, Natkenzie_21, Abblin_21, Sampson_21
- Track 77 : APunk_23
- Track 78 : Zipp_21, Delrey21_21, DoctorFroggo_21, Verity_21
- Track 79 : ViaConlectus_22
- Track 80 : Pumpkiney_23
- Track 81 : Zitch_23
- Track 82 : BigHunkinEater_24
- Track 83 : Tardus_22
- Track 84 : Lilbeanie_18

- Track 85 : GodonK_76, Phendrix_74
- Track 86 : BlueNGold_86, Boopy_87, Forza_87, Mareelih_85
- Track 87 : Sixama_81
- Track 88 : GMA2_16
- Track 89 : Nicole72_22
- Track 90 : LittleFortune_28
- Track 91 : Jefe_27, Onika_26, Savannah_26, Germa_28, Yeti_27, Cranjis_28, Jollipop_27, Pulchra_28, Lucretia_27, PierreOrion_27, Shotgun_26, Ganandorf_26, Hermeonysus_26, BrazzalePHS_26, Piperis_27, Honeyfin_28, Quhwah_30, Busephilis_26, PiperSansNom_27, BeagleBug_26, Selwyn23_28, PhedwardCullen_26, Antares_27, Scumberland_28, CrazyRich_26, Phorgeous_26
- Track 92 : Shrubaron_27, RobsFeet_28
- Track 93 : ClearAsMud_29
- Track 94 : Zapato_26
- Track 95 : Jayden_28
- Track 96 : KaiHaiDragon_27, Phrancesco_27, EarickHC_27, Crisis_28
- Track 97 : Gina_28, Teamocil_28
- Track 98 : NoodlelyBoi_27
- Track 99 : Kowalski_26, Glorp_28, Paschalis_26, Rockwell_26, Ramiel05_26
- Track 100 : Skugga_25
- Track 101 : Megan_21
- Track 102 : Fireman_27, Tyrumbra_25
- Track 103 : Smarties_35, Ariadne_35
- Track 104 : SirFrank_26
- Track 105 : Merry_, Sunny_
- Track 106 : Metamorphoo_27
- Track 107 : Statler_26, Quammi_23, Zagie_25, Teehee_26, Squash_27, Lonelysoil_24, Wayne3_26, Rudy_23, Nike_25, Sillytadpoles_24, Phabia_25, Jehoshaphat_27, Viceroy_24, Casend_26, Rowlf_21, Llemily_24, Zhafia_27, Wheelie_24, DonaldDuck_24
- Track 108 : Mentos_29, Hyperion_24, Tissue_25, Mashley_23, Gazebo_24
- Track 109 : CandC_23, Tempo_24, Romm_26, KillerQueen_25, Kelcole_23, Fregley_25, RobinRose_26
- Track 110 : OneinaGillian_24
- Track 111 : BaconCheese_28, Mila11_28, MorillMayhem_25, BabyDotz_24
- Track 112 : Wilca_24, BirdInFrench_24
- Track 113 : Blab_23
- Track 114 : Judebell_27, FrankDeliGuy_22
- Track 115 : Grassboy_26, StrawberryJamm_27, Kyva_27, Namago_25, SallyK_26
- Track 116 : SlySloth_27
- Track 117 : Pepe25_23
- Track 118 : Fransoyer_27, RubyRalph_27
- Track 119 : WheelerS25_30
- Track 120 : SadLad_29
- Track 121 : Phinky_31
- Track 122 : Altheas_27
- Track 123 : AluminumJesus_23
- Track 124 : Fizzles_25
- Track 125 : Marcie_29
- Track 126 : EverythinBagel_24
- Track 127 : Margaery_22
- Track 128 : Matzah_23, Cinna_22
- Track 129 : Terij_23

- Track 130 : Cressida_24
- Track 131 : Kozie_23
- Track 132 : MementoMori_23
- Track 133 : KSunshine22_76, WaddleDee_69, Ellewin_70, BooTeria_78, Emmetator_74, Artu_74, DunneganBoMo_71
- Track 134 : Phrampa_73
- Track 135 : Rockabye_83
- Track 136 : Talia1610_81, Racecar_82, FloraSnap32_81, Bloom_85, Mimi_81, FrostedClock_84, Patbob_80, GoldenEssence_67
- Track 137 : Chilliams_78
- Track 138 : SJReid_84
- Track 139 : Atuin_76, ReginaGlobina_81, LeoJr_81
- Track 140 : Panchaali_74, Stewart25555_72
- Track 141 : RomansRevenge_16, Boise_16
- Track 142 : Rasputia_56
- Track 143 : Dewdrop_60, Leaf_60
- Track 144 : Hendrix_57
- Track 145 : PauloDiaboli_88, Dodo_90, A3Wally_88
- Track 146 : Erasmago_79
- Track 147 : Big4_77
- Track 148 : Zooman_73
- Track 149 : Cece_71
- Track 150 : Pumpernickel_85
- Track 151 : MisoSoup_18
- Track 152 : FuzzBuster_31
- Track 153 : Laure_83
- Track 154 : Taptic_9
- Track 155 : PR_09
- Track 156 : Argie_10
- Track 157 : Jeon_9, GodPhather_10
- Track 158 : Megabear_9
- Track 159 : Cepens_9
- Track 160 : Kithara_25
- Track 161 : Sunfish_32
- Track 162 : phiAsp2_14
- Track 163 : TurkishDelight_17

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

The start number called the most often in the published annotations is 45, it was called in 116 of the 307 non-draft genes in the pham.

Genes that call this "Most Annotated" start:

• APunk_23, Abblin_21, Affeca_20, Ailee_20, Ali17_19, Angelicage_20, Arri_22, Ashertheman_21, Baddon_20, Bakery_20, Barb_21, Barsten_21, Baumdotcom_20, Belphegor_18, Bibwit_21, BigHunkinEater_24, Bizzy_21, BobBob_18, Brandonk123_22, Brawn1_18, ChadMasterC_20, Charming_18, CherryCola_22, Chickadee_20, ClamChowder_21, Clown_23, CoveyB_21, Danyall_21, Delrey21_21, Derg_16, Dextert_21, DoctorFroggo_21, EMoore_16, EdmundFerry_19, Egi03_19, Evamon_19, Fireball_20, Fitzgerald_18, Flatwoods_21, Fosterous_18,

FuegoCuervo_23, Fugax_21, GTE6_20, Gaea_20, Galadriel_22, Geodirt_19, Gezellig_19, Gustavo_20, Halo3_20, Hans_23, Inspectinfecti_22, JKSyngboy_19, Jabberwocky_18, Jambalaya_19, JohnPork_19, Kamashten_21, Keitabear_22, Kewpiedoll_21, KimmyK_21, Kroos_21, Kwekel_20, Kwobi_22, Lennon_22, Leonard_21, LilHam_18, Lilbeanie_18, Love_22, McCrothy_21, McKinley_21, MelBins_22, MoontowerMania_19, Mutzi_21, Natkenzie_21, Nordenberg_15, Nubi_19, Paries_21, Phauci_14, Phinally_21, Phlop_19, PinkCoffee_21, Portcullis_19, PullumCavea_19, Pumpkiney_23, Ribeye_21, RiverRaider_21, RoadKill_18, Rofo_20, RogerDodger_22, Salvador_19, Sampson_21, Sanjuju_18, Saronaya_20, Savbucketdawg_19, SchottB_19, Scioto_21, Sedona_22, Sendy_20, SharkTale_19, Shinji_19, Shivanishola_20, Sitar_22, Sixsevenium_20, SmokingBunny_19, Stichling_19, StorminNorm_20, Stultus_20, Tangent_18, Tangerine_20, Tardus_22, Thing3_21, Tiamoceli_21, TillyBobJoe_19, Togo_19, Twister6_21, Twonlo_18, Tycho_20, Valary_22, VanDeWege_22, Verity_21, ViaConlectus_22, Vivi2_20, Wizard_19, YorkOnyx_21, YungMoney_21, Zipp_21, Zitch_23,

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

-

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

- 39HC_010, 40BC_010, A3Wally_88, AWGoat_19, Abt2graduatex2_13, Altheas_27, AluminumJesus_23, Antares_27, Argie_10, Ariadne_35, Artu_74, Asis_13, Atuin_76, BabyDotz_24, BabyGotBac_13, BaconCheese_28, BayC_13, BeagleBug_26, Beagle_27, BetaFish_26, Big4_77, BirdInFrench_24, BirdsNest_17, Blab_23, Bloom_85, BlueNGold_86, Boise_16, BooTeria_78, Boopy_87, BrazzalePHS_26, BruhMoment_21, Busephilis_26, CandC_23, Casend_26, Causa_19, Cece_71, Cepens_9, Chilliamps_78, Cinna_22, Clawz_44, ClearAsMud_29, Cranjis_28, CrazyRich_26, Cressida_24, Crisis_28, Dewdrop_60, Dodo_90, DogYard_26, DonaldDuck_24, DunneganBoMo_71, EarickHC_27, Ellewin_70, Emmetator_74, Erasmago_79, EverythinBagel_24, Fireman_27, Fizzles_25, FloraSnap32_81, ForDig_10, Forrestell_23, Forza_87, FrankDeliGuy_22, Fransoyer_27, Fregley_25, FrostedClock_84, FuzzBuster_31, GMA2_16, Ganandorf_26, Gazebo_24, Germa_28, Gina_28, Glorp_28, GodPhather_10, GodonK_76, GoldenEssence_67, Grassboy_26, Hashim76_17, Hendrix_57, Hermeonysus_26, Hive_26, Honeyfin_28, Hosp_08, Hyperion_24, Indlovu_12, Jayden_28, Jefe_27, Jehoshaphat_27, Jeon_9, Jolie1_010, Jollipop_27, Judebell_27, KSunshine22_76, KaiHaiDragon_27, KayaCho_10, Kelcole_23, KillerQueen_25, Kithara_25, Knocker_17, Kowalski_26, Kozie_23, Kubulix_27, Kyva_27, Laure_83, Leaf_60, LeoJr_81, LilMcDreamy_13, LittleFortune_28, Llemily_24, Lonelysoil_24, Lucretia_27, Maih_13, Makar_45, Marcie_29, Mareelih_85, Margaery_22, Mashley_23, Matzah_23, Megabear_9, Megan_21, MellowYellow_23, MementoMori_23, Mentos_29, Merry_, Metamorphoo_27, Mila11_28, Mimi_81, Mischief19_14, MisoSoup_18, MorillMayhem_25, Namago_25, Nicole72_22, Nikan_21, Nike_25, NoodlelyBoi_27, NyleyClemson_21, Odyssey395_28, Ollypop_24, OneinaGillian_24, Onika_26, PR_09, Panchaali_74, Paschalis_26, Patbob_80, PauloDiaboli_88, PenguinLover67_15, Pepe25_23, Phabia_25, PhedwardCullen_26, Phendrix_74, Phinky_31, Phorgeous_26, Phrampa_73, Phrancesco_27, PhuzzTulsa_24, PierreOrion_27, PiperSansNom_27, Piperis_27, Pointis_26, Popstraw_24, Pulchra_28, Pumpernickel_85, Pureglobe5_28, Purplicious_42, Quammi_23, Quhwah_30, RIPWilbur_24, Racecar_82, RainyPolka_13, Ramiel05_26, Ranunculus_20, Rasputia_56, RazzB_22, ReginaGlobina_81, Ren19_19, Rizwana_19, RobinRose_26, RobsFeet_28, Rockabye_83, Rockwell_26,

RomansRevenge_16, Romm_26, Rowlf_21, RubyRalph_27, Rudy_23, SJReid_84, SadLad_29, Salet_13, SallyK_26, Savannah_26, Scumberland_28, Selwyn23_28, Shotgun_26, Shrubaron_27, SilentRX_21, Sillytadpoles_24, SirFrank_26, Sixama_81, Skugga_25, SlySloth_27, Smarties_35, Squash_27, StAugustine_17, Statler_26, Stewart25555_72, StrawberryJamm_27, Sunfish_32, Sunny_, TP1604_13, Talia1610_81, Tank_20, Taptic_9, Teamocil_28, Teehee_26, Tempo_24, Terij_23, Tissue_25, TurkishDelight_17, Tyumbra_25, Viceroy_24, WaddleDee_69, Wayne3_26, WheelerS25_30, Wheelie_24, Wilca_24, Wilde_20, Xkcd426_14, YDN12_14, Yeti_27, Zagie_25, Zapato_26, Zenteno07_17, Zhafia_27, Zooman_73, phiAsp2_14,

Summary by start number:

Start 8:

- Found in 30 of 360 (8.3%) of genes in pham
- Manual Annotations of this start: 11 of 307
- Called 80.0% of time when present
- Phage (with cluster) where this start called: Artu_74 (FC), Atuin_76 (FC), Bloom_85 (FC), BooTeria_78 (FC), Chilliamps_78 (FC), DunneganBoMo_71 (FC), Ellewin_70 (FC), Emmetator_74 (FC), FloraSnap32_81 (FC), FrostedClock_84 (FC), GoldenEssence_67 (FC), KSunshine22_76 (FC), Laure_83 (UNK), LeoJr_81 (FC), Mimi_81 (FC), Panchaali_74 (FC), Patbob_80 (FC), Racecar_82 (FC), ReginaGlobina_81 (FC), Rockabye_83 (FC), SJReid_84 (FC), Stewart25555_72 (FC), Talia1610_81 (FC), WaddleDee_69 (FC),

Start 9:

- Found in 11 of 360 (3.1%) of genes in pham
- Manual Annotations of this start: 8 of 307
- Called 81.8% of time when present
- Phage (with cluster) where this start called: A3Wally_88 (GD1), Big4_77 (GD2), Cece_71 (GD3), Dodo_90 (GD1), Erasmago_79 (GD2), PauloDiaboli_88 (GD1), Phrampa_73 (FC), Pumpernickel_85 (GD4), Zooman_73 (GD2),

Start 16:

- Found in 1 of 360 (0.3%) of genes in pham
- Manual Annotations of this start: 1 of 307
- Called 100.0% of time when present
- Phage (with cluster) where this start called: FuzzBuster_31 (GM),

Start 20:

- Found in 10 of 360 (2.8%) of genes in pham
- Manual Annotations of this start: 1 of 307
- Called 10.0% of time when present
- Phage (with cluster) where this start called: Knocker_17 (B9),

Start 21:

- Found in 1 of 360 (0.3%) of genes in pham
- Manual Annotations of this start: 1 of 307
- Called 100.0% of time when present
- Phage (with cluster) where this start called: BirdsNest_17 (B13),

Start 26:

- Found in 2 of 360 (0.6%) of genes in pham

- Manual Annotations of this start: 2 of 307
- Called 100.0% of time when present
- Phage (with cluster) where this start called: Merry_ (EC), Sunny_ (EC),

Start 30:

- Found in 6 of 360 (1.7%) of genes in pham
- Manual Annotations of this start: 1 of 307
- Called 83.3% of time when present
- Phage (with cluster) where this start called: 39HC_010 (B6), 40BC_010 (B6), Hosp_08 (B6), Jolie1_010 (B6), KayaCho_10 (B6),

Start 35:

- Found in 7 of 360 (1.9%) of genes in pham
- Manual Annotations of this start: 1 of 307
- Called 14.3% of time when present
- Phage (with cluster) where this start called: ForDig_10 (B6),

Start 37:

- Found in 2 of 360 (0.6%) of genes in pham
- Manual Annotations of this start: 2 of 307
- Called 100.0% of time when present
- Phage (with cluster) where this start called: Kithara_25 (singleton), LilMcDreamy_13 (B12),

Start 38:

- Found in 87 of 360 (24.2%) of genes in pham
- Manual Annotations of this start: 58 of 307
- Called 73.6% of time when present
- Phage (with cluster) where this start called: Antares_27 (EC), Ariadne_35 (EC), BeagleBug_26 (EC), BrazzalePHS_26 (EC), Busephilis_26 (EC), Cinna_22 (EI), ClearAsMud_29 (EC), Cranjis_28 (EC), CrazyRich_26 (EC), Cressida_24 (EI), Crisis_28 (EC), Dewdrop_60 (GC), EarickHC_27 (EC), Fireman_27 (EC), Ganandorf_26 (EC), Germa_28 (EC), Gina_28 (EC), Glorp_28 (EC), Hendrix_57 (GC), Hermeonysus_26 (EC), Honeyfin_28 (EC), Jayden_28 (EC), Jefe_27 (EC), Jollipop_27 (EC), KaiHaiDragon_27 (EC), Kowalski_26 (EC), Kozie_23 (EI), Leaf_60 (GC), LittleFortune_28 (EC), Lucretia_27 (EC), Margaery_22 (EI), Matzah_23 (EI), Megan_21 (EC), MementoMori_23 (EI), Metamorphoo_27 (EC), Nicole72_22 (EC), NoodlelyBoi_27 (EC), Onika_26 (EC), Paschalis_26 (EC), PhedwardCullen_26 (EC), Phorgeous_26 (EC), Phrancesco_27 (EC), PierreOrion_27 (EC), PiperSansNom_27 (EC), Piperis_27 (EC), Pulchra_28 (EC), Quhwah_30 (EC), Ramiel05_26 (EC), Rasputia_56 (GC), RobsFeet_28 (EC), Rockwell_26 (EC), Savannah_26 (EC), Scumberland_28 (EC), Selwyn23_28 (EC), Shotgun_26 (EC), Shrubaron_27 (EC), SirFrank_26 (EC), Skugga_25 (EC), Smarties_35 (EC), Teamocil_28 (EC), Terij_23 (EI), Tyumbra_25 (EC), Yeti_27 (EC), Zapato_26 (EC),

Start 43:

- Found in 2 of 360 (0.6%) of genes in pham
- No Manual Annotations of this start.
- Called 50.0% of time when present
- Phage (with cluster) where this start called: MisoSoup_18 (GM),

Start 44:

- Found in 3 of 360 (0.8%) of genes in pham

- Manual Annotations of this start: 1 of 307
- Called 100.0% of time when present
- Phage (with cluster) where this start called: Clawz_44 (CP), Makar_45 (CP), Purplicious_42 (CP),

Start 45:

- Found in 126 of 360 (35.0%) of genes in pham
- Manual Annotations of this start: 116 of 307
- Called 100.0% of time when present
- Phage (with cluster) where this start called: APunk_23 (DE4), Abblin_21 (DE4), Affeca_20 (DE1), Ailee_20 (DE1), Ali17_19 (DE2), Angelicage_20 (DE1), Arri_22 (DC1), Ashertheman_21 (DE1), Baddon_20 (DE1), Bakery_20 (DC1), Barb_21 (DC1), Barsten_21 (DE1), Baumdotcom_20 (DE1), Belphegor_18 (DE2), Bibwit_21 (DE1), BigHunkinEater_24 (DE4), Bizzy_21 (DE1), BobBob_18 (DE1), Brandonk123_22 (DE1), Brawn1_18 (DE1), ChadMasterC_20 (DE1), Charming_18 (DE1), CherryCola_22 (DC1), Chickadee_20 (DE3), ClamChowder_21 (DC1), Clown_23 (DC2), CoveyB_21 (DC1), Danyall_21 (DC1), Delrey21_21 (DE4), Derg_16 (DE1), Dextert_21 (DE3), DoctorFroggo_21 (DE4), EMOore_16 (DE2), EdmundFerry_19 (DE3), Egi03_19 (DC1), Evamon_19 (DC1), Fireball_20 (DC1), Fitzgerald_18 (DE1), Flatwoods_21 (DE1), Fosterous_18 (DE1), FuegoCuervo_23 (DE1), Fugax_21 (DC1), GTE6_20 (DE3), Gaea_20 (DE1), Galadriel_22 (DE1), Geodirt_19 (DE1), Gezellig_19 (DC1), Gustavo_20 (DE1), Halo3_20 (DC1), Hans_23 (DE2), Inspectinfecti_22 (DE2), JKSyngboy_19 (DE1), Jabberwocky_18 (DE1), Jambalaya_19 (DC1), JohnPork_19 (DC1), Kamashten_21 (DE1), Keitabear_22 (DE1), Kewpiedoll_21 (DE1), KimmyK_21 (DC1), Kroos_21 (DE1), Kwekel_20 (DE3), Kwobi_22 (DE1), Lennon_22 (DE1), Leonard_21 (DE2), LilHam_18 (DE1), Lilbeanie_18 (DE5), Love_22 (DE1), McCrothy_21 (DE1), McKinley_21 (DE1), MelBins_22 (DE2), MoontowerMania_19 (DE1), Mutzi_21 (DC1), Natkenzie_21 (DE4), Nordenberg_15 (DE1), Nubi_19 (DC1), Paries_21 (DE1), Phauci_14 (DE2), Phinally_21 (DE2), Phlop_19 (DC1), PinkCoffee_21 (DC1), Portcullis_19 (DC1), PullumCavea_19 (DC1), Pumpkiney_23 (DE4), Ribeye_21 (DE1), RiverRaider_21 (DE1), RoadKill_18 (DE3), Rofo_20 (DE1), RogerDodger_22 (DC1), Salvador_19 (DC1), Sampson_21 (DE4), Sanjuju_18 (DE1), Saronaya_20 (DE1), Savbucketdawg_19 (DC1), SchottB_19 (DE1), Scioto_21 (DE4), Sedona_22 (DE1), Sendy_20 (DC1), SharkTale_19 (DC1), Shinji_19 (DC1), Shivanishola_20 (DE1), Sitar_22 (DE1), Sixsevenium_20 (DC1), SmokingBunny_19 (DC1), Stichling_19 (DE1), StorminNorm_20 (DE1), Stultus_20 (DE1), Tangent_18 (DE1), Tangerine_20 (DE1), Tardus_22 (DE4), Thing3_21 (DE1), Tiamoceli_21 (DE3), TillyBobJoe_19 (DC1), Togo_19 (DC1), Twister6_21 (DC1), Twonlo_18 (DE3), Tycho_20 (DE1), Valary_22 (DC1), VanDeWege_22 (DC1), Verity_21 (DE4), ViaConlectus_22 (DE4), Vivi2_20 (DE1), Wizard_19 (DC1), YorkOnyx_21 (DE1), YungMoney_21 (DC1), Zipp_21 (DE4), Zitch_23 (DE4),

Start 51:

- Found in 14 of 360 (3.9%) of genes in pham
- Manual Annotations of this start: 5 of 307
- Called 42.9% of time when present
- Phage (with cluster) where this start called: Boise_16 (FT), Hashim76_17 (B13), Indlovu_12 (B11), PenguinLover67_15 (B9), RomansRevenge_16 (FT), Zenteno07_17 (B13),

Start 56:

- Found in 2 of 360 (0.6%) of genes in pham

- Manual Annotations of this start: 2 of 307
- Called 100.0% of time when present
- Phage (with cluster) where this start called: GodonK_76 (DK), Phendrix_74 (DK),

Start 57:

- Found in 6 of 360 (1.7%) of genes in pham
- Manual Annotations of this start: 5 of 307
- Called 100.0% of time when present
- Phage (with cluster) where this start called: BlueNGold_86 (DS), Boopy_87 (DS), Forza_87 (DS), GMA2_16 (DS), Mareelih_85 (DS), Sixama_81 (DS),

Start 63:

- Found in 27 of 360 (7.5%) of genes in pham
- Manual Annotations of this start: 19 of 307
- Called 92.6% of time when present
- Phage (with cluster) where this start called: AWGoat_19 (AP4), Beagle_27 (AP2), BetaFish_26 (AP2), BruhMoment_21 (AP3), DogYard_26 (AP2), Forrestell_23 (AP2), Hive_26 (AP2), Kubulix_27 (AP2), MellowYellow_23 (AP2), Nikan_21 (AP2), NyleyClemson_21 (AP2), Odyssey395_28 (AP2), Ollypop_24 (AP2), PhuzzTulsa_24 (AP2), Pointis_26 (AP2), Popstraw_24 (AP2), Pureglobe5_28 (AP2), RIPWilbur_24 (AP2), Ranunculus_20 (AP), RazzB_22 (AP2), Ren19_19 (AP2), Rizwana_19 (AP1), SilentRX_21 (AP4), Tank_20 (AP1), Wilde_20 (AP1),

Start 65:

- Found in 12 of 360 (3.3%) of genes in pham
- Manual Annotations of this start: 11 of 307
- Called 100.0% of time when present
- Phage (with cluster) where this start called: BirdInFrench_24 (EG), CandC_23 (EG), Fregley_25 (EG), Kelcole_23 (EG), KillerQueen_25 (EG), Marcie_29 (EG), OneinaGillian_24 (EG), Pepe25_23 (EG), RobinRose_26 (EG), Romm_26 (EG), Tempo_24 (EG), Wilca_24 (EG),

Start 66:

- Found in 5 of 360 (1.4%) of genes in pham
- Manual Annotations of this start: 4 of 307
- Called 100.0% of time when present
- Phage (with cluster) where this start called: Altheas_27 (EG), Fransoyer_27 (EG), Phinky_31 (EG), RubyRalph_27 (EG), SadLad_29 (EG),

Start 67:

- Found in 2 of 360 (0.6%) of genes in pham
- Manual Annotations of this start: 2 of 307
- Called 100.0% of time when present
- Phage (with cluster) where this start called: Causa_19 (AI), StAugustine_17 (AI),

Start 68:

- Found in 49 of 360 (13.6%) of genes in pham
- Manual Annotations of this start: 37 of 307
- Called 85.7% of time when present
- Phage (with cluster) where this start called: AluminumJesus_23 (EG), BabyDotz_24 (EG), BaconCheese_28 (EG), Blab_23 (EG), Casend_26 (EG), DonaldDuck_24 (EG), EverythinBagel_24 (EG), Fizzles_25 (EG), FrankDeliGuy_22 (EG), Gazebo_24 (EG), Grassboy_26 (EG), Hyperion_24 (EG), Jehoshaphat_27 (EG), Judebell_27 (EG),

Kyva_27 (EG), Llemily_24 (EG), Lonelysoil_24 (EG), Mashley_23 (EG), Mentos_29 (EG), Mila11_28 (EG), MorillMayhem_25 (EG), Namago_25 (EG), Nike_25 (EG), Phabia_25 (EG), Quammi_23 (EG), Rowlf_21 (EG), Rudy_23 (EG), SallyK_26 (EG), Sillytadpoles_24 (EG), SlySloth_27 (EG), Squash_27 (EG), Statler_26 (EG), StrawberryJamm_27 (EG), Sunfish_32 (singleton), Teehee_26 (EG), Tissue_25 (EG), Viceroy_24 (EG), Wayne3_26 (EG), WheelerS25_30 (EG), Wheelie_24 (EG), Zagie_25 (EG), Zhafia_27 (EG),

Start 71:

- Found in 7 of 360 (1.9%) of genes in pham
- Manual Annotations of this start: 7 of 307
- Called 100.0% of time when present
- Phage (with cluster) where this start called: Argie_10 (W), Cepens_9 (W), GodPhather_10 (W), Jeon_9 (W), Megabear_9 (W), PR_09 (W), Taptic_9 (W),

Start 90:

- Found in 12 of 360 (3.3%) of genes in pham
- Manual Annotations of this start: 12 of 307
- Called 100.0% of time when present
- Phage (with cluster) where this start called: Abt2graduatex2_13 (BG), Asis_13 (BG), BabyGotBac_13 (BG), BayC_13 (BG), Maih_13 (BG), Mischief19_14 (BG), RainyPolka_13 (BG), Salete_13 (BG), TP1604_13 (BG), TurkishDelight_17 (singleton), Xkcd426_14 (BG), YDN12_14 (BG),

Start 93:

- Found in 1 of 360 (0.3%) of genes in pham
- No Manual Annotations of this start.
- Called 100.0% of time when present
- Phage (with cluster) where this start called: phiAsp2_14 (singleton),

Summary by clusters:

There are 36 clusters represented in this pham: GD1, singleton, BG, FT, DK, AP2, AP3, AP1, GD2, AP4, FC, B12, B13, B11, GD3, GD4, DS, UNK, EI, AI, EG, EC, AP, GC, W, GM, CP, DC2, DC1, DE1, DE2, DE3, DE4, DE5, B6, B9,

Info for manual annotations of cluster AI:

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

Info for manual annotations of cluster AP:

- Start number 63 was manually annotated 1 time for cluster AP.

Info for manual annotations of cluster AP1:

- Start number 63 was manually annotated 3 times for cluster AP1.

Info for manual annotations of cluster AP2:

- Start number 63 was manually annotated 12 times for cluster AP2.

Info for manual annotations of cluster AP3:

- Start number 63 was manually annotated 1 time for cluster AP3.

Info for manual annotations of cluster AP4:

- Start number 63 was manually annotated 2 times for cluster AP4.

Info for manual annotations of cluster B11:

- Start number 51 was manually annotated 1 time for cluster B11.

Info for manual annotations of cluster B12:

- Start number 37 was manually annotated 1 time for cluster B12.

Info for manual annotations of cluster B13:

- Start number 21 was manually annotated 1 time for cluster B13.
- Start number 51 was manually annotated 2 times for cluster B13.

Info for manual annotations of cluster B6:

- Start number 30 was manually annotated 1 time for cluster B6.
- Start number 35 was manually annotated 1 time for cluster B6.

Info for manual annotations of cluster B9:

- Start number 20 was manually annotated 1 time for cluster B9.
- Start number 51 was manually annotated 1 time for cluster B9.

Info for manual annotations of cluster BG:

- Start number 90 was manually annotated 11 times for cluster BG.

Info for manual annotations of cluster CP:

- Start number 44 was manually annotated 1 time for cluster CP.

Info for manual annotations of cluster DC1:

- Start number 45 was manually annotated 32 times for cluster DC1.

Info for manual annotations of cluster DC2:

- Start number 45 was manually annotated 1 time for cluster DC2.

Info for manual annotations of cluster DE1:

- Start number 45 was manually annotated 53 times for cluster DE1.

Info for manual annotations of cluster DE2:

- Start number 45 was manually annotated 9 times for cluster DE2.

Info for manual annotations of cluster DE3:

- Start number 45 was manually annotated 7 times for cluster DE3.

Info for manual annotations of cluster DE4:

- Start number 45 was manually annotated 13 times for cluster DE4.

Info for manual annotations of cluster DE5:

- Start number 45 was manually annotated 1 time for cluster DE5.

Info for manual annotations of cluster DK:

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

Info for manual annotations of cluster DS:

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

Info for manual annotations of cluster EC:

- Start number 26 was manually annotated 2 times for cluster EC.
- Start number 38 was manually annotated 47 times for cluster EC.

Info for manual annotations of cluster EG:

- Start number 65 was manually annotated 11 times for cluster EG.
- Start number 66 was manually annotated 4 times for cluster EG.
- Start number 68 was manually annotated 36 times for cluster EG.

Info for manual annotations of cluster EI:

- Start number 38 was manually annotated 7 times for cluster EI.

Info for manual annotations of cluster FC:

- Start number 8 was manually annotated 11 times for cluster FC.
- Start number 9 was manually annotated 1 time for cluster FC.

Info for manual annotations of cluster FT:

- Start number 51 was manually annotated 1 time for cluster FT.

Info for manual annotations of cluster GC:

- Start number 38 was manually annotated 4 times for cluster GC.

Info for manual annotations of cluster GD1:

- Start number 9 was manually annotated 3 times for cluster GD1.

Info for manual annotations of cluster GD2:

- Start number 9 was manually annotated 2 times for cluster GD2.

Info for manual annotations of cluster GD3:

- Start number 9 was manually annotated 1 time for cluster GD3.

Info for manual annotations of cluster GD4:

- Start number 9 was manually annotated 1 time for cluster GD4.

Info for manual annotations of cluster GM:

- Start number 16 was manually annotated 1 time for cluster GM.

Info for manual annotations of cluster W:

- Start number 71 was manually annotated 7 times for cluster W.

Gene Information:

Gene: 39HC_010 Start: 9835, Stop: 11733, Start Num: 30

Candidate Starts for 39HC_010:

(Start: 8 @9730 has 11 MA's), (29, 9832), (Start: 30 @9835 has 1 MA's), (Start: 35 @9865 has 1 MA's), (Start: 51 @9898 has 5 MA's), (61, 9931), (69, 9952), (122, 10183), (142, 10366), (178, 10513), (200, 10606), (214, 10636), (224, 10666), (253, 10807), (259, 10834), (317, 11101), (328, 11161), (331, 11185), (337, 11206), (346, 11245), (361, 11326), (373, 11374), (388, 11455), (391, 11473), (399, 11509), (400, 11512), (404, 11542), (408, 11566), (409, 11569), (413, 11593), (416, 11611), (430, 11671), (432, 11683), (437, 11707),

Gene: 40BC_010 Start: 9835, Stop: 11733, Start Num: 30

Candidate Starts for 40BC_010:

(Start: 8 @9730 has 11 MA's), (29, 9832), (Start: 30 @9835 has 1 MA's), (Start: 35 @9865 has 1 MA's), (Start: 51 @9898 has 5 MA's), (61, 9931), (69, 9952), (122, 10183), (142, 10366), (178, 10513), (200, 10606), (214, 10636), (224, 10666), (253, 10807), (259, 10834), (317, 11101), (328, 11161), (331, 11185), (337, 11206), (346, 11245), (361, 11326), (373, 11374), (388, 11455), (391, 11473), (399, 11509), (400, 11512), (404, 11542), (408, 11566), (409, 11569), (413, 11593), (416, 11611), (430, 11671), (432, 11683), (437, 11707),

Gene: A3Wally_88 Start: 44936, Stop: 46945, Start Num: 9

Candidate Starts for A3Wally_88:

(Start: 9 @44936 has 8 MA's), (Start: 38 @45071 has 58 MA's), (46, 45089), (52, 45101), (160, 45644), (279, 46154), (297, 46199), (366, 46565), (378, 46631), (380, 46640), (415, 46835),

Gene: APunk_23 Start: 16314, Stop: 18233, Start Num: 45

Candidate Starts for APunk_23:

(Start: 45 @16314 has 116 MA's), (107, 16530), (111, 16545), (134, 16719), (163, 16866), (176, 16935), (178, 16941), (190, 16995), (196, 17019), (257, 17271), (260, 17289), (262, 17295), (274, 17358), (277, 17370), (278, 17373), (281, 17385), (306, 17475), (311, 17502), (341, 17661), (353, 17739), (375, 17835), (417, 18105), (427, 18150),

Gene: AWGoat_19 Start: 13739, Stop: 15430, Start Num: 63

Candidate Starts for AWGoat_19:

(41, 13679), (47, 13691), (49, 13694), (Start: 63 @13739 has 19 MA's), (260, 14555), (270, 14609), (278, 14639), (281, 14651), (307, 14735), (308, 14738), (309, 14741), (321, 14810), (334, 14882), (345, 14930), (367, 15047), (381, 15113), (404, 15230), (418, 15317), (420, 15323),

Gene: Abblin_21 Start: 15527, Stop: 17449, Start Num: 45

Candidate Starts for Abblin_21:

(Start: 45 @15527 has 116 MA's), (107, 15743), (111, 15758), (134, 15932), (160, 16070), (163, 16079), (176, 16148), (178, 16154), (190, 16208), (196, 16232), (257, 16484), (260, 16502), (262, 16508), (274, 16571), (277, 16583), (278, 16586), (281, 16598), (306, 16688), (311, 16715), (341, 16874), (353, 16952), (375, 17048), (381, 17084), (397, 17204), (401, 17237), (417, 17321), (427, 17366),

Gene: Abt2graduatex2_13 Start: 13868, Stop: 15571, Start Num: 90

Candidate Starts for Abt2graduatex2_13:

(Start: 90 @13868 has 12 MA's), (91, 13877), (118, 13964), (133, 14111), (135, 14135), (167, 14318), (181, 14372), (187, 14402), (195, 14432), (196, 14435), (217, 14483), (227, 14519), (239, 14564), (247, 14606), (256, 14675), (306, 14855), (320, 14933), (321, 14936), (349, 15086), (354, 15128), (367, 15188), (374, 15209), (399, 15341), (408, 15398), (412, 15419), (419, 15461), (421, 15467), (440, 15542),

Gene: Affeca_20 Start: 15348, Stop: 17258, Start Num: 45

Candidate Starts for Affeca_20:

(Start: 45 @15348 has 116 MA's), (111, 15579), (115, 15597), (151, 15867), (182, 16005), (198, 16074), (212, 16107), (260, 16332), (262, 16338), (277, 16413), (278, 16416), (281, 16428), (298, 16464), (306, 16515), (327, 16638), (331, 16674), (361, 16818), (373, 16869), (398, 17013), (399, 17016), (400, 17019), (407, 17067), (417, 17124),

Gene: Ailee_20 Start: 15256, Stop: 17172, Start Num: 45

Candidate Starts for Ailee_20:

(Start: 45 @15256 has 116 MA's), (111, 15487), (115, 15505), (151, 15781), (182, 15919), (198, 15988), (212, 16021), (260, 16246), (262, 16252), (274, 16315), (277, 16327), (278, 16330), (281, 16342), (306, 16429), (327, 16552), (331, 16588), (361, 16732), (373, 16783), (398, 16927), (399, 16930), (400, 16933), (407, 16981), (417, 17038), (443, 17155),

Gene: Ali17_19 Start: 14661, Stop: 16580, Start Num: 45

Candidate Starts for Ali17_19:

(Start: 45 @14661 has 116 MA's), (102, 14862), (124, 14985), (151, 15156), (163, 15201), (166, 15222), (182, 15279), (220, 15405), (235, 15456), (238, 15465), (245, 15516), (249, 15567), (260, 15630), (262, 15636), (274, 15699), (281, 15726), (306, 15813), (340, 15996), (351, 16071), (355, 16086), (361, 16110), (367, 16143), (373, 16161), (382, 16218), (397, 16329), (409, 16398), (410, 16410), (417, 16446), (432, 16512),

Gene: Altheas_27 Start: 14496, Stop: 16319, Start Num: 66

Candidate Starts for Altheas_27:

(Start: 66 @14496 has 4 MA's), (70, 14508), (86, 14568), (96, 14607), (190, 15129), (215, 15204), (229, 15252), (236, 15276), (238, 15282), (258, 15399), (278, 15498), (304, 15579), (322, 15672), (323, 15687), (330, 15735), (337, 15759), (344, 15792), (348, 15807), (350, 15831), (360, 15879), (370, 15921), (396, 16056), (397, 16068), (399, 16077), (409, 16137), (430, 16239),

Gene: AluminumJesus_23 Start: 13874, Stop: 15679, Start Num: 68

Candidate Starts for AluminumJesus_23:

(Start: 68 @13874 has 37 MA's), (70, 13883), (96, 13982), (145, 14288), (190, 14489), (192, 14504), (215, 14564), (229, 14612), (238, 14642), (257, 14756), (258, 14759), (259, 14765), (278, 14858), (304, 14939), (322, 15032), (323, 15047), (330, 15095), (337, 15119), (348, 15167), (350, 15191), (360, 15239), (370, 15281), (396, 15416), (397, 15428), (399, 15437), (409, 15497), (421, 15566), (430, 15599),

Gene: Angelicage_20 Start: 15771, Stop: 17681, Start Num: 45

Candidate Starts for Angelicage_20:

(Start: 45 @15771 has 116 MA's), (111, 16002), (115, 16020), (151, 16290), (182, 16428), (198, 16497), (212, 16530), (260, 16755), (262, 16761), (277, 16836), (278, 16839), (281, 16851), (298, 16887), (306, 16938), (327, 17061), (331, 17097), (361, 17241), (373, 17292), (398, 17436), (399, 17439), (400, 17442), (407, 17490), (417, 17547),

Gene: Antares_27 Start: 14003, Stop: 15859, Start Num: 38

Candidate Starts for Antares_27:

(Start: 38 @14003 has 58 MA's), (171, 14579), (180, 14624), (187, 14660), (211, 14729), (218, 14750), (219, 14753), (227, 14783), (250, 14903), (264, 14984), (293, 15098), (301, 15125), (333, 15314), (358, 15440), (382, 15554), (384, 15569), (400, 15617), (404, 15647), (406, 15659), (409, 15674), (411, 15689), (420, 15740), (425, 15758), (430, 15776),

Gene: Argie_10 Start: 10843, Stop: 12906, Start Num: 71

Candidate Starts for Argie_10:

(Start: 71 @10843 has 7 MA's), (75, 10855), (82, 10882), (94, 10936), (109, 10984), (127, 11089), (139, 11206), (153, 11278), (185, 11413), (189, 11428), (194, 11452), (204, 11482), (223, 11527), (228, 11548), (250, 11656), (253, 11674), (264, 11743), (266, 11749), (295, 11842), (323, 12001), (327, 12025), (332, 12055), (343, 12091), (348, 12118), (361, 12193), (370, 12232), (376, 12268), (382, 12298), (398, 12373), (408, 12433), (428, 12532), (430, 12538), (443, 12601), (445, 12757), (447, 12808), (448, 12814), (449, 12898),

Gene: Ariadne_35 Start: 15581, Stop: 17596, Start Num: 38

Candidate Starts for Ariadne_35:

(Start: 38 @15581 has 58 MA's), (171, 16160), (180, 16205), (187, 16241), (195, 16265), (211, 16310), (218, 16331), (224, 16349), (250, 16484), (291, 16814), (292, 16817), (301, 16874), (303, 16898), (327, 17036), (333, 17063), (355, 17174), (382, 17303), (384, 17318), (392, 17327), (397, 17354), (400, 17366), (404, 17396), (409, 17423), (425, 17507), (430, 17525),

Gene: Arri_22 Start: 12537, Stop: 14423, Start Num: 45

Candidate Starts for Arri_22:

(Start: 45 @12537 has 116 MA's), (112, 12774), (115, 12786), (121, 12840), (153, 13062), (191, 13224), (199, 13257), (262, 13509), (276, 13581), (298, 13638), (301, 13650), (320, 13767), (327, 13812), (328, 13815), (351, 13938), (354, 13950), (367, 14010), (388, 14112), (397, 14163), (399, 14172), (410, 14244), (416, 14274), (432, 14346), (437, 14370),

Gene: Artu_74 Start: 44186, Stop: 46189, Start Num: 8

Candidate Starts for Artu_74:

(Start: 8 @44186 has 11 MA's), (Start: 20 @44240 has 1 MA's), (157, 44894), (190, 45029), (199, 45071), (227, 45146), (256, 45293), (273, 45380), (278, 45395), (320, 45575),

Gene: Ashertheman_21 Start: 14855, Stop: 16762, Start Num: 45

Candidate Starts for Ashertheman_21:

(Start: 45 @14855 has 116 MA's), (88, 14990), (111, 15086), (151, 15368), (166, 15437), (177, 15485), (182, 15509), (190, 15545), (198, 15578), (206, 15602), (238, 15695), (260, 15836), (262, 15842), (274, 15905), (277, 15917), (278, 15920), (281, 15932), (306, 16019), (327, 16142), (331, 16178), (351, 16283), (361, 16322), (373, 16373), (397, 16511), (398, 16517), (399, 16520), (407, 16571), (417, 16628), (418, 16640), (421, 16649), (444, 16748),

Gene: Asis_13 Start: 13751, Stop: 15445, Start Num: 90

Candidate Starts for Asis_13:

(Start: 90 @13751 has 12 MA's), (91, 13760), (120, 13862), (133, 13994), (135, 14018), (153, 14114), (167, 14195), (179, 14240), (181, 14249), (188, 14282), (195, 14309), (196, 14312), (217, 14360), (226, 14393), (227, 14396), (237, 14435), (239, 14441), (250, 14519), (256, 14552), (275, 14642), (303, 14717), (306, 14732), (317, 14798), (320, 14810), (321, 14813), (343, 14930), (349, 14963), (354, 15005), (379, 15122), (399, 15218), (408, 15275), (412, 15296), (419, 15338), (421, 15344), (430, 15377), (434, 15401), (440, 15419), (444, 15434),

Gene: Atuin_76 Start: 46811, Stop: 48820, Start Num: 8

Candidate Starts for Atuin_76:

(Start: 8 @46811 has 11 MA's), (157, 47525), (190, 47660), (199, 47702), (240, 47825), (247, 47846), (273, 48011), (278, 48026), (320, 48206), (401, 48632),

Gene: BabyDotz_24 Start: 14116, Stop: 15948, Start Num: 68

Candidate Starts for BabyDotz_24:

(Start: 68 @14116 has 37 MA's), (70, 14125), (96, 14224), (153, 14590), (190, 14758), (192, 14773), (215, 14833), (229, 14881), (231, 14887), (238, 14911), (257, 15025), (258, 15028), (259, 15034), (278, 15127), (304, 15208), (322, 15301), (323, 15316), (330, 15364), (337, 15388), (348, 15436), (350, 15460), (360, 15508), (370, 15550), (396, 15685), (397, 15697), (399, 15706), (409, 15766), (421, 15835), (430, 15868),

Gene: BabyGotBac_13 Start: 13751, Stop: 15445, Start Num: 90

Candidate Starts for BabyGotBac_13:

(Start: 90 @13751 has 12 MA's), (91, 13760), (120, 13862), (133, 13994), (135, 14018), (153, 14114), (167, 14195), (179, 14240), (181, 14249), (188, 14282), (195, 14309), (196, 14312), (217, 14360), (226, 14393), (227, 14396), (237, 14435), (239, 14441), (250, 14519), (256, 14552), (275, 14642), (303, 14717), (306, 14732), (317, 14798), (320, 14810), (321, 14813), (343, 14930), (349, 14963),

(354, 15005), (379, 15122), (399, 15218), (408, 15275), (412, 15296), (419, 15338), (421, 15344), (430, 15377), (434, 15401), (440, 15419), (444, 15434),

Gene: BaconCheese_28 Start: 15365, Stop: 17197, Start Num: 68

Candidate Starts for BaconCheese_28:

(Start: 68 @15365 has 37 MA's), (70, 15374), (96, 15473), (153, 15839), (190, 16007), (192, 16022), (215, 16082), (229, 16130), (231, 16136), (238, 16160), (257, 16274), (258, 16277), (259, 16283), (278, 16376), (304, 16457), (322, 16550), (323, 16565), (330, 16613), (337, 16637), (348, 16685), (350, 16709), (360, 16757), (370, 16799), (396, 16934), (397, 16946), (399, 16955), (409, 17015), (421, 17084), (430, 17117),

Gene: Baddon_20 Start: 15702, Stop: 17609, Start Num: 45

Candidate Starts for Baddon_20:

(Start: 45 @15702 has 116 MA's), (88, 15837), (95, 15870), (111, 15933), (151, 16215), (166, 16284), (177, 16332), (182, 16356), (198, 16425), (206, 16449), (238, 16542), (260, 16683), (262, 16689), (274, 16752), (277, 16764), (278, 16767), (281, 16779), (306, 16866), (327, 16989), (331, 17025), (341, 17058), (346, 17088), (351, 17130), (361, 17169), (373, 17220), (398, 17364), (399, 17367), (407, 17418), (417, 17475), (418, 17487), (421, 17496), (427, 17520),

Gene: Bakery_20 Start: 11735, Stop: 13636, Start Num: 45

Candidate Starts for Bakery_20:

(Start: 45 @11735 has 116 MA's), (112, 11972), (115, 11984), (121, 12038), (191, 12425), (199, 12458), (212, 12482), (238, 12563), (244, 12590), (262, 12728), (298, 12857), (301, 12869), (306, 12908), (320, 12986), (327, 13031), (328, 13034), (331, 13055), (343, 13097), (346, 13118), (351, 13160), (354, 13172), (410, 13466), (416, 13496), (420, 13520), (428, 13550),

Gene: Barb_21 Start: 12512, Stop: 14410, Start Num: 45

Candidate Starts for Barb_21:

(Start: 45 @12512 has 116 MA's), (112, 12749), (115, 12761), (121, 12815), (191, 13208), (199, 13241), (212, 13265), (262, 13505), (298, 13634), (301, 13646), (320, 13763), (327, 13808), (328, 13811), (343, 13871), (345, 13889), (351, 13934), (354, 13946), (355, 13949), (360, 13970), (381, 14069), (388, 14108), (399, 14168), (410, 14240), (416, 14270), (420, 14294), (427, 14321), (428, 14324), (433, 14351),

Gene: Barsten_21 Start: 15284, Stop: 17188, Start Num: 45

Candidate Starts for Barsten_21:

(Start: 45 @15284 has 116 MA's), (111, 15515), (115, 15533), (151, 15800), (182, 15938), (198, 16007), (212, 16040), (260, 16265), (262, 16271), (274, 16334), (277, 16346), (278, 16349), (281, 16361), (306, 16448), (327, 16571), (331, 16607), (361, 16751), (373, 16802), (398, 16946), (399, 16949), (400, 16952), (407, 17000), (417, 17057),

Gene: Baumdotcom_20 Start: 14471, Stop: 16378, Start Num: 45

Candidate Starts for Baumdotcom_20:

(Start: 45 @14471 has 116 MA's), (88, 14606), (111, 14702), (151, 14984), (166, 15053), (177, 15101), (182, 15125), (190, 15161), (198, 15194), (206, 15218), (238, 15311), (260, 15452), (262, 15458), (274, 15521), (277, 15533), (278, 15536), (281, 15548), (306, 15635), (327, 15758), (331, 15794), (351, 15899), (361, 15938), (373, 15989), (397, 16127), (398, 16133), (399, 16136), (407, 16187), (417, 16244), (418, 16256), (421, 16265),

Gene: BayC_13 Start: 13751, Stop: 15445, Start Num: 90

Candidate Starts for BayC_13:

(Start: 90 @13751 has 12 MA's), (91, 13760), (120, 13862), (133, 13994), (135, 14018), (153, 14114), (167, 14195), (179, 14240), (181, 14249), (188, 14282), (195, 14309), (196, 14312), (217, 14360),

(226, 14393), (227, 14396), (237, 14435), (239, 14441), (250, 14519), (256, 14552), (275, 14642), (306, 14732), (317, 14798), (320, 14810), (321, 14813), (343, 14930), (349, 14963), (354, 15005), (379, 15122), (399, 15218), (408, 15275), (419, 15338), (421, 15344), (430, 15377), (434, 15401), (440, 15419), (444, 15434),

Gene: Beagle_27 Start: 14234, Stop: 15961, Start Num: 63

Candidate Starts for Beagle_27:

(40, 14171), (Start: 63 @14234 has 19 MA's), (193, 14843), (267, 15131), (270, 15143), (278, 15173), (307, 15269), (308, 15272), (309, 15275), (318, 15335), (350, 15497), (363, 15557), (364, 15563), (367, 15581), (381, 15644), (402, 15755), (420, 15854),

Gene: BeagleBug_26 Start: 13781, Stop: 15640, Start Num: 38

Candidate Starts for BeagleBug_26:

(Start: 38 @13781 has 58 MA's), (171, 14360), (180, 14405), (187, 14441), (211, 14510), (218, 14531), (219, 14534), (227, 14564), (250, 14684), (264, 14765), (293, 14879), (301, 14906), (333, 15095), (358, 15221), (382, 15335), (384, 15350), (400, 15398), (404, 15428), (406, 15440), (409, 15455), (411, 15470), (420, 15521), (425, 15539), (430, 15557),

Gene: Belphegor_18 Start: 13765, Stop: 15693, Start Num: 45

Candidate Starts for Belphegor_18:

(Start: 45 @13765 has 116 MA's), (102, 13969), (113, 14008), (124, 14092), (152, 14272), (182, 14392), (206, 14485), (235, 14569), (238, 14578), (245, 14629), (249, 14680), (260, 14743), (262, 14749), (274, 14812), (281, 14839), (306, 14926), (351, 15184), (355, 15199), (361, 15223), (373, 15274), (382, 15331), (395, 15427), (397, 15442), (409, 15511), (410, 15523), (417, 15559), (429, 15610),

Gene: BetaFish_26 Start: 14437, Stop: 16164, Start Num: 63

Candidate Starts for BetaFish_26:

(40, 14374), (Start: 63 @14437 has 19 MA's), (193, 15046), (267, 15334), (270, 15346), (278, 15376), (307, 15472), (308, 15475), (309, 15478), (318, 15538), (350, 15700), (363, 15760), (364, 15766), (367, 15784), (381, 15847), (402, 15958), (420, 16057),

Gene: Bibwit_21 Start: 15528, Stop: 17423, Start Num: 45

Candidate Starts for Bibwit_21:

(Start: 45 @15528 has 116 MA's), (111, 15759), (115, 15777), (151, 16032), (182, 16170), (198, 16239), (212, 16272), (260, 16497), (262, 16503), (274, 16566), (277, 16578), (278, 16581), (281, 16593), (306, 16680), (327, 16803), (331, 16839), (361, 16983), (373, 17034), (398, 17178), (399, 17181), (400, 17184), (407, 17232), (417, 17289), (443, 17406),

Gene: Big4_77 Start: 43780, Stop: 45789, Start Num: 9

Candidate Starts for Big4_77:

(Start: 9 @43780 has 8 MA's), (12, 43801), (Start: 38 @43915 has 58 MA's), (46, 43933), (92, 44107), (160, 44488), (179, 44572), (195, 44644), (196, 44647), (279, 44995), (366, 45406), (415, 45676),

Gene: BigHunkinEater_24 Start: 14639, Stop: 16555, Start Num: 45

Candidate Starts for BigHunkinEater_24:

(Start: 45 @14639 has 116 MA's), (107, 14855), (111, 14870), (134, 15044), (163, 15191), (176, 15257), (178, 15263), (190, 15317), (196, 15341), (201, 15365), (257, 15593), (260, 15611), (262, 15617), (274, 15680), (277, 15692), (278, 15695), (281, 15707), (306, 15797), (311, 15824), (341, 15983), (353, 16061), (375, 16157), (417, 16427), (420, 16445), (428, 16475),

Gene: BirdInFrench_24 Start: 12993, Stop: 14771, Start Num: 65

Candidate Starts for BirdInFrench_24:

(Start: 65 @12993 has 11 MA's), (70, 13005), (135, 13350), (161, 13464), (190, 13590), (215, 13656), (229, 13704), (238, 13734), (278, 13947), (304, 14028), (306, 14037), (320, 14115), (322, 14121), (323, 14136), (350, 14280), (358, 14322), (370, 14373), (397, 14520), (399, 14529), (426, 14679), (430, 14691), (442, 14751),

Gene: BirdsNest_17 Start: 10414, Stop: 12351, Start Num: 21

Candidate Starts for BirdsNest_17:

(Start: 21 @10414 has 1 MA's), (23, 10432), (31, 10465), (39, 10501), (Start: 51 @10525 has 5 MA's), (61, 10555), (76, 10597), (145, 10984), (153, 11017), (162, 11062), (178, 11122), (201, 11218), (214, 11245), (253, 11425), (301, 11608), (306, 11650), (317, 11716), (327, 11773), (328, 11776), (346, 11860), (365, 11962), (370, 11983), (394, 12103), (397, 12118), (404, 12160), (409, 12187), (413, 12211), (416, 12229), (427, 12280), (428, 12283), (432, 12301), (437, 12325),

Gene: Bizzy_21 Start: 14750, Stop: 16663, Start Num: 45

Candidate Starts for Bizzy_21:

(Start: 45 @14750 has 116 MA's), (88, 14885), (111, 14981), (151, 15269), (166, 15338), (177, 15386), (182, 15410), (190, 15446), (198, 15479), (206, 15503), (238, 15596), (260, 15737), (262, 15743), (274, 15806), (277, 15818), (278, 15821), (281, 15833), (306, 15920), (327, 16043), (331, 16079), (341, 16112), (351, 16184), (361, 16223), (373, 16274), (397, 16412), (398, 16418), (399, 16421), (407, 16472), (417, 16529), (418, 16541), (421, 16550),

Gene: Blab_23 Start: 13751, Stop: 15577, Start Num: 68

Candidate Starts for Blab_23:

(Start: 68 @13751 has 37 MA's), (70, 13760), (96, 13859), (145, 14186), (190, 14387), (192, 14402), (215, 14462), (229, 14510), (238, 14540), (257, 14654), (258, 14657), (259, 14663), (278, 14756), (304, 14837), (322, 14930), (323, 14945), (330, 14993), (337, 15017), (348, 15065), (350, 15089), (360, 15137), (370, 15179), (396, 15314), (399, 15335), (409, 15395), (421, 15464), (430, 15497),

Gene: Bloom_85 Start: 48235, Stop: 50229, Start Num: 8

Candidate Starts for Bloom_85:

(Start: 8 @48235 has 11 MA's), (Start: 38 @48379 has 58 MA's), (157, 48925), (195, 49090), (199, 49111), (227, 49186), (320, 49615), (377, 49912),

Gene: BlueNGold_86 Start: 42025, Stop: 43677, Start Num: 57

Candidate Starts for BlueNGold_86:

(Start: 57 @42025 has 5 MA's), (100, 42172), (103, 42184), (160, 42451), (221, 42664), (241, 42739), (249, 42790), (256, 42832), (296, 42979), (307, 43030), (311, 43051), (312, 43054), (356, 43285), (366, 43333), (369, 43348), (400, 43486), (414, 43579),

Gene: BobBob_18 Start: 14138, Stop: 16045, Start Num: 45

Candidate Starts for BobBob_18:

(Start: 45 @14138 has 116 MA's), (111, 14369), (115, 14387), (151, 14654), (182, 14792), (198, 14861), (212, 14894), (260, 15119), (262, 15125), (274, 15188), (277, 15200), (278, 15203), (281, 15215), (306, 15302), (315, 15356), (327, 15425), (331, 15461), (361, 15605), (373, 15656), (398, 15800), (399, 15803), (400, 15806), (407, 15854), (417, 15911),

Gene: Boise_16 Start: 11444, Stop: 13249, Start Num: 51

Candidate Starts for Boise_16:

(Start: 51 @11444 has 5 MA's), (Start: 63 @11492 has 19 MA's), (89, 11582), (131, 11834), (134, 11849), (146, 11942), (176, 12053), (178, 12062), (193, 12131), (217, 12176), (231, 12218), (251, 12323), (262, 12380), (278, 12458), (306, 12548), (308, 12557), (323, 12647), (345, 12749), (367, 12866), (381, 12929), (400, 13013), (409, 13070), (410, 13082), (420, 13136),

Gene: BooTeria_78 Start: 44254, Stop: 46257, Start Num: 8

Candidate Starts for BooTeria_78:

(Start: 8 @44254 has 11 MA's), (Start: 20 @44308 has 1 MA's), (157, 44962), (190, 45097), (199, 45139), (227, 45214), (256, 45361), (273, 45448), (278, 45463), (320, 45643),

Gene: Boopy_87 Start: 42037, Stop: 43689, Start Num: 57

Candidate Starts for Boopy_87:

(Start: 57 @42037 has 5 MA's), (100, 42184), (103, 42196), (160, 42463), (221, 42676), (241, 42751), (249, 42802), (256, 42844), (296, 42991), (307, 43042), (311, 43063), (312, 43066), (356, 43297), (366, 43345), (369, 43360), (400, 43498), (414, 43591),

Gene: Brandonk123_22 Start: 14830, Stop: 16737, Start Num: 45

Candidate Starts for Brandonk123_22:

(Start: 45 @14830 has 116 MA's), (111, 15061), (115, 15079), (151, 15346), (182, 15484), (198, 15553), (212, 15586), (260, 15811), (262, 15817), (274, 15880), (277, 15892), (278, 15895), (281, 15907), (306, 15994), (315, 16048), (327, 16117), (331, 16153), (361, 16297), (373, 16348), (398, 16492), (399, 16495), (400, 16498), (407, 16546), (417, 16603),

Gene: Brawn1_18 Start: 14513, Stop: 16420, Start Num: 45

Candidate Starts for Brawn1_18:

(Start: 45 @14513 has 116 MA's), (111, 14744), (115, 14762), (151, 15029), (182, 15167), (198, 15236), (212, 15269), (260, 15494), (262, 15500), (274, 15563), (277, 15575), (278, 15578), (281, 15590), (306, 15677), (315, 15731), (327, 15800), (331, 15836), (361, 15980), (373, 16031), (398, 16175), (399, 16178), (400, 16181), (407, 16229), (417, 16286),

Gene: BrazzalePHS_26 Start: 13795, Stop: 15654, Start Num: 38

Candidate Starts for BrazzalePHS_26:

(Start: 38 @13795 has 58 MA's), (171, 14374), (180, 14419), (187, 14455), (211, 14524), (218, 14545), (219, 14548), (227, 14578), (250, 14698), (264, 14779), (293, 14893), (301, 14920), (333, 15109), (358, 15235), (382, 15349), (384, 15364), (400, 15412), (404, 15442), (406, 15454), (409, 15469), (411, 15484), (420, 15535), (425, 15553), (430, 15571),

Gene: BruhMoment_21 Start: 13658, Stop: 15379, Start Num: 63

Candidate Starts for BruhMoment_21:

(41, 13598), (Start: 63 @13658 has 19 MA's), (176, 14171), (193, 14249), (200, 14264), (270, 14558), (278, 14588), (307, 14684), (308, 14687), (309, 14690), (321, 14759), (345, 14879), (354, 14936), (361, 14963), (367, 14996), (391, 15116), (401, 15170), (405, 15188), (417, 15254), (420, 15272), (428, 15302),

Gene: Busephilis_26 Start: 13734, Stop: 15590, Start Num: 38

Candidate Starts for Busephilis_26:

(Start: 38 @13734 has 58 MA's), (171, 14310), (180, 14355), (187, 14391), (211, 14460), (218, 14481), (219, 14484), (227, 14514), (250, 14634), (264, 14715), (293, 14829), (301, 14856), (333, 15045), (358, 15171), (382, 15285), (384, 15300), (400, 15348), (404, 15378), (406, 15390), (409, 15405), (411, 15420), (420, 15471), (425, 15489), (430, 15507),

Gene: CandC_23 Start: 12598, Stop: 14376, Start Num: 65

Candidate Starts for CandC_23:

(Start: 65 @12598 has 11 MA's), (70, 12610), (135, 12952), (161, 13069), (190, 13195), (229, 13309), (238, 13339), (278, 13552), (304, 13633), (306, 13642), (320, 13720), (322, 13726), (323, 13741), (350, 13885), (358, 13927), (370, 13978), (397, 14125), (399, 14134), (426, 14284), (430, 14296),

Gene: Casend_26 Start: 14462, Stop: 16294, Start Num: 68

Candidate Starts for Casend_26:

(Start: 68 @14462 has 37 MA's), (70, 14471), (96, 14570), (153, 14936), (190, 15104), (192, 15119), (215, 15179), (229, 15227), (231, 15233), (238, 15257), (258, 15374), (259, 15380), (278, 15473), (304, 15554), (322, 15647), (323, 15662), (330, 15710), (337, 15734), (348, 15782), (350, 15806), (360, 15854), (370, 15896), (396, 16031), (397, 16043), (399, 16052), (409, 16112), (421, 16181), (430, 16214),

Gene: Causa_19 Start: 13260, Stop: 15380, Start Num: 67

Candidate Starts for Causa_19:

(Start: 67 @13260 has 2 MA's), (72, 13275), (153, 13725), (169, 13788), (181, 13824), (214, 13926), (253, 14118), (268, 14199), (303, 14313), (317, 14394), (327, 14451), (343, 14514), (346, 14535), (375, 14679), (397, 14793), (404, 14835), (409, 14862), (416, 14904), (428, 14958), (446, 15210),

Gene: Cece_71 Start: 39862, Stop: 41862, Start Num: 9

Candidate Starts for Cece_71:

(Start: 9 @39862 has 8 MA's), (Start: 38 @39997 has 58 MA's), (46, 40015), (52, 40027), (160, 40564), (179, 40648), (190, 40699), (195, 40720), (260, 40984), (279, 41071), (366, 41482), (378, 41548), (415, 41752),

Gene: Cepens_9 Start: 10582, Stop: 12645, Start Num: 71

Candidate Starts for Cepens_9:

(Start: 71 @10582 has 7 MA's), (75, 10594), (82, 10621), (94, 10675), (109, 10723), (127, 10828), (139, 10945), (153, 11017), (185, 11152), (189, 11167), (194, 11191), (204, 11221), (223, 11266), (228, 11287), (250, 11395), (253, 11413), (264, 11482), (266, 11488), (295, 11581), (317, 11707), (323, 11740), (327, 11764), (332, 11794), (343, 11830), (348, 11857), (361, 11932), (370, 11971), (376, 12007), (382, 12037), (398, 12112), (408, 12172), (428, 12271), (430, 12277), (443, 12340), (445, 12496), (447, 12547), (448, 12553), (449, 12637),

Gene: ChadMasterC_20 Start: 15249, Stop: 17144, Start Num: 45

Candidate Starts for ChadMasterC_20:

(Start: 45 @15249 has 116 MA's), (111, 15480), (115, 15498), (151, 15753), (182, 15891), (198, 15960), (212, 15993), (260, 16218), (262, 16224), (274, 16287), (277, 16299), (278, 16302), (281, 16314), (306, 16401), (327, 16524), (331, 16560), (361, 16704), (373, 16755), (398, 16899), (399, 16902), (400, 16905), (407, 16953), (417, 17010),

Gene: Charming_18 Start: 14140, Stop: 16047, Start Num: 45

Candidate Starts for Charming_18:

(Start: 45 @14140 has 116 MA's), (111, 14371), (115, 14389), (151, 14656), (182, 14794), (198, 14863), (212, 14896), (260, 15121), (262, 15127), (274, 15190), (277, 15202), (278, 15205), (281, 15217), (306, 15304), (315, 15358), (327, 15427), (331, 15463), (361, 15607), (373, 15658), (398, 15802), (399, 15805), (400, 15808), (407, 15856), (417, 15913),

Gene: CherryCola_22 Start: 12733, Stop: 14619, Start Num: 45

Candidate Starts for CherryCola_22:

(Start: 45 @12733 has 116 MA's), (112, 12970), (115, 12982), (121, 13036), (153, 13258), (191, 13420), (199, 13453), (262, 13705), (276, 13777), (298, 13834), (301, 13846), (320, 13963), (327, 14008), (328, 14011), (351, 14134), (354, 14146), (367, 14206), (397, 14359), (399, 14368), (410, 14440), (416, 14470), (432, 14542), (437, 14566),

Gene: Chickadee_20 Start: 13744, Stop: 15633, Start Num: 45

Candidate Starts for Chickadee_20:

(42, 13735), (Start: 45 @13744 has 116 MA's), (Start: 68 @13810 has 37 MA's), (111, 13978), (115, 13996), (153, 14269), (177, 14365), (233, 14557), (237, 14572), (249, 14650), (262, 14719), (274,

14782), (277, 14794), (278, 14797), (303, 14881), (306, 14896), (323, 14995), (331, 15049), (351, 15154), (373, 15244), (387, 15325), (397, 15382), (410, 15463), (417, 15499), (432, 15565),

Gene: Chilliamps_78 Start: 50058, Stop: 52049, Start Num: 8

Candidate Starts for Chilliamps_78:

(Start: 8 @50058 has 11 MA's), (28, 50154), (Start: 38 @50202 has 58 MA's), (64, 50283), (129, 50559), (157, 50745), (199, 50931), (227, 51006), (241, 51057), (265, 51204), (278, 51255), (320, 51435), (381, 51747),

Gene: Cinna_22 Start: 13276, Stop: 15141, Start Num: 38

Candidate Starts for Cinna_22:

(Start: 38 @13276 has 58 MA's), (128, 13630), (145, 13756), (178, 13894), (187, 13936), (215, 14017), (218, 14026), (234, 14083), (238, 14095), (260, 14227), (263, 14248), (264, 14254), (293, 14368), (313, 14467), (314, 14485), (333, 14584), (338, 14599), (347, 14641), (355, 14695), (358, 14710), (367, 14752), (373, 14767), (375, 14779), (382, 14824), (397, 14887), (401, 14920),

Gene: ClamChowder_21 Start: 12512, Stop: 14410, Start Num: 45

Candidate Starts for ClamChowder_21:

(Start: 45 @12512 has 116 MA's), (112, 12749), (115, 12761), (121, 12815), (191, 13208), (199, 13241), (212, 13265), (262, 13505), (298, 13634), (301, 13646), (320, 13763), (327, 13808), (328, 13811), (343, 13871), (345, 13889), (351, 13934), (354, 13946), (355, 13949), (360, 13970), (381, 14069), (388, 14108), (399, 14168), (410, 14240), (416, 14270), (420, 14294), (427, 14321), (428, 14324), (433, 14351),

Gene: Clawz_44 Start: 23098, Stop: 24915, Start Num: 44

Candidate Starts for Clawz_44:

(27, 23038), (41, 23092), (Start: 44 @23098 has 1 MA's), (76, 23191), (161, 23647), (169, 23680), (174, 23692), (179, 23716), (202, 23812), (204, 23815), (226, 23872), (260, 24025), (262, 24031), (266, 24058), (275, 24100), (301, 24154), (336, 24358), (337, 24361), (347, 24403), (348, 24406), (355, 24457), (356, 24460), (368, 24514), (373, 24529), (377, 24562), (382, 24586), (405, 24727), (430, 24847), (432, 24859),

Gene: ClearAsMud_29 Start: 14527, Stop: 16377, Start Num: 38

Candidate Starts for ClearAsMud_29:

(Start: 38 @14527 has 58 MA's), (171, 15103), (180, 15148), (187, 15184), (211, 15253), (218, 15274), (219, 15277), (227, 15307), (250, 15427), (301, 15649), (307, 15694), (333, 15838), (365, 15994), (382, 16078), (400, 16141), (404, 16171), (406, 16183), (409, 16198), (411, 16213), (420, 16264), (425, 16282),

Gene: Clown_23 Start: 14522, Stop: 16378, Start Num: 45

Candidate Starts for Clown_23:

(Start: 35 @14495 has 1 MA's), (Start: 45 @14522 has 116 MA's), (55, 14543), (78, 14624), (111, 14756), (115, 14774), (123, 14840), (184, 15146), (199, 15212), (207, 15227), (213, 15239), (262, 15479), (276, 15551), (298, 15608), (301, 15620), (306, 15659), (320, 15737), (325, 15767), (327, 15782), (351, 15908), (354, 15920), (355, 15923), (381, 16043), (382, 16052), (397, 16133), (406, 16187), (410, 16214), (427, 16295), (428, 16298),

Gene: CoveyB_21 Start: 12369, Stop: 14255, Start Num: 45

Candidate Starts for CoveyB_21:

(Start: 45 @12369 has 116 MA's), (112, 12606), (115, 12618), (121, 12672), (153, 12894), (191, 13056), (199, 13089), (262, 13341), (276, 13413), (298, 13470), (301, 13482), (320, 13599), (327, 13644), (328, 13647), (351, 13770), (354, 13782), (367, 13842), (397, 13995), (399, 14004), (410, 14076), (416, 14106), (432, 14178), (437, 14202),

Gene: Cranjis_28 Start: 13958, Stop: 15814, Start Num: 38

Candidate Starts for Cranjis_28:

(Start: 38 @13958 has 58 MA's), (171, 14534), (180, 14579), (187, 14615), (211, 14684), (218, 14705), (219, 14708), (227, 14738), (250, 14858), (264, 14939), (293, 15053), (301, 15080), (333, 15269), (358, 15395), (382, 15509), (384, 15524), (400, 15572), (404, 15602), (406, 15614), (409, 15629), (411, 15644), (420, 15695), (425, 15713), (430, 15731),

Gene: CrazyRich_26 Start: 13768, Stop: 15624, Start Num: 38

Candidate Starts for CrazyRich_26:

(Start: 38 @13768 has 58 MA's), (171, 14344), (180, 14389), (187, 14425), (211, 14494), (218, 14515), (219, 14518), (227, 14548), (250, 14668), (264, 14749), (293, 14863), (301, 14890), (333, 15079), (358, 15205), (382, 15319), (384, 15334), (400, 15382), (404, 15412), (406, 15424), (409, 15439), (411, 15454), (420, 15505), (425, 15523), (430, 15541),

Gene: Cressida_24 Start: 13311, Stop: 15185, Start Num: 38

Candidate Starts for Cressida_24:

(Start: 38 @13311 has 58 MA's), (145, 13797), (155, 13836), (178, 13935), (187, 13977), (215, 14058), (218, 14067), (234, 14124), (238, 14136), (260, 14268), (263, 14289), (264, 14295), (293, 14409), (313, 14508), (314, 14526), (333, 14625), (338, 14640), (347, 14682), (355, 14736), (358, 14751), (367, 14793), (373, 14808), (375, 14820), (382, 14865), (397, 14928), (404, 14970), (410, 15009), (411, 15012), (430, 15099),

Gene: Crisis_28 Start: 13753, Stop: 15609, Start Num: 38

Candidate Starts for Crisis_28:

(Start: 38 @13753 has 58 MA's), (171, 14329), (180, 14374), (187, 14410), (211, 14479), (218, 14500), (219, 14503), (227, 14533), (250, 14653), (264, 14734), (293, 14848), (301, 14875), (333, 15064), (358, 15190), (364, 15214), (382, 15304), (384, 15319), (400, 15367), (404, 15397), (406, 15409), (409, 15424), (411, 15439), (420, 15490), (425, 15508), (430, 15526),

Gene: Danyall_21 Start: 12369, Stop: 14255, Start Num: 45

Candidate Starts for Danyall_21:

(Start: 45 @12369 has 116 MA's), (112, 12606), (115, 12618), (121, 12672), (153, 12894), (191, 13056), (199, 13089), (262, 13341), (276, 13413), (298, 13470), (301, 13482), (320, 13599), (327, 13644), (328, 13647), (351, 13770), (354, 13782), (367, 13842), (397, 13995), (399, 14004), (410, 14076), (416, 14106), (432, 14178), (437, 14202),

Gene: Delrey21_21 Start: 14990, Stop: 16909, Start Num: 45

Candidate Starts for Delrey21_21:

(Start: 45 @14990 has 116 MA's), (78, 15089), (107, 15206), (110, 15218), (111, 15221), (134, 15395), (154, 15509), (163, 15542), (176, 15608), (178, 15614), (190, 15668), (196, 15692), (209, 15728), (257, 15944), (260, 15962), (262, 15968), (274, 16031), (277, 16043), (278, 16046), (281, 16058), (306, 16148), (311, 16175), (341, 16334), (353, 16412), (362, 16448), (375, 16508), (382, 16553), (397, 16664), (401, 16697), (417, 16781), (420, 16799), (428, 16829),

Gene: Derg_16 Start: 14345, Stop: 16255, Start Num: 45

Candidate Starts for Derg_16:

(Start: 45 @14345 has 116 MA's), (88, 14480), (111, 14576), (151, 14861), (166, 14930), (177, 14978), (182, 15002), (190, 15038), (198, 15071), (206, 15095), (238, 15188), (260, 15329), (262, 15335), (274, 15398), (277, 15410), (278, 15413), (281, 15425), (306, 15512), (327, 15635), (331, 15671), (341, 15704), (351, 15776), (361, 15815), (373, 15866), (398, 16010), (399, 16013), (407, 16064), (417, 16121), (418, 16133), (421, 16142),

Gene: Dewdrop_60 Start: 29654, Stop: 31561, Start Num: 38

Candidate Starts for Dewdrop_60:

(4, 29438), (Start: 9 @29510 has 8 MA's), (14, 29543), (15, 29546), (Start: 38 @29654 has 58 MA's), (123, 29993), (141, 30131), (148, 30161), (173, 30269), (182, 30314), (284, 30755), (321, 30929), (326, 30959), (327, 30971), (333, 30998), (347, 31055), (350, 31082), (355, 31109), (362, 31136), (366, 31160), (375, 31202), (379, 31232), (382, 31247), (410, 31391), (428, 31475), (437, 31517),

Gene: Dexdert_21 Start: 14191, Stop: 16077, Start Num: 45

Candidate Starts for Dexdert_21:

(42, 14182), (Start: 45 @14191 has 116 MA's), (Start: 68 @14257 has 37 MA's), (111, 14425), (115, 14443), (153, 14713), (177, 14809), (237, 15016), (249, 15094), (262, 15163), (274, 15226), (277, 15238), (278, 15241), (303, 15325), (306, 15340), (323, 15439), (331, 15493), (351, 15598), (373, 15688), (387, 15769), (397, 15826), (400, 15838), (409, 15895), (410, 15907), (417, 15943), (432, 16009),

Gene: DoctorFroggo_21 Start: 14990, Stop: 16909, Start Num: 45

Candidate Starts for DoctorFroggo_21:

(Start: 45 @14990 has 116 MA's), (78, 15089), (107, 15206), (110, 15218), (111, 15221), (134, 15395), (154, 15509), (163, 15542), (176, 15608), (178, 15614), (190, 15668), (196, 15692), (209, 15728), (257, 15944), (260, 15962), (262, 15968), (274, 16031), (277, 16043), (278, 16046), (281, 16058), (306, 16148), (311, 16175), (341, 16334), (353, 16412), (362, 16448), (375, 16508), (382, 16553), (397, 16664), (401, 16697), (417, 16781), (420, 16799), (428, 16829),

Gene: Dodo_90 Start: 45258, Stop: 47267, Start Num: 9

Candidate Starts for Dodo_90:

(Start: 9 @45258 has 8 MA's), (Start: 38 @45393 has 58 MA's), (46, 45411), (52, 45423), (160, 45966), (279, 46476), (297, 46521), (366, 46887), (378, 46953), (380, 46962), (415, 47157),

Gene: DogYard_26 Start: 14304, Stop: 16031, Start Num: 63

Candidate Starts for DogYard_26:

(40, 14241), (Start: 63 @14304 has 19 MA's), (193, 14913), (267, 15201), (270, 15213), (278, 15243), (307, 15339), (308, 15342), (309, 15345), (318, 15405), (350, 15567), (363, 15627), (364, 15633), (367, 15651), (381, 15714), (402, 15825), (420, 15924),

Gene: DonaldDuck_24 Start: 13808, Stop: 15640, Start Num: 68

Candidate Starts for DonaldDuck_24:

(Start: 68 @13808 has 37 MA's), (70, 13817), (96, 13916), (153, 14282), (190, 14450), (192, 14465), (215, 14525), (229, 14573), (231, 14579), (238, 14603), (258, 14720), (259, 14726), (278, 14819), (304, 14900), (322, 14993), (323, 15008), (330, 15056), (337, 15080), (348, 15128), (350, 15152), (360, 15200), (370, 15242), (396, 15377), (397, 15389), (399, 15398), (409, 15458), (421, 15527), (430, 15560),

Gene: DunneganBoMo_71 Start: 43679, Stop: 45682, Start Num: 8

Candidate Starts for DunneganBoMo_71:

(Start: 8 @43679 has 11 MA's), (Start: 20 @43733 has 1 MA's), (157, 44387), (190, 44522), (199, 44564), (227, 44639), (256, 44786), (273, 44873), (278, 44888), (320, 45068),

Gene: EMoore_16 Start: 13023, Stop: 14942, Start Num: 45

Candidate Starts for EMoore_16:

(Start: 45 @13023 has 116 MA's), (113, 13263), (156, 13551), (235, 13818), (238, 13827), (242, 13845), (245, 13878), (260, 13992), (262, 13998), (274, 14061), (281, 14088), (306, 14175), (340, 14358), (351, 14433), (354, 14445), (361, 14472), (373, 14523), (382, 14580), (397, 14691), (409, 14760), (410, 14772), (417, 14808), (418, 14820), (420, 14826),

Gene: EarickHC_27 Start: 13679, Stop: 15535, Start Num: 38

Candidate Starts for EarickHC_27:

(Start: 38 @13679 has 58 MA's), (171, 14255), (180, 14300), (187, 14336), (211, 14405), (218, 14426), (219, 14429), (227, 14459), (250, 14579), (264, 14660), (293, 14774), (301, 14801), (333, 14990), (358, 15116), (364, 15140), (382, 15230), (384, 15245), (400, 15293), (404, 15323), (406, 15335), (409, 15350), (411, 15365), (420, 15416), (425, 15434), (430, 15452),

Gene: EdmundFerry_19 Start: 13775, Stop: 15661, Start Num: 45

Candidate Starts for EdmundFerry_19:

(42, 13766), (Start: 45 @13775 has 116 MA's), (Start: 68 @13841 has 37 MA's), (111, 14009), (115, 14027), (153, 14297), (177, 14393), (237, 14600), (249, 14678), (262, 14747), (274, 14810), (277, 14822), (278, 14825), (303, 14909), (306, 14924), (323, 15023), (331, 15077), (351, 15182), (373, 15272), (387, 15353), (397, 15410), (400, 15422), (409, 15479), (410, 15491), (417, 15527), (432, 15593),

Gene: Egi03_19 Start: 11979, Stop: 13871, Start Num: 45

Candidate Starts for Egi03_19:

(Start: 45 @11979 has 116 MA's), (112, 12216), (115, 12228), (121, 12282), (153, 12507), (191, 12669), (199, 12702), (213, 12729), (298, 13095), (301, 13107), (320, 13224), (327, 13269), (328, 13272), (343, 13332), (345, 13350), (351, 13395), (354, 13407), (355, 13410), (381, 13530), (388, 13569), (399, 13629), (410, 13701), (416, 13731), (420, 13755), (427, 13782), (428, 13785), (433, 13812),

Gene: Ellewin_70 Start: 43274, Stop: 45277, Start Num: 8

Candidate Starts for Ellewin_70:

(Start: 8 @43274 has 11 MA's), (Start: 20 @43328 has 1 MA's), (157, 43982), (190, 44117), (199, 44159), (227, 44234), (256, 44381), (273, 44468), (278, 44483), (320, 44663),

Gene: Emmetator_74 Start: 44426, Stop: 46429, Start Num: 8

Candidate Starts for Emmetator_74:

(Start: 8 @44426 has 11 MA's), (Start: 20 @44480 has 1 MA's), (157, 45134), (190, 45269), (199, 45311), (227, 45386), (256, 45533), (273, 45620), (278, 45635), (320, 45815),

Gene: Erasmago_79 Start: 41432, Stop: 43444, Start Num: 9

Candidate Starts for Erasmago_79:

(1, 41312), (2, 41318), (7, 41399), (Start: 9 @41432 has 8 MA's), (12, 41453), (Start: 38 @41567 has 58 MA's), (46, 41585), (101, 41795), (113, 41837), (160, 42146), (179, 42230), (195, 42302), (196, 42305), (279, 42653), (366, 43064), (385, 43169), (415, 43334),

Gene: Evamon_19 Start: 11844, Stop: 13742, Start Num: 45

Candidate Starts for Evamon_19:

(Start: 45 @11844 has 116 MA's), (112, 12081), (115, 12093), (121, 12147), (153, 12378), (191, 12540), (199, 12573), (262, 12837), (298, 12966), (301, 12978), (320, 13095), (327, 13140), (328, 13143), (343, 13203), (345, 13221), (349, 13236), (351, 13266), (354, 13278), (355, 13281), (381, 13401), (388, 13440), (399, 13500), (410, 13572), (416, 13602), (420, 13626), (427, 13653), (428, 13656), (433, 13683),

Gene: EverythinBagel_24 Start: 14211, Stop: 16028, Start Num: 68

Candidate Starts for EverythinBagel_24:

(Start: 68 @14211 has 37 MA's), (70, 14220), (96, 14319), (145, 14637), (190, 14838), (192, 14853), (215, 14913), (229, 14961), (238, 14991), (257, 15105), (258, 15108), (259, 15114), (268, 15168), (278, 15207), (304, 15288), (322, 15381), (323, 15396), (330, 15444), (337, 15468), (348, 15516),

(350, 15540), (360, 15588), (370, 15630), (396, 15765), (399, 15786), (406, 15831), (409, 15846),
(421, 15915), (430, 15948),

Gene: Fireball_20 Start: 11982, Stop: 13874, Start Num: 45

Candidate Starts for Fireball_20:

(Start: 45 @11982 has 116 MA's), (112, 12219), (115, 12231), (121, 12285), (153, 12510), (191, 12672), (199, 12705), (213, 12732), (298, 13098), (301, 13110), (320, 13227), (327, 13272), (328, 13275), (343, 13335), (345, 13353), (351, 13398), (354, 13410), (355, 13413), (381, 13533), (388, 13572), (399, 13632), (410, 13704), (416, 13734), (420, 13758), (427, 13785), (428, 13788), (433, 13815),

Gene: Fireman_27 Start: 13483, Stop: 15504, Start Num: 38

Candidate Starts for Fireman_27:

(Start: 38 @13483 has 58 MA's), (171, 14068), (187, 14149), (195, 14173), (211, 14218), (218, 14239), (250, 14392), (289, 14650), (291, 14722), (301, 14782), (303, 14806), (327, 14944), (332, 14968), (333, 14971), (355, 15082), (382, 15211), (384, 15226), (392, 15235), (397, 15262), (400, 15274), (404, 15304), (409, 15331), (430, 15433),

Gene: Fitzgerald_18 Start: 14566, Stop: 16473, Start Num: 45

Candidate Starts for Fitzgerald_18:

(Start: 45 @14566 has 116 MA's), (111, 14797), (115, 14815), (151, 15082), (182, 15220), (198, 15289), (212, 15322), (260, 15547), (262, 15553), (274, 15616), (277, 15628), (278, 15631), (281, 15643), (306, 15730), (327, 15853), (331, 15889), (361, 16033), (373, 16084), (398, 16228), (399, 16231), (400, 16234), (407, 16282), (417, 16339),

Gene: Fizzles_25 Start: 13768, Stop: 15600, Start Num: 68

Candidate Starts for Fizzles_25:

(Start: 68 @13768 has 37 MA's), (69, 13774), (70, 13777), (109, 13915), (190, 14410), (199, 14449), (210, 14470), (229, 14533), (236, 14557), (238, 14563), (258, 14680), (278, 14779), (299, 14821), (304, 14860), (322, 14953), (323, 14968), (330, 15016), (335, 15031), (348, 15088), (350, 15112), (360, 15160), (367, 15196), (373, 15211), (396, 15337), (397, 15349), (399, 15358), (430, 15520),

Gene: Flatwoods_21 Start: 14757, Stop: 16682, Start Num: 45

Candidate Starts for Flatwoods_21:

(Start: 45 @14757 has 116 MA's), (88, 14892), (111, 14988), (151, 15288), (166, 15357), (177, 15405), (182, 15429), (190, 15465), (198, 15498), (206, 15522), (238, 15615), (260, 15756), (262, 15762), (274, 15825), (277, 15837), (278, 15840), (281, 15852), (306, 15939), (327, 16062), (331, 16098), (341, 16131), (351, 16203), (361, 16242), (373, 16293), (397, 16431), (398, 16437), (399, 16440), (407, 16491), (417, 16548), (418, 16560), (421, 16569),

Gene: FloraSnap32_81 Start: 47272, Stop: 49266, Start Num: 8

Candidate Starts for FloraSnap32_81:

(Start: 8 @47272 has 11 MA's), (Start: 38 @47416 has 58 MA's), (157, 47962), (195, 48127), (199, 48148), (227, 48223), (320, 48652), (377, 48949),

Gene: ForDig_10 Start: 9865, Stop: 11721, Start Num: 35

Candidate Starts for ForDig_10:

(Start: 8 @9730 has 11 MA's), (29, 9832), (Start: 30 @9835 has 1 MA's), (Start: 35 @9865 has 1 MA's), (Start: 51 @9898 has 5 MA's), (61, 9931), (69, 9952), (122, 10183), (142, 10363), (178, 10510), (200, 10603), (214, 10633), (224, 10663), (225, 10666), (253, 10804), (259, 10831), (317, 11098), (328, 11158), (337, 11203), (343, 11221), (346, 11242), (361, 11323), (373, 11371), (391, 11470), (399, 11506), (400, 11509), (404, 11539), (408, 11563), (409, 11566), (416, 11608), (430, 11668),

Gene: Forrestell_23 Start: 12942, Stop: 14669, Start Num: 63

Candidate Starts for Forrestell_23:

(40, 12879), (Start: 63 @12942 has 19 MA's), (193, 13551), (257, 13779), (267, 13839), (270, 13851), (278, 13881), (307, 13977), (308, 13980), (309, 13983), (318, 14043), (350, 14205), (361, 14256), (363, 14265), (367, 14289), (381, 14352), (397, 14427), (398, 14433), (400, 14439), (401, 14460), (420, 14562),

Gene: Forza_87 Start: 41953, Stop: 43605, Start Num: 57

Candidate Starts for Forza_87:

(Start: 57 @41953 has 5 MA's), (100, 42100), (103, 42112), (160, 42379), (221, 42592), (241, 42667), (249, 42718), (256, 42760), (296, 42907), (307, 42958), (311, 42979), (312, 42982), (356, 43213), (366, 43261), (369, 43276), (400, 43414), (414, 43507),

Gene: Fosterous_18 Start: 15029, Stop: 16936, Start Num: 45

Candidate Starts for Fosterous_18:

(Start: 45 @15029 has 116 MA's), (111, 15260), (115, 15278), (151, 15545), (182, 15683), (198, 15752), (212, 15785), (260, 16010), (262, 16016), (274, 16079), (277, 16091), (278, 16094), (281, 16106), (306, 16193), (315, 16247), (327, 16316), (331, 16352), (361, 16496), (373, 16547), (398, 16691), (399, 16694), (400, 16697), (407, 16745), (417, 16802),

Gene: FrankDeliGuy_22 Start: 13770, Stop: 15602, Start Num: 68

Candidate Starts for FrankDeliGuy_22:

(Start: 68 @13770 has 37 MA's), (70, 13779), (96, 13878), (153, 14244), (190, 14412), (192, 14427), (215, 14487), (229, 14535), (231, 14541), (238, 14565), (257, 14679), (258, 14682), (259, 14688), (278, 14781), (304, 14862), (322, 14955), (323, 14970), (330, 15018), (337, 15042), (348, 15090), (350, 15114), (360, 15162), (370, 15204), (396, 15339), (399, 15360), (409, 15420), (421, 15489), (430, 15522),

Gene: Fransoyer_27 Start: 13833, Stop: 15662, Start Num: 66

Candidate Starts for Fransoyer_27:

(Start: 66 @13833 has 4 MA's), (70, 13845), (105, 13974), (135, 14202), (138, 14220), (168, 14379), (190, 14463), (215, 14541), (229, 14589), (238, 14619), (257, 14733), (278, 14835), (299, 14877), (304, 14916), (306, 14925), (322, 15009), (323, 15024), (348, 15144), (350, 15168), (358, 15210), (360, 15216), (370, 15258), (396, 15393), (399, 15414), (401, 15438), (405, 15456), (409, 15474), (430, 15576),

Gene: Fregley_25 Start: 13171, Stop: 14949, Start Num: 65

Candidate Starts for Fregley_25:

(Start: 65 @13171 has 11 MA's), (70, 13183), (135, 13525), (161, 13642), (190, 13768), (229, 13882), (238, 13912), (278, 14125), (304, 14206), (306, 14215), (320, 14293), (322, 14299), (323, 14314), (350, 14458), (358, 14500), (370, 14551), (397, 14698), (399, 14707), (426, 14857), (430, 14869),

Gene: FrostedClock_84 Start: 47723, Stop: 49717, Start Num: 8

Candidate Starts for FrostedClock_84:

(Start: 8 @47723 has 11 MA's), (Start: 38 @47867 has 58 MA's), (157, 48413), (195, 48578), (199, 48599), (227, 48674), (320, 49103), (377, 49400),

Gene: FuegoCuervo_23 Start: 14318, Stop: 16225, Start Num: 45

Candidate Starts for FuegoCuervo_23:

(Start: 45 @14318 has 116 MA's), (111, 14549), (115, 14567), (151, 14834), (182, 14972), (198, 15041), (212, 15074), (260, 15299), (262, 15305), (274, 15368), (277, 15380), (278, 15383), (281, 15395), (306, 15482), (327, 15605), (331, 15641), (361, 15785), (373, 15836), (398, 15980), (399, 15983), (400, 15986), (407, 16034), (417, 16091),

Gene: Fugax_21 Start: 12512, Stop: 14410, Start Num: 45

Candidate Starts for Fugax_21:

(Start: 45 @12512 has 116 MA's), (112, 12749), (115, 12761), (121, 12815), (191, 13208), (199, 13241), (212, 13265), (262, 13505), (298, 13634), (301, 13646), (320, 13763), (327, 13808), (328, 13811), (343, 13871), (345, 13889), (351, 13934), (354, 13946), (355, 13949), (360, 13970), (381, 14069), (388, 14108), (399, 14168), (410, 14240), (416, 14270), (420, 14294), (427, 14321), (428, 14324), (433, 14351),

Gene: FuzzBuster_31 Start: 13864, Stop: 15825, Start Num: 16

Candidate Starts for FuzzBuster_31:

(Start: 16 @13864 has 1 MA's), (22, 13891), (43, 13975), (59, 14026), (123, 14296), (173, 14533), (228, 14728), (249, 14842), (305, 15121), (310, 15148), (314, 15175), (319, 15199), (323, 15223), (327, 15247), (328, 15250), (331, 15268), (343, 15307), (355, 15385), (407, 15637), (410, 15658), (433, 15769), (435, 15778),

Gene: GMA2_16 Start: 15295, Stop: 16959, Start Num: 57

Candidate Starts for GMA2_16:

(54, 15280), (Start: 57 @15295 has 5 MA's), (74, 15349), (100, 15442), (103, 15454), (111, 15481), (158, 15718), (160, 15724), (175, 15781), (256, 16114), (312, 16336), (371, 16636), (383, 16696), (414, 16861),

Gene: GTE6_20 Start: 14261, Stop: 16150, Start Num: 45

Candidate Starts for GTE6_20:

(42, 14252), (Start: 45 @14261 has 116 MA's), (Start: 68 @14327 has 37 MA's), (111, 14495), (115, 14513), (153, 14786), (177, 14882), (237, 15089), (249, 15167), (262, 15236), (274, 15299), (277, 15311), (278, 15314), (303, 15398), (306, 15413), (323, 15512), (331, 15566), (351, 15671), (373, 15761), (387, 15842), (397, 15899), (401, 15932), (410, 15980), (417, 16016), (432, 16082),

Gene: Gaea_20 Start: 14451, Stop: 16370, Start Num: 45

Candidate Starts for Gaea_20:

(Start: 45 @14451 has 116 MA's), (88, 14586), (111, 14682), (151, 14976), (166, 15045), (177, 15093), (182, 15117), (190, 15153), (198, 15186), (206, 15210), (238, 15303), (260, 15444), (262, 15450), (274, 15513), (277, 15525), (278, 15528), (281, 15540), (306, 15627), (327, 15750), (331, 15786), (341, 15819), (351, 15891), (361, 15930), (373, 15981), (397, 16119), (398, 16125), (399, 16128), (407, 16179), (417, 16236), (418, 16248), (421, 16257),

Gene: Galadriel_22 Start: 14888, Stop: 16786, Start Num: 45

Candidate Starts for Galadriel_22:

(Start: 45 @14888 has 116 MA's), (111, 15119), (115, 15137), (151, 15395), (182, 15533), (198, 15602), (212, 15635), (260, 15860), (262, 15866), (274, 15929), (277, 15941), (278, 15944), (281, 15956), (306, 16043), (327, 16166), (331, 16202), (361, 16346), (373, 16397), (398, 16541), (399, 16544), (400, 16547), (407, 16595), (417, 16652),

Gene: Ganandorf_26 Start: 13815, Stop: 15671, Start Num: 38

Candidate Starts for Ganandorf_26:

(Start: 38 @13815 has 58 MA's), (171, 14391), (180, 14436), (187, 14472), (211, 14541), (218, 14562), (219, 14565), (227, 14595), (250, 14715), (264, 14796), (293, 14910), (301, 14937), (333, 15126), (358, 15252), (382, 15366), (384, 15381), (400, 15429), (404, 15459), (406, 15471), (409, 15486), (411, 15501), (420, 15552), (425, 15570), (430, 15588),

Gene: Gazebo_24 Start: 14317, Stop: 16143, Start Num: 68

Candidate Starts for Gazebo_24:

(Start: 68 @14317 has 37 MA's), (70, 14326), (96, 14425), (145, 14752), (190, 14953), (192, 14968), (215, 15028), (229, 15076), (238, 15106), (258, 15223), (259, 15229), (278, 15322), (304, 15403), (322, 15496), (323, 15511), (330, 15559), (337, 15583), (348, 15631), (350, 15655), (360, 15703), (370, 15745), (396, 15880), (399, 15901), (409, 15961), (421, 16030), (430, 16063),

Gene: Geodirt_19 Start: 15093, Stop: 17003, Start Num: 45

Candidate Starts for Geodirt_19:

(Start: 45 @15093 has 116 MA's), (111, 15324), (115, 15342), (151, 15612), (182, 15750), (198, 15819), (212, 15852), (260, 16077), (262, 16083), (274, 16146), (277, 16158), (278, 16161), (281, 16173), (306, 16260), (315, 16314), (327, 16383), (331, 16419), (361, 16563), (373, 16614), (398, 16758), (399, 16761), (400, 16764), (407, 16812), (417, 16869),

Gene: Germa_28 Start: 13644, Stop: 15500, Start Num: 38

Candidate Starts for Germa_28:

(Start: 38 @13644 has 58 MA's), (171, 14220), (180, 14265), (187, 14301), (211, 14370), (218, 14391), (219, 14394), (227, 14424), (250, 14544), (264, 14625), (293, 14739), (301, 14766), (333, 14955), (358, 15081), (382, 15195), (384, 15210), (400, 15258), (404, 15288), (406, 15300), (409, 15315), (411, 15330), (420, 15381), (425, 15399), (430, 15417),

Gene: Gezellig_19 Start: 11982, Stop: 13874, Start Num: 45

Candidate Starts for Gezellig_19:

(Start: 45 @11982 has 116 MA's), (112, 12219), (115, 12231), (121, 12285), (153, 12510), (191, 12672), (199, 12705), (213, 12732), (298, 13098), (301, 13110), (320, 13227), (327, 13272), (328, 13275), (343, 13335), (345, 13353), (351, 13398), (354, 13410), (355, 13413), (381, 13533), (388, 13572), (399, 13632), (410, 13704), (416, 13734), (420, 13758), (427, 13785), (428, 13788), (433, 13815),

Gene: Gina_28 Start: 13149, Stop: 15167, Start Num: 38

Candidate Starts for Gina_28:

(Start: 38 @13149 has 58 MA's), (141, 13617), (171, 13731), (178, 13770), (187, 13812), (195, 13836), (211, 13881), (218, 13902), (219, 13905), (224, 13920), (237, 13974), (250, 14055), (262, 14115), (285, 14259), (287, 14277), (301, 14445), (303, 14469), (327, 14607), (333, 14634), (355, 14745), (382, 14874), (384, 14889), (397, 14925), (400, 14937), (404, 14967), (409, 14994), (430, 15096),

Gene: Glorp_28 Start: 13816, Stop: 15672, Start Num: 38

Candidate Starts for Glorp_28:

(Start: 38 @13816 has 58 MA's), (171, 14392), (180, 14437), (187, 14473), (211, 14542), (218, 14563), (219, 14566), (227, 14596), (250, 14716), (264, 14797), (293, 14911), (301, 14938), (333, 15127), (382, 15367), (384, 15382), (400, 15430), (404, 15460), (406, 15472), (409, 15487), (411, 15502), (420, 15553), (425, 15571), (430, 15589),

Gene: GodPhather_10 Start: 10840, Stop: 12903, Start Num: 71

Candidate Starts for GodPhather_10:

(Start: 71 @10840 has 7 MA's), (75, 10852), (82, 10879), (94, 10933), (109, 10981), (127, 11086), (139, 11203), (153, 11275), (185, 11410), (189, 11425), (194, 11449), (204, 11479), (223, 11524), (228, 11545), (250, 11653), (253, 11671), (264, 11740), (266, 11746), (295, 11839), (327, 12022), (332, 12052), (343, 12088), (348, 12115), (370, 12229), (382, 12295), (398, 12370), (408, 12430), (428, 12529), (430, 12535), (443, 12598), (445, 12754), (447, 12805), (448, 12811), (449, 12895),

Gene: GodonK_76 Start: 36704, Stop: 38413, Start Num: 56

Candidate Starts for GodonK_76:

(Start: 56 @36704 has 2 MA's), (62, 36731), (98, 36851), (100, 36860), (106, 36881), (115, 36911), (139, 37100), (160, 37178), (175, 37241), (191, 37319), (236, 37454), (249, 37526), (294, 37712),

(306, 37760), (307, 37766), (312, 37790), (314, 37811), (315, 37814), (339, 37922), (343, 37940), (361, 38042), (366, 38069), (393, 38189), (401, 38243), (431, 38384),

Gene: GoldenEssence_67 Start: 42028, Stop: 44022, Start Num: 8

Candidate Starts for GoldenEssence_67:

(Start: 8 @42028 has 11 MA's), (Start: 38 @42172 has 58 MA's), (157, 42718), (195, 42883), (199, 42904), (227, 42979), (320, 43408), (377, 43705),

Gene: Grassboy_26 Start: 14484, Stop: 16316, Start Num: 68

Candidate Starts for Grassboy_26:

(Start: 68 @14484 has 37 MA's), (70, 14493), (96, 14592), (145, 14925), (190, 15126), (192, 15141), (215, 15201), (229, 15249), (238, 15279), (258, 15396), (259, 15402), (278, 15495), (304, 15576), (322, 15669), (323, 15684), (330, 15732), (337, 15756), (348, 15804), (350, 15828), (360, 15876), (370, 15918), (396, 16053), (399, 16074), (406, 16119), (409, 16134), (421, 16203), (430, 16236),

Gene: Gustavo_20 Start: 14562, Stop: 16469, Start Num: 45

Candidate Starts for Gustavo_20:

(Start: 45 @14562 has 116 MA's), (88, 14697), (111, 14793), (151, 15075), (166, 15144), (177, 15192), (182, 15216), (190, 15252), (198, 15285), (206, 15309), (238, 15402), (260, 15543), (262, 15549), (274, 15612), (277, 15624), (278, 15627), (281, 15639), (306, 15726), (327, 15849), (331, 15885), (351, 15990), (361, 16029), (373, 16080), (397, 16218), (398, 16224), (399, 16227), (407, 16278), (417, 16335), (418, 16347), (421, 16356),

Gene: Halo3_20 Start: 12297, Stop: 14195, Start Num: 45

Candidate Starts for Halo3_20:

(Start: 45 @12297 has 116 MA's), (112, 12534), (115, 12546), (121, 12600), (191, 12993), (199, 13026), (262, 13290), (298, 13419), (301, 13431), (305, 13467), (320, 13548), (327, 13593), (328, 13596), (343, 13656), (351, 13719), (354, 13731), (355, 13734), (388, 13893), (399, 13953), (410, 14025), (416, 14055), (420, 14079), (427, 14106), (428, 14109),

Gene: Hans_23 Start: 15322, Stop: 17238, Start Num: 45

Candidate Starts for Hans_23:

(Start: 45 @15322 has 116 MA's), (102, 15523), (124, 15646), (151, 15814), (166, 15880), (182, 15937), (235, 16114), (238, 16123), (245, 16174), (249, 16225), (260, 16288), (262, 16294), (274, 16357), (281, 16384), (306, 16471), (311, 16498), (340, 16654), (351, 16729), (355, 16744), (361, 16768), (367, 16801), (373, 16819), (382, 16876), (397, 16987), (409, 17056), (410, 17068), (417, 17104), (432, 17170),

Gene: Hashim76_17 Start: 10808, Stop: 12628, Start Num: 51

Candidate Starts for Hashim76_17:

(39, 10784), (Start: 51 @10808 has 5 MA's), (61, 10838), (76, 10880), (94, 10952), (145, 11261), (153, 11294), (162, 11339), (178, 11399), (201, 11495), (214, 11522), (253, 11702), (301, 11885), (306, 11927), (317, 11993), (327, 12050), (328, 12053), (346, 12137), (365, 12239), (368, 12254), (370, 12260), (394, 12380), (397, 12395), (404, 12437), (409, 12464), (413, 12488), (416, 12506), (427, 12557), (428, 12560), (432, 12578),

Gene: Hendrix_57 Start: 29698, Stop: 31632, Start Num: 38

Candidate Starts for Hendrix_57:

(Start: 38 @29698 has 58 MA's), (107, 29935), (148, 30232), (173, 30343), (219, 30505), (247, 30619), (326, 31033), (327, 31045), (333, 31072), (347, 31129), (350, 31156), (355, 31183), (358, 31198), (373, 31264), (437, 31591),

Gene: Hermeonysus_26 Start: 13684, Stop: 15543, Start Num: 38

Candidate Starts for Hermeonysus_26:

(Start: 38 @13684 has 58 MA's), (171, 14263), (180, 14308), (187, 14344), (211, 14413), (218, 14434), (219, 14437), (227, 14467), (250, 14587), (264, 14668), (293, 14782), (301, 14809), (333, 14998), (358, 15124), (382, 15238), (384, 15253), (400, 15301), (404, 15331), (406, 15343), (409, 15358), (411, 15373), (420, 15424), (425, 15442), (430, 15460),

Gene: Hive_26 Start: 14318, Stop: 16045, Start Num: 63

Candidate Starts for Hive_26:

(40, 14255), (Start: 63 @14318 has 19 MA's), (193, 14927), (267, 15215), (270, 15227), (278, 15257), (307, 15353), (308, 15356), (309, 15359), (318, 15419), (350, 15581), (363, 15641), (364, 15647), (367, 15665), (381, 15728), (402, 15839), (420, 15938),

Gene: Honeyfin_28 Start: 14000, Stop: 15859, Start Num: 38

Candidate Starts for Honeyfin_28:

(Start: 38 @14000 has 58 MA's), (171, 14579), (180, 14624), (187, 14660), (211, 14729), (218, 14750), (219, 14753), (227, 14783), (250, 14903), (264, 14984), (293, 15098), (301, 15125), (333, 15314), (358, 15440), (382, 15554), (384, 15569), (400, 15617), (404, 15647), (406, 15659), (409, 15674), (411, 15689), (420, 15740), (425, 15758), (430, 15776),

Gene: Hosp_08 Start: 8037, Stop: 9935, Start Num: 30

Candidate Starts for Hosp_08:

(Start: 8 @7932 has 11 MA's), (29, 8034), (Start: 30 @8037 has 1 MA's), (Start: 35 @8067 has 1 MA's), (Start: 51 @8100 has 5 MA's), (61, 8133), (69, 8154), (122, 8385), (142, 8568), (178, 8715), (200, 8808), (214, 8838), (224, 8868), (253, 9009), (259, 9036), (317, 9303), (328, 9363), (331, 9387), (337, 9408), (346, 9447), (361, 9528), (373, 9576), (388, 9657), (391, 9675), (399, 9711), (400, 9714), (404, 9744), (408, 9768), (409, 9771), (413, 9795), (416, 9813), (430, 9873), (432, 9885), (437, 9909),

Gene: Hyperion_24 Start: 14277, Stop: 16103, Start Num: 68

Candidate Starts for Hyperion_24:

(Start: 68 @14277 has 37 MA's), (70, 14286), (96, 14385), (145, 14712), (190, 14913), (192, 14928), (215, 14988), (229, 15036), (238, 15066), (258, 15183), (259, 15189), (278, 15282), (304, 15363), (322, 15456), (323, 15471), (330, 15519), (337, 15543), (348, 15591), (350, 15615), (360, 15663), (370, 15705), (396, 15840), (399, 15861), (409, 15921), (421, 15990), (430, 16023),

Gene: Indlovu_12 Start: 11120, Stop: 12970, Start Num: 51

Candidate Starts for Indlovu_12:

(32, 11063), (Start: 51 @11120 has 5 MA's), (64, 11174), (84, 11234), (126, 11441), (153, 11651), (169, 11723), (178, 11756), (200, 11849), (214, 11879), (230, 11933), (253, 12050), (258, 12071), (283, 12197), (300, 12230), (317, 12344), (327, 12401), (328, 12404), (336, 12446), (343, 12467), (346, 12488), (361, 12569), (397, 12743), (404, 12785), (405, 12794), (408, 12809), (409, 12812), (412, 12830), (416, 12854), (420, 12878),

Gene: Inspectinfecti_22 Start: 15744, Stop: 17663, Start Num: 45

Candidate Starts for Inspectinfecti_22:

(Start: 45 @15744 has 116 MA's), (102, 15945), (124, 16068), (151, 16239), (163, 16284), (166, 16305), (182, 16362), (235, 16539), (238, 16548), (245, 16599), (249, 16650), (260, 16713), (262, 16719), (274, 16782), (281, 16809), (306, 16896), (311, 16923), (319, 16971), (340, 17079), (351, 17154), (355, 17169), (361, 17193), (367, 17226), (373, 17244), (382, 17301), (397, 17412), (409, 17481), (410, 17493), (417, 17529), (432, 17595),

Gene: JKSyngboy_19 Start: 15221, Stop: 17128, Start Num: 45

Candidate Starts for JKSyngboy_19:

(Start: 45 @15221 has 116 MA's), (88, 15356), (95, 15389), (111, 15452), (151, 15734), (166, 15803), (177, 15851), (182, 15875), (198, 15944), (206, 15968), (238, 16061), (260, 16202), (262, 16208), (274, 16271), (277, 16283), (278, 16286), (281, 16298), (306, 16385), (327, 16508), (331, 16544), (341, 16577), (351, 16649), (361, 16688), (373, 16739), (398, 16883), (399, 16886), (407, 16937), (417, 16994), (418, 17006), (421, 17015),

Gene: Jabberwocky_18 Start: 15000, Stop: 16907, Start Num: 45

Candidate Starts for Jabberwocky_18:

(Start: 45 @15000 has 116 MA's), (111, 15231), (115, 15249), (151, 15516), (182, 15654), (198, 15723), (212, 15756), (260, 15981), (262, 15987), (274, 16050), (277, 16062), (278, 16065), (281, 16077), (306, 16164), (315, 16218), (327, 16287), (331, 16323), (361, 16467), (373, 16518), (398, 16662), (399, 16665), (400, 16668), (407, 16716), (417, 16773),

Gene: Jambalaya_19 Start: 11635, Stop: 13521, Start Num: 45

Candidate Starts for Jambalaya_19:

(Start: 45 @11635 has 116 MA's), (112, 11872), (115, 11884), (121, 11938), (191, 12319), (199, 12352), (213, 12379), (298, 12745), (301, 12757), (320, 12874), (327, 12919), (328, 12922), (343, 12982), (345, 13000), (351, 13045), (354, 13057), (355, 13060), (381, 13180), (388, 13219), (399, 13279), (410, 13351), (416, 13381), (420, 13405), (427, 13432), (428, 13435), (433, 13462),

Gene: Jayden_28 Start: 13519, Stop: 15375, Start Num: 38

Candidate Starts for Jayden_28:

(Start: 38 @13519 has 58 MA's), (97, 13699), (171, 14092), (178, 14131), (180, 14137), (187, 14173), (211, 14242), (218, 14263), (219, 14266), (250, 14416), (301, 14638), (303, 14662), (327, 14800), (333, 14827), (355, 14938), (358, 14953), (382, 15067), (384, 15082), (392, 15091), (397, 15118), (400, 15130), (403, 15157), (404, 15160), (411, 15202),

Gene: Jefe_27 Start: 13737, Stop: 15596, Start Num: 38

Candidate Starts for Jefe_27:

(Start: 38 @13737 has 58 MA's), (171, 14316), (180, 14361), (187, 14397), (211, 14466), (218, 14487), (219, 14490), (227, 14520), (250, 14640), (264, 14721), (293, 14835), (301, 14862), (333, 15051), (358, 15177), (382, 15291), (384, 15306), (400, 15354), (404, 15384), (406, 15396), (409, 15411), (411, 15426), (420, 15477), (425, 15495), (430, 15513),

Gene: Jehoshaphat_27 Start: 14727, Stop: 16559, Start Num: 68

Candidate Starts for Jehoshaphat_27:

(Start: 68 @14727 has 37 MA's), (70, 14736), (96, 14835), (153, 15201), (190, 15369), (192, 15384), (215, 15444), (229, 15492), (231, 15498), (238, 15522), (258, 15639), (259, 15645), (278, 15738), (304, 15819), (322, 15912), (323, 15927), (330, 15975), (337, 15999), (348, 16047), (350, 16071), (360, 16119), (370, 16161), (396, 16296), (397, 16308), (399, 16317), (409, 16377), (421, 16446), (430, 16479),

Gene: Jeon_9 Start: 10570, Stop: 12633, Start Num: 71

Candidate Starts for Jeon_9:

(Start: 71 @10570 has 7 MA's), (75, 10582), (82, 10609), (94, 10663), (109, 10711), (127, 10816), (139, 10933), (153, 11005), (185, 11140), (189, 11155), (194, 11179), (204, 11209), (223, 11254), (228, 11275), (250, 11383), (253, 11401), (264, 11470), (266, 11476), (295, 11569), (327, 11752), (332, 11782), (343, 11818), (348, 11845), (370, 11959), (382, 12025), (398, 12100), (408, 12160), (428, 12259), (430, 12265), (443, 12328), (445, 12484), (447, 12535), (448, 12541), (449, 12625),

Gene: JohnPork_19 Start: 11883, Stop: 13769, Start Num: 45

Candidate Starts for JohnPork_19:

(Start: 45 @11883 has 116 MA's), (112, 12120), (115, 12132), (121, 12186), (191, 12567), (199, 12600), (213, 12627), (298, 12993), (301, 13005), (320, 13122), (327, 13167), (328, 13170), (343, 13230), (345, 13248), (351, 13293), (354, 13305), (355, 13308), (381, 13428), (388, 13467), (399, 13527), (410, 13599), (416, 13629), (420, 13653), (427, 13680), (428, 13683), (433, 13710),

Gene: Jolie1_010 Start: 9835, Stop: 11718, Start Num: 30

Candidate Starts for Jolie1_010:

(Start: 8 @9730 has 11 MA's), (29, 9832), (Start: 30 @9835 has 1 MA's), (Start: 35 @9865 has 1 MA's), (Start: 51 @9898 has 5 MA's), (61, 9931), (69, 9952), (122, 10183), (132, 10270), (142, 10360), (178, 10507), (200, 10600), (214, 10630), (224, 10660), (225, 10663), (253, 10801), (259, 10828), (317, 11095), (328, 11155), (337, 11200), (343, 11218), (346, 11239), (361, 11320), (373, 11368), (391, 11467), (399, 11503), (400, 11506), (404, 11536), (408, 11560), (409, 11563), (416, 11605), (430, 11665),

Gene: Jollipop_27 Start: 14085, Stop: 15941, Start Num: 38

Candidate Starts for Jollipop_27:

(Start: 38 @14085 has 58 MA's), (171, 14661), (180, 14706), (187, 14742), (211, 14811), (218, 14832), (219, 14835), (227, 14865), (250, 14985), (264, 15066), (293, 15180), (301, 15207), (333, 15396), (358, 15522), (382, 15636), (384, 15651), (400, 15699), (404, 15729), (406, 15741), (409, 15756), (411, 15771), (420, 15822), (425, 15840), (430, 15858),

Gene: Judebell_27 Start: 14268, Stop: 16100, Start Num: 68

Candidate Starts for Judebell_27:

(Start: 68 @14268 has 37 MA's), (70, 14277), (96, 14376), (153, 14742), (190, 14910), (192, 14925), (215, 14985), (229, 15033), (231, 15039), (238, 15063), (257, 15177), (258, 15180), (259, 15186), (278, 15279), (304, 15360), (322, 15453), (323, 15468), (330, 15516), (337, 15540), (348, 15588), (350, 15612), (360, 15660), (370, 15702), (396, 15837), (399, 15858), (409, 15918), (421, 15987), (430, 16020),

Gene: KSunshine22_76 Start: 44913, Stop: 46916, Start Num: 8

Candidate Starts for KSunshine22_76:

(Start: 8 @44913 has 11 MA's), (Start: 20 @44967 has 1 MA's), (157, 45621), (190, 45756), (199, 45798), (227, 45873), (256, 46020), (273, 46107), (278, 46122), (320, 46302),

Gene: KaiHaiDragon_27 Start: 13679, Stop: 15535, Start Num: 38

Candidate Starts for KaiHaiDragon_27:

(Start: 38 @13679 has 58 MA's), (171, 14255), (180, 14300), (187, 14336), (211, 14405), (218, 14426), (219, 14429), (227, 14459), (250, 14579), (264, 14660), (293, 14774), (301, 14801), (333, 14990), (358, 15116), (364, 15140), (382, 15230), (384, 15245), (400, 15293), (404, 15323), (406, 15335), (409, 15350), (411, 15365), (420, 15416), (425, 15434), (430, 15452),

Gene: Kamashten_21 Start: 15684, Stop: 17591, Start Num: 45

Candidate Starts for Kamashten_21:

(Start: 45 @15684 has 116 MA's), (111, 15915), (115, 15933), (151, 16200), (182, 16338), (198, 16407), (212, 16440), (260, 16665), (262, 16671), (274, 16734), (277, 16746), (278, 16749), (281, 16761), (306, 16848), (315, 16902), (327, 16971), (331, 17007), (361, 17151), (373, 17202), (398, 17346), (399, 17349), (400, 17352), (407, 17400), (417, 17457),

Gene: KayaCho_10 Start: 9838, Stop: 11730, Start Num: 30

Candidate Starts for KayaCho_10:

(Start: 8 @9733 has 11 MA's), (29, 9835), (Start: 30 @9838 has 1 MA's), (Start: 35 @9868 has 1 MA's), (Start: 51 @9901 has 5 MA's), (61, 9934), (69, 9955), (122, 10186), (142, 10369), (178, 10516), (200, 10609), (214, 10639), (224, 10669), (225, 10672), (253, 10810), (259, 10837), (317, 11104),

(328, 11164), (337, 11209), (346, 11248), (361, 11329), (373, 11377), (391, 11476), (399, 11512), (400, 11515), (404, 11545), (408, 11569), (409, 11572), (416, 11614), (430, 11674),

Gene: Keitabear_22 Start: 17233, Stop: 19128, Start Num: 45

Candidate Starts for Keitabear_22:

(Start: 45 @17233 has 116 MA's), (111, 17464), (115, 17482), (151, 17737), (182, 17875), (198, 17944), (212, 17977), (260, 18202), (262, 18208), (277, 18283), (278, 18286), (281, 18298), (298, 18334), (306, 18385), (327, 18508), (331, 18544), (361, 18688), (373, 18739), (398, 18883), (399, 18886), (400, 18889), (407, 18937), (417, 18994), (443, 19111),

Gene: Kelcole_23 Start: 13023, Stop: 14801, Start Num: 65

Candidate Starts for Kelcole_23:

(Start: 65 @13023 has 11 MA's), (70, 13035), (135, 13377), (161, 13494), (190, 13620), (229, 13734), (238, 13764), (278, 13977), (304, 14058), (306, 14067), (320, 14145), (322, 14151), (323, 14166), (350, 14310), (358, 14352), (370, 14403), (397, 14550), (399, 14559), (426, 14709), (430, 14721),

Gene: Kewpiedoll_21 Start: 15069, Stop: 16979, Start Num: 45

Candidate Starts for Kewpiedoll_21:

(Start: 45 @15069 has 116 MA's), (111, 15300), (115, 15318), (151, 15588), (182, 15726), (198, 15795), (212, 15828), (260, 16053), (262, 16059), (274, 16122), (277, 16134), (278, 16137), (281, 16149), (306, 16236), (327, 16359), (331, 16395), (361, 16539), (373, 16590), (398, 16734), (399, 16737), (400, 16740), (407, 16788), (417, 16845),

Gene: KillerQueen_25 Start: 12845, Stop: 14623, Start Num: 65

Candidate Starts for KillerQueen_25:

(Start: 65 @12845 has 11 MA's), (70, 12857), (135, 13199), (161, 13316), (190, 13442), (229, 13556), (238, 13586), (278, 13799), (304, 13880), (306, 13889), (320, 13967), (322, 13973), (323, 13988), (350, 14132), (358, 14174), (370, 14225), (397, 14372), (399, 14381), (426, 14531), (430, 14543),

Gene: KimmyK_21 Start: 12512, Stop: 14410, Start Num: 45

Candidate Starts for KimmyK_21:

(Start: 45 @12512 has 116 MA's), (112, 12749), (115, 12761), (121, 12815), (191, 13208), (199, 13241), (212, 13265), (262, 13505), (298, 13634), (301, 13646), (320, 13763), (327, 13808), (328, 13811), (343, 13871), (345, 13889), (351, 13934), (354, 13946), (355, 13949), (360, 13970), (381, 14069), (388, 14108), (399, 14168), (410, 14240), (416, 14270), (420, 14294), (427, 14321), (428, 14324), (433, 14351),

Gene: Kithara_25 Start: 14593, Stop: 16431, Start Num: 37

Candidate Starts for Kithara_25:

(Start: 37 @14593 has 2 MA's), (50, 14623), (108, 14836), (144, 15118), (233, 15439), (254, 15559), (276, 15661), (323, 15850), (344, 15946), (347, 15958), (375, 16096), (382, 16141), (406, 16249), (416, 16306), (417, 16312), (421, 16333),

Gene: Knocker_17 Start: 13813, Stop: 15774, Start Num: 20

Candidate Starts for Knocker_17:

(10, 13765), (Start: 20 @13813 has 1 MA's), (31, 13861), (Start: 51 @13918 has 5 MA's), (64, 13966), (83, 14026), (85, 14041), (104, 14113), (125, 14230), (201, 14641), (206, 14650), (215, 14671), (222, 14692), (224, 14698), (253, 14848), (259, 14875), (280, 14977), (283, 14995), (301, 15034), (311, 15103), (314, 15127), (317, 15142), (336, 15244), (346, 15286), (361, 15367), (365, 15388), (373, 15415), (381, 15463), (382, 15472), (388, 15496), (391, 15514), (394, 15526), (397, 15541), (399, 15550), (400, 15553), (404, 15583), (407, 15601), (409, 15610), (412, 15628), (416, 15652), (430, 15712), (432, 15724),

Gene: Kowalski_26 Start: 13795, Stop: 15651, Start Num: 38

Candidate Starts for Kowalski_26:

(Start: 38 @13795 has 58 MA's), (171, 14371), (180, 14416), (187, 14452), (211, 14521), (218, 14542), (219, 14545), (227, 14575), (250, 14695), (264, 14776), (293, 14890), (301, 14917), (333, 15106), (382, 15346), (384, 15361), (400, 15409), (404, 15439), (406, 15451), (409, 15466), (411, 15481), (420, 15532), (425, 15550), (430, 15568),

Gene: Kozi_23 Start: 13272, Stop: 15131, Start Num: 38

Candidate Starts for Kozi_23:

(Start: 38 @13272 has 58 MA's), (149, 13767), (187, 13923), (218, 14013), (262, 14220), (293, 14355), (307, 14427), (314, 14472), (327, 14544), (331, 14565), (333, 14571), (347, 14628), (355, 14682), (364, 14721), (365, 14727), (375, 14766), (380, 14799), (430, 15045),

Gene: Kroos_21 Start: 15314, Stop: 17227, Start Num: 45

Candidate Starts for Kroos_21:

(Start: 45 @15314 has 116 MA's), (88, 15449), (111, 15545), (151, 15833), (166, 15902), (177, 15950), (182, 15974), (190, 16010), (198, 16043), (206, 16067), (238, 16160), (260, 16301), (262, 16307), (274, 16370), (277, 16382), (278, 16385), (281, 16397), (306, 16484), (327, 16607), (331, 16643), (341, 16676), (351, 16748), (361, 16787), (373, 16838), (397, 16976), (398, 16982), (399, 16985), (407, 17036), (417, 17093), (418, 17105), (421, 17114),

Gene: Kubulix_27 Start: 14427, Stop: 16154, Start Num: 63

Candidate Starts for Kubulix_27:

(40, 14364), (Start: 63 @14427 has 19 MA's), (193, 15036), (267, 15324), (270, 15336), (278, 15366), (307, 15462), (308, 15465), (309, 15468), (318, 15528), (350, 15690), (363, 15750), (364, 15756), (367, 15774), (381, 15837), (402, 15948), (420, 16047),

Gene: Kwekel_20 Start: 13711, Stop: 15594, Start Num: 45

Candidate Starts for Kwekel_20:

(42, 13702), (Start: 45 @13711 has 116 MA's), (111, 13945), (115, 13963), (153, 14233), (177, 14329), (237, 14536), (249, 14614), (260, 14677), (262, 14683), (274, 14746), (277, 14758), (278, 14761), (303, 14845), (306, 14860), (331, 15013), (351, 15118), (373, 15208), (387, 15289), (397, 15346), (409, 15415), (410, 15427), (417, 15463), (432, 15529),

Gene: Kwobi_22 Start: 15290, Stop: 17209, Start Num: 45

Candidate Starts for Kwobi_22:

(Start: 45 @15290 has 116 MA's), (88, 15425), (111, 15521), (151, 15815), (166, 15884), (177, 15932), (182, 15956), (190, 15992), (198, 16025), (206, 16049), (238, 16142), (260, 16283), (262, 16289), (274, 16352), (277, 16364), (278, 16367), (281, 16379), (306, 16466), (327, 16589), (331, 16625), (341, 16658), (351, 16730), (361, 16769), (373, 16820), (397, 16958), (398, 16964), (399, 16967), (407, 17018), (417, 17075), (418, 17087), (421, 17096),

Gene: Kyva_27 Start: 14519, Stop: 16351, Start Num: 68

Candidate Starts for Kyva_27:

(Start: 68 @14519 has 37 MA's), (70, 14528), (96, 14627), (145, 14960), (190, 15161), (192, 15176), (215, 15236), (229, 15284), (238, 15314), (258, 15431), (259, 15437), (278, 15530), (304, 15611), (322, 15704), (323, 15719), (330, 15767), (337, 15791), (348, 15839), (350, 15863), (360, 15911), (370, 15953), (396, 16088), (399, 16109), (406, 16154), (409, 16169), (421, 16238), (430, 16271),

Gene: Laure_83 Start: 47867, Stop: 49807, Start Num: 8

Candidate Starts for Laure_83:

(Start: 8 @47867 has 11 MA's), (Start: 38 @48011 has 58 MA's), (157, 48521), (199, 48695), (265, 48968), (273, 49004), (278, 49019), (320, 49199), (354, 49376),

Gene: Leaf_60 Start: 29654, Stop: 31561, Start Num: 38

Candidate Starts for Leaf_60:

(4, 29438), (Start: 9 @29510 has 8 MA's), (14, 29543), (15, 29546), (Start: 38 @29654 has 58 MA's), (123, 29993), (141, 30131), (148, 30161), (173, 30269), (182, 30314), (284, 30755), (321, 30929), (326, 30959), (327, 30971), (333, 30998), (347, 31055), (350, 31082), (355, 31109), (362, 31136), (366, 31160), (375, 31202), (379, 31232), (382, 31247), (410, 31391), (428, 31475), (437, 31517),

Gene: Lennon_22 Start: 16336, Stop: 18231, Start Num: 45

Candidate Starts for Lennon_22:

(Start: 45 @16336 has 116 MA's), (111, 16567), (115, 16585), (151, 16840), (182, 16978), (198, 17047), (212, 17080), (260, 17305), (262, 17311), (274, 17374), (277, 17386), (278, 17389), (281, 17401), (306, 17488), (327, 17611), (331, 17647), (361, 17791), (373, 17842), (398, 17986), (399, 17989), (400, 17992), (407, 18040), (417, 18097), (443, 18214),

Gene: LeoJr_81 Start: 46939, Stop: 48948, Start Num: 8

Candidate Starts for LeoJr_81:

(Start: 8 @46939 has 11 MA's), (157, 47653), (190, 47788), (199, 47830), (240, 47953), (247, 47974), (273, 48139), (278, 48154), (320, 48334), (401, 48760),

Gene: Leonard_21 Start: 15339, Stop: 17258, Start Num: 45

Candidate Starts for Leonard_21:

(Start: 45 @15339 has 116 MA's), (102, 15540), (124, 15663), (151, 15834), (163, 15879), (166, 15900), (182, 15957), (220, 16083), (235, 16134), (238, 16143), (245, 16194), (249, 16245), (260, 16308), (262, 16314), (274, 16377), (281, 16404), (306, 16491), (340, 16674), (351, 16749), (355, 16764), (361, 16788), (367, 16821), (373, 16839), (382, 16896), (397, 17007), (409, 17076), (410, 17088), (417, 17124), (432, 17190),

Gene: LilHam_18 Start: 13869, Stop: 15788, Start Num: 45

Candidate Starts for LilHam_18:

(Start: 45 @13869 has 116 MA's), (88, 14004), (111, 14100), (151, 14394), (166, 14463), (177, 14511), (182, 14535), (190, 14571), (198, 14604), (206, 14628), (238, 14721), (260, 14862), (262, 14868), (274, 14931), (277, 14943), (278, 14946), (281, 14958), (306, 15045), (327, 15168), (331, 15204), (341, 15237), (351, 15309), (361, 15348), (373, 15399), (398, 15543), (399, 15546), (407, 15597), (417, 15654), (418, 15666), (421, 15675),

Gene: LilMcDreamy_13 Start: 12145, Stop: 13986, Start Num: 37

Candidate Starts for LilMcDreamy_13:

(Start: 37 @12145 has 2 MA's), (58, 12181), (61, 12199), (76, 12232), (87, 12271), (92, 12298), (144, 12613), (153, 12649), (169, 12724), (178, 12757), (193, 12826), (200, 12850), (201, 12853), (206, 12862), (214, 12880), (222, 12904), (253, 13063), (258, 13084), (301, 13246), (313, 13321), (317, 13354), (327, 13411), (328, 13414), (340, 13465), (343, 13474), (352, 13540), (365, 13597), (382, 13684), (398, 13759), (400, 13765), (404, 13795), (409, 13822), (416, 13864), (420, 13888), (432, 13936),

Gene: Lilbeanie_18 Start: 10655, Stop: 12583, Start Num: 45

Candidate Starts for Lilbeanie_18:

(33, 10613), (Start: 45 @10655 has 116 MA's), (78, 10754), (107, 10871), (111, 10886), (151, 11204), (213, 11441), (227, 11489), (262, 11672), (305, 11846), (323, 11948), (327, 11972), (354, 12107), (372, 12179), (373, 12185), (390, 12287), (392, 12299), (405, 12377), (417, 12443), (420, 12461), (427, 12488),

Gene: LittleFortune_28 Start: 14042, Stop: 15901, Start Num: 38

Candidate Starts for LittleFortune_28:

(Start: 38 @14042 has 58 MA's), (171, 14621), (180, 14666), (187, 14702), (211, 14771), (218, 14792), (219, 14795), (227, 14825), (250, 14945), (264, 15026), (293, 15140), (301, 15167), (333, 15356), (358, 15482), (382, 15596), (384, 15611), (400, 15659), (404, 15689), (409, 15716), (411, 15731), (420, 15782), (425, 15800), (430, 15818),

Gene: Llemily_24 Start: 13503, Stop: 15335, Start Num: 68

Candidate Starts for Llemily_24:

(Start: 68 @13503 has 37 MA's), (70, 13512), (96, 13611), (153, 13977), (190, 14145), (192, 14160), (215, 14220), (229, 14268), (231, 14274), (238, 14298), (258, 14415), (259, 14421), (278, 14514), (304, 14595), (322, 14688), (323, 14703), (330, 14751), (337, 14775), (348, 14823), (350, 14847), (360, 14895), (370, 14937), (396, 15072), (397, 15084), (399, 15093), (409, 15153), (421, 15222), (430, 15255),

Gene: Lonelysoil_24 Start: 13748, Stop: 15580, Start Num: 68

Candidate Starts for Lonelysoil_24:

(Start: 68 @13748 has 37 MA's), (70, 13757), (96, 13856), (153, 14222), (190, 14390), (192, 14405), (215, 14465), (229, 14513), (231, 14519), (238, 14543), (258, 14660), (259, 14666), (278, 14759), (304, 14840), (322, 14933), (323, 14948), (330, 14996), (337, 15020), (348, 15068), (350, 15092), (360, 15140), (370, 15182), (396, 15317), (397, 15329), (399, 15338), (409, 15398), (421, 15467), (430, 15500),

Gene: Love_22 Start: 15199, Stop: 17106, Start Num: 45

Candidate Starts for Love_22:

(Start: 45 @15199 has 116 MA's), (111, 15430), (115, 15448), (151, 15715), (182, 15853), (198, 15922), (212, 15955), (260, 16180), (262, 16186), (274, 16249), (277, 16261), (278, 16264), (281, 16276), (306, 16363), (315, 16417), (327, 16486), (331, 16522), (361, 16666), (373, 16717), (398, 16861), (399, 16864), (400, 16867), (407, 16915), (417, 16972),

Gene: Lucretia_27 Start: 13732, Stop: 15588, Start Num: 38

Candidate Starts for Lucretia_27:

(Start: 38 @13732 has 58 MA's), (171, 14308), (180, 14353), (187, 14389), (211, 14458), (218, 14479), (219, 14482), (227, 14512), (250, 14632), (264, 14713), (293, 14827), (301, 14854), (333, 15043), (358, 15169), (382, 15283), (384, 15298), (400, 15346), (404, 15376), (406, 15388), (409, 15403), (411, 15418), (420, 15469), (425, 15487), (430, 15505),

Gene: Maih_13 Start: 13750, Stop: 15444, Start Num: 90

Candidate Starts for Maih_13:

(Start: 90 @13750 has 12 MA's), (91, 13759), (120, 13861), (133, 13993), (135, 14017), (153, 14113), (167, 14194), (179, 14239), (181, 14248), (188, 14281), (195, 14308), (196, 14311), (217, 14359), (226, 14392), (227, 14395), (237, 14434), (239, 14440), (250, 14518), (256, 14551), (275, 14641), (306, 14731), (317, 14797), (320, 14809), (321, 14812), (343, 14929), (349, 14962), (354, 15004), (379, 15121), (399, 15217), (408, 15274), (419, 15337), (421, 15343), (430, 15376), (434, 15400), (440, 15418), (444, 15433),

Gene: Makar_45 Start: 23158, Stop: 24975, Start Num: 44

Candidate Starts for Makar_45:

(27, 23098), (41, 23152), (Start: 44 @23158 has 1 MA's), (76, 23251), (161, 23707), (169, 23740), (174, 23752), (179, 23776), (202, 23872), (204, 23875), (226, 23932), (260, 24085), (262, 24091), (266, 24118), (275, 24160), (336, 24418), (337, 24421), (347, 24463), (348, 24466), (355, 24517), (356, 24520), (368, 24574), (373, 24589), (377, 24622), (382, 24646), (405, 24787), (430, 24907), (432, 24919),

Gene: Marcie_29 Start: 13698, Stop: 15482, Start Num: 65

Candidate Starts for Marcie_29:

(Start: 65 @13698 has 11 MA's), (70, 13710), (135, 14058), (161, 14175), (190, 14301), (215, 14367), (229, 14415), (238, 14445), (278, 14658), (304, 14739), (306, 14748), (320, 14826), (322, 14832), (323, 14847), (350, 14991), (358, 15033), (370, 15084), (397, 15231), (399, 15240), (430, 15402),

Gene: Mareelih_85 Start: 41455, Stop: 43107, Start Num: 57

Candidate Starts for Mareelih_85:

(Start: 57 @41455 has 5 MA's), (100, 41602), (103, 41614), (160, 41881), (221, 42094), (241, 42169), (249, 42220), (256, 42262), (296, 42409), (307, 42460), (311, 42481), (312, 42484), (356, 42715), (366, 42763), (369, 42778), (400, 42916), (414, 43009),

Gene: Margaery_22 Start: 13234, Stop: 15096, Start Num: 38

Candidate Starts for Margaery_22:

(17, 13135), (Start: 38 @13234 has 58 MA's), (128, 13588), (171, 13807), (178, 13846), (187, 13888), (218, 13978), (238, 14047), (263, 14200), (293, 14320), (314, 14437), (333, 14536), (338, 14551), (347, 14593), (355, 14647), (365, 14692), (367, 14704), (373, 14719), (375, 14731), (397, 14839), (401, 14872), (411, 14923), (424, 14989),

Gene: Mashley_23 Start: 14088, Stop: 15914, Start Num: 68

Candidate Starts for Mashley_23:

(Start: 68 @14088 has 37 MA's), (70, 14097), (96, 14196), (145, 14523), (190, 14724), (192, 14739), (215, 14799), (229, 14847), (238, 14877), (258, 14994), (259, 15000), (278, 15093), (304, 15174), (322, 15267), (323, 15282), (330, 15330), (337, 15354), (348, 15402), (350, 15426), (360, 15474), (370, 15516), (396, 15651), (399, 15672), (409, 15732), (421, 15801), (430, 15834),

Gene: Matzah_23 Start: 13253, Stop: 15118, Start Num: 38

Candidate Starts for Matzah_23:

(Start: 38 @13253 has 58 MA's), (128, 13607), (145, 13733), (178, 13871), (187, 13913), (215, 13994), (218, 14003), (234, 14060), (238, 14072), (260, 14204), (263, 14225), (264, 14231), (293, 14345), (313, 14444), (314, 14462), (333, 14561), (338, 14576), (347, 14618), (355, 14672), (358, 14687), (367, 14729), (373, 14744), (375, 14756), (382, 14801), (397, 14864), (401, 14897),

Gene: McCrothy_21 Start: 15065, Stop: 16975, Start Num: 45

Candidate Starts for McCrothy_21:

(Start: 45 @15065 has 116 MA's), (111, 15296), (115, 15314), (151, 15584), (182, 15722), (198, 15791), (212, 15824), (260, 16049), (262, 16055), (274, 16118), (277, 16130), (278, 16133), (281, 16145), (306, 16232), (327, 16355), (331, 16391), (361, 16535), (373, 16586), (398, 16730), (399, 16733), (400, 16736), (407, 16784), (417, 16841),

Gene: McKinley_21 Start: 15222, Stop: 17132, Start Num: 45

Candidate Starts for McKinley_21:

(Start: 45 @15222 has 116 MA's), (111, 15453), (115, 15471), (151, 15741), (182, 15879), (198, 15948), (212, 15981), (260, 16206), (262, 16212), (274, 16275), (277, 16287), (278, 16290), (281, 16302), (306, 16389), (327, 16512), (331, 16548), (361, 16692), (373, 16743), (398, 16887), (399, 16890), (400, 16893), (407, 16941), (417, 16998),

Gene: Megabear_9 Start: 10537, Stop: 12588, Start Num: 71

Candidate Starts for Megabear_9:

(Start: 71 @10537 has 7 MA's), (75, 10549), (82, 10576), (94, 10630), (109, 10678), (127, 10783), (139, 10888), (153, 10960), (185, 11095), (189, 11110), (194, 11134), (204, 11164), (223, 11209), (228, 11230), (250, 11338), (253, 11356), (264, 11425), (266, 11431), (271, 11455), (295, 11524), (317, 11650), (323, 11683), (327, 11707), (332, 11737), (343, 11773), (348, 11800), (361, 11875),

(370, 11914), (382, 11980), (398, 12055), (408, 12115), (428, 12214), (430, 12220), (443, 12283), (445, 12439), (447, 12490), (448, 12496), (449, 12580),

Gene: Megan_21 Start: 14855, Stop: 16870, Start Num: 38

Candidate Starts for Megan_21:

(5, 14651), (6, 14660), (11, 14723), (13, 14741), (34, 14843), (Start: 38 @14855 has 58 MA's), (102, 15056), (171, 15434), (180, 15479), (187, 15515), (211, 15584), (218, 15605), (219, 15608), (224, 15623), (250, 15758), (253, 15773), (288, 16007), (290, 16076), (301, 16148), (327, 16310), (328, 16313), (332, 16334), (345, 16388), (355, 16448), (365, 16493), (367, 16505), (380, 16565), (382, 16577), (400, 16640), (404, 16670), (409, 16697), (427, 16790), (428, 16793), (430, 16799), (438, 16838),

Gene: MelBins_22 Start: 15543, Stop: 17459, Start Num: 45

Candidate Starts for MelBins_22:

(Start: 45 @15543 has 116 MA's), (102, 15744), (124, 15867), (151, 16035), (166, 16101), (182, 16158), (235, 16335), (238, 16344), (245, 16395), (249, 16446), (260, 16509), (262, 16515), (274, 16578), (281, 16605), (306, 16692), (340, 16875), (351, 16950), (355, 16965), (361, 16989), (367, 17022), (373, 17040), (382, 17097), (397, 17208), (409, 17277), (410, 17289), (417, 17325), (432, 17391),

Gene: MellowYellow_23 Start: 12969, Stop: 14696, Start Num: 63

Candidate Starts for MellowYellow_23:

(40, 12906), (Start: 63 @12969 has 19 MA's), (193, 13578), (257, 13806), (267, 13866), (270, 13878), (278, 13908), (307, 14004), (308, 14007), (309, 14010), (318, 14070), (350, 14232), (361, 14283), (363, 14292), (367, 14316), (381, 14379), (397, 14454), (398, 14460), (400, 14466), (401, 14487), (420, 14589),

Gene: MementoMori_23 Start: 12969, Stop: 14840, Start Num: 38

Candidate Starts for MementoMori_23:

(Start: 38 @12969 has 58 MA's), (145, 13452), (172, 13560), (178, 13590), (187, 13632), (215, 13713), (218, 13722), (234, 13779), (238, 13791), (260, 13923), (263, 13944), (264, 13950), (293, 14064), (313, 14163), (314, 14181), (333, 14280), (338, 14295), (347, 14337), (355, 14391), (358, 14406), (367, 14448), (373, 14463), (375, 14475), (382, 14520), (397, 14583), (401, 14616), (430, 14754),

Gene: Mentos_29 Start: 15175, Stop: 17001, Start Num: 68

Candidate Starts for Mentos_29:

(Start: 68 @15175 has 37 MA's), (70, 15184), (96, 15283), (145, 15610), (190, 15811), (192, 15826), (215, 15886), (229, 15934), (238, 15964), (258, 16081), (259, 16087), (278, 16180), (304, 16261), (322, 16354), (323, 16369), (330, 16417), (337, 16441), (348, 16489), (350, 16513), (360, 16561), (370, 16603), (396, 16738), (399, 16759), (409, 16819), (421, 16888), (430, 16921),

Gene: Merry_ Start: 13998, Stop: 15890, Start Num: 26

Candidate Starts for Merry_:

(18, 13962), (19, 13968), (24, 13995), (Start: 26 @13998 has 2 MA's), (Start: 38 @14052 has 58 MA's), (123, 14373), (171, 14610), (180, 14655), (187, 14691), (211, 14760), (218, 14781), (219, 14784), (232, 14835), (240, 14868), (250, 14934), (264, 15015), (301, 15156), (328, 15321), (333, 15345), (358, 15471), (382, 15585), (384, 15600), (397, 15636), (400, 15648), (404, 15678), (406, 15690), (409, 15705), (434, 15831),

Gene: Metamorphoo_27 Start: 13469, Stop: 15490, Start Num: 38

Candidate Starts for Metamorphoo_27:

(Start: 38 @13469 has 58 MA's), (171, 14054), (187, 14135), (195, 14159), (211, 14204), (218, 14225), (219, 14228), (250, 14378), (286, 14588), (289, 14636), (291, 14708), (301, 14768), (303, 14792),

(327, 14930), (332, 14954), (333, 14957), (355, 15068), (382, 15197), (384, 15212), (392, 15221), (397, 15248), (400, 15260), (404, 15290), (409, 15317), (425, 15401), (430, 15419),

Gene: Mila11_28 Start: 15055, Stop: 16887, Start Num: 68

Candidate Starts for Mila11_28:

(Start: 68 @15055 has 37 MA's), (70, 15064), (96, 15163), (153, 15529), (190, 15697), (192, 15712), (215, 15772), (229, 15820), (231, 15826), (238, 15850), (257, 15964), (258, 15967), (259, 15973), (278, 16066), (304, 16147), (322, 16240), (323, 16255), (330, 16303), (337, 16327), (348, 16375), (350, 16399), (360, 16447), (370, 16489), (396, 16624), (397, 16636), (399, 16645), (409, 16705), (421, 16774), (430, 16807),

Gene: Mimi_81 Start: 47582, Stop: 49576, Start Num: 8

Candidate Starts for Mimi_81:

(Start: 8 @47582 has 11 MA's), (Start: 38 @47726 has 58 MA's), (157, 48272), (195, 48437), (199, 48458), (227, 48533), (320, 48962), (377, 49259),

Gene: Mischief19_14 Start: 15652, Stop: 17313, Start Num: 90

Candidate Starts for Mischief19_14:

(Start: 90 @15652 has 12 MA's), (114, 15730), (133, 15895), (142, 15976), (162, 16060), (182, 16147), (191, 16189), (196, 16204), (214, 16243), (216, 16249), (217, 16252), (226, 16285), (250, 16411), (256, 16444), (260, 16465), (272, 16525), (303, 16609), (316, 16684), (320, 16702), (349, 16837), (354, 16879), (379, 16996), (394, 17065), (400, 17095),

Gene: MisoSoup_18 Start: 9688, Stop: 11541, Start Num: 43

Candidate Starts for MisoSoup_18:

(43, 9688), (60, 9739), (150, 10183), (173, 10249), (183, 10300), (205, 10375), (263, 10639), (314, 10891), (323, 10939), (327, 10963), (331, 10984), (347, 11047), (373, 11173), (397, 11293), (404, 11335), (410, 11374),

Gene: MoontowerMania_19 Start: 14205, Stop: 16112, Start Num: 45

Candidate Starts for MoontowerMania_19:

(Start: 45 @14205 has 116 MA's), (111, 14436), (115, 14454), (151, 14721), (182, 14859), (198, 14928), (212, 14961), (260, 15186), (262, 15192), (274, 15255), (277, 15267), (278, 15270), (281, 15282), (306, 15369), (315, 15423), (327, 15492), (331, 15528), (361, 15672), (373, 15723), (398, 15867), (399, 15870), (400, 15873), (407, 15921), (417, 15978),

Gene: MorillMayhem_25 Start: 14081, Stop: 15913, Start Num: 68

Candidate Starts for MorillMayhem_25:

(Start: 68 @14081 has 37 MA's), (70, 14090), (96, 14189), (153, 14555), (190, 14723), (192, 14738), (215, 14798), (229, 14846), (231, 14852), (238, 14876), (257, 14990), (258, 14993), (259, 14999), (278, 15092), (304, 15173), (322, 15266), (323, 15281), (330, 15329), (337, 15353), (348, 15401), (350, 15425), (360, 15473), (370, 15515), (396, 15650), (397, 15662), (399, 15671), (409, 15731), (421, 15800), (430, 15833),

Gene: Mutzi_21 Start: 12236, Stop: 14134, Start Num: 45

Candidate Starts for Mutzi_21:

(Start: 45 @12236 has 116 MA's), (112, 12473), (115, 12485), (121, 12539), (191, 12932), (199, 12965), (212, 12989), (262, 13229), (301, 13370), (320, 13487), (327, 13532), (328, 13535), (343, 13595), (351, 13658), (388, 13832), (399, 13892), (400, 13895), (410, 13964), (416, 13994), (420, 14018), (427, 14045), (428, 14048),

Gene: Namago_25 Start: 13649, Stop: 15481, Start Num: 68

Candidate Starts for Namago_25:

(Start: 68 @13649 has 37 MA's), (70, 13658), (96, 13757), (145, 14090), (190, 14291), (192, 14306), (215, 14366), (229, 14414), (238, 14444), (258, 14561), (259, 14567), (278, 14660), (304, 14741), (322, 14834), (323, 14849), (330, 14897), (337, 14921), (348, 14969), (350, 14993), (360, 15041), (370, 15083), (396, 15218), (399, 15239), (406, 15284), (409, 15299), (421, 15368), (430, 15401),

Gene: Natkenzie_21 Start: 15527, Stop: 17449, Start Num: 45

Candidate Starts for Natkenzie_21:

(Start: 45 @15527 has 116 MA's), (107, 15743), (111, 15758), (134, 15932), (160, 16070), (163, 16079), (176, 16148), (178, 16154), (190, 16208), (196, 16232), (257, 16484), (260, 16502), (262, 16508), (274, 16571), (277, 16583), (278, 16586), (281, 16598), (306, 16688), (311, 16715), (341, 16874), (353, 16952), (375, 17048), (381, 17084), (397, 17204), (401, 17237), (417, 17321), (427, 17366),

Gene: Nicole72_22 Start: 15232, Stop: 17253, Start Num: 38

Candidate Starts for Nicole72_22:

(34, 15220), (Start: 38 @15232 has 58 MA's), (102, 15433), (119, 15505), (171, 15817), (180, 15862), (187, 15898), (211, 15967), (218, 15988), (228, 16024), (250, 16141), (259, 16186), (262, 16201), (301, 16531), (327, 16693), (328, 16696), (332, 16717), (355, 16831), (367, 16888), (380, 16948), (382, 16960), (400, 17023), (404, 17053), (427, 17173), (428, 17176), (430, 17182), (438, 17221),

Gene: Nikan_21 Start: 13481, Stop: 15208, Start Num: 63

Candidate Starts for Nikan_21:

(40, 13418), (48, 13433), (Start: 63 @13481 has 19 MA's), (84, 13547), (193, 14087), (270, 14390), (278, 14420), (307, 14516), (308, 14519), (309, 14522), (318, 14582), (350, 14744), (361, 14795), (367, 14828), (381, 14891), (400, 14978), (402, 15002), (409, 15035), (426, 15125),

Gene: Nike_25 Start: 14547, Stop: 16379, Start Num: 68

Candidate Starts for Nike_25:

(Start: 68 @14547 has 37 MA's), (70, 14556), (96, 14655), (153, 15021), (190, 15189), (192, 15204), (215, 15264), (229, 15312), (231, 15318), (238, 15342), (258, 15459), (259, 15465), (278, 15558), (304, 15639), (322, 15732), (323, 15747), (330, 15795), (337, 15819), (348, 15867), (350, 15891), (360, 15939), (370, 15981), (396, 16116), (397, 16128), (399, 16137), (409, 16197), (421, 16266), (430, 16299),

Gene: NoodlelyBoi_27 Start: 14134, Stop: 15984, Start Num: 38

Candidate Starts for NoodlelyBoi_27:

(Start: 38 @14134 has 58 MA's), (171, 14710), (180, 14755), (187, 14791), (211, 14860), (218, 14881), (219, 14884), (227, 14914), (250, 15034), (293, 15229), (301, 15256), (307, 15301), (333, 15445), (365, 15601), (382, 15685), (400, 15748), (404, 15778), (406, 15790), (409, 15805), (411, 15820), (420, 15871), (425, 15889),

Gene: Nordenberg_15 Start: 13519, Stop: 15426, Start Num: 45

Candidate Starts for Nordenberg_15:

(Start: 45 @13519 has 116 MA's), (111, 13750), (115, 13768), (151, 14035), (182, 14173), (198, 14242), (212, 14275), (260, 14500), (262, 14506), (274, 14569), (277, 14581), (278, 14584), (281, 14596), (306, 14683), (327, 14806), (331, 14842), (361, 14986), (373, 15037), (397, 15175), (398, 15181), (399, 15184), (400, 15187), (407, 15235), (417, 15292),

Gene: Nubi_19 Start: 11864, Stop: 13762, Start Num: 45

Candidate Starts for Nubi_19:

(Start: 45 @11864 has 116 MA's), (112, 12101), (115, 12113), (121, 12167), (153, 12398), (191, 12560), (199, 12593), (262, 12857), (298, 12986), (301, 12998), (320, 13115), (327, 13160), (328, 13163), (343, 13223), (345, 13241), (349, 13256), (351, 13286), (354, 13298), (355, 13301), (381,

13421), (388, 13460), (399, 13520), (410, 13592), (416, 13622), (420, 13646), (427, 13673), (428, 13676), (433, 13703),

Gene: NyleyClemson_21 Start: 12914, Stop: 14641, Start Num: 63

Candidate Starts for NyleyClemson_21:

(40, 12851), (Start: 63 @12914 has 19 MA's), (193, 13523), (267, 13811), (270, 13823), (278, 13853), (307, 13949), (308, 13952), (309, 13955), (318, 14015), (350, 14177), (361, 14228), (363, 14237), (367, 14261), (381, 14324), (397, 14399), (398, 14405), (400, 14411), (401, 14432), (420, 14534),

Gene: Odyssey395_28 Start: 14429, Stop: 16156, Start Num: 63

Candidate Starts for Odyssey395_28:

(40, 14366), (Start: 63 @14429 has 19 MA's), (193, 15038), (259, 15275), (267, 15326), (270, 15338), (278, 15368), (307, 15464), (308, 15467), (309, 15470), (318, 15530), (350, 15692), (363, 15752), (364, 15758), (367, 15776), (381, 15839), (402, 15950), (420, 16049),

Gene: Ollypop_24 Start: 13443, Stop: 15170, Start Num: 63

Candidate Starts for Ollypop_24:

(40, 13380), (48, 13395), (Start: 63 @13443 has 19 MA's), (84, 13509), (140, 13833), (170, 13953), (193, 14049), (270, 14352), (278, 14382), (307, 14478), (308, 14481), (309, 14484), (318, 14544), (350, 14706), (361, 14757), (367, 14790), (381, 14853), (400, 14940), (405, 14979), (409, 14997),

Gene: OneinaGillian_24 Start: 12673, Stop: 14451, Start Num: 65

Candidate Starts for OneinaGillian_24:

(Start: 65 @12673 has 11 MA's), (70, 12685), (135, 13027), (161, 13144), (190, 13270), (229, 13384), (238, 13414), (278, 13627), (304, 13708), (306, 13717), (320, 13795), (322, 13801), (323, 13816), (350, 13960), (358, 14002), (370, 14053), (397, 14200), (399, 14209), (426, 14359), (430, 14371), (442, 14431),

Gene: Onika_26 Start: 13769, Stop: 15625, Start Num: 38

Candidate Starts for Onika_26:

(Start: 38 @13769 has 58 MA's), (171, 14345), (180, 14390), (187, 14426), (211, 14495), (218, 14516), (219, 14519), (227, 14549), (250, 14669), (264, 14750), (293, 14864), (301, 14891), (333, 15080), (358, 15206), (382, 15320), (384, 15335), (400, 15383), (404, 15413), (406, 15425), (409, 15440), (411, 15455), (420, 15506), (425, 15524), (430, 15542),

Gene: PR_09 Start: 10537, Stop: 12600, Start Num: 71

Candidate Starts for PR_09:

(Start: 71 @10537 has 7 MA's), (75, 10549), (82, 10576), (94, 10630), (109, 10678), (127, 10783), (139, 10900), (153, 10972), (185, 11107), (194, 11146), (204, 11176), (223, 11221), (228, 11242), (250, 11350), (253, 11368), (264, 11437), (266, 11443), (271, 11467), (295, 11536), (323, 11695), (327, 11719), (332, 11749), (343, 11785), (348, 11812), (361, 11887), (370, 11926), (376, 11962), (382, 11992), (398, 12067), (408, 12127), (428, 12226), (430, 12232), (443, 12295), (445, 12451), (447, 12502), (448, 12508), (449, 12592),

Gene: Panchaali_74 Start: 44604, Stop: 46667, Start Num: 8

Candidate Starts for Panchaali_74:

(Start: 8 @44604 has 11 MA's), (Start: 20 @44658 has 1 MA's), (157, 45372), (190, 45507), (199, 45549), (278, 45873), (320, 46053),

Gene: Paries_21 Start: 14887, Stop: 16794, Start Num: 45

Candidate Starts for Paries_21:

(Start: 45 @14887 has 116 MA's), (111, 15118), (115, 15136), (151, 15403), (182, 15541), (198, 15610), (212, 15643), (260, 15868), (262, 15874), (274, 15937), (277, 15949), (278, 15952), (281,

15964), (306, 16051), (315, 16105), (327, 16174), (331, 16210), (361, 16354), (373, 16405), (398, 16549), (399, 16552), (400, 16555), (407, 16603), (417, 16660),

Gene: Paschalis_26 Start: 13783, Stop: 15639, Start Num: 38

Candidate Starts for Paschalis_26:

(Start: 38 @13783 has 58 MA's), (171, 14359), (180, 14404), (187, 14440), (211, 14509), (218, 14530), (219, 14533), (227, 14563), (250, 14683), (264, 14764), (293, 14878), (301, 14905), (333, 15094), (382, 15334), (384, 15349), (400, 15397), (404, 15427), (406, 15439), (409, 15454), (411, 15469), (420, 15520), (425, 15538), (430, 15556),

Gene: Patbob_80 Start: 48454, Stop: 50448, Start Num: 8

Candidate Starts for Patbob_80:

(Start: 8 @48454 has 11 MA's), (Start: 38 @48598 has 58 MA's), (157, 49144), (195, 49309), (199, 49330), (227, 49405), (320, 49834), (377, 50131),

Gene: PauloDiaboli_88 Start: 44293, Stop: 46302, Start Num: 9

Candidate Starts for PauloDiaboli_88:

(Start: 9 @44293 has 8 MA's), (Start: 38 @44428 has 58 MA's), (46, 44446), (52, 44458), (160, 45001), (279, 45511), (297, 45556), (366, 45922), (378, 45988), (380, 45997), (415, 46192),

Gene: PenguinLover67_15 Start: 12281, Stop: 14140, Start Num: 51

Candidate Starts for PenguinLover67_15:

(31, 12224), (Start: 51 @12281 has 5 MA's), (79, 12374), (84, 12386), (117, 12518), (144, 12770), (153, 12806), (169, 12875), (201, 13004), (206, 13013), (215, 13034), (225, 13064), (246, 13154), (253, 13211), (259, 13238), (306, 13436), (309, 13448), (317, 13502), (327, 13559), (340, 13616), (343, 13625), (346, 13646), (361, 13727), (365, 13748), (370, 13766), (397, 13901), (404, 13943), (405, 13952), (409, 13970), (416, 14012), (428, 14066), (437, 14108), (441, 14123),

Gene: Pepe25_23 Start: 13010, Stop: 14788, Start Num: 65

Candidate Starts for Pepe25_23:

(Start: 65 @13010 has 11 MA's), (70, 13022), (135, 13367), (161, 13481), (190, 13607), (215, 13673), (229, 13721), (238, 13751), (278, 13964), (304, 14045), (306, 14054), (320, 14132), (322, 14138), (323, 14153), (350, 14297), (358, 14339), (370, 14390), (397, 14537), (399, 14546), (426, 14696), (430, 14708),

Gene: Phabia_25 Start: 13921, Stop: 15753, Start Num: 68

Candidate Starts for Phabia_25:

(Start: 68 @13921 has 37 MA's), (70, 13930), (96, 14029), (153, 14395), (190, 14563), (192, 14578), (215, 14638), (229, 14686), (231, 14692), (238, 14716), (258, 14833), (259, 14839), (278, 14932), (304, 15013), (322, 15106), (323, 15121), (330, 15169), (337, 15193), (348, 15241), (350, 15265), (360, 15313), (370, 15355), (396, 15490), (397, 15502), (399, 15511), (409, 15571), (421, 15640), (430, 15673),

Gene: Phauci_14 Start: 11906, Stop: 13825, Start Num: 45

Candidate Starts for Phauci_14:

(Start: 45 @11906 has 116 MA's), (102, 12107), (124, 12230), (151, 12401), (163, 12446), (166, 12467), (182, 12524), (235, 12701), (238, 12710), (245, 12761), (249, 12812), (260, 12875), (262, 12881), (274, 12944), (281, 12971), (306, 13058), (340, 13241), (351, 13316), (355, 13331), (361, 13355), (367, 13388), (373, 13406), (382, 13463), (397, 13574), (409, 13643), (410, 13655), (417, 13691), (432, 13757),

Gene: PhedwardCullen_26 Start: 13528, Stop: 15384, Start Num: 38

Candidate Starts for PhedwardCullen_26:

(Start: 38 @13528 has 58 MA's), (171, 14104), (180, 14149), (187, 14185), (211, 14254), (218, 14275), (219, 14278), (227, 14308), (250, 14428), (264, 14509), (293, 14623), (301, 14650), (333, 14839), (358, 14965), (382, 15079), (384, 15094), (400, 15142), (404, 15172), (406, 15184), (409, 15199), (411, 15214), (420, 15265), (425, 15283), (430, 15301),

Gene: Phendrix_74 Start: 36572, Stop: 38281, Start Num: 56

Candidate Starts for Phendrix_74:

(Start: 56 @36572 has 2 MA's), (62, 36599), (98, 36719), (100, 36728), (106, 36749), (115, 36779), (139, 36968), (160, 37046), (175, 37109), (191, 37187), (236, 37322), (249, 37394), (294, 37580), (306, 37628), (307, 37634), (312, 37658), (314, 37679), (315, 37682), (339, 37790), (343, 37808), (361, 37910), (366, 37937), (393, 38057), (401, 38111), (431, 38252),

Gene: Phinally_21 Start: 15336, Stop: 17255, Start Num: 45

Candidate Starts for Phinally_21:

(Start: 45 @15336 has 116 MA's), (102, 15537), (124, 15660), (151, 15831), (163, 15876), (166, 15897), (182, 15954), (220, 16080), (235, 16131), (238, 16140), (245, 16191), (249, 16242), (260, 16305), (262, 16311), (274, 16374), (281, 16401), (306, 16488), (340, 16671), (351, 16746), (355, 16761), (361, 16785), (367, 16818), (373, 16836), (382, 16893), (397, 17004), (409, 17073), (410, 17085), (417, 17121), (432, 17187),

Gene: Phinky_31 Start: 14788, Stop: 16635, Start Num: 66

Candidate Starts for Phinky_31:

(Start: 66 @14788 has 4 MA's), (70, 14797), (81, 14833), (122, 15022), (190, 15442), (197, 15469), (229, 15565), (238, 15595), (278, 15811), (299, 15853), (303, 15886), (304, 15892), (306, 15901), (314, 15952), (322, 15985), (323, 16000), (350, 16144), (358, 16186), (360, 16192), (370, 16237), (382, 16303), (396, 16372), (397, 16384), (399, 16393), (409, 16453), (428, 16549), (430, 16555),

Gene: Phlop_19 Start: 11937, Stop: 13826, Start Num: 45

Candidate Starts for Phlop_19:

(Start: 45 @11937 has 116 MA's), (112, 12174), (115, 12186), (121, 12240), (153, 12465), (191, 12627), (199, 12660), (212, 12684), (262, 12912), (276, 12984), (298, 13041), (320, 13170), (327, 13215), (328, 13218), (351, 13341), (354, 13353), (367, 13413), (397, 13566), (399, 13575), (410, 13647), (416, 13677), (427, 13728), (432, 13749), (437, 13773),

Gene: Phorgeous_26 Start: 13636, Stop: 15492, Start Num: 38

Candidate Starts for Phorgeous_26:

(Start: 38 @13636 has 58 MA's), (171, 14212), (180, 14257), (187, 14293), (211, 14362), (218, 14383), (219, 14386), (227, 14416), (250, 14536), (264, 14617), (293, 14731), (301, 14758), (333, 14947), (358, 15073), (382, 15187), (384, 15202), (400, 15250), (404, 15280), (406, 15292), (409, 15307), (411, 15322), (420, 15373), (425, 15391), (430, 15409),

Gene: Phrampa_73 Start: 45102, Stop: 47150, Start Num: 9

Candidate Starts for Phrampa_73:

(Start: 9 @45102 has 8 MA's), (Start: 38 @45246 has 58 MA's), (157, 45846), (195, 46011), (199, 46032), (227, 46107), (320, 46536), (355, 46716),

Gene: Phrancesco_27 Start: 13914, Stop: 15770, Start Num: 38

Candidate Starts for Phrancesco_27:

(Start: 38 @13914 has 58 MA's), (171, 14490), (180, 14535), (187, 14571), (211, 14640), (218, 14661), (219, 14664), (227, 14694), (250, 14814), (264, 14895), (293, 15009), (301, 15036), (333, 15225), (358, 15351), (364, 15375), (382, 15465), (384, 15480), (400, 15528), (404, 15558), (406, 15570), (409, 15585), (411, 15600), (420, 15651), (425, 15669), (430, 15687),

Gene: PhuzzTulsa_24 Start: 14216, Stop: 15943, Start Num: 63

Candidate Starts for PhuzzTulsa_24:

(40, 14153), (Start: 63 @14216 has 19 MA's), (193, 14825), (267, 15113), (270, 15125), (278, 15155), (307, 15251), (308, 15254), (309, 15257), (318, 15317), (350, 15479), (363, 15539), (364, 15545), (367, 15563), (381, 15626), (402, 15737), (420, 15836),

Gene: PierreOrion_27 Start: 13938, Stop: 15794, Start Num: 38

Candidate Starts for PierreOrion_27:

(Start: 38 @13938 has 58 MA's), (171, 14514), (180, 14559), (187, 14595), (211, 14664), (218, 14685), (219, 14688), (227, 14718), (250, 14838), (264, 14919), (293, 15033), (301, 15060), (333, 15249), (358, 15375), (382, 15489), (384, 15504), (400, 15552), (404, 15582), (406, 15594), (409, 15609), (411, 15624), (420, 15675), (425, 15693), (430, 15711),

Gene: PinkCoffee_21 Start: 12521, Stop: 14419, Start Num: 45

Candidate Starts for PinkCoffee_21:

(Start: 45 @12521 has 116 MA's), (112, 12758), (115, 12770), (121, 12824), (191, 13217), (199, 13250), (212, 13274), (262, 13514), (298, 13643), (301, 13655), (320, 13772), (327, 13817), (328, 13820), (343, 13880), (345, 13898), (351, 13943), (354, 13955), (355, 13958), (360, 13979), (381, 14078), (388, 14117), (399, 14177), (410, 14249), (416, 14279), (420, 14303), (427, 14330), (428, 14333), (433, 14360),

Gene: PiperSansNom_27 Start: 14090, Stop: 15946, Start Num: 38

Candidate Starts for PiperSansNom_27:

(Start: 38 @14090 has 58 MA's), (171, 14666), (180, 14711), (187, 14747), (211, 14816), (218, 14837), (219, 14840), (227, 14870), (250, 14990), (264, 15071), (293, 15185), (301, 15212), (333, 15401), (358, 15527), (382, 15641), (384, 15656), (400, 15704), (404, 15734), (406, 15746), (409, 15761), (411, 15776), (420, 15827), (425, 15845), (430, 15863),

Gene: Piperis_27 Start: 13760, Stop: 15616, Start Num: 38

Candidate Starts for Piperis_27:

(Start: 38 @13760 has 58 MA's), (171, 14336), (180, 14381), (187, 14417), (211, 14486), (218, 14507), (219, 14510), (227, 14540), (250, 14660), (264, 14741), (293, 14855), (301, 14882), (333, 15071), (358, 15197), (382, 15311), (384, 15326), (400, 15374), (404, 15404), (406, 15416), (409, 15431), (411, 15446), (420, 15497), (425, 15515), (430, 15533),

Gene: Pointis_26 Start: 14433, Stop: 16160, Start Num: 63

Candidate Starts for Pointis_26:

(40, 14370), (Start: 63 @14433 has 19 MA's), (193, 15042), (267, 15330), (270, 15342), (278, 15372), (307, 15468), (308, 15471), (309, 15474), (318, 15534), (350, 15696), (363, 15756), (364, 15762), (367, 15780), (381, 15843), (402, 15954), (420, 16053),

Gene: Popstraw_24 Start: 14219, Stop: 15946, Start Num: 63

Candidate Starts for Popstraw_24:

(40, 14156), (Start: 63 @14219 has 19 MA's), (193, 14828), (267, 15116), (270, 15128), (278, 15158), (307, 15254), (308, 15257), (309, 15260), (318, 15320), (350, 15482), (363, 15542), (364, 15548), (367, 15566), (381, 15629), (402, 15740), (420, 15839),

Gene: Portcullis_19 Start: 11883, Stop: 13769, Start Num: 45

Candidate Starts for Portcullis_19:

(Start: 45 @11883 has 116 MA's), (112, 12120), (115, 12132), (121, 12186), (191, 12567), (199, 12600), (213, 12627), (298, 12993), (301, 13005), (320, 13122), (327, 13167), (328, 13170), (343, 13230), (345, 13248), (351, 13293), (354, 13305), (355, 13308), (381, 13428), (388, 13467), (399, 13527), (410, 13599), (416, 13629), (420, 13653), (427, 13680), (428, 13683), (433, 13710),

Gene: Pulchra_28 Start: 14160, Stop: 16016, Start Num: 38

Candidate Starts for Pulchra_28:

(Start: 38 @14160 has 58 MA's), (171, 14736), (180, 14781), (187, 14817), (211, 14886), (218, 14907), (219, 14910), (227, 14940), (250, 15060), (264, 15141), (293, 15255), (301, 15282), (333, 15471), (358, 15597), (382, 15711), (384, 15726), (400, 15774), (404, 15804), (406, 15816), (409, 15831), (411, 15846), (420, 15897), (425, 15915), (430, 15933),

Gene: PullumCavea_19 Start: 11937, Stop: 13826, Start Num: 45

Candidate Starts for PullumCavea_19:

(Start: 45 @11937 has 116 MA's), (112, 12174), (115, 12186), (121, 12240), (153, 12465), (191, 12627), (199, 12660), (212, 12684), (262, 12912), (276, 12984), (298, 13041), (320, 13170), (327, 13215), (328, 13218), (351, 13341), (354, 13353), (367, 13413), (397, 13566), (399, 13575), (410, 13647), (416, 13677), (427, 13728), (432, 13749), (437, 13773),

Gene: Pumpernickel_85 Start: 45481, Stop: 47517, Start Num: 9

Candidate Starts for Pumpernickel_85:

(Start: 9 @45481 has 8 MA's), (36, 45616), (Start: 38 @45625 has 58 MA's), (160, 46213), (179, 46297), (196, 46372), (279, 46717), (366, 47128), (415, 47404),

Gene: Pumpkiney_23 Start: 14240, Stop: 16156, Start Num: 45

Candidate Starts for Pumpkiney_23:

(Start: 45 @14240 has 116 MA's), (107, 14456), (111, 14471), (134, 14645), (163, 14792), (176, 14858), (178, 14864), (190, 14918), (196, 14942), (201, 14966), (257, 15194), (260, 15212), (262, 15218), (274, 15281), (277, 15293), (278, 15296), (281, 15308), (306, 15398), (311, 15425), (341, 15584), (353, 15662), (375, 15758), (417, 16028), (427, 16073),

Gene: Pureglobe5_28 Start: 14443, Stop: 16170, Start Num: 63

Candidate Starts for Pureglobe5_28:

(40, 14380), (Start: 63 @14443 has 19 MA's), (193, 15052), (267, 15340), (270, 15352), (278, 15382), (307, 15478), (308, 15481), (309, 15484), (318, 15544), (350, 15706), (363, 15766), (364, 15772), (367, 15790), (381, 15853), (402, 15964), (420, 16063),

Gene: Purplicious_42 Start: 22426, Stop: 24216, Start Num: 44

Candidate Starts for Purplicious_42:

(27, 22366), (41, 22420), (Start: 44 @22426 has 1 MA's), (161, 22963), (169, 22996), (174, 23008), (202, 23128), (204, 23131), (226, 23188), (260, 23341), (262, 23347), (266, 23374), (275, 23416), (336, 23674), (337, 23677), (347, 23719), (348, 23722), (356, 23776), (357, 23782), (377, 23878), (381, 23893), (382, 23902), (420, 24127), (430, 24163), (432, 24175), (437, 24199),

Gene: Quammi_23 Start: 13492, Stop: 15324, Start Num: 68

Candidate Starts for Quammi_23:

(Start: 68 @13492 has 37 MA's), (70, 13501), (96, 13600), (153, 13966), (190, 14134), (192, 14149), (215, 14209), (229, 14257), (231, 14263), (238, 14287), (258, 14404), (259, 14410), (278, 14503), (304, 14584), (322, 14677), (323, 14692), (330, 14740), (337, 14764), (348, 14812), (350, 14836), (360, 14884), (370, 14926), (396, 15061), (397, 15073), (399, 15082), (409, 15142), (421, 15211), (430, 15244),

Gene: Quhwah_30 Start: 14383, Stop: 16242, Start Num: 38

Candidate Starts for Quhwah_30:

(Start: 38 @14383 has 58 MA's), (171, 14962), (180, 15007), (187, 15043), (211, 15112), (218, 15133), (219, 15136), (227, 15166), (250, 15286), (264, 15367), (293, 15481), (301, 15508), (333, 15697), (358, 15823), (382, 15937), (384, 15952), (400, 16000), (404, 16030), (406, 16042), (409, 16057),

(411, 16072), (420, 16123), (425, 16141), (430, 16159),

Gene: RIPWilbur_24 Start: 13579, Stop: 15306, Start Num: 63

Candidate Starts for RIPWilbur_24:

(40, 13516), (Start: 63 @13579 has 19 MA's), (193, 14188), (267, 14476), (270, 14488), (278, 14518), (307, 14614), (308, 14617), (309, 14620), (318, 14680), (350, 14842), (363, 14902), (364, 14908), (367, 14926), (381, 14989), (402, 15100), (420, 15199),

Gene: Racecar_82 Start: 48235, Stop: 50229, Start Num: 8

Candidate Starts for Racecar_82:

(Start: 8 @48235 has 11 MA's), (Start: 38 @48379 has 58 MA's), (157, 48925), (195, 49090), (199, 49111), (227, 49186), (320, 49615), (377, 49912),

Gene: RainyPolka_13 Start: 13679, Stop: 15376, Start Num: 90

Candidate Starts for RainyPolka_13:

(Start: 90 @13679 has 12 MA's), (91, 13688), (114, 13757), (118, 13775), (120, 13790), (133, 13922), (135, 13946), (153, 14045), (167, 14126), (181, 14180), (187, 14210), (188, 14213), (195, 14240), (196, 14243), (217, 14291), (239, 14372), (247, 14414), (256, 14483), (275, 14573), (306, 14663), (317, 14729), (320, 14741), (321, 14744), (329, 14810), (349, 14894), (354, 14936), (367, 14996), (399, 15149), (408, 15206), (418, 15266), (419, 15269), (430, 15308), (434, 15332), (440, 15350),

Gene: Ramiel05_26 Start: 13795, Stop: 15651, Start Num: 38

Candidate Starts for Ramiel05_26:

(Start: 38 @13795 has 58 MA's), (171, 14371), (180, 14416), (187, 14452), (211, 14521), (218, 14542), (219, 14545), (227, 14575), (250, 14695), (264, 14776), (293, 14890), (301, 14917), (333, 15106), (382, 15346), (384, 15361), (400, 15409), (404, 15439), (406, 15451), (409, 15466), (411, 15481), (420, 15532), (425, 15550), (430, 15568),

Gene: Ranunculus_20 Start: 13327, Stop: 15048, Start Num: 63

Candidate Starts for Ranunculus_20:

(41, 13264), (Start: 63 @13327 has 19 MA's), (193, 13921), (203, 13942), (238, 14044), (267, 14218), (270, 14230), (278, 14260), (308, 14359), (309, 14362), (342, 14527), (350, 14584), (358, 14626), (361, 14635), (363, 14644), (367, 14668), (381, 14731), (400, 14818), (405, 14857), (409, 14875),

Gene: Rasputia_56 Start: 29361, Stop: 31292, Start Num: 38

Candidate Starts for Rasputia_56:

(Start: 38 @29361 has 58 MA's), (92, 29544), (114, 29628), (123, 29697), (148, 29895), (150, 29904), (173, 30003), (182, 30048), (219, 30165), (321, 30663), (326, 30693), (327, 30705), (333, 30732), (344, 30777), (350, 30816), (358, 30858), (397, 31044), (437, 31251),

Gene: RazzB_22 Start: 12742, Stop: 14469, Start Num: 63

Candidate Starts for RazzB_22:

(40, 12679), (Start: 63 @12742 has 19 MA's), (193, 13351), (267, 13639), (270, 13651), (278, 13681), (307, 13777), (308, 13780), (309, 13783), (318, 13843), (350, 14005), (361, 14056), (363, 14065), (367, 14089), (381, 14152), (397, 14227), (398, 14233), (400, 14239), (401, 14260), (420, 14362),

Gene: ReginaGlobina_81 Start: 47691, Stop: 49700, Start Num: 8

Candidate Starts for ReginaGlobina_81:

(Start: 8 @47691 has 11 MA's), (157, 48405), (190, 48540), (199, 48582), (240, 48705), (247, 48726), (273, 48891), (278, 48906), (320, 49086), (401, 49512),

Gene: Ren19_19 Start: 13481, Stop: 15208, Start Num: 63

Candidate Starts for Ren19_19:

(40, 13418), (48, 13433), (Start: 63 @13481 has 19 MA's), (84, 13547), (193, 14087), (270, 14390), (278, 14420), (307, 14516), (308, 14519), (309, 14522), (318, 14582), (350, 14744), (361, 14795), (367, 14828), (381, 14891), (400, 14978), (402, 15002), (409, 15035), (426, 15125),

Gene: Ribeye_21 Start: 15768, Stop: 17690, Start Num: 45

Candidate Starts for Ribeye_21:

(Start: 45 @15768 has 116 MA's), (111, 15999), (151, 16296), (166, 16365), (177, 16413), (182, 16437), (198, 16506), (206, 16530), (238, 16623), (260, 16764), (262, 16770), (274, 16833), (277, 16845), (278, 16848), (281, 16860), (306, 16947), (327, 17070), (331, 17106), (341, 17139), (351, 17211), (361, 17250), (373, 17301), (397, 17439), (398, 17445), (399, 17448), (407, 17499), (417, 17556), (418, 17568), (421, 17577),

Gene: RiverRaider_21 Start: 14172, Stop: 16070, Start Num: 45

Candidate Starts for RiverRaider_21:

(25, 14094), (Start: 45 @14172 has 116 MA's), (111, 14403), (115, 14421), (124, 14496), (151, 14670), (166, 14751), (182, 14817), (198, 14886), (260, 15144), (262, 15150), (274, 15213), (277, 15225), (278, 15228), (281, 15240), (306, 15327), (327, 15450), (331, 15486), (351, 15591), (361, 15630), (373, 15681), (377, 15714), (398, 15825), (399, 15828), (400, 15831), (401, 15852), (407, 15879), (412, 15906), (417, 15936), (418, 15948),

Gene: Rizwana_19 Start: 13218, Stop: 14954, Start Num: 63

Candidate Starts for Rizwana_19:

(40, 13155), (Start: 63 @13218 has 19 MA's), (140, 13608), (147, 13644), (220, 13878), (247, 13986), (254, 14049), (257, 14058), (261, 14079), (278, 14160), (308, 14259), (309, 14262), (315, 14304), (320, 14328), (323, 14349), (324, 14355), (350, 14484), (363, 14544), (373, 14583), (379, 14625), (400, 14718), (420, 14841), (428, 14871),

Gene: RoadKill_18 Start: 13249, Stop: 15138, Start Num: 45

Candidate Starts for RoadKill_18:

(42, 13240), (Start: 45 @13249 has 116 MA's), (Start: 68 @13315 has 37 MA's), (111, 13483), (115, 13501), (153, 13774), (177, 13870), (237, 14077), (249, 14155), (262, 14224), (274, 14287), (277, 14299), (278, 14302), (303, 14386), (306, 14401), (323, 14500), (331, 14554), (351, 14659), (373, 14749), (387, 14830), (397, 14887), (400, 14899), (409, 14956), (410, 14968), (417, 15004), (432, 15070),

Gene: RobinRose_26 Start: 13174, Stop: 14952, Start Num: 65

Candidate Starts for RobinRose_26:

(Start: 65 @13174 has 11 MA's), (70, 13186), (135, 13528), (161, 13645), (190, 13771), (229, 13885), (238, 13915), (278, 14128), (304, 14209), (306, 14218), (320, 14296), (322, 14302), (323, 14317), (350, 14461), (358, 14503), (370, 14554), (397, 14701), (399, 14710), (426, 14860), (430, 14872),

Gene: RobsFeet_28 Start: 13750, Stop: 15771, Start Num: 38

Candidate Starts for RobsFeet_28:

(Start: 38 @13750 has 58 MA's), (171, 14335), (187, 14416), (195, 14440), (211, 14485), (218, 14506), (219, 14509), (250, 14659), (289, 14917), (291, 14989), (301, 15049), (303, 15073), (327, 15211), (332, 15235), (333, 15238), (355, 15349), (382, 15478), (384, 15493), (392, 15502), (397, 15529), (400, 15541), (404, 15571), (409, 15598), (430, 15700),

Gene: Rockabye_83 Start: 50410, Stop: 52398, Start Num: 8

Candidate Starts for Rockabye_83:

(Start: 8 @50410 has 11 MA's), (28, 50506), (Start: 38 @50554 has 58 MA's), (64, 50635), (129, 50911), (157, 51094), (199, 51280), (227, 51355), (248, 51451), (265, 51553), (278, 51604), (320, 51784), (401, 52210),

Gene: Rockwell_26 Start: 13795, Stop: 15651, Start Num: 38

Candidate Starts for Rockwell_26:

(Start: 38 @13795 has 58 MA's), (171, 14371), (180, 14416), (187, 14452), (211, 14521), (218, 14542), (219, 14545), (227, 14575), (250, 14695), (264, 14776), (293, 14890), (301, 14917), (333, 15106), (382, 15346), (384, 15361), (400, 15409), (404, 15439), (406, 15451), (409, 15466), (411, 15481), (420, 15532), (425, 15550), (430, 15568),

Gene: Rofo_20 Start: 15139, Stop: 17046, Start Num: 45

Candidate Starts for Rofo_20:

(Start: 45 @15139 has 116 MA's), (111, 15370), (115, 15388), (151, 15655), (182, 15793), (198, 15862), (212, 15895), (260, 16120), (262, 16126), (274, 16189), (277, 16201), (278, 16204), (281, 16216), (327, 16426), (331, 16462), (361, 16606), (373, 16657), (398, 16801), (399, 16804), (400, 16807), (407, 16855), (417, 16912),

Gene: RogerDodger_22 Start: 12733, Stop: 14619, Start Num: 45

Candidate Starts for RogerDodger_22:

(Start: 45 @12733 has 116 MA's), (112, 12970), (115, 12982), (121, 13036), (153, 13258), (191, 13420), (199, 13453), (262, 13705), (276, 13777), (298, 13834), (301, 13846), (320, 13963), (327, 14008), (328, 14011), (351, 14134), (354, 14146), (367, 14206), (397, 14359), (399, 14368), (410, 14440), (416, 14470), (432, 14542), (437, 14566),

Gene: RomansRevenge_16 Start: 11444, Stop: 13249, Start Num: 51

Candidate Starts for RomansRevenge_16:

(Start: 51 @11444 has 5 MA's), (Start: 63 @11492 has 19 MA's), (89, 11582), (131, 11834), (134, 11849), (146, 11942), (176, 12053), (178, 12062), (193, 12131), (217, 12176), (231, 12218), (251, 12323), (262, 12380), (278, 12458), (306, 12548), (308, 12557), (323, 12647), (345, 12749), (367, 12866), (381, 12929), (400, 13013), (409, 13070), (410, 13082), (420, 13136),

Gene: Romm_26 Start: 13174, Stop: 14952, Start Num: 65

Candidate Starts for Romm_26:

(Start: 65 @13174 has 11 MA's), (70, 13186), (135, 13528), (161, 13645), (190, 13771), (229, 13885), (238, 13915), (278, 14128), (304, 14209), (306, 14218), (320, 14296), (322, 14302), (323, 14317), (350, 14461), (358, 14503), (370, 14554), (397, 14701), (399, 14710), (426, 14860), (430, 14872),

Gene: Rowlf_21 Start: 13250, Stop: 15082, Start Num: 68

Candidate Starts for Rowlf_21:

(Start: 68 @13250 has 37 MA's), (70, 13259), (96, 13358), (153, 13724), (190, 13892), (192, 13907), (215, 13967), (229, 14015), (231, 14021), (238, 14045), (258, 14162), (259, 14168), (278, 14261), (304, 14342), (322, 14435), (323, 14450), (330, 14498), (337, 14522), (348, 14570), (350, 14594), (360, 14642), (370, 14684), (396, 14819), (397, 14831), (399, 14840), (409, 14900), (421, 14969), (430, 15002),

Gene: RubyRalph_27 Start: 13767, Stop: 15596, Start Num: 66

Candidate Starts for RubyRalph_27:

(Start: 66 @13767 has 4 MA's), (70, 13779), (105, 13908), (135, 14136), (138, 14154), (168, 14313), (190, 14397), (215, 14475), (229, 14523), (238, 14553), (257, 14667), (278, 14769), (299, 14811), (304, 14850), (306, 14859), (322, 14943), (323, 14958), (348, 15078), (350, 15102), (358, 15144), (360, 15150), (370, 15192), (396, 15327), (399, 15348), (401, 15372), (405, 15390), (409, 15408), (430, 15510),

Gene: Rudy_23 Start: 13492, Stop: 15324, Start Num: 68

Candidate Starts for Rudy_23:

(Start: 68 @13492 has 37 MA's), (70, 13501), (96, 13600), (153, 13966), (190, 14134), (192, 14149), (215, 14209), (229, 14257), (231, 14263), (238, 14287), (258, 14404), (259, 14410), (278, 14503), (304, 14584), (322, 14677), (323, 14692), (330, 14740), (337, 14764), (348, 14812), (350, 14836), (360, 14884), (370, 14926), (396, 15061), (397, 15073), (399, 15082), (409, 15142), (421, 15211), (430, 15244),

Gene: SJReid_84 Start: 49478, Stop: 51490, Start Num: 8

Candidate Starts for SJReid_84:

(Start: 8 @49478 has 11 MA's), (12, 49499), (Start: 38 @49622 has 58 MA's), (136, 50066), (157, 50186), (199, 50372), (227, 50447), (265, 50645), (278, 50696), (320, 50876), (381, 51188),

Gene: SadLad_29 Start: 14704, Stop: 16533, Start Num: 66

Candidate Starts for SadLad_29:

(Start: 66 @14704 has 4 MA's), (70, 14716), (105, 14845), (135, 15073), (138, 15091), (168, 15250), (190, 15334), (215, 15412), (229, 15460), (238, 15490), (257, 15604), (278, 15706), (299, 15748), (304, 15787), (322, 15880), (323, 15895), (348, 16015), (350, 16039), (358, 16081), (360, 16087), (370, 16129), (396, 16264), (399, 16285), (401, 16309), (405, 16327), (409, 16345), (430, 16447),

Gene: Salete_13 Start: 13751, Stop: 15445, Start Num: 90

Candidate Starts for Salete_13:

(Start: 90 @13751 has 12 MA's), (91, 13760), (120, 13862), (133, 13994), (135, 14018), (153, 14114), (167, 14195), (179, 14240), (181, 14249), (188, 14282), (195, 14309), (196, 14312), (217, 14360), (226, 14393), (227, 14396), (237, 14435), (239, 14441), (250, 14519), (256, 14552), (275, 14642), (306, 14732), (317, 14798), (320, 14810), (321, 14813), (343, 14930), (349, 14963), (354, 15005), (379, 15122), (399, 15218), (408, 15275), (419, 15338), (421, 15344), (430, 15377), (434, 15401), (440, 15419), (444, 15434),

Gene: SallyK_26 Start: 14644, Stop: 16470, Start Num: 68

Candidate Starts for SallyK_26:

(Start: 68 @14644 has 37 MA's), (70, 14653), (96, 14752), (145, 15079), (190, 15280), (192, 15295), (215, 15355), (229, 15403), (238, 15433), (258, 15550), (259, 15556), (278, 15649), (304, 15730), (322, 15823), (323, 15838), (330, 15886), (337, 15910), (348, 15958), (350, 15982), (360, 16030), (370, 16072), (396, 16207), (399, 16228), (406, 16273), (409, 16288), (421, 16357), (430, 16390),

Gene: Salvador_19 Start: 11842, Stop: 13740, Start Num: 45

Candidate Starts for Salvador_19:

(Start: 45 @11842 has 116 MA's), (112, 12079), (115, 12091), (121, 12145), (153, 12376), (191, 12538), (199, 12571), (262, 12835), (298, 12964), (301, 12976), (320, 13093), (327, 13138), (328, 13141), (343, 13201), (345, 13219), (349, 13234), (351, 13264), (354, 13276), (355, 13279), (381, 13399), (388, 13438), (399, 13498), (410, 13570), (416, 13600), (420, 13624), (427, 13651), (428, 13654), (433, 13681),

Gene: Sampson_21 Start: 15472, Stop: 17394, Start Num: 45

Candidate Starts for Sampson_21:

(Start: 45 @15472 has 116 MA's), (107, 15688), (111, 15703), (134, 15877), (160, 16015), (163, 16024), (176, 16093), (178, 16099), (190, 16153), (196, 16177), (257, 16429), (260, 16447), (262, 16453), (274, 16516), (277, 16528), (278, 16531), (281, 16543), (306, 16633), (311, 16660), (341, 16819), (353, 16897), (375, 16993), (381, 17029), (397, 17149), (401, 17182), (417, 17266), (427, 17311),

Gene: Sanjuju_18 Start: 14651, Stop: 16558, Start Num: 45

Candidate Starts for Sanjuju_18:

(Start: 45 @14651 has 116 MA's), (111, 14882), (115, 14900), (151, 15167), (182, 15305), (198, 15374), (212, 15407), (260, 15632), (262, 15638), (274, 15701), (277, 15713), (278, 15716), (281, 15728), (306, 15815), (315, 15869), (327, 15938), (331, 15974), (361, 16118), (373, 16169), (398, 16313), (399, 16316), (400, 16319), (407, 16367), (417, 16424),

Gene: Saronaya_20 Start: 14562, Stop: 16469, Start Num: 45

Candidate Starts for Saronaya_20:

(Start: 45 @14562 has 116 MA's), (88, 14697), (111, 14793), (151, 15075), (166, 15144), (177, 15192), (182, 15216), (190, 15252), (198, 15285), (206, 15309), (238, 15402), (260, 15543), (262, 15549), (274, 15612), (277, 15624), (278, 15627), (281, 15639), (306, 15726), (327, 15849), (331, 15885), (351, 15990), (361, 16029), (373, 16080), (397, 16218), (398, 16224), (399, 16227), (407, 16278), (417, 16335), (418, 16347), (421, 16356),

Gene: Savannah_26 Start: 13819, Stop: 15678, Start Num: 38

Candidate Starts for Savannah_26:

(Start: 38 @13819 has 58 MA's), (171, 14398), (180, 14443), (187, 14479), (211, 14548), (218, 14569), (219, 14572), (227, 14602), (250, 14722), (264, 14803), (293, 14917), (301, 14944), (333, 15133), (358, 15259), (382, 15373), (384, 15388), (400, 15436), (404, 15466), (406, 15478), (409, 15493), (411, 15508), (420, 15559), (425, 15577), (430, 15595),

Gene: Savbucketdawg_19 Start: 11635, Stop: 13521, Start Num: 45

Candidate Starts for Savbucketdawg_19:

(Start: 45 @11635 has 116 MA's), (112, 11872), (115, 11884), (121, 11938), (191, 12319), (199, 12352), (213, 12379), (298, 12745), (301, 12757), (320, 12874), (327, 12919), (328, 12922), (343, 12982), (345, 13000), (351, 13045), (354, 13057), (355, 13060), (381, 13180), (388, 13219), (399, 13279), (410, 13351), (416, 13381), (420, 13405), (427, 13432), (428, 13435), (433, 13462),

Gene: SchottB_19 Start: 15551, Stop: 17470, Start Num: 45

Candidate Starts for SchottB_19:

(Start: 45 @15551 has 116 MA's), (88, 15686), (111, 15782), (151, 16076), (166, 16145), (177, 16193), (182, 16217), (190, 16253), (198, 16286), (206, 16310), (238, 16403), (260, 16544), (262, 16550), (274, 16613), (277, 16625), (278, 16628), (281, 16640), (306, 16727), (327, 16850), (331, 16886), (341, 16919), (351, 16991), (361, 17030), (373, 17081), (398, 17225), (399, 17228), (407, 17279), (417, 17336), (418, 17348), (421, 17357),

Gene: Scioto_21 Start: 15527, Stop: 17449, Start Num: 45

Candidate Starts for Scioto_21:

(Start: 45 @15527 has 116 MA's), (107, 15743), (111, 15758), (134, 15932), (160, 16070), (163, 16079), (176, 16148), (178, 16154), (190, 16208), (196, 16232), (257, 16484), (260, 16502), (262, 16508), (274, 16571), (277, 16583), (278, 16586), (281, 16598), (306, 16688), (311, 16715), (341, 16874), (353, 16952), (375, 17048), (381, 17084), (397, 17204), (401, 17237), (417, 17321), (427, 17366),

Gene: Scumberland_28 Start: 14010, Stop: 15866, Start Num: 38

Candidate Starts for Scumberland_28:

(Start: 38 @14010 has 58 MA's), (171, 14586), (180, 14631), (187, 14667), (211, 14736), (218, 14757), (219, 14760), (227, 14790), (250, 14910), (264, 14991), (293, 15105), (301, 15132), (333, 15321), (358, 15447), (382, 15561), (384, 15576), (400, 15624), (404, 15654), (406, 15666), (409, 15681), (411, 15696), (420, 15747), (425, 15765), (430, 15783),

Gene: Sedona_22 Start: 16968, Stop: 18863, Start Num: 45

Candidate Starts for Sedona_22:

(Start: 45 @16968 has 116 MA's), (111, 17199), (115, 17217), (151, 17472), (182, 17610), (198, 17679), (212, 17712), (260, 17937), (262, 17943), (274, 18006), (277, 18018), (278, 18021), (281, 18033), (306, 18120), (327, 18243), (331, 18279), (361, 18423), (373, 18474), (398, 18618), (399, 18621), (400, 18624), (407, 18672), (417, 18729), (443, 18846),

Gene: Selwyn23_28 Start: 13988, Stop: 15844, Start Num: 38

Candidate Starts for Selwyn23_28:

(Start: 38 @13988 has 58 MA's), (171, 14564), (180, 14609), (187, 14645), (211, 14714), (218, 14735), (219, 14738), (227, 14768), (250, 14888), (264, 14969), (293, 15083), (301, 15110), (333, 15299), (358, 15425), (382, 15539), (384, 15554), (400, 15602), (404, 15632), (406, 15644), (409, 15659), (411, 15674), (420, 15725), (425, 15743), (430, 15761),

Gene: Sendy_20 Start: 11979, Stop: 13871, Start Num: 45

Candidate Starts for Sendy_20:

(Start: 45 @11979 has 116 MA's), (112, 12216), (115, 12228), (121, 12282), (153, 12507), (191, 12669), (199, 12702), (213, 12729), (298, 13095), (301, 13107), (320, 13224), (327, 13269), (328, 13272), (343, 13332), (345, 13350), (351, 13395), (354, 13407), (355, 13410), (381, 13530), (388, 13569), (399, 13629), (410, 13701), (416, 13731), (420, 13755), (427, 13782), (428, 13785), (433, 13812),

Gene: SharkTale_19 Start: 12583, Stop: 14484, Start Num: 45

Candidate Starts for SharkTale_19:

(Start: 45 @12583 has 116 MA's), (112, 12820), (115, 12832), (121, 12886), (191, 13276), (199, 13309), (212, 13333), (238, 13414), (244, 13441), (262, 13579), (298, 13708), (301, 13720), (306, 13759), (320, 13837), (327, 13882), (328, 13885), (343, 13945), (351, 14008), (354, 14020), (410, 14314), (416, 14344), (420, 14368), (427, 14395), (428, 14398), (430, 14404),

Gene: Shinji_19 Start: 11824, Stop: 13710, Start Num: 45

Candidate Starts for Shinji_19:

(Start: 45 @11824 has 116 MA's), (112, 12061), (115, 12073), (121, 12127), (191, 12508), (199, 12541), (213, 12568), (298, 12934), (301, 12946), (320, 13063), (327, 13108), (328, 13111), (343, 13171), (345, 13189), (351, 13234), (354, 13246), (355, 13249), (381, 13369), (388, 13408), (399, 13468), (410, 13540), (416, 13570), (420, 13594), (427, 13621), (428, 13624), (433, 13651),

Gene: Shivanishola_20 Start: 14945, Stop: 16852, Start Num: 45

Candidate Starts for Shivanishola_20:

(Start: 45 @14945 has 116 MA's), (111, 15176), (115, 15194), (151, 15461), (182, 15599), (198, 15668), (212, 15701), (260, 15926), (262, 15932), (274, 15995), (277, 16007), (278, 16010), (281, 16022), (306, 16109), (315, 16163), (327, 16232), (331, 16268), (361, 16412), (373, 16463), (398, 16607), (399, 16610), (400, 16613), (407, 16661), (417, 16718),

Gene: Shotgun_26 Start: 13617, Stop: 15476, Start Num: 38

Candidate Starts for Shotgun_26:

(Start: 38 @13617 has 58 MA's), (171, 14196), (180, 14241), (187, 14277), (211, 14346), (218, 14367), (219, 14370), (227, 14400), (250, 14520), (264, 14601), (293, 14715), (301, 14742), (333, 14931), (358, 15057), (382, 15171), (384, 15186), (400, 15234), (404, 15264), (406, 15276), (409, 15291), (411, 15306), (420, 15357), (425, 15375), (430, 15393),

Gene: Shrubaron_27 Start: 13384, Stop: 15405, Start Num: 38

Candidate Starts for Shrubaron_27:

(Start: 38 @13384 has 58 MA's), (171, 13969), (187, 14050), (195, 14074), (211, 14119), (218, 14140), (219, 14143), (250, 14293), (289, 14551), (291, 14623), (301, 14683), (303, 14707), (327, 14845), (332, 14869), (333, 14872), (355, 14983), (382, 15112), (384, 15127), (392, 15136), (397, 15163),

(400, 15175), (404, 15205), (409, 15232), (430, 15334),

Gene: SilentRX_21 Start: 13505, Stop: 15193, Start Num: 63

Candidate Starts for SilentRX_21:

(41, 13445), (47, 13457), (49, 13460), (Start: 63 @13505 has 19 MA's), (270, 14372), (278, 14402), (281, 14414), (307, 14498), (308, 14501), (309, 14504), (321, 14573), (334, 14645), (345, 14693), (367, 14810), (381, 14876), (404, 14993), (418, 15080), (420, 15086),

Gene: Sillytadpoles_24 Start: 13490, Stop: 15322, Start Num: 68

Candidate Starts for Sillytadpoles_24:

(Start: 68 @13490 has 37 MA's), (70, 13499), (96, 13598), (153, 13964), (190, 14132), (192, 14147), (215, 14207), (229, 14255), (231, 14261), (238, 14285), (258, 14402), (259, 14408), (278, 14501), (304, 14582), (322, 14675), (323, 14690), (330, 14738), (337, 14762), (348, 14810), (350, 14834), (360, 14882), (370, 14924), (396, 15059), (397, 15071), (399, 15080), (409, 15140), (421, 15209), (430, 15242),

Gene: SirFrank_26 Start: 13737, Stop: 15587, Start Num: 38

Candidate Starts for SirFrank_26:

(Start: 38 @13737 has 58 MA's), (171, 14313), (180, 14358), (187, 14394), (211, 14463), (218, 14484), (219, 14487), (227, 14517), (250, 14637), (293, 14832), (301, 14859), (307, 14904), (333, 15048), (364, 15198), (365, 15204), (382, 15288), (400, 15351), (404, 15381), (406, 15393), (409, 15408), (411, 15423), (420, 15474), (425, 15492),

Gene: Sitar_22 Start: 16336, Stop: 18231, Start Num: 45

Candidate Starts for Sitar_22:

(Start: 45 @16336 has 116 MA's), (111, 16567), (115, 16585), (151, 16840), (182, 16978), (198, 17047), (212, 17080), (260, 17305), (262, 17311), (274, 17374), (277, 17386), (278, 17389), (281, 17401), (306, 17488), (327, 17611), (331, 17647), (361, 17791), (373, 17842), (398, 17986), (399, 17989), (400, 17992), (407, 18040), (417, 18097), (443, 18214),

Gene: Sixama_81 Start: 41770, Stop: 43428, Start Num: 57

Candidate Starts for Sixama_81:

(54, 41755), (Start: 57 @41770 has 5 MA's), (100, 41917), (103, 41929), (160, 42202), (191, 42331), (221, 42415), (227, 42439), (241, 42490), (248, 42535), (256, 42583), (306, 42775), (307, 42781), (312, 42805), (356, 43036), (393, 43204), (414, 43330), (417, 43339),

Gene: Sixsevenium_20 Start: 11735, Stop: 13636, Start Num: 45

Candidate Starts for Sixsevenium_20:

(Start: 45 @11735 has 116 MA's), (112, 11972), (115, 11984), (121, 12038), (191, 12425), (199, 12458), (212, 12482), (238, 12563), (244, 12590), (262, 12728), (298, 12857), (301, 12869), (306, 12908), (320, 12986), (327, 13031), (328, 13034), (331, 13055), (343, 13097), (346, 13118), (351, 13160), (354, 13172), (410, 13466), (416, 13496), (420, 13520), (428, 13550),

Gene: Skugga_25 Start: 13080, Stop: 15104, Start Num: 38

Candidate Starts for Skugga_25:

(Start: 38 @13080 has 58 MA's), (141, 13554), (171, 13668), (178, 13707), (187, 13749), (195, 13773), (211, 13818), (218, 13839), (219, 13842), (224, 13857), (237, 13911), (250, 13992), (259, 14037), (262, 14052), (301, 14382), (303, 14406), (327, 14544), (332, 14568), (333, 14571), (355, 14682), (365, 14727), (382, 14811), (384, 14826), (397, 14862), (400, 14874), (404, 14904), (409, 14931), (430, 15033),

Gene: SlySloth_27 Start: 14547, Stop: 16379, Start Num: 68

Candidate Starts for SlySloth_27:

(Start: 68 @14547 has 37 MA's), (70, 14556), (96, 14655), (153, 15021), (190, 15189), (192, 15204), (215, 15264), (229, 15312), (231, 15318), (238, 15342), (258, 15459), (259, 15465), (278, 15558), (304, 15639), (322, 15732), (323, 15747), (330, 15795), (337, 15819), (348, 15867), (350, 15891), (360, 15939), (370, 15981), (396, 16116), (399, 16137), (409, 16197), (421, 16266), (430, 16299),

Gene: Smarties_35 Start: 15581, Stop: 17596, Start Num: 38

Candidate Starts for Smarties_35:

(Start: 38 @15581 has 58 MA's), (171, 16160), (180, 16205), (187, 16241), (195, 16265), (211, 16310), (218, 16331), (224, 16349), (250, 16484), (291, 16814), (292, 16817), (301, 16874), (303, 16898), (327, 17036), (333, 17063), (355, 17174), (382, 17303), (384, 17318), (392, 17327), (397, 17354), (400, 17366), (404, 17396), (409, 17423), (425, 17507), (430, 17525),

Gene: SmokingBunny_19 Start: 11842, Stop: 13740, Start Num: 45

Candidate Starts for SmokingBunny_19:

(Start: 45 @11842 has 116 MA's), (112, 12079), (115, 12091), (121, 12145), (153, 12376), (191, 12538), (199, 12571), (262, 12835), (298, 12964), (301, 12976), (320, 13093), (327, 13138), (328, 13141), (343, 13201), (345, 13219), (349, 13234), (351, 13264), (354, 13276), (355, 13279), (381, 13399), (388, 13438), (399, 13498), (410, 13570), (416, 13600), (420, 13624), (427, 13651), (428, 13654), (433, 13681),

Gene: Squash_27 Start: 14560, Stop: 16392, Start Num: 68

Candidate Starts for Squash_27:

(Start: 68 @14560 has 37 MA's), (70, 14569), (96, 14668), (153, 15034), (190, 15202), (192, 15217), (215, 15277), (229, 15325), (231, 15331), (238, 15355), (258, 15472), (259, 15478), (278, 15571), (304, 15652), (322, 15745), (323, 15760), (330, 15808), (337, 15832), (348, 15880), (350, 15904), (360, 15952), (370, 15994), (396, 16129), (397, 16141), (399, 16150), (409, 16210), (421, 16279), (430, 16312),

Gene: StAugustine_17 Start: 13254, Stop: 15374, Start Num: 67

Candidate Starts for StAugustine_17:

(Start: 67 @13254 has 2 MA's), (72, 13269), (153, 13719), (169, 13782), (181, 13818), (214, 13920), (253, 14112), (268, 14193), (303, 14307), (317, 14388), (327, 14445), (343, 14508), (346, 14529), (375, 14673), (397, 14787), (404, 14829), (409, 14856), (416, 14898), (428, 14952), (446, 15204),

Gene: Statler_26 Start: 14472, Stop: 16304, Start Num: 68

Candidate Starts for Statler_26:

(Start: 68 @14472 has 37 MA's), (70, 14481), (96, 14580), (153, 14946), (190, 15114), (192, 15129), (215, 15189), (229, 15237), (231, 15243), (238, 15267), (258, 15384), (259, 15390), (278, 15483), (304, 15564), (322, 15657), (323, 15672), (330, 15720), (337, 15744), (348, 15792), (350, 15816), (360, 15864), (370, 15906), (396, 16041), (397, 16053), (399, 16062), (409, 16122), (421, 16191), (430, 16224),

Gene: Stewart25555_72 Start: 44035, Stop: 46092, Start Num: 8

Candidate Starts for Stewart25555_72:

(Start: 8 @44035 has 11 MA's), (Start: 20 @44089 has 1 MA's), (157, 44797), (190, 44932), (199, 44974), (278, 45298), (320, 45478),

Gene: Stichling_19 Start: 14115, Stop: 16025, Start Num: 45

Candidate Starts for Stichling_19:

(Start: 45 @14115 has 116 MA's), (88, 14250), (111, 14346), (151, 14631), (166, 14700), (177, 14748), (182, 14772), (190, 14808), (198, 14841), (206, 14865), (238, 14958), (260, 15099), (262, 15105), (274, 15168), (277, 15180), (278, 15183), (281, 15195), (306, 15282), (327, 15405), (331, 15441), (341, 15474), (351, 15546), (361, 15585), (373, 15636), (398, 15780), (399, 15783), (407, 15834),

(417, 15891), (418, 15903), (421, 15912),

Gene: StorminNorm_20 Start: 14442, Stop: 16349, Start Num: 45

Candidate Starts for StorminNorm_20:

(Start: 45 @14442 has 116 MA's), (88, 14577), (111, 14673), (151, 14955), (166, 15024), (177, 15072), (182, 15096), (190, 15132), (198, 15165), (206, 15189), (238, 15282), (260, 15423), (262, 15429), (274, 15492), (277, 15504), (278, 15507), (281, 15519), (306, 15606), (327, 15729), (331, 15765), (351, 15870), (361, 15909), (373, 15960), (397, 16098), (398, 16104), (399, 16107), (407, 16158), (417, 16215), (418, 16227), (421, 16236), (444, 16335),

Gene: StrawberryJamm_27 Start: 13792, Stop: 15624, Start Num: 68

Candidate Starts for StrawberryJamm_27:

(Start: 68 @13792 has 37 MA's), (70, 13801), (96, 13900), (145, 14233), (190, 14434), (192, 14449), (215, 14509), (229, 14557), (238, 14587), (258, 14704), (259, 14710), (278, 14803), (304, 14884), (322, 14977), (323, 14992), (330, 15040), (337, 15064), (348, 15112), (350, 15136), (360, 15184), (370, 15226), (396, 15361), (399, 15382), (406, 15427), (409, 15442), (421, 15511), (430, 15544),

Gene: Stultus_20 Start: 14947, Stop: 16842, Start Num: 45

Candidate Starts for Stultus_20:

(Start: 45 @14947 has 116 MA's), (111, 15178), (115, 15196), (151, 15451), (182, 15589), (198, 15658), (212, 15691), (260, 15916), (262, 15922), (274, 15985), (277, 15997), (278, 16000), (281, 16012), (306, 16099), (327, 16222), (331, 16258), (361, 16402), (373, 16453), (398, 16597), (399, 16600), (400, 16603), (407, 16651), (417, 16708), (443, 16825),

Gene: Sunfish_32 Start: 15117, Stop: 16874, Start Num: 68

Candidate Starts for Sunfish_32:

(Start: 68 @15117 has 37 MA's), (137, 15489), (143, 15534), (178, 15681), (224, 15807), (355, 16431), (358, 16446), (359, 16449), (361, 16455), (409, 16695), (420, 16761), (427, 16788),

Gene: Sunny_ Start: 13998, Stop: 15890, Start Num: 26

Candidate Starts for Sunny_:

(18, 13962), (19, 13968), (24, 13995), (Start: 26 @13998 has 2 MA's), (Start: 38 @14052 has 58 MA's), (123, 14373), (171, 14610), (180, 14655), (187, 14691), (211, 14760), (218, 14781), (219, 14784), (232, 14835), (240, 14868), (250, 14934), (264, 15015), (301, 15156), (328, 15321), (333, 15345), (358, 15471), (382, 15585), (384, 15600), (397, 15636), (400, 15648), (404, 15678), (406, 15690), (409, 15705), (434, 15831),

Gene: TP1604_13 Start: 13751, Stop: 15445, Start Num: 90

Candidate Starts for TP1604_13:

(Start: 90 @13751 has 12 MA's), (91, 13760), (120, 13862), (133, 13994), (135, 14018), (153, 14114), (167, 14195), (179, 14240), (181, 14249), (188, 14282), (195, 14309), (196, 14312), (217, 14360), (226, 14393), (227, 14396), (237, 14435), (239, 14441), (250, 14519), (256, 14552), (275, 14642), (303, 14717), (306, 14732), (317, 14798), (320, 14810), (321, 14813), (343, 14930), (349, 14963), (354, 15005), (379, 15122), (399, 15218), (408, 15275), (412, 15296), (419, 15338), (421, 15344), (430, 15377), (434, 15401), (440, 15419), (444, 15434),

Gene: Talia1610_81 Start: 47600, Stop: 49594, Start Num: 8

Candidate Starts for Talia1610_81:

(Start: 8 @47600 has 11 MA's), (Start: 38 @47744 has 58 MA's), (157, 48290), (195, 48455), (199, 48476), (227, 48551), (320, 48980), (377, 49277),

Gene: Tangent_18 Start: 14140, Stop: 16047, Start Num: 45

Candidate Starts for Tangent_18:

(Start: 45 @14140 has 116 MA's), (111, 14371), (115, 14389), (151, 14656), (182, 14794), (198, 14863), (212, 14896), (260, 15121), (262, 15127), (274, 15190), (277, 15202), (278, 15205), (281, 15217), (306, 15304), (315, 15358), (327, 15427), (331, 15463), (361, 15607), (373, 15658), (398, 15802), (399, 15805), (400, 15808), (407, 15856), (417, 15913),

Gene: Tangerine_20 Start: 14448, Stop: 16355, Start Num: 45

Candidate Starts for Tangerine_20:

(Start: 45 @14448 has 116 MA's), (88, 14583), (111, 14679), (151, 14961), (166, 15030), (177, 15078), (182, 15102), (190, 15138), (198, 15171), (206, 15195), (238, 15288), (260, 15429), (262, 15435), (274, 15498), (277, 15510), (278, 15513), (281, 15525), (306, 15612), (327, 15735), (331, 15771), (351, 15876), (361, 15915), (373, 15966), (397, 16104), (398, 16110), (399, 16113), (407, 16164), (417, 16221), (418, 16233), (421, 16242), (444, 16341),

Gene: Tank_20 Start: 13083, Stop: 14846, Start Num: 63

Candidate Starts for Tank_20:

(40, 13017), (Start: 63 @13083 has 19 MA's), (147, 13521), (164, 13590), (170, 13614), (188, 13683), (220, 13764), (247, 13872), (252, 13923), (254, 13935), (257, 13944), (306, 14136), (308, 14145), (309, 14148), (320, 14214), (323, 14235), (324, 14241), (327, 14259), (350, 14370), (363, 14430), (373, 14469), (379, 14511), (400, 14604), (405, 14643), (436, 14796),

Gene: Taptic_9 Start: 10537, Stop: 12588, Start Num: 71

Candidate Starts for Taptic_9:

(Start: 71 @10537 has 7 MA's), (75, 10549), (82, 10576), (94, 10630), (109, 10678), (127, 10783), (139, 10888), (153, 10960), (185, 11095), (194, 11134), (204, 11164), (223, 11209), (228, 11230), (250, 11338), (253, 11356), (264, 11425), (266, 11431), (295, 11524), (323, 11683), (327, 11707), (332, 11737), (343, 11773), (348, 11800), (361, 11875), (370, 11914), (382, 11980), (398, 12055), (408, 12115), (428, 12214), (430, 12220), (443, 12283), (445, 12439), (447, 12490), (448, 12496), (449, 12580),

Gene: Tardus_22 Start: 14807, Stop: 16726, Start Num: 45

Candidate Starts for Tardus_22:

(Start: 45 @14807 has 116 MA's), (107, 15023), (110, 15035), (111, 15038), (134, 15212), (154, 15326), (160, 15350), (163, 15359), (176, 15425), (178, 15431), (190, 15485), (196, 15509), (257, 15761), (260, 15779), (262, 15785), (274, 15848), (277, 15860), (278, 15863), (281, 15875), (306, 15965), (311, 15992), (341, 16151), (353, 16229), (375, 16325), (401, 16514), (417, 16598), (420, 16616), (428, 16646),

Gene: Teamocil_28 Start: 13248, Stop: 15266, Start Num: 38

Candidate Starts for Teamocil_28:

(Start: 38 @13248 has 58 MA's), (141, 13716), (171, 13830), (178, 13869), (187, 13911), (195, 13935), (211, 13980), (218, 14001), (219, 14004), (224, 14019), (237, 14073), (250, 14154), (262, 14214), (285, 14358), (287, 14376), (301, 14544), (303, 14568), (327, 14706), (333, 14733), (355, 14844), (382, 14973), (384, 14988), (397, 15024), (400, 15036), (404, 15066), (409, 15093), (430, 15195),

Gene: Teehee_26 Start: 14727, Stop: 16559, Start Num: 68

Candidate Starts for Teehee_26:

(Start: 68 @14727 has 37 MA's), (70, 14736), (96, 14835), (153, 15201), (190, 15369), (192, 15384), (215, 15444), (229, 15492), (231, 15498), (238, 15522), (258, 15639), (259, 15645), (278, 15738), (304, 15819), (322, 15912), (323, 15927), (330, 15975), (337, 15999), (348, 16047), (350, 16071), (360, 16119), (370, 16161), (396, 16296), (397, 16308), (399, 16317), (409, 16377), (421, 16446), (430, 16479),

Gene: Tempo_24 Start: 13050, Stop: 14828, Start Num: 65

Candidate Starts for Tempo_24:

(Start: 65 @13050 has 11 MA's), (70, 13062), (135, 13404), (161, 13521), (190, 13647), (229, 13761), (238, 13791), (278, 14004), (304, 14085), (306, 14094), (320, 14172), (322, 14178), (323, 14193), (350, 14337), (358, 14379), (370, 14430), (397, 14577), (399, 14586), (426, 14736), (430, 14748),

Gene: Terij_23 Start: 13292, Stop: 15169, Start Num: 38

Candidate Starts for Terij_23:

(Start: 38 @13292 has 58 MA's), (171, 13889), (178, 13928), (187, 13970), (218, 14060), (238, 14129), (263, 14282), (293, 14402), (314, 14519), (333, 14618), (338, 14633), (345, 14669), (347, 14675), (355, 14729), (367, 14786), (373, 14801), (375, 14813), (382, 14858), (397, 14921), (404, 14963), (424, 15071),

Gene: Thing3_21 Start: 15684, Stop: 17591, Start Num: 45

Candidate Starts for Thing3_21:

(Start: 45 @15684 has 116 MA's), (111, 15915), (115, 15933), (151, 16200), (182, 16338), (198, 16407), (212, 16440), (260, 16665), (262, 16671), (274, 16734), (277, 16746), (278, 16749), (281, 16761), (306, 16848), (315, 16902), (327, 16971), (331, 17007), (361, 17151), (373, 17202), (398, 17346), (399, 17349), (400, 17352), (407, 17400), (417, 17457),

Gene: Tiamoceli_21 Start: 14601, Stop: 16490, Start Num: 45

Candidate Starts for Tiamoceli_21:

(42, 14592), (Start: 45 @14601 has 116 MA's), (Start: 68 @14667 has 37 MA's), (111, 14835), (115, 14853), (153, 15126), (177, 15222), (233, 15414), (237, 15429), (249, 15507), (262, 15576), (274, 15639), (277, 15651), (278, 15654), (303, 15738), (306, 15753), (323, 15852), (331, 15906), (351, 16011), (373, 16101), (387, 16182), (397, 16239), (410, 16320), (417, 16356), (432, 16422),

Gene: TillyBobJoe_19 Start: 11638, Stop: 13524, Start Num: 45

Candidate Starts for TillyBobJoe_19:

(Start: 45 @11638 has 116 MA's), (112, 11875), (115, 11887), (121, 11941), (191, 12322), (199, 12355), (213, 12382), (298, 12748), (301, 12760), (320, 12877), (327, 12922), (328, 12925), (343, 12985), (345, 13003), (351, 13048), (354, 13060), (355, 13063), (381, 13183), (388, 13222), (399, 13282), (410, 13354), (416, 13384), (420, 13408), (427, 13435), (428, 13438), (433, 13465),

Gene: Tissue_25 Start: 14292, Stop: 16115, Start Num: 68

Candidate Starts for Tissue_25:

(Start: 68 @14292 has 37 MA's), (70, 14301), (96, 14400), (145, 14724), (190, 14925), (192, 14940), (215, 15000), (229, 15048), (238, 15078), (258, 15195), (259, 15201), (278, 15294), (304, 15375), (322, 15468), (323, 15483), (330, 15531), (337, 15555), (348, 15603), (350, 15627), (360, 15675), (370, 15717), (396, 15852), (399, 15873), (409, 15933), (421, 16002), (430, 16035),

Gene: Togo_19 Start: 11842, Stop: 13740, Start Num: 45

Candidate Starts for Togo_19:

(Start: 45 @11842 has 116 MA's), (112, 12079), (115, 12091), (121, 12145), (153, 12376), (191, 12538), (199, 12571), (262, 12835), (298, 12964), (301, 12976), (320, 13093), (327, 13138), (328, 13141), (343, 13201), (345, 13219), (349, 13234), (351, 13264), (354, 13276), (355, 13279), (381, 13399), (388, 13438), (399, 13498), (410, 13570), (416, 13600), (420, 13624), (427, 13651), (428, 13654), (433, 13681),

Gene: TurkishDelight_17 Start: 12983, Stop: 14710, Start Num: 90

Candidate Starts for TurkishDelight_17:

(80, 12944), (Start: 90 @12983 has 12 MA's), (116, 13091), (121, 13139), (122, 13148), (130, 13241), (159, 13418), (181, 13514), (217, 13625), (269, 13889), (272, 13898), (282, 13940), (307, 14003), (320, 14075), (321, 14078), (323, 14096), (343, 14177), (344, 14189), (349, 14210), (355, 14255),

(379, 14369), (386, 14405), (407, 14516), (408, 14522), (421, 14594), (424, 14606), (439, 14669),

Gene: Twister6_21 Start: 12280, Stop: 14166, Start Num: 45

Candidate Starts for Twister6_21:

(Start: 45 @12280 has 116 MA's), (112, 12517), (115, 12529), (121, 12583), (153, 12805), (191, 12967), (199, 13000), (262, 13252), (276, 13324), (298, 13381), (301, 13393), (320, 13510), (327, 13555), (328, 13558), (351, 13681), (354, 13693), (367, 13753), (397, 13906), (399, 13915), (410, 13987), (416, 14017), (432, 14089), (437, 14113),

Gene: Twonlo_18 Start: 13218, Stop: 15107, Start Num: 45

Candidate Starts for Twonlo_18:

(42, 13209), (Start: 45 @13218 has 116 MA's), (Start: 68 @13284 has 37 MA's), (111, 13452), (115, 13470), (153, 13743), (177, 13839), (233, 14031), (237, 14046), (249, 14124), (262, 14193), (274, 14256), (277, 14268), (278, 14271), (303, 14355), (306, 14370), (323, 14469), (331, 14523), (351, 14628), (373, 14718), (387, 14799), (397, 14856), (409, 14925), (410, 14937), (417, 14973), (432, 15039),

Gene: Tycho_20 Start: 14565, Stop: 16484, Start Num: 45

Candidate Starts for Tycho_20:

(Start: 45 @14565 has 116 MA's), (88, 14700), (111, 14796), (151, 15090), (166, 15159), (177, 15207), (182, 15231), (190, 15267), (198, 15300), (206, 15324), (238, 15417), (260, 15558), (262, 15564), (274, 15627), (277, 15639), (278, 15642), (281, 15654), (306, 15741), (327, 15864), (331, 15900), (341, 15933), (351, 16005), (361, 16044), (373, 16095), (397, 16233), (398, 16239), (399, 16242), (407, 16293), (417, 16350), (418, 16362), (421, 16371),

Gene: Tyrumbra_25 Start: 12826, Stop: 14847, Start Num: 38

Candidate Starts for Tyrumbra_25:

(Start: 38 @12826 has 58 MA's), (171, 13411), (187, 13492), (195, 13516), (211, 13561), (218, 13582), (250, 13735), (289, 13993), (291, 14065), (301, 14125), (303, 14149), (327, 14287), (332, 14311), (333, 14314), (355, 14425), (382, 14554), (384, 14569), (392, 14578), (397, 14605), (400, 14617), (404, 14647), (409, 14674), (430, 14776),

Gene: Valary_22 Start: 12733, Stop: 14619, Start Num: 45

Candidate Starts for Valary_22:

(Start: 45 @12733 has 116 MA's), (112, 12970), (115, 12982), (121, 13036), (153, 13258), (191, 13420), (199, 13453), (262, 13705), (276, 13777), (298, 13834), (301, 13846), (320, 13963), (327, 14008), (328, 14011), (351, 14134), (354, 14146), (367, 14206), (397, 14359), (399, 14368), (410, 14440), (416, 14470), (432, 14542), (437, 14566),

Gene: VanDeWege_22 Start: 12661, Stop: 14547, Start Num: 45

Candidate Starts for VanDeWege_22:

(Start: 45 @12661 has 116 MA's), (112, 12898), (115, 12910), (121, 12964), (153, 13186), (191, 13348), (199, 13381), (262, 13633), (276, 13705), (298, 13762), (301, 13774), (320, 13891), (327, 13936), (328, 13939), (351, 14062), (354, 14074), (367, 14134), (397, 14287), (399, 14296), (410, 14368), (416, 14398), (432, 14470), (437, 14494),

Gene: Verity_21 Start: 14990, Stop: 16909, Start Num: 45

Candidate Starts for Verity_21:

(Start: 45 @14990 has 116 MA's), (78, 15089), (107, 15206), (110, 15218), (111, 15221), (134, 15395), (154, 15509), (163, 15542), (176, 15608), (178, 15614), (190, 15668), (196, 15692), (209, 15728), (257, 15944), (260, 15962), (262, 15968), (274, 16031), (277, 16043), (278, 16046), (281, 16058), (306, 16148), (311, 16175), (341, 16334), (353, 16412), (362, 16448), (375, 16508), (382, 16553), (397, 16664), (401, 16697), (417, 16781), (420, 16799), (428, 16829),

Gene: ViaConlectus_22 Start: 15542, Stop: 17461, Start Num: 45

Candidate Starts for ViaConlectus_22:

(Start: 45 @15542 has 116 MA's), (107, 15758), (111, 15773), (134, 15947), (163, 16094), (176, 16160), (178, 16166), (190, 16220), (196, 16244), (201, 16268), (257, 16496), (260, 16514), (262, 16520), (274, 16583), (277, 16595), (278, 16598), (281, 16610), (306, 16700), (311, 16727), (341, 16886), (353, 16964), (375, 17060), (381, 17096), (389, 17159), (392, 17189), (397, 17216), (401, 17249), (417, 17333), (427, 17378),

Gene: Viceroy_24 Start: 13492, Stop: 15324, Start Num: 68

Candidate Starts for Viceroy_24:

(Start: 68 @13492 has 37 MA's), (70, 13501), (96, 13600), (153, 13966), (190, 14134), (192, 14149), (215, 14209), (229, 14257), (231, 14263), (238, 14287), (258, 14404), (259, 14410), (278, 14503), (304, 14584), (322, 14677), (323, 14692), (330, 14740), (337, 14764), (348, 14812), (350, 14836), (360, 14884), (370, 14926), (396, 15061), (397, 15073), (399, 15082), (409, 15142), (421, 15211), (430, 15244),

Gene: Vivi2_20 Start: 15311, Stop: 17209, Start Num: 45

Candidate Starts for Vivi2_20:

(Start: 45 @15311 has 116 MA's), (111, 15542), (115, 15560), (151, 15818), (182, 15956), (198, 16025), (212, 16058), (260, 16283), (262, 16289), (274, 16352), (277, 16364), (278, 16367), (281, 16379), (306, 16466), (327, 16589), (331, 16625), (361, 16769), (373, 16820), (398, 16964), (399, 16967), (400, 16970), (407, 17018), (417, 17075),

Gene: WaddleDee_69 Start: 43531, Stop: 45537, Start Num: 8

Candidate Starts for WaddleDee_69:

(Start: 8 @43531 has 11 MA's), (Start: 20 @43585 has 1 MA's), (157, 44242), (190, 44377), (199, 44419), (227, 44494), (256, 44641), (273, 44728), (278, 44743), (320, 44923),

Gene: Wayne3_26 Start: 14457, Stop: 16289, Start Num: 68

Candidate Starts for Wayne3_26:

(Start: 68 @14457 has 37 MA's), (70, 14466), (96, 14565), (153, 14931), (190, 15099), (192, 15114), (215, 15174), (229, 15222), (231, 15228), (238, 15252), (258, 15369), (259, 15375), (278, 15468), (304, 15549), (322, 15642), (323, 15657), (330, 15705), (337, 15729), (348, 15777), (350, 15801), (360, 15849), (370, 15891), (396, 16026), (397, 16038), (399, 16047), (409, 16107), (421, 16176), (430, 16209),

Gene: WheelerS25_30 Start: 15293, Stop: 17119, Start Num: 68

Candidate Starts for WheelerS25_30:

(Start: 68 @15293 has 37 MA's), (70, 15302), (96, 15401), (145, 15728), (153, 15761), (190, 15929), (192, 15944), (215, 16004), (229, 16052), (231, 16058), (238, 16082), (257, 16196), (258, 16199), (259, 16205), (278, 16298), (304, 16379), (322, 16472), (323, 16487), (330, 16535), (337, 16559), (348, 16607), (350, 16631), (360, 16679), (370, 16721), (396, 16856), (399, 16877), (409, 16937), (421, 17006), (430, 17039),

Gene: Wheelie_24 Start: 13808, Stop: 15640, Start Num: 68

Candidate Starts for Wheelie_24:

(Start: 68 @13808 has 37 MA's), (70, 13817), (96, 13916), (153, 14282), (190, 14450), (192, 14465), (215, 14525), (229, 14573), (231, 14579), (238, 14603), (258, 14720), (259, 14726), (278, 14819), (304, 14900), (322, 14993), (323, 15008), (330, 15056), (337, 15080), (348, 15128), (350, 15152), (360, 15200), (370, 15242), (396, 15377), (397, 15389), (399, 15398), (409, 15458), (421, 15527), (430, 15560),

Gene: Wilca_24 Start: 12993, Stop: 14771, Start Num: 65

Candidate Starts for Wilca_24:

(Start: 65 @12993 has 11 MA's), (70, 13005), (135, 13350), (161, 13464), (190, 13590), (215, 13656), (229, 13704), (238, 13734), (278, 13947), (304, 14028), (306, 14037), (320, 14115), (322, 14121), (323, 14136), (350, 14280), (358, 14322), (370, 14373), (397, 14520), (399, 14529), (426, 14679), (430, 14691), (442, 14751),

Gene: Wilde_20 Start: 13011, Stop: 14774, Start Num: 63

Candidate Starts for Wilde_20:

(40, 12945), (Start: 63 @13011 has 19 MA's), (147, 13449), (164, 13518), (170, 13542), (188, 13611), (220, 13692), (247, 13800), (252, 13851), (254, 13863), (257, 13872), (306, 14064), (308, 14073), (309, 14076), (320, 14142), (323, 14163), (324, 14169), (327, 14187), (350, 14298), (363, 14358), (373, 14397), (379, 14439), (400, 14532), (405, 14571), (436, 14724),

Gene: Wizard_19 Start: 11982, Stop: 13874, Start Num: 45

Candidate Starts for Wizard_19:

(Start: 45 @11982 has 116 MA's), (112, 12219), (115, 12231), (121, 12285), (153, 12510), (191, 12672), (199, 12705), (213, 12732), (298, 13098), (301, 13110), (320, 13227), (327, 13272), (328, 13275), (343, 13335), (345, 13353), (351, 13398), (354, 13410), (355, 13413), (381, 13533), (388, 13572), (399, 13632), (410, 13704), (416, 13734), (420, 13758), (427, 13785), (428, 13788), (433, 13815),

Gene: Xkcd426_14 Start: 14736, Stop: 16433, Start Num: 90

Candidate Starts for Xkcd426_14:

(86, 14721), (Start: 90 @14736 has 12 MA's), (116, 14823), (131, 14970), (146, 15072), (157, 15117), (179, 15210), (181, 15219), (182, 15225), (196, 15282), (216, 15327), (217, 15330), (228, 15369), (239, 15411), (256, 15522), (314, 15771), (315, 15774), (320, 15798), (326, 15831), (333, 15870), (335, 15876), (349, 15939), (354, 15981), (361, 16008), (362, 16011), (370, 16047), (408, 16257), (419, 16320), (423, 16335), (428, 16353),

Gene: YDN12_14 Start: 13688, Stop: 15382, Start Num: 90

Candidate Starts for YDN12_14:

(Start: 90 @13688 has 12 MA's), (91, 13697), (120, 13799), (135, 13955), (153, 14051), (167, 14132), (179, 14177), (181, 14186), (188, 14219), (195, 14246), (196, 14249), (217, 14297), (226, 14330), (227, 14333), (237, 14372), (239, 14378), (247, 14420), (256, 14489), (306, 14669), (317, 14735), (320, 14747), (343, 14867), (349, 14900), (354, 14942), (379, 15059), (399, 15155), (408, 15212), (419, 15275), (421, 15281), (430, 15314), (434, 15338), (440, 15356), (444, 15371),

Gene: Yeti_27 Start: 13790, Stop: 15646, Start Num: 38

Candidate Starts for Yeti_27:

(Start: 38 @13790 has 58 MA's), (171, 14366), (180, 14411), (187, 14447), (211, 14516), (218, 14537), (219, 14540), (227, 14570), (250, 14690), (264, 14771), (293, 14885), (301, 14912), (333, 15101), (358, 15227), (382, 15341), (384, 15356), (400, 15404), (404, 15434), (406, 15446), (409, 15461), (411, 15476), (420, 15527), (425, 15545), (430, 15563),

Gene: YorkOnyx_21 Start: 14834, Stop: 16753, Start Num: 45

Candidate Starts for YorkOnyx_21:

(Start: 45 @14834 has 116 MA's), (88, 14969), (111, 15065), (151, 15359), (166, 15428), (177, 15476), (182, 15500), (190, 15536), (198, 15569), (206, 15593), (238, 15686), (260, 15827), (262, 15833), (274, 15896), (277, 15908), (278, 15911), (281, 15923), (298, 15959), (303, 15995), (306, 16010), (315, 16064), (327, 16133), (331, 16169), (341, 16202), (351, 16274), (361, 16313), (373, 16364), (397, 16502), (398, 16508), (399, 16511), (407, 16562), (417, 16619), (418, 16631), (421, 16640),

Gene: YungMoney_21 Start: 13292, Stop: 15184, Start Num: 45

Candidate Starts for YungMoney_21:

(Start: 45 @13292 has 116 MA's), (112, 13529), (115, 13541), (121, 13595), (191, 13982), (199, 14015), (212, 14039), (262, 14279), (298, 14408), (301, 14420), (305, 14456), (320, 14537), (327, 14582), (328, 14585), (343, 14645), (351, 14708), (354, 14720), (399, 14942), (410, 15014), (416, 15044), (420, 15068), (427, 15095), (428, 15098),

Gene: Zagie_25 Start: 13996, Stop: 15828, Start Num: 68

Candidate Starts for Zagie_25:

(Start: 68 @13996 has 37 MA's), (70, 14005), (96, 14104), (153, 14470), (190, 14638), (192, 14653), (215, 14713), (229, 14761), (231, 14767), (238, 14791), (258, 14908), (259, 14914), (278, 15007), (304, 15088), (322, 15181), (323, 15196), (330, 15244), (337, 15268), (348, 15316), (350, 15340), (360, 15388), (370, 15430), (396, 15565), (397, 15577), (399, 15586), (409, 15646), (421, 15715), (430, 15748),

Gene: Zapato_26 Start: 13457, Stop: 15301, Start Num: 38

Candidate Starts for Zapato_26:

(Start: 38 @13457 has 58 MA's), (171, 14024), (180, 14069), (187, 14105), (211, 14174), (218, 14195), (219, 14198), (250, 14348), (258, 14387), (301, 14570), (303, 14594), (327, 14732), (333, 14759), (365, 14915), (382, 14999), (384, 15014), (392, 15023), (397, 15050), (400, 15062), (403, 15089), (404, 15092), (411, 15134),

Gene: Zenteno07_17 Start: 10822, Stop: 12648, Start Num: 51

Candidate Starts for Zenteno07_17:

(39, 10798), (Start: 51 @10822 has 5 MA's), (61, 10852), (76, 10894), (94, 10966), (153, 11314), (157, 11344), (162, 11359), (178, 11419), (201, 11515), (214, 11542), (253, 11722), (301, 11905), (306, 11947), (317, 12013), (327, 12070), (328, 12073), (346, 12157), (365, 12259), (368, 12274), (370, 12280), (394, 12400), (397, 12415), (404, 12457), (409, 12484), (413, 12508), (416, 12526), (427, 12577), (428, 12580), (432, 12598),

Gene: Zhafia_27 Start: 14319, Stop: 16151, Start Num: 68

Candidate Starts for Zhafia_27:

(Start: 68 @14319 has 37 MA's), (70, 14328), (96, 14427), (153, 14793), (190, 14961), (192, 14976), (215, 15036), (229, 15084), (231, 15090), (238, 15114), (258, 15231), (259, 15237), (278, 15330), (304, 15411), (322, 15504), (323, 15519), (330, 15567), (337, 15591), (348, 15639), (350, 15663), (360, 15711), (370, 15753), (396, 15888), (397, 15900), (399, 15909), (409, 15969), (421, 16038), (430, 16071),

Gene: Zipp_21 Start: 15639, Stop: 17558, Start Num: 45

Candidate Starts for Zipp_21:

(Start: 45 @15639 has 116 MA's), (78, 15738), (107, 15855), (110, 15867), (111, 15870), (134, 16044), (154, 16158), (163, 16191), (176, 16257), (178, 16263), (190, 16317), (196, 16341), (209, 16377), (257, 16593), (260, 16611), (262, 16617), (274, 16680), (277, 16692), (278, 16695), (281, 16707), (306, 16797), (311, 16824), (341, 16983), (353, 17061), (362, 17097), (375, 17157), (382, 17202), (397, 17313), (401, 17346), (417, 17430), (420, 17448), (428, 17478),

Gene: Zitch_23 Start: 14769, Stop: 16688, Start Num: 45

Candidate Starts for Zitch_23:

(Start: 45 @14769 has 116 MA's), (107, 14988), (110, 15000), (111, 15003), (121, 15075), (134, 15177), (163, 15324), (176, 15390), (178, 15396), (190, 15450), (196, 15474), (201, 15498), (257, 15726), (260, 15744), (262, 15750), (274, 15813), (277, 15825), (278, 15828), (281, 15840), (306, 15930), (311, 15957), (341, 16116), (353, 16194), (375, 16290), (417, 16560), (420, 16578), (428, 16608),

Gene: Zooman_73 Start: 42476, Stop: 44485, Start Num: 9

Candidate Starts for Zooman_73:

(1, 42350), (2, 42356), (3, 42377), (Start: 9 @42476 has 8 MA's), (12, 42497), (Start: 38 @42611 has 58 MA's), (46, 42629), (52, 42641), (74, 42716), (160, 43187), (179, 43271), (195, 43343), (196, 43346), (279, 43694), (366, 44105), (415, 44375),

Gene: phiAsp2_14 Start: 8361, Stop: 10073, Start Num: 93

Candidate Starts for phiAsp2_14:

(53, 8205), (73, 8277), (77, 8292), (93, 8361), (99, 8382), (158, 8763), (165, 8793), (186, 8883), (208, 8955), (232, 9033), (243, 9075), (255, 9171), (257, 9180), (283, 9309), (302, 9360), (303, 9366), (305, 9378), (320, 9459), (326, 9492), (328, 9507), (330, 9528), (349, 9606), (350, 9624), (353, 9642), (362, 9678), (373, 9723), (405, 9912), (406, 9915), (409, 9930), (420, 9996), (422, 10005),