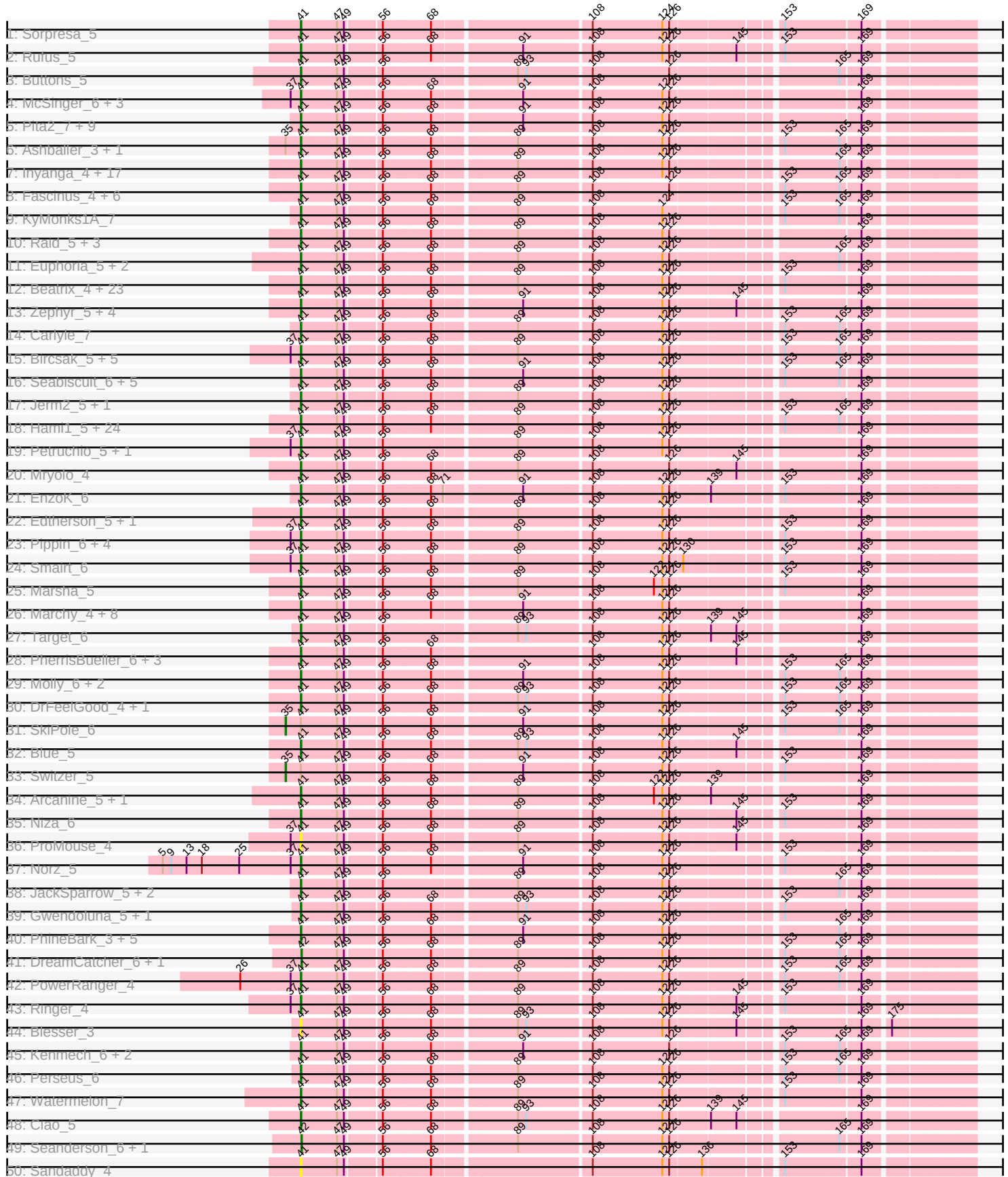
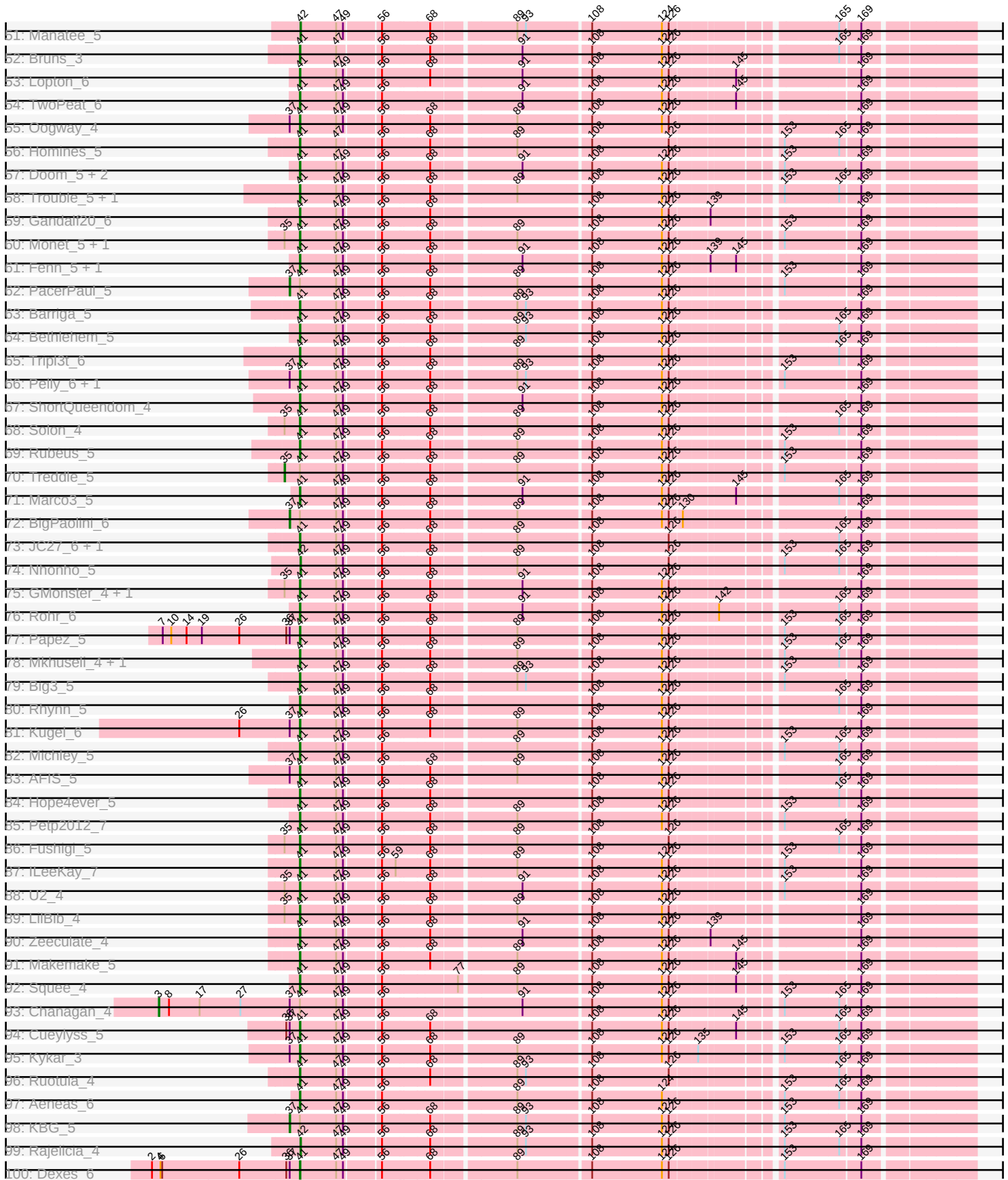
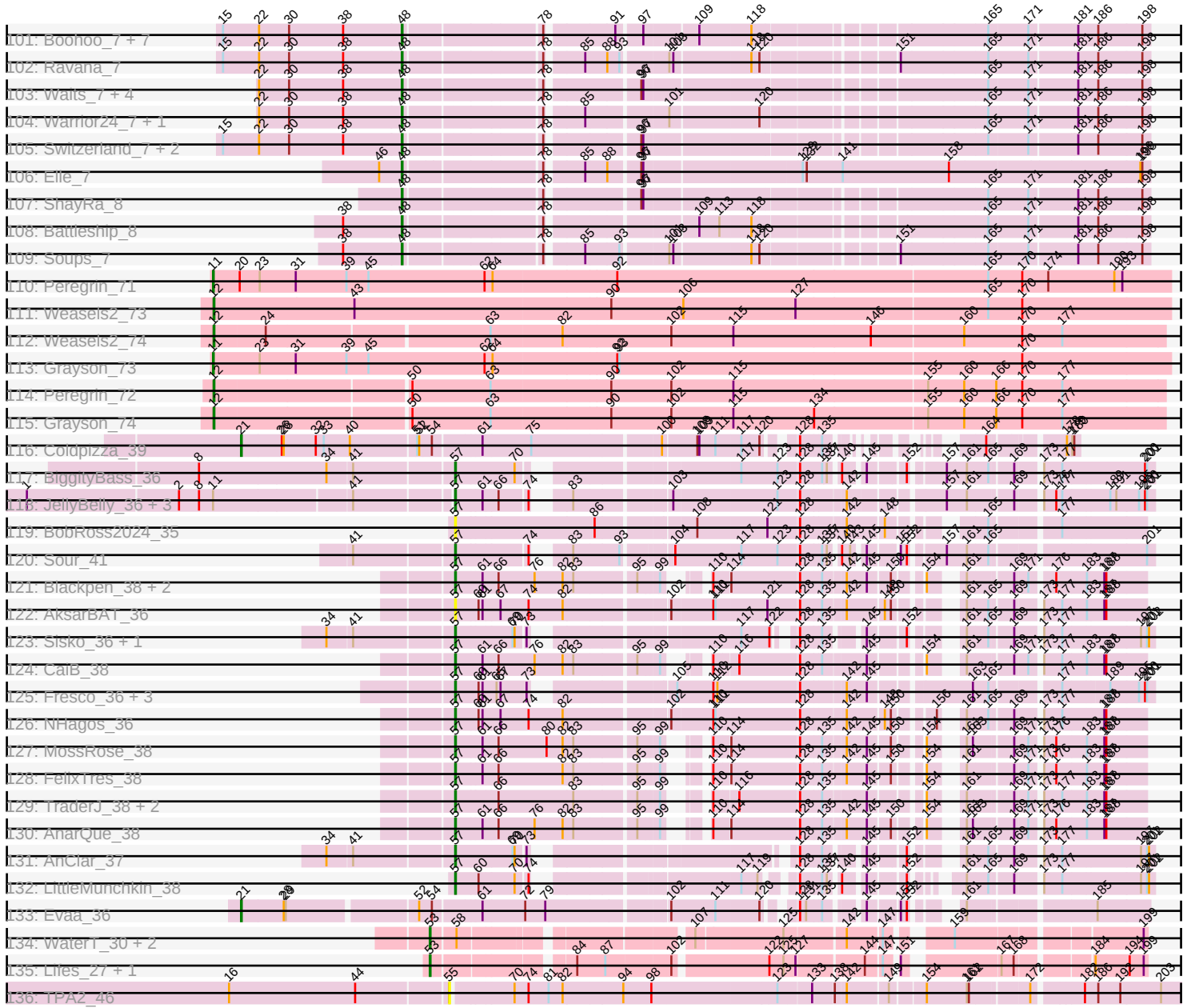






Pham 330397



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 330397 Report

This analysis was run 09/05/26 on database version 662.

Pham number 330397 has 309 members, 24 are drafts.

Phages represented in each track:

- Track 1 : Sorpresa_5
- Track 2 : Rufus_5
- Track 3 : Buttons_5
- Track 4 : McSinger_6, Bigchungji_4, Snazzy_3, Sanya_5
- Track 5 : Pita2_7, Pari_6, Swole_7, Tote_7, BPBiebs31_6, HermioneGrange_6, PSullivan_7, Tasp14_6, JuliaChild_7, Alsfro_9
- Track 6 : Ashballer_3, Abrogate_60
- Track 7 : Inyanga_4, Dulcie_4, DirtDevil_5, CatBus_5, Noxious_6, QTRLifeCrisis_4, Museum_6, Burton_5, Graduation_6, Aldrich_5, Nerujay_5, KikiBouba_6, HarryOW_6, Hermia_6, TheloniousMonk_5, GrecoEtereo_6, Iqorha_4, GroundGoblin_5
- Track 8 : Fascinus_4, Phlipppers_4, CactusRose_4, Wheeler_5, Puppet_5, Maroc7_4, BillKnuckles_5
- Track 9 : KyMonks1A_7
- Track 10 : Raid_5, Parliament_4, Espresso_5, Magnito_4
- Track 11 : Euphoria_5, NEHalo_5, BaconJack_6
- Track 12 : Beatrix_4, Bexan_4, Alvin_6, Agaliana_5, Bob3_4, Altman_6, RidgeCB_5, Sumter_4, Kanely_6, Bones_5, IgnatiusPatJac_4, BluSpix_4, Pinto_7, HanShotFirst_5, StrongArm_4, Violet_4, Arlo_4, Lesedi_4, ConceptII_5, ChristmasHams_5, MPlant7149_4, Eyeball_5, Sibs6_6, Turj99_4
- Track 13 : Zephyr_5, Corvo_5, Ohno789_4, MetalQZJ_5, MaryBeth_5
- Track 14 : Carlyle_7
- Track 15 : Bircsak_5, Applejack_5, Gompeii16_5, Rutherferd_6, Lockley_5, Sunshine924_4
- Track 16 : Seabiscuit_6, McGuire_5, Ichabod_5, Dynamix_5, DD5_5, BeesKnees_5
- Track 17 : Jerm2_5, BigMau_6
- Track 18 : Hami1_5, Paphu_4, Topgun_5, Paraselene_4, CartmannCramer_4, GageAP_6, BK1_03, MilleFeuille_4, StewieG_4, MrGordo_5, Gyzlar_6, PhrostyMug_4, A6_03, Magnar_5, Scowl_6, SpikeBT_5, Mule_4, Pepe_6, Anglerfish_5, Licorice_7, Gachnar_5, Marcell_5, LunarLander_5, Wilkins_5, Bxb1_4
- Track 19 : Petruccio_5, Froghopper_6
- Track 20 : Mryolo_4
- Track 21 : EnzoK_6
- Track 22 : Edtherson_5, Traft412_7
- Track 23 : Pippin_6, Greg_6, Marge_5, Fajezeel_6, Acme_6
- Track 24 : Smairt_6
- Track 25 : Marsha_5

- Track 26 : Marchy_4, Payneful_5, Ajay_5, BarrowTuph_4, Killigrew_3, Teodoridan_3, PattyP_6, Whitspit_5, Blackflame_4
- Track 27 : Target_6
- Track 28 : PherrisBueller_6, Jorgensen_5, Jasper_6, Dreamboat_6
- Track 29 : Molly_6, STLscum_6, KSSJEB_4
- Track 30 : DrFeelGood_4, Zeuska_4
- Track 31 : SkiPole_6
- Track 32 : Blue_5
- Track 33 : Switzer_5
- Track 34 : Arcanine_5, Slagathor_5
- Track 35 : Niza_6
- Track 36 : ProMouse_4
- Track 37 : Norz_5
- Track 38 : JackSparrow_5, Thor_5, SarFire_5
- Track 39 : Gwendoluna_5, Smeagol_6
- Track 40 : PhineBark_3, SwissCheese_5, Levia_4, Lamina13_5, Forsytheast_4, Moose_4
- Track 41 : DreamCatcher_6, Atkinbua_5
- Track 42 : PowerRanger_4
- Track 43 : Ringer_4
- Track 44 : Blessor_3
- Track 45 : Kenmech_6, Abbysshoes_6, Dussy_6
- Track 46 : Perseus_6
- Track 47 : Watermelon_7
- Track 48 : Ciao_5
- Track 49 : Seanderson_6, PinkPlastic_3
- Track 50 : Sandaddy_4
- Track 51 : Manatee_5
- Track 52 : Bruns_3
- Track 53 : Lopton_6
- Track 54 : TwoPeat_6
- Track 55 : Oogway_4
- Track 56 : Homines_5
- Track 57 : Doom_5, Briton15_6, Adahisdi_6
- Track 58 : Trouble_5, Peterson_7
- Track 59 : Gandalf20_6
- Track 60 : Monet_5, Sagefire_6
- Track 61 : Fenn_5, Naira_5
- Track 62 : PacerPaul_5
- Track 63 : Barriga_5
- Track 64 : Bethlehem_5
- Track 65 : Tripl3t_6
- Track 66 : Pelly_6, Francis47_5
- Track 67 : ShortQueendom_4
- Track 68 : Solon_4
- Track 69 : Rubeus_5
- Track 70 : Treddle_5
- Track 71 : Marco3_5
- Track 72 : BigPaolini_6
- Track 73 : JC27_6, Bigfoot_4
- Track 74 : Nhonho_5
- Track 75 : GMonster_4, PascalRango_4
- Track 76 : Rohr_6

- Track 77 : Papez_5
- Track 78 : Mkhuseleli_4, Crispious1_4
- Track 79 : Big3_5
- Track 80 : Rhynn_5
- Track 81 : Kugel_6
- Track 82 : Michley_5
- Track 83 : AFIS_5
- Track 84 : Hope4ever_5
- Track 85 : Petp2012_7
- Track 86 : Fushigi_5
- Track 87 : ILeeKay_7
- Track 88 : U2_4
- Track 89 : LilBib_4
- Track 90 : Zeeculate_4
- Track 91 : Makemake_5
- Track 92 : Squee_4
- Track 93 : Chanagan_4
- Track 94 : Cueylyss_5
- Track 95 : Kykar_3
- Track 96 : Ruotula_4
- Track 97 : Aeneas_6
- Track 98 : KBG_5
- Track 99 : Rajelicia_4
- Track 100 : Dexes_6
- Track 101 : Boohoo_7, JSwag_7, Epsocamisio_7, Nebulosus_7, LastResort_7, ReMo_7, Looper_7, Anaysia_7
- Track 102 : Ravana_7
- Track 103 : Waits_7, Remus_7, KatherineG_7, Strosahl_7, DekHockey33_7
- Track 104 : Warrior24_7, Oofda_7
- Track 105 : Switzerland_7, Rosalind_7, MinecraftSteve_8
- Track 106 : Elle_7
- Track 107 : ShayRa_8
- Track 108 : Battleship_8
- Track 109 : Soups_7
- Track 110 : Peregrin_71
- Track 111 : Weasels2_73
- Track 112 : Weasels2_74
- Track 113 : Grayson_73
- Track 114 : Peregrin_72
- Track 115 : Grayson_74
- Track 116 : Coldpizza_39
- Track 117 : BiggityBass_36
- Track 118 : JellyBelly_36, Mariokart_36, Coco2012_36, CharlottesWeb_36
- Track 119 : BobRoss2024_35
- Track 120 : Sour_41
- Track 121 : Blackpen_38, CloverMinnie_38, MakoManhole_38
- Track 122 : AksarBAT_36
- Track 123 : Sisko_36, Yago84_36
- Track 124 : CaiB_38
- Track 125 : Fresco_36, Axumite_36, Ligma_36, Shatter_36
- Track 126 : NHagos_36
- Track 127 : MossRose_38
- Track 128 : FelixTres_38

- Track 129 : TraderJ_38, Yeshua_38, Wooper_38
- Track 130 : AnarQue_38
- Track 131 : AnClar_37
- Track 132 : LittleMunchkin_38
- Track 133 : Evaa_36
- Track 134 : WaterT_30, LeeroyJenkins_31, Cassita_31
- Track 135 : Lifes_27, BarnCat_25
- Track 136 : TPA2_46

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

The start number called the most often in the published annotations is 41, it was called in 214 of the 285 non-draft genes in the pham.

Genes that call this "Most Annotated" start:

- A6_03, AFIS_5, Abbyshoes_6, Abrogate_60, Acme_6, Adahisdi_6, Aeneas_6, Agaliana_5, Ajay_5, Aldrich_5, Alsfro_9, Altman_6, Alvin_6, Anglerfish_5, Applejack_5, Arcanine_5, Arlo_4, Ashballer_3, BK1_03, BPBiebs31_6, BaconJack_6, Barriga_5, BarrowTuph_4, Beatrix_4, BeesKnees_5, Bethlehem_5, Bexan_4, Big3_5, BigMau_6, Bigchung_4, Bigfoot_4, BillKnuckles_5, Bircsak_5, Blackflame_4, Blesser_3, BluSpix_4, Blue_5, Bob3_4, Bones_5, Briton15_6, Bruns_3, Burton_5, Buttons_5, Bxb1_4, CactusRose_4, Carlyle_7, CartmannCramer_4, CatBus_5, ChristmasHams_5, Ciao_5, ConceptII_5, Corvo_5, Crispicous1_4, Cueyllyss_5, DD5_5, Dexes_6, DirtDevil_5, Doom_5, DrFeelGood_4, Dreamboat_6, Dulcie_4, Dussy_6, Dynamix_5, Edtherson_5, EnzoK_6, Espresso_5, Euphoria_5, Eyeball_5, Fajezeel_6, Fascinus_4, Fenn_5, Forsytheast_4, Francis47_5, Froghopper_6, Fushigi_5, GMonster_4, Gachnar_5, GageAP_6, Gandalf20_6, Gompeii16_5, Graduation_6, GrecoEtereo_6, Greg_6, GroundGoblin_5, Gwendoluna_5, Gyzlar_6, Hami1_5, HanShotFirst_5, HarryOW_6, Hermia_6, HermioneGrange_6, Homines_5, Hope4ever_5, ILeeKay_7, Ichabod_5, IgnatiusPatJac_4, Inyanga_4, Iqorha_4, JC27_6, JackSparrow_5, Jasper_6, Jerm2_5, Jorgensen_5, JuliaChild_7, KSSJEB_4, Kanely_6, Kenmech_6, KikiBouba_6, Killigrew_3, Kugel_6, KyMonks1A_7, Kykar_3, Lamina13_5, Lesedi_4, Levia_4, Licorice_7, LilBib_4, Lockley_5, Lopton_6, LunarLander_5, MPlant7149_4, Magnar_5, Magnito_4, Makemake_5, Marcell_5, Marchy_4, Marco3_5, Marge_5, Maroc7_4, Marsha_5, MaryBeth_5, McGuire_5, McSinger_6, MetalQZJ_5, Michley_5, MilleFeuille_4, Mkhusei_4, Molly_6, Monet_5, Moose_4, MrGordo_5, Mryolo_4, Mule_4, Museum_6, NEHalo_5, Naira_5, Nerujay_5, Niza_6, Norz_5, Noxious_6, Ohno789_4, Oogway_4, PSullivan_7, Papez_5, Paphu_4, Paraselene_4, Pari_6, Parliament_4, PascalRango_4, PattyP_6, Payneful_5, Pelly_6, Pepe_6, Perseus_6, Peterson_7, Petp2012_7, Petruchio_5, PherrisBueller_6, PhineBark_3, Phlippers_4, PhrostyMug_4, Pinto_7, Pippin_6, Pita2_7, PowerRanger_4, ProMouse_4, Puppet_5, QTRlifeCrisis_4, Raid_5, Rhynn_5, RidgeCB_5, Ringer_4, Rohr_6, Rubeus_5, Rufus_5, Ruotula_4, Rutherford_6, STLscum_6, Sagefire_6, Sandaddy_4, Sanya_5, SarFire_5, Scowl_6, Seabiscuit_6, ShortQueendom_4, Sibs6_6, Slagathor_5, Smairt_6, Smeagol_6, Snazzy_3, Solon_4, Sorpresa_5, SpikeBT_5, Squee_4, StewieG_4, StrongArm_4, Sumter_4, Sunshine924_4, SwissCheese_5, Swole_7, Target_6, Tasp14_6, Teodoridan_3, TheloniousMonk_5, Thor_5, Topgun_5, Tote_7, Traft412_7, Tripl3t_6, Trouble_5, Turj99_4, TwoPeat_6, U2_4, Violet_4, Watermelon_7, Wheeler_5, Whitspit_5, Wilkins_5, Zeeculate_4, Zephyr_5, Zeuska_4,

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

- AnClar_37, BigPaolini_6, BiggityBass_36, Chanagan_4, CharlottesWeb_36, Coco2012_36, JellyBelly_36, KBG_5, Mariokart_36, PacerPaul_5, Sisko_36, SkiPole_6, Sour_41, Switzer_5, Treddle_5, Yago84_36,

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

- AksarBAT_36, AnarQue_38, Anaysia_7, Atkinbua_5, Axumite_36, BarnCat_25, Battleship_8, Blackpen_38, BobRoss2024_35, BooHoo_7, CaiB_38, Cassita_31, CloverMinnie_38, Coldpizza_39, DekHockey33_7, DreamCatcher_6, Elle_7, Epsocamisio_7, Evaa_36, FelixTres_38, Fresco_36, Grayson_73, Grayson_74, JSwag_7, KatherineG_7, LastResort_7, LeeroyJenkins_31, Lifes_27, Ligma_36, LittleMunchkin_38, Looper_7, MakoManhole_38, Manatee_5, MinecraftSteve_8, MossRose_38, NHagos_36, Nebulosus_7, Nhonho_5, Oofda_7, Peregrin_71, Peregrin_72, PinkPlastic_3, Rajelicia_4, Ravana_7, ReMo_7, Remus_7, Rosalind_7, Seanderson_6, Shatter_36, ShayRa_8, Soups_7, Strosahl_7, Switzerland_7, TPA2_46, TraderJ_38, Waits_7, Warrior24_7, WaterT_30, Weasels2_73, Weasels2_74, Wooper_38, Yeshua_38,

Summary by start number:

Start 3:

- Found in 1 of 309 (0.3%) of genes in pham
- Manual Annotations of this start: 1 of 285
- Called 100.0% of time when present
- Phage (with cluster) where this start called: Chanagan_4 (A1),

Start 11:

- Found in 6 of 309 (1.9%) of genes in pham
- Manual Annotations of this start: 2 of 285
- Called 33.3% of time when present
- Phage (with cluster) where this start called: Grayson_73 (CB), Peregrin_71 (CB),

Start 12:

- Found in 4 of 309 (1.3%) of genes in pham
- Manual Annotations of this start: 4 of 285
- Called 100.0% of time when present
- Phage (with cluster) where this start called: Grayson_74 (CB), Peregrin_72 (CB), Weasels2_73 (CB), Weasels2_74 (CB),

Start 21:

- Found in 2 of 309 (0.6%) of genes in pham
- Manual Annotations of this start: 2 of 285
- Called 100.0% of time when present
- Phage (with cluster) where this start called: Coldpizza_39 (DR), Evaa_36 (DR),

Start 35:

- Found in 13 of 309 (4.2%) of genes in pham
- Manual Annotations of this start: 3 of 285
- Called 23.1% of time when present
- Phage (with cluster) where this start called: SkiPole_6 (A1), Switzer_5 (A1), Treddle_5 (A1),

Start 37:

- Found in 35 of 309 (11.3%) of genes in pham
- Manual Annotations of this start: 3 of 285
- Called 8.6% of time when present
- Phage (with cluster) where this start called: BigPaolini_6 (A1), KBG_5 (A1), PacerPaul_5 (A1),

Start 41:

- Found in 247 of 309 (79.9%) of genes in pham
- Manual Annotations of this start: 214 of 285
- Called 93.5% of time when present
- Phage (with cluster) where this start called: A6_03 (A1), AFIS_5 (A1), Abbysshoes_6 (A1), Abrogate_60 (A1), Acme_6 (A1), Adahisdi_6 (A1), Aeneas_6 (A1), Agaliana_5 (A1), Ajay_5 (A1), Aldrich_5 (A1), Alsfro_9 (A1), Altman_6 (A1), Alvin_6 (A1), Anglerfish_5 (A1), Applejack_5 (A1), Arcanine_5 (A1), Arlo_4 (A1), Ashballer_3 (A1), BK1_03 (A1), BPBiebs31_6 (A1), BaconJack_6 (A1), Barriga_5 (A1), BarrowTuph_4 (A1), Beatrix_4 (A1), BeesKnees_5 (A1), Bethlehem_5 (A1), Bexan_4 (A1), Big3_5 (A1), BigMau_6 (A1), Bigchungi_4 (A1), Bigfoot_4 (A1), BillKnuckles_5 (A1), Bircsak_5 (A1), Blackflame_4 (A1), Blessers_3 (A1), BluSpix_4 (A1), Blue_5 (A1), Bob3_4 (A1), Bones_5 (A1), Briton15_6 (A1), Bruns_3 (A1), Burton_5 (A1), Buttons_5 (A1), Bxb1_4 (A1), CactusRose_4 (A1), Carlyle_7 (A1), CartmannCramer_4 (A1), CatBus_5 (A1), ChristmasHams_5 (A1), Ciao_5 (A1), ConceptII_5 (A1), Corvo_5 (A1), Crispicous1_4 (A1), Cueylyss_5 (A1), DD5_5 (A1), Dexes_6 (A1), DirtDevil_5 (A1), Doom_5 (A1), DrFeelGood_4 (A1), Dreamboat_6 (A1), Dulcie_4 (A1), Dussy_6 (A1), Dynamix_5 (A1), Edtherson_5 (A1), EnzoK_6 (A1), Espresso_5 (A1), Euphoria_5 (A1), Eyeball_5 (A1), Fajezeel_6 (A1), Fascinus_4 (A1), Fenn_5 (A1), Forsytheast_4 (A1), Francis47_5 (A1), Froghopper_6 (A1), Fushigi_5 (A1), GMonster_4 (A1), Gachnar_5 (A1), GageAP_6 (A1), Gandalf20_6 (A1), Gompeii16_5 (A1), Graduation_6 (A1), GrecoEtereo_6 (A1), Greg_6 (A1), GroundGoblin_5 (A1), Gwendoluna_5 (A1), Gyzlar_6 (A1), Hami1_5 (A1), HanShotFirst_5 (A1), HarryOW_6 (A1), Hermia_6 (A1), HermioneGrange_6 (A1), Homines_5 (A1), Hope4ever_5 (A1), ILeeKay_7 (A1), Ichabod_5 (A1), IgnatiusPatJac_4 (A1), Inyanga_4 (A1), Igorha_4 (A1), JC27_6 (A1), JackSparrow_5 (A1), Jasper_6 (A1), Jerm2_5 (A1), Jorgensen_5 (A1), JuliaChild_7 (A1), KSSJEB_4 (A1), Kanely_6 (A1), Kenmech_6 (A1), KikiBouba_6 (A1), Killigrew_3 (A1), Kugel_6 (A1), KyMonks1A_7 (A1), Kykar_3 (A1), Lamina13_5 (A1), Lesedi_4 (A1), Levia_4 (A1), Licorice_7 (A1), LilBib_4 (A1), Lockley_5 (A1), Lopton_6 (A1), LunarLander_5 (A1), MPlant7149_4 (A1), Magnar_5 (A1), Magnito_4 (A1), Makemake_5 (A1), Marcell_5 (A1), Marchy_4 (A1), Marco3_5 (A1), Marge_5 (A1), Maroc7_4 (A1), Marsha_5 (A1), MaryBeth_5 (A1), McGuire_5 (A1), McSinger_6 (A1), MetalQZJ_5 (A1), Michley_5 (A1), MilleFeuille_4 (A1), Mkhuseleli_4 (A1), Molly_6 (A1), Monet_5 (A1), Moose_4 (A1), MrGordo_5 (A1), Mryolo_4 (A1), Mule_4 (A1), Museum_6 (A1), NEHalo_5 (A1), Naira_5 (A1), Nerujay_5 (A1), Niza_6 (A1), Norz_5 (A1), Noxious_6 (A1), Ohno789_4 (A1), Oogway_4 (A1), PSullivan_7 (A1), Papez_5 (A1), Paphu_4 (A1), Paraselene_4 (A1), Pari_6 (A1), Parliament_4 (A1), PascalRango_4 (A1), PattyP_6 (A1), Payneful_5 (A1), Pelly_6 (A1), Pepe_6 (A1), Perseus_6 (A1), Peterson_7 (A1), Petp2012_7 (A1), Petruchio_5 (A1), PherrisBueller_6 (A1), PhineBark_3 (A1), Philipppers_4 (A1), PhrostyMug_4 (A1), Pinto_7 (A1), Pippin_6 (A1), Pita2_7 (A1), PowerRanger_4 (A1), ProMouse_4 (A1), Puppet_5 (A1), QTRlifeCrisis_4 (A1), Raid_5 (A1), Rhynn_5 (A1), RidgeCB_5 (A1), Ringer_4 (A1), Rohr_6 (A1), Rubeus_5 (A1), Rufus_5 (A1), Ruotula_4 (A1), Rutherford_6 (A1), STLscum_6 (A1), Sagefire_6 (A1), Sandaddy_4 (A1), Sanya_5 (A1), SarFire_5 (A1), Scowl_6 (A1), Seabiscuit_6 (A1), ShortQueendom_4 (A1), Sibs6_6 (A1), Slagathor_5

(A1), Smairt_6 (A1), Smeagol_6 (A1), Snazzy_3 (A1), Solon_4 (A1), Sorpresa_5 (A1), SpikeBT_5 (A1), Squee_4 (A1), StewieG_4 (A1), StrongArm_4 (A1), Sumter_4 (A1), Sunshine924_4 (A1), SwissCheese_5 (A1), Swole_7 (A1), Target_6 (A1), Tasp14_6 (A1), Teodoridan_3 (A1), TheloniousMonk_5 (A1), Thor_5 (A1), Topgun_5 (A1), Tote_7 (A1), Traft412_7 (A1), Tripl3t_6 (A1), Trouble_5 (A1), Turj99_4 (A1), TwoPeat_6 (A1), U2_4 (A1), Violet_4 (A1), Watermelon_7 (A1), Wheeler_5 (A1), Whitspit_5 (A1), Wilkins_5 (A1), Zeeculate_4 (A1), Zephyr_5 (A1), Zeuska_4 (A1),

Start 42:

- Found in 7 of 309 (2.3%) of genes in pham
- Manual Annotations of this start: 7 of 285
- Called 100.0% of time when present
- Phage (with cluster) where this start called: Atkinbua_5 (A1), DreamCatcher_6 (A1), Manatee_5 (A1), Nhonho_5 (A1), PinkPlastic_3 (A1), Rajelicia_4 (A1), Seanderson_6 (A1),

Start 48:

- Found in 23 of 309 (7.4%) of genes in pham
- Manual Annotations of this start: 23 of 285
- Called 100.0% of time when present
- Phage (with cluster) where this start called: Anaysia_7 (A15), Battleship_8 (A15), Boohoo_7 (A15), DekHockey33_7 (A15), Elle_7 (A15), Epsocamisio_7 (A15), JSwag_7 (A15), KatherineG_7 (A15), LastResort_7 (A15), Looper_7 (A15), MinecraftSteve_8 (A15), Nebulosus_7 (A15), Oofda_7 (A15), Ravana_7 (A15), ReMo_7 (A15), Remus_7 (A15), Rosalind_7 (A15), ShayRa_8 (A15), Soups_7 (A15), Strosahl_7 (A15), Switzerland_7 (A15), Waits_7 (A15), Warrior24_7 (A15),

Start 53:

- Found in 5 of 309 (1.6%) of genes in pham
- Manual Annotations of this start: 5 of 285
- Called 100.0% of time when present
- Phage (with cluster) where this start called: BarnCat_25 (GB), Cassita_31 (GB), LeeroyJenkins_31 (GB), Lifes_27 (GB), WaterT_30 (GB),

Start 55:

- Found in 1 of 309 (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: TPA2_46 (singleton),

Start 57:

- Found in 27 of 309 (8.7%) of genes in pham
- Manual Annotations of this start: 21 of 285
- Called 100.0% of time when present
- Phage (with cluster) where this start called: AksarBAT_36 (DR), AnClar_37 (DR), AnarQue_38 (DR), Axumite_36 (DR), BiggityBass_36 (DR), Blackpen_38 (DR), BobRoss2024_35 (DR), CaiB_38 (DR), CharlottesWeb_36 (DR), CloverMinnie_38 (DR), Coco2012_36 (DR), FelixTres_38 (DR), Fresco_36 (DR), JellyBelly_36 (DR), Ligma_36 (DR), LittleMunchkin_38 (DR), MakoManhole_38 (DR), Mariokart_36 (DR), MossRose_38 (DR), NHagos_36 (DR), Shatter_36 (DR), Sisko_36 (DR), Sour_41 (DR), TraderJ_38 (DR), Wooper_38 (DR), Yago84_36 (DR), Yeshua_38 (DR),

Summary by clusters:

There are 6 clusters represented in this pham: A15, singleton, CB, A1, GB, DR,

Info for manual annotations of cluster A1:

- Start number 3 was manually annotated 1 time for cluster A1.
- Start number 35 was manually annotated 3 times for cluster A1.
- Start number 37 was manually annotated 3 times for cluster A1.
- Start number 41 was manually annotated 214 times for cluster A1.
- Start number 42 was manually annotated 7 times for cluster A1.

Info for manual annotations of cluster A15:

- Start number 48 was manually annotated 23 times for cluster A15.

Info for manual annotations of cluster CB:

- Start number 11 was manually annotated 2 times for cluster CB.
- Start number 12 was manually annotated 4 times for cluster CB.

Info for manual annotations of cluster DR:

- Start number 21 was manually annotated 2 times for cluster DR.
- Start number 57 was manually annotated 21 times for cluster DR.

Info for manual annotations of cluster GB:

- Start number 53 was manually annotated 5 times for cluster GB.

Gene Information:

Gene: A6_03 Start: 1841, Stop: 2911, Start Num: 41

Candidate Starts for A6_03:

(Start: 41 @1841 has 214 MA's), (47, 1904), (49, 1916), (56, 1973), (68, 2051), (89, 2189), (108, 2309), (124, 2429), (126, 2441), (153, 2606), (165, 2699), (169, 2732),

Gene: AFIS_5 Start: 2208, Stop: 3278, Start Num: 41

Candidate Starts for AFIS_5:

(Start: 37 @2190 has 3 MA's), (Start: 41 @2208 has 214 MA's), (47, 2271), (49, 2283), (56, 2340), (68, 2418), (89, 2556), (108, 2676), (124, 2796), (126, 2808), (165, 3066), (169, 3099),

Gene: Abbyshoes_6 Start: 2288, Stop: 3358, Start Num: 41

Candidate Starts for Abbyshoes_6:

(Start: 41 @2288 has 214 MA's), (47, 2351), (49, 2363), (56, 2420), (68, 2498), (91, 2645), (108, 2756), (126, 2888), (153, 3053), (165, 3146), (169, 3179),

Gene: Abrogate_60 Start: 2939, Stop: 4009, Start Num: 41

Candidate Starts for Abrogate_60:

(Start: 35 @2912 has 3 MA's), (Start: 41 @2939 has 214 MA's), (47, 3002), (49, 3014), (56, 3071), (68, 3149), (89, 3287), (108, 3407), (124, 3527), (126, 3539), (153, 3704), (165, 3797), (169, 3830),

Gene: Acme_6 Start: 2121, Stop: 3191, Start Num: 41

Candidate Starts for Acme_6:

(Start: 37 @2103 has 3 MA's), (Start: 41 @2121 has 214 MA's), (47, 2184), (49, 2196), (56, 2253), (68, 2331), (89, 2469), (108, 2589), (124, 2709), (126, 2721), (153, 2886), (169, 3012),

Gene: Adahisdi_6 Start: 2515, Stop: 3585, Start Num: 41

Candidate Starts for Adahisdi_6:

(Start: 41 @2515 has 214 MA's), (47, 2578), (49, 2590), (56, 2647), (68, 2725), (91, 2872), (108, 2983), (124, 3103), (126, 3115), (153, 3280), (169, 3406),

Gene: Aeneas_6 Start: 2400, Stop: 3470, Start Num: 41

Candidate Starts for Aeneas_6:

(Start: 41 @2400 has 214 MA's), (47, 2463), (49, 2475), (56, 2532), (89, 2748), (108, 2868), (124, 2988), (153, 3165), (165, 3258), (169, 3291),

Gene: Agaliana_5 Start: 2324, Stop: 3394, Start Num: 41

Candidate Starts for Agaliana_5:

(Start: 41 @2324 has 214 MA's), (47, 2387), (49, 2399), (56, 2456), (68, 2534), (89, 2672), (108, 2792), (124, 2912), (126, 2924), (153, 3089), (169, 3215),

Gene: Ajay_5 Start: 2352, Stop: 3422, Start Num: 41

Candidate Starts for Ajay_5:

(Start: 41 @2352 has 214 MA's), (47, 2415), (49, 2427), (56, 2484), (68, 2562), (91, 2709), (108, 2820), (124, 2940), (126, 2952), (169, 3243),

Gene: AksarBAT_36 Start: 31643, Stop: 32539, Start Num: 57

Candidate Starts for AksarBAT_36:

(Start: 57 @31643 has 21 MA's), (60, 31676), (61, 31682), (67, 31706), (74, 31748), (82, 31799), (102, 31940), (110, 32000), (111, 32003), (121, 32078), (128, 32123), (135, 32153), (142, 32183), (148, 32234), (150, 32243), (161, 32303), (165, 32333), (169, 32363), (173, 32393), (177, 32420), (183, 32453), (187, 32477), (188, 32480),

Gene: Aldrich_5 Start: 2262, Stop: 3332, Start Num: 41

Candidate Starts for Aldrich_5:

(Start: 41 @2262 has 214 MA's), (47, 2325), (49, 2337), (56, 2394), (68, 2472), (89, 2610), (108, 2730), (124, 2850), (126, 2862), (165, 3120), (169, 3153),

Gene: Alsfro_9 Start: 3036, Stop: 4106, Start Num: 41

Candidate Starts for Alsfro_9:

(Start: 41 @3036 has 214 MA's), (47, 3099), (49, 3111), (56, 3168), (68, 3246), (91, 3393), (108, 3504), (124, 3624), (126, 3636), (169, 3927),

Gene: Altman_6 Start: 2858, Stop: 3928, Start Num: 41

Candidate Starts for Altman_6:

(Start: 41 @2858 has 214 MA's), (47, 2921), (49, 2933), (56, 2990), (68, 3068), (89, 3206), (108, 3326), (124, 3446), (126, 3458), (153, 3623), (169, 3749),

Gene: Alvin_6 Start: 2566, Stop: 3636, Start Num: 41

Candidate Starts for Alvin_6:

(Start: 41 @2566 has 214 MA's), (47, 2629), (49, 2641), (56, 2698), (68, 2776), (89, 2914), (108, 3034), (124, 3154), (126, 3166), (153, 3331), (169, 3457),

Gene: AnClar_37 Start: 33997, Stop: 34812, Start Num: 57

Candidate Starts for AnClar_37:

(34, 33820), (Start: 41 @33856 has 214 MA's), (Start: 57 @33997 has 21 MA's), (69, 34078), (70, 34081), (73, 34093), (128, 34408), (135, 34438), (145, 34477), (152, 34522), (161, 34564), (165, 34594), (169, 34624), (173, 34654), (177, 34681), (197, 34792), (201, 34801), (202, 34804),

Gene: AnarQue_38 Start: 33101, Stop: 33943, Start Num: 57

Candidate Starts for AnarQue_38:

(Start: 57 @33101 has 21 MA's), (61, 33140), (66, 33161), (76, 33215), (82, 33257), (83, 33272), (95, 33353), (99, 33380), (110, 33407), (114, 33428), (128, 33527), (135, 33557), (142, 33587), (145, 33617), (150, 33647), (154, 33677), (161, 33707), (163, 33716), (169, 33767), (171, 33785), (173, 33797), (176, 33815), (183, 33857), (187, 33881), (188, 33884),

Gene: Anaysia_7 Start: 3414, Stop: 4406, Start Num: 48

Candidate Starts for Anaysia_7:

(15, 3147), (22, 3201), (30, 3246), (38, 3327), (Start: 48 @3414 has 23 MA's), (78, 3600), (91, 3690), (97, 3723), (109, 3795), (118, 3870), (165, 4179), (171, 4236), (181, 4302), (186, 4332), (198, 4395),

Gene: Anglerfish_5 Start: 1883, Stop: 2953, Start Num: 41

Candidate Starts for Anglerfish_5:

(Start: 41 @1883 has 214 MA's), (47, 1946), (49, 1958), (56, 2015), (68, 2093), (89, 2231), (108, 2351), (124, 2471), (126, 2483), (153, 2648), (165, 2741), (169, 2774),

Gene: Applejack_5 Start: 2258, Stop: 3328, Start Num: 41

Candidate Starts for Applejack_5:

(Start: 37 @2240 has 3 MA's), (Start: 41 @2258 has 214 MA's), (47, 2321), (49, 2333), (56, 2390), (68, 2468), (89, 2606), (108, 2726), (124, 2846), (126, 2858), (153, 3023), (165, 3116), (169, 3149),

Gene: Arcanine_5 Start: 1849, Stop: 2919, Start Num: 41

Candidate Starts for Arcanine_5:

(Start: 41 @1849 has 214 MA's), (47, 1912), (49, 1924), (56, 1981), (68, 2059), (89, 2197), (108, 2317), (122, 2422), (124, 2437), (126, 2449), (139, 2512), (169, 2740),

Gene: Arlo_4 Start: 1883, Stop: 2953, Start Num: 41

Candidate Starts for Arlo_4:

(Start: 41 @1883 has 214 MA's), (47, 1946), (49, 1958), (56, 2015), (68, 2093), (89, 2231), (108, 2351), (124, 2471), (126, 2483), (153, 2648), (169, 2774),

Gene: Ashballer_3 Start: 1752, Stop: 2822, Start Num: 41

Candidate Starts for Ashballer_3:

(Start: 35 @1725 has 3 MA's), (Start: 41 @1752 has 214 MA's), (47, 1815), (49, 1827), (56, 1884), (68, 1962), (89, 2100), (108, 2220), (124, 2340), (126, 2352), (153, 2517), (165, 2610), (169, 2643),

Gene: Atkinbua_5 Start: 1921, Stop: 2991, Start Num: 42

Candidate Starts for Atkinbua_5:

(Start: 42 @1921 has 7 MA's), (47, 1984), (49, 1996), (56, 2053), (68, 2131), (89, 2269), (108, 2389), (124, 2509), (126, 2521), (153, 2686), (165, 2779), (169, 2812),

Gene: Axumite_36 Start: 31148, Stop: 32053, Start Num: 57

Candidate Starts for Axumite_36:

(Start: 57 @31148 has 21 MA's), (60, 31181), (61, 31187), (65, 31205), (67, 31211), (73, 31250), (105, 31418), (110, 31472), (112, 31478), (128, 31595), (142, 31655), (145, 31685), (163, 31817), (165, 31838), (177, 31925), (189, 31988), (195, 32030), (200, 32039), (201, 32042),

Gene: BK1_03 Start: 1841, Stop: 2911, Start Num: 41

Candidate Starts for BK1_03:

(Start: 41 @1841 has 214 MA's), (47, 1904), (49, 1916), (56, 1973), (68, 2051), (89, 2189), (108, 2309), (124, 2429), (126, 2441), (153, 2606), (165, 2699), (169, 2732),

Gene: BPBiebs31_6 Start: 2522, Stop: 3592, Start Num: 41

Candidate Starts for BPBiebs31_6:

(Start: 41 @2522 has 214 MA's), (47, 2585), (49, 2597), (56, 2654), (68, 2732), (91, 2879), (108, 2990), (124, 3110), (126, 3122), (169, 3413),

Gene: BaconJack_6 Start: 2106, Stop: 3176, Start Num: 41

Candidate Starts for BaconJack_6:

(Start: 41 @2106 has 214 MA's), (47, 2169), (49, 2181), (56, 2238), (68, 2316), (89, 2454), (108, 2574), (124, 2694), (126, 2706), (165, 2964), (169, 2997),

Gene: BarnCat_25 Start: 12489, Stop: 13412, Start Num: 53

Candidate Starts for BarnCat_25:

(Start: 53 @12489 has 5 MA's), (84, 12669), (87, 12711), (102, 12801), (122, 12933), (125, 12954), (127, 12972), (144, 13065), (147, 13086), (151, 13101), (167, 13221), (168, 13239), (184, 13335), (194, 13386), (199, 13407),

Gene: Barriga_5 Start: 2138, Stop: 3208, Start Num: 41

Candidate Starts for Barriga_5:

(Start: 41 @2138 has 214 MA's), (47, 2201), (49, 2213), (56, 2270), (68, 2348), (89, 2486), (93, 2501), (108, 2606), (124, 2726), (126, 2738), (169, 3029),

Gene: BarrowTuph_4 Start: 2205, Stop: 3275, Start Num: 41

Candidate Starts for BarrowTuph_4:

(Start: 41 @2205 has 214 MA's), (47, 2268), (49, 2280), (56, 2337), (68, 2415), (91, 2562), (108, 2673), (124, 2793), (126, 2805), (169, 3096),

Gene: Battleship_8 Start: 3561, Stop: 4553, Start Num: 48

Candidate Starts for Battleship_8:

(38, 3474), (Start: 48 @3561 has 23 MA's), (78, 3747), (109, 3942), (113, 3972), (118, 4017), (165, 4326), (171, 4383), (181, 4449), (186, 4479), (198, 4542),

Gene: Beatrix_4 Start: 1955, Stop: 3025, Start Num: 41

Candidate Starts for Beatrix_4:

(Start: 41 @1955 has 214 MA's), (47, 2018), (49, 2030), (56, 2087), (68, 2165), (89, 2303), (108, 2423), (124, 2543), (126, 2555), (153, 2720), (169, 2846),

Gene: BeesKnees_5 Start: 2002, Stop: 3072, Start Num: 41

Candidate Starts for BeesKnees_5:

(Start: 41 @2002 has 214 MA's), (47, 2065), (49, 2077), (56, 2134), (68, 2212), (91, 2359), (108, 2470), (124, 2590), (126, 2602), (153, 2767), (165, 2860), (169, 2893),

Gene: Bethlehem_5 Start: 2529, Stop: 3599, Start Num: 41

Candidate Starts for Bethlehem_5:

(Start: 41 @2529 has 214 MA's), (47, 2592), (49, 2604), (56, 2661), (68, 2739), (89, 2877), (93, 2892), (108, 2997), (124, 3117), (126, 3129), (165, 3387), (169, 3420),

Gene: Bexan_4 Start: 1955, Stop: 3025, Start Num: 41

Candidate Starts for Bexan_4:

(Start: 41 @1955 has 214 MA's), (47, 2018), (49, 2030), (56, 2087), (68, 2165), (89, 2303), (108, 2423), (124, 2543), (126, 2555), (153, 2720), (169, 2846),

Gene: Big3_5 Start: 1899, Stop: 2969, Start Num: 41

Candidate Starts for Big3_5:

(Start: 41 @1899 has 214 MA's), (47, 1962), (49, 1974), (56, 2031), (68, 2109), (89, 2247), (93, 2262), (108, 2367), (124, 2487), (126, 2499), (153, 2664), (169, 2790),

Gene: BigMau_6 Start: 2006, Stop: 3076, Start Num: 41

Candidate Starts for BigMau_6:

(Start: 41 @2006 has 214 MA's), (47, 2069), (49, 2081), (56, 2138), (68, 2216), (89, 2354), (108, 2474), (124, 2594), (126, 2606), (169, 2897),

Gene: BigPaolini_6 Start: 2897, Stop: 3985, Start Num: 37

Candidate Starts for BigPaolini_6:

(Start: 37 @2897 has 3 MA's), (Start: 41 @2915 has 214 MA's), (47, 2978), (49, 2990), (56, 3047), (68, 3125), (89, 3263), (108, 3383), (124, 3503), (126, 3515), (130, 3536), (169, 3806),

Gene: Bigchungi_4 Start: 1783, Stop: 2853, Start Num: 41

Candidate Starts for Bigchungi_4:

(Start: 37 @1765 has 3 MA's), (Start: 41 @1783 has 214 MA's), (47, 1846), (49, 1858), (56, 1915), (68, 1993), (91, 2140), (108, 2251), (124, 2371), (126, 2383), (169, 2674),

Gene: Bigfoot_4 Start: 2014, Stop: 3084, Start Num: 41

Candidate Starts for Bigfoot_4:

(Start: 41 @2014 has 214 MA's), (47, 2077), (49, 2089), (56, 2146), (68, 2224), (89, 2362), (108, 2482), (126, 2614), (165, 2872), (169, 2905),

Gene: BiggityBass_36 Start: 33404, Stop: 34276, Start Num: 57

Candidate Starts for BiggityBass_36:

(8, 33038), (34, 33227), (Start: 41 @33263 has 214 MA's), (Start: 57 @33404 has 21 MA's), (70, 33488), (117, 33758), (123, 33812), (128, 33842), (135, 33872), (137, 33878), (140, 33887), (145, 33911), (152, 33956), (157, 33998), (161, 34028), (165, 34058), (169, 34088), (173, 34118), (177, 34145), (200, 34262), (201, 34265),

Gene: BillKnuckles_5 Start: 2380, Stop: 3450, Start Num: 41

Candidate Starts for BillKnuckles_5:

(Start: 41 @2380 has 214 MA's), (47, 2443), (49, 2455), (56, 2512), (68, 2590), (89, 2728), (108, 2848), (126, 2980), (153, 3145), (165, 3238), (169, 3271),

Gene: Bircsak_5 Start: 2491, Stop: 3561, Start Num: 41

Candidate Starts for Bircsak_5:

(Start: 37 @2473 has 3 MA's), (Start: 41 @2491 has 214 MA's), (47, 2554), (49, 2566), (56, 2623), (68, 2701), (89, 2839), (108, 2959), (124, 3079), (126, 3091), (153, 3256), (165, 3349), (169, 3382),

Gene: Blackflame_4 Start: 1792, Stop: 2862, Start Num: 41

Candidate Starts for Blackflame_4:

(Start: 41 @1792 has 214 MA's), (47, 1855), (49, 1867), (56, 1924), (68, 2002), (91, 2149), (108, 2260), (124, 2380), (126, 2392), (169, 2683),

Gene: Blackpen_38 Start: 32519, Stop: 33361, Start Num: 57

Candidate Starts for Blackpen_38:

(Start: 57 @32519 has 21 MA's), (61, 32558), (66, 32579), (76, 32633), (82, 32675), (83, 32690), (95, 32771), (99, 32798), (110, 32825), (114, 32846), (128, 32945), (135, 32975), (142, 33005), (145, 33035), (150, 33065), (154, 33095), (161, 33125), (169, 33185), (171, 33203), (176, 33233), (183, 33275), (187, 33299), (188, 33302),

Gene: Blessor_3 Start: 1728, Stop: 2798, Start Num: 41

Candidate Starts for Blesser_3:

(Start: 41 @1728 has 214 MA's), (47, 1791), (49, 1803), (56, 1860), (68, 1938), (89, 2076), (93, 2091), (108, 2196), (124, 2316), (126, 2328), (145, 2433), (169, 2619), (175, 2658),

Gene: BluSpix_4 Start: 2282, Stop: 3352, Start Num: 41

Candidate Starts for BluSpix_4:

(Start: 41 @2282 has 214 MA's), (47, 2345), (49, 2357), (56, 2414), (68, 2492), (89, 2630), (108, 2750), (124, 2870), (126, 2882), (153, 3047), (169, 3173),

Gene: Blue_5 Start: 2383, Stop: 3453, Start Num: 41

Candidate Starts for Blue_5:

(Start: 41 @2383 has 214 MA's), (47, 2446), (49, 2458), (56, 2515), (68, 2593), (89, 2731), (93, 2746), (108, 2851), (124, 2971), (126, 2983), (145, 3088), (169, 3274),

Gene: Bob3_4 Start: 1846, Stop: 2916, Start Num: 41

Candidate Starts for Bob3_4:

(Start: 41 @1846 has 214 MA's), (47, 1909), (49, 1921), (56, 1978), (68, 2056), (89, 2194), (108, 2314), (124, 2434), (126, 2446), (153, 2611), (169, 2737),

Gene: BobRoss2024_35 Start: 31155, Stop: 32051, Start Num: 57

Candidate Starts for BobRoss2024_35:

(Start: 57 @31155 has 21 MA's), (86, 31356), (108, 31488), (121, 31590), (128, 31635), (142, 31695), (148, 31746), (165, 31845), (177, 31932),

Gene: Bones_5 Start: 2039, Stop: 3109, Start Num: 41

Candidate Starts for Bones_5:

(Start: 41 @2039 has 214 MA's), (47, 2102), (49, 2114), (56, 2171), (68, 2249), (89, 2387), (108, 2507), (124, 2627), (126, 2639), (153, 2804), (169, 2930),

Gene: Boohoo_7 Start: 3414, Stop: 4406, Start Num: 48

Candidate Starts for Boohoo_7:

(15, 3147), (22, 3201), (30, 3246), (38, 3327), (Start: 48 @3414 has 23 MA's), (78, 3600), (91, 3690), (97, 3723), (109, 3795), (118, 3870), (165, 4179), (171, 4236), (181, 4302), (186, 4332), (198, 4395),

Gene: Briton15_6 Start: 2057, Stop: 3127, Start Num: 41

Candidate Starts for Briton15_6:

(Start: 41 @2057 has 214 MA's), (47, 2120), (49, 2132), (56, 2189), (68, 2267), (91, 2414), (108, 2525), (124, 2645), (126, 2657), (153, 2822), (169, 2948),

Gene: Bruns_3 Start: 1690, Stop: 2760, Start Num: 41

Candidate Starts for Bruns_3:

(Start: 41 @1690 has 214 MA's), (47, 1753), (56, 1822), (68, 1900), (91, 2047), (108, 2158), (124, 2278), (126, 2290), (165, 2548), (169, 2581),

Gene: Burton_5 Start: 1907, Stop: 2977, Start Num: 41

Candidate Starts for Burton_5:

(Start: 41 @1907 has 214 MA's), (47, 1970), (49, 1982), (56, 2039), (68, 2117), (89, 2255), (108, 2375), (124, 2495), (126, 2507), (165, 2765), (169, 2798),

Gene: Buttons_5 Start: 1900, Stop: 2970, Start Num: 41

Candidate Starts for Buttons_5:

(Start: 41 @1900 has 214 MA's), (47, 1963), (49, 1975), (56, 2032), (89, 2248), (93, 2263), (108, 2368), (126, 2500), (165, 2758), (169, 2791),

Gene: Bxb1_4 Start: 2291, Stop: 3361, Start Num: 41

Candidate Starts for Bxb1_4:

(Start: 41 @2291 has 214 MA's), (47, 2354), (49, 2366), (56, 2423), (68, 2501), (89, 2639), (108, 2759), (124, 2879), (126, 2891), (153, 3056), (165, 3149), (169, 3182),

Gene: CactusRose_4 Start: 2013, Stop: 3083, Start Num: 41

Candidate Starts for CactusRose_4:

(Start: 41 @2013 has 214 MA's), (47, 2076), (49, 2088), (56, 2145), (68, 2223), (89, 2361), (108, 2481), (126, 2613), (153, 2778), (165, 2871), (169, 2904),

Gene: CaiB_38 Start: 33087, Stop: 33929, Start Num: 57

Candidate Starts for CaiB_38:

(Start: 57 @33087 has 21 MA's), (61, 33126), (66, 33147), (76, 33201), (82, 33243), (83, 33258), (95, 33339), (99, 33366), (110, 33393), (116, 33426), (128, 33513), (135, 33543), (145, 33603), (154, 33663), (161, 33693), (169, 33753), (171, 33771), (173, 33783), (177, 33810), (183, 33843), (187, 33867), (188, 33870),

Gene: Carlyle_7 Start: 2854, Stop: 3924, Start Num: 41

Candidate Starts for Carlyle_7:

(Start: 41 @2854 has 214 MA's), (47, 2917), (49, 2929), (56, 2986), (68, 3064), (89, 3202), (108, 3322), (124, 3442), (126, 3454), (153, 3619), (165, 3712), (169, 3745),

Gene: CartmannCramer_4 Start: 2219, Stop: 3289, Start Num: 41

Candidate Starts for CartmannCramer_4:

(Start: 41 @2219 has 214 MA's), (47, 2282), (49, 2294), (56, 2351), (68, 2429), (89, 2567), (108, 2687), (124, 2807), (126, 2819), (153, 2984), (165, 3077), (169, 3110),

Gene: Cassita_31 Start: 14880, Stop: 15788, Start Num: 53

Candidate Starts for Cassita_31:

(Start: 53 @14880 has 5 MA's), (58, 14913), (107, 15207), (125, 15330), (142, 15414), (147, 15462), (159, 15531), (199, 15783),

Gene: CatBus_5 Start: 2454, Stop: 3524, Start Num: 41

Candidate Starts for CatBus_5:

(Start: 41 @2454 has 214 MA's), (47, 2517), (49, 2529), (56, 2586), (68, 2664), (89, 2802), (108, 2922), (124, 3042), (126, 3054), (165, 3312), (169, 3345),

Gene: Chanagan_4 Start: 1623, Stop: 2942, Start Num: 3

Candidate Starts for Chanagan_4:

(Start: 3 @1623 has 1 MA's), (8, 1641), (17, 1695), (27, 1767), (Start: 37 @1854 has 3 MA's), (Start: 41 @1872 has 214 MA's), (47, 1935), (49, 1947), (56, 2004), (91, 2229), (108, 2340), (124, 2460), (126, 2472), (153, 2637), (165, 2730), (169, 2763),

Gene: CharlottesWeb_36 Start: 31078, Stop: 31977, Start Num: 57

Candidate Starts for CharlottesWeb_36:

(1, 30472), (2, 30694), (8, 30724), (Start: 11 @30745 has 2 MA's), (Start: 41 @30943 has 214 MA's), (Start: 57 @31078 has 21 MA's), (61, 31117), (66, 31138), (74, 31177), (83, 31207), (103, 31336), (123, 31486), (128, 31516), (142, 31576), (157, 31699), (161, 31729), (169, 31789), (173, 31819), (176, 31837), (177, 31846), (189, 31912), (191, 31921), (195, 31954), (200, 31963), (201, 31966),

Gene: ChristmasHams_5 Start: 2324, Stop: 3394, Start Num: 41

Candidate Starts for ChristmasHams_5:

(Start: 41 @2324 has 214 MA's), (47, 2387), (49, 2399), (56, 2456), (68, 2534), (89, 2672), (108, 2792), (124, 2912), (126, 2924), (153, 3089), (169, 3215),

Gene: Ciao_5 Start: 2245, Stop: 3315, Start Num: 41

Candidate Starts for Ciao_5:

(Start: 41 @2245 has 214 MA's), (47, 2308), (49, 2320), (56, 2377), (68, 2455), (89, 2593), (93, 2608), (108, 2713), (124, 2833), (126, 2845), (139, 2908), (145, 2950), (169, 3136),

Gene: CloverMinnie_38 Start: 33027, Stop: 33869, Start Num: 57

Candidate Starts for CloverMinnie_38:

(Start: 57 @33027 has 21 MA's), (61, 33066), (66, 33087), (76, 33141), (82, 33183), (83, 33198), (95, 33279), (99, 33306), (110, 33333), (114, 33354), (128, 33453), (135, 33483), (142, 33513), (145, 33543), (150, 33573), (154, 33603), (161, 33633), (169, 33693), (171, 33711), (176, 33741), (183, 33783), (187, 33807), (188, 33810),

Gene: Coco2012_36 Start: 31075, Stop: 31974, Start Num: 57

Candidate Starts for Coco2012_36:

(1, 30469), (2, 30691), (8, 30721), (Start: 11 @30742 has 2 MA's), (Start: 41 @30940 has 214 MA's), (Start: 57 @31075 has 21 MA's), (61, 31114), (66, 31135), (74, 31174), (83, 31204), (103, 31333), (123, 31483), (128, 31513), (142, 31573), (157, 31696), (161, 31726), (169, 31786), (173, 31816), (176, 31834), (177, 31843), (189, 31909), (191, 31918), (195, 31951), (200, 31960), (201, 31963),

Gene: Coldpizza_39 Start: 35530, Stop: 36546, Start Num: 21

Candidate Starts for Coldpizza_39:

(Start: 21 @35530 has 2 MA's), (26, 35590), (28, 35593), (32, 35641), (33, 35653), (40, 35692), (51, 35785), (52, 35788), (54, 35806), (61, 35872), (75, 35944), (100, 36124), (108, 36172), (109, 36175), (111, 36199), (117, 36235), (120, 36262), (128, 36292), (135, 36322), (164, 36439), (178, 36529), (179, 36535), (180, 36538),

Gene: ConceptII_5 Start: 2494, Stop: 3564, Start Num: 41

Candidate Starts for ConceptII_5:

(Start: 41 @2494 has 214 MA's), (47, 2557), (49, 2569), (56, 2626), (68, 2704), (89, 2842), (108, 2962), (124, 3082), (126, 3094), (153, 3259), (169, 3385),

Gene: Corvo_5 Start: 2440, Stop: 3510, Start Num: 41

Candidate Starts for Corvo_5:

(Start: 41 @2440 has 214 MA's), (47, 2503), (49, 2515), (56, 2572), (68, 2650), (91, 2797), (108, 2908), (124, 3028), (126, 3040), (145, 3145), (169, 3331),

Gene: Crispicous1_4 Start: 1736, Stop: 2806, Start Num: 41

Candidate Starts for Crispicous1_4:

(Start: 41 @1736 has 214 MA's), (47, 1799), (49, 1811), (56, 1868), (68, 1946), (89, 2084), (108, 2204), (124, 2324), (126, 2336), (153, 2501), (165, 2594), (169, 2627),

Gene: Cueylyss_5 Start: 2374, Stop: 3444, Start Num: 41

Candidate Starts for Cueylyss_5:

(36, 2350), (Start: 37 @2356 has 3 MA's), (Start: 41 @2374 has 214 MA's), (47, 2437), (49, 2449), (56, 2506), (68, 2584), (108, 2842), (124, 2962), (126, 2974), (145, 3079), (165, 3232), (169, 3265),

Gene: DD5_5 Start: 2422, Stop: 3492, Start Num: 41

Candidate Starts for DD5_5:

(Start: 41 @2422 has 214 MA's), (47, 2485), (49, 2497), (56, 2554), (68, 2632), (91, 2779), (108, 2890), (124, 3010), (126, 3022), (153, 3187), (165, 3280), (169, 3313),

Gene: DekHockey33_7 Start: 3561, Stop: 4553, Start Num: 48

Candidate Starts for DekHockey33_7:

(22, 3348), (30, 3393), (38, 3474), (Start: 48 @3561 has 23 MA's), (78, 3747), (96, 3867), (97, 3870), (165, 4326), (171, 4383), (181, 4449), (186, 4479), (198, 4542),

Gene: Dexes_6 Start: 2878, Stop: 3948, Start Num: 41

Candidate Starts for Dexes_6:

(2, 2620), (4, 2635), (6, 2638), (26, 2773), (36, 2854), (Start: 37 @2860 has 3 MA's), (Start: 41 @2878 has 214 MA's), (47, 2941), (49, 2953), (56, 3010), (68, 3088), (89, 3226), (108, 3346), (124, 3466), (126, 3478), (153, 3643), (169, 3769),

Gene: DirtDevil_5 Start: 2262, Stop: 3332, Start Num: 41

Candidate Starts for DirtDevil_5:

(Start: 41 @2262 has 214 MA's), (47, 2325), (49, 2337), (56, 2394), (68, 2472), (89, 2610), (108, 2730), (124, 2850), (126, 2862), (165, 3120), (169, 3153),

Gene: Doom_5 Start: 2516, Stop: 3586, Start Num: 41

Candidate Starts for Doom_5:

(Start: 41 @2516 has 214 MA's), (47, 2579), (49, 2591), (56, 2648), (68, 2726), (91, 2873), (108, 2984), (124, 3104), (126, 3116), (153, 3281), (169, 3407),

Gene: DrFeelGood_4 Start: 2053, Stop: 3123, Start Num: 41

Candidate Starts for DrFeelGood_4:

(Start: 41 @2053 has 214 MA's), (47, 2116), (49, 2128), (56, 2185), (68, 2263), (89, 2401), (93, 2416), (108, 2521), (124, 2641), (126, 2653), (153, 2818), (165, 2911), (169, 2944),

Gene: DreamCatcher_6 Start: 2650, Stop: 3720, Start Num: 42

Candidate Starts for DreamCatcher_6:

(Start: 42 @2650 has 7 MA's), (47, 2713), (49, 2725), (56, 2782), (68, 2860), (89, 2998), (108, 3118), (124, 3238), (126, 3250), (153, 3415), (165, 3508), (169, 3541),

Gene: Dreamboat_6 Start: 2119, Stop: 3189, Start Num: 41

Candidate Starts for Dreamboat_6:

(Start: 41 @2119 has 214 MA's), (47, 2182), (49, 2194), (56, 2251), (68, 2329), (108, 2587), (124, 2707), (126, 2719), (145, 2824), (169, 3010),

Gene: Dulcie_4 Start: 1951, Stop: 3021, Start Num: 41

Candidate Starts for Dulcie_4:

(Start: 41 @1951 has 214 MA's), (47, 2014), (49, 2026), (56, 2083), (68, 2161), (89, 2299), (108, 2419), (124, 2539), (126, 2551), (165, 2809), (169, 2842),

Gene: Dussy_6 Start: 2288, Stop: 3358, Start Num: 41

Candidate Starts for Dussy_6:

(Start: 41 @2288 has 214 MA's), (47, 2351), (49, 2363), (56, 2420), (68, 2498), (91, 2645), (108, 2756), (126, 2888), (153, 3053), (165, 3146), (169, 3179),

Gene: Dynamix_5 Start: 2004, Stop: 3074, Start Num: 41

Candidate Starts for Dynamix_5:

(Start: 41 @2004 has 214 MA's), (47, 2067), (49, 2079), (56, 2136), (68, 2214), (91, 2361), (108, 2472), (124, 2592), (126, 2604), (153, 2769), (165, 2862), (169, 2895),

Gene: Edtherson_5 Start: 2210, Stop: 3280, Start Num: 41

Candidate Starts for Edtherson_5:

(Start: 41 @2210 has 214 MA's), (47, 2273), (49, 2285), (56, 2342), (68, 2420), (89, 2558), (108, 2678), (124, 2798), (126, 2810), (169, 3101),

Gene: Elle_7 Start: 3277, Stop: 4311, Start Num: 48

Candidate Starts for Elle_7:

(46, 3244), (Start: 48 @3277 has 23 MA's), (78, 3460), (85, 3508), (88, 3538), (96, 3580), (97, 3583), (129, 3802), (132, 3808), (141, 3862), (158, 4021), (196, 4297), (198, 4300),

Gene: EnzoK_6 Start: 2504, Stop: 3574, Start Num: 41

Candidate Starts for EnzoK_6:

(Start: 41 @2504 has 214 MA's), (47, 2567), (49, 2579), (56, 2636), (68, 2714), (71, 2735), (91, 2861), (108, 2972), (124, 3092), (126, 3104), (139, 3167), (153, 3269), (169, 3395),

Gene: Epsocamisio_7 Start: 3414, Stop: 4406, Start Num: 48

Candidate Starts for Epsocamisio_7:

(15, 3147), (22, 3201), (30, 3246), (38, 3327), (Start: 48 @3414 has 23 MA's), (78, 3600), (91, 3690), (97, 3723), (109, 3795), (118, 3870), (165, 4179), (171, 4236), (181, 4302), (186, 4332), (198, 4395),

Gene: Espresso_5 Start: 2369, Stop: 3439, Start Num: 41

Candidate Starts for Espresso_5:

(Start: 41 @2369 has 214 MA's), (47, 2432), (49, 2444), (56, 2501), (68, 2579), (89, 2717), (108, 2837), (124, 2957), (126, 2969), (169, 3260),

Gene: Euphoria_5 Start: 2267, Stop: 3337, Start Num: 41

Candidate Starts for Euphoria_5:

(Start: 41 @2267 has 214 MA's), (47, 2330), (49, 2342), (56, 2399), (68, 2477), (89, 2615), (108, 2735), (124, 2855), (126, 2867), (165, 3125), (169, 3158),

Gene: Evaa_36 Start: 31898, Stop: 33037, Start Num: 21

Candidate Starts for Evaa_36:

(Start: 21 @31898 has 2 MA's), (28, 31961), (29, 31964), (52, 32144), (54, 32162), (61, 32228), (72, 32291), (79, 32321), (102, 32489), (111, 32552), (120, 32615), (128, 32642), (131, 32651), (135, 32672), (145, 32711), (151, 32747), (152, 32756), (161, 32798), (185, 32960),

Gene: Eyeball_5 Start: 2047, Stop: 3117, Start Num: 41

Candidate Starts for Eyeball_5:

(Start: 41 @2047 has 214 MA's), (47, 2110), (49, 2122), (56, 2179), (68, 2257), (89, 2395), (108, 2515), (124, 2635), (126, 2647), (153, 2812), (169, 2938),

Gene: Fajezeel_6 Start: 2089, Stop: 3159, Start Num: 41

Candidate Starts for Fajezeel_6:

(Start: 37 @2071 has 3 MA's), (Start: 41 @2089 has 214 MA's), (47, 2152), (49, 2164), (56, 2221), (68, 2299), (89, 2437), (108, 2557), (124, 2677), (126, 2689), (153, 2854), (169, 2980),

Gene: Fascinus_4 Start: 2015, Stop: 3085, Start Num: 41

Candidate Starts for Fascinus_4:

(Start: 41 @2015 has 214 MA's), (47, 2078), (49, 2090), (56, 2147), (68, 2225), (89, 2363), (108, 2483), (126, 2615), (153, 2780), (165, 2873), (169, 2906),

Gene: FelixTres_38 Start: 33090, Stop: 33932, Start Num: 57

Candidate Starts for FelixTres_38:

(Start: 57 @33090 has 21 MA's), (61, 33129), (66, 33150), (82, 33246), (83, 33261), (95, 33342), (99, 33369), (110, 33396), (114, 33417), (128, 33516), (135, 33546), (142, 33576), (145, 33606), (150, 33636), (154, 33666), (161, 33696), (169, 33756), (171, 33774), (173, 33786), (176, 33804), (183, 33846), (187, 33870), (188, 33873),

Gene: Fenn_5 Start: 2235, Stop: 3305, Start Num: 41

Candidate Starts for Fenn_5:

(Start: 41 @2235 has 214 MA's), (47, 2298), (49, 2310), (56, 2367), (68, 2445), (91, 2592), (108, 2703), (124, 2823), (126, 2835), (139, 2898), (145, 2940), (169, 3126),

Gene: Forsytheast_4 Start: 2279, Stop: 3349, Start Num: 41

Candidate Starts for Forsytheast_4:

(Start: 41 @2279 has 214 MA's), (47, 2342), (49, 2354), (56, 2411), (68, 2489), (91, 2636), (108, 2747), (124, 2867), (126, 2879), (165, 3137), (169, 3170),

Gene: Francis47_5 Start: 2537, Stop: 3607, Start Num: 41

Candidate Starts for Francis47_5:

(Start: 37 @2519 has 3 MA's), (Start: 41 @2537 has 214 MA's), (47, 2600), (49, 2612), (56, 2669), (68, 2747), (89, 2885), (93, 2900), (108, 3005), (124, 3125), (126, 3137), (153, 3302), (169, 3428),

Gene: Fresco_36 Start: 31148, Stop: 32053, Start Num: 57

Candidate Starts for Fresco_36:

(Start: 57 @31148 has 21 MA's), (60, 31181), (61, 31187), (65, 31205), (67, 31211), (73, 31250), (105, 31418), (110, 31472), (112, 31478), (128, 31595), (142, 31655), (145, 31685), (163, 31817), (165, 31838), (177, 31925), (189, 31988), (195, 32030), (200, 32039), (201, 32042),

Gene: Froghopper_6 Start: 1949, Stop: 3019, Start Num: 41

Candidate Starts for Froghopper_6:

(Start: 37 @1931 has 3 MA's), (Start: 41 @1949 has 214 MA's), (47, 2012), (49, 2024), (56, 2081), (89, 2297), (108, 2417), (124, 2537), (126, 2549), (169, 2840),

Gene: Fushigi_5 Start: 2169, Stop: 3239, Start Num: 41

Candidate Starts for Fushigi_5:

(Start: 35 @2142 has 3 MA's), (Start: 41 @2169 has 214 MA's), (47, 2232), (49, 2244), (56, 2301), (68, 2379), (89, 2517), (108, 2637), (126, 2769), (165, 3027), (169, 3060),

Gene: GMonster_4 Start: 1884, Stop: 2954, Start Num: 41

Candidate Starts for GMonster_4:

(Start: 35 @1857 has 3 MA's), (Start: 41 @1884 has 214 MA's), (47, 1947), (49, 1959), (56, 2016), (68, 2094), (91, 2241), (108, 2352), (124, 2472), (126, 2484), (169, 2775),

Gene: Gachnar_5 Start: 2299, Stop: 3369, Start Num: 41

Candidate Starts for Gachnar_5:

(Start: 41 @2299 has 214 MA's), (47, 2362), (49, 2374), (56, 2431), (68, 2509), (89, 2647), (108, 2767), (124, 2887), (126, 2899), (153, 3064), (165, 3157), (169, 3190),

Gene: GageAP_6 Start: 2503, Stop: 3573, Start Num: 41

Candidate Starts for GageAP_6:

(Start: 41 @2503 has 214 MA's), (47, 2566), (49, 2578), (56, 2635), (68, 2713), (89, 2851), (108, 2971), (124, 3091), (126, 3103), (153, 3268), (165, 3361), (169, 3394),

Gene: Gandalf20_6 Start: 2379, Stop: 3449, Start Num: 41

Candidate Starts for Gandalf20_6:

(Start: 41 @2379 has 214 MA's), (47, 2442), (49, 2454), (56, 2511), (68, 2589), (108, 2847), (124, 2967), (126, 2979), (139, 3042), (169, 3270),

Gene: Gompeii16_5 Start: 2491, Stop: 3561, Start Num: 41

Candidate Starts for Gompeii16_5:

(Start: 37 @2473 has 3 MA's), (Start: 41 @2491 has 214 MA's), (47, 2554), (49, 2566), (56, 2623), (68, 2701), (89, 2839), (108, 2959), (124, 3079), (126, 3091), (153, 3256), (165, 3349), (169, 3382),

Gene: Graduation_6 Start: 2366, Stop: 3436, Start Num: 41

Candidate Starts for Graduation_6:

(Start: 41 @2366 has 214 MA's), (47, 2429), (49, 2441), (56, 2498), (68, 2576), (89, 2714), (108, 2834), (124, 2954), (126, 2966), (165, 3224), (169, 3257),

Gene: Grayson_73 Start: 33212, Stop: 34630, Start Num: 11

Candidate Starts for Grayson_73:

(Start: 11 @33212 has 2 MA's), (23, 33281), (31, 33335), (39, 33410), (45, 33443), (62, 33617), (64, 33629), (92, 33809), (93, 33812), (170, 34409),

Gene: Grayson_74 Start: 34649, Stop: 36040, Start Num: 12

Candidate Starts for Grayson_74:

(Start: 12 @34649 has 4 MA's), (50, 34928), (63, 35045), (90, 35219), (102, 35309), (115, 35402), (134, 35522), (155, 35687), (160, 35741), (166, 35789), (170, 35828), (177, 35888),

Gene: GrecoEtereo_6 Start: 2573, Stop: 3643, Start Num: 41

Candidate Starts for GrecoEtereo_6:

(Start: 41 @2573 has 214 MA's), (47, 2636), (49, 2648), (56, 2705), (68, 2783), (89, 2921), (108, 3041), (124, 3161), (126, 3173), (165, 3431), (169, 3464),

Gene: Greg_6 Start: 2089, Stop: 3159, Start Num: 41

Candidate Starts for Greg_6:

(Start: 37 @2071 has 3 MA's), (Start: 41 @2089 has 214 MA's), (47, 2152), (49, 2164), (56, 2221), (68, 2299), (89, 2437), (108, 2557), (124, 2677), (126, 2689), (153, 2854), (169, 2980),

Gene: GroundGoblin_5 Start: 2262, Stop: 3332, Start Num: 41

Candidate Starts for GroundGoblin_5:

(Start: 41 @2262 has 214 MA's), (47, 2325), (49, 2337), (56, 2394), (68, 2472), (89, 2610), (108, 2730), (124, 2850), (126, 2862), (165, 3120), (169, 3153),

Gene: Gwendoluna_5 Start: 2371, Stop: 3441, Start Num: 41

Candidate Starts for Gwendoluna_5:

(Start: 41 @2371 has 214 MA's), (47, 2434), (49, 2446), (56, 2503), (68, 2581), (89, 2719), (93, 2734), (108, 2839), (124, 2959), (126, 2971), (153, 3136), (169, 3262),

Gene: Gyzlar_6 Start: 2708, Stop: 3778, Start Num: 41

Candidate Starts for Gyzlar_6:

(Start: 41 @2708 has 214 MA's), (47, 2771), (49, 2783), (56, 2840), (68, 2918), (89, 3056), (108, 3176), (124, 3296), (126, 3308), (153, 3473), (165, 3566), (169, 3599),

Gene: Hami1_5 Start: 2277, Stop: 3347, Start Num: 41

Candidate Starts for Hami1_5:

(Start: 41 @2277 has 214 MA's), (47, 2340), (49, 2352), (56, 2409), (68, 2487), (89, 2625), (108, 2745), (124, 2865), (126, 2877), (153, 3042), (165, 3135), (169, 3168),

Gene: HanShotFirst_5 Start: 1882, Stop: 2952, Start Num: 41

Candidate Starts for HanShotFirst_5:

(Start: 41 @1882 has 214 MA's), (47, 1945), (49, 1957), (56, 2014), (68, 2092), (89, 2230), (108, 2350), (124, 2470), (126, 2482), (153, 2647), (169, 2773),

Gene: HarryOW_6 Start: 2573, Stop: 3643, Start Num: 41

Candidate Starts for HarryOW_6:

(Start: 41 @2573 has 214 MA's), (47, 2636), (49, 2648), (56, 2705), (68, 2783), (89, 2921), (108, 3041), (124, 3161), (126, 3173), (165, 3431), (169, 3464),

Gene: Hermia_6 Start: 2454, Stop: 3524, Start Num: 41

Candidate Starts for Hermia_6:

(Start: 41 @2454 has 214 MA's), (47, 2517), (49, 2529), (56, 2586), (68, 2664), (89, 2802), (108, 2922), (124, 3042), (126, 3054), (165, 3312), (169, 3345),

Gene: HermioneGrange_6 Start: 2007, Stop: 3077, Start Num: 41

Candidate Starts for HermioneGrange_6:

(Start: 41 @2007 has 214 MA's), (47, 2070), (49, 2082), (56, 2139), (68, 2217), (91, 2364), (108, 2475), (124, 2595), (126, 2607), (169, 2898),

Gene: Homines_5 Start: 2286, Stop: 3356, Start Num: 41

Candidate Starts for Homines_5:

(Start: 41 @2286 has 214 MA's), (47, 2349), (56, 2418), (68, 2496), (89, 2634), (108, 2754), (126, 2886), (153, 3051), (165, 3144), (169, 3177),

Gene: Hope4ever_5 Start: 2413, Stop: 3483, Start Num: 41

Candidate Starts for Hope4ever_5:

(Start: 41 @2413 has 214 MA's), (47, 2476), (49, 2488), (56, 2545), (68, 2623), (108, 2881), (124, 3001), (126, 3013), (165, 3271), (169, 3304),

Gene: ILeeKay_7 Start: 2484, Stop: 3554, Start Num: 41

Candidate Starts for ILeeKay_7:

(Start: 41 @2484 has 214 MA's), (47, 2547), (49, 2559), (56, 2616), (59, 2640), (68, 2694), (89, 2832), (108, 2952), (124, 3072), (126, 3084), (153, 3249), (169, 3375),

Gene: Ichabod_5 Start: 2006, Stop: 3076, Start Num: 41

Candidate Starts for Ichabod_5:

(Start: 41 @2006 has 214 MA's), (47, 2069), (49, 2081), (56, 2138), (68, 2216), (91, 2363), (108, 2474), (124, 2594), (126, 2606), (153, 2771), (165, 2864), (169, 2897),

Gene: IgnatiusPatJac_4 Start: 2282, Stop: 3352, Start Num: 41

Candidate Starts for IgnatiusPatJac_4:

(Start: 41 @2282 has 214 MA's), (47, 2345), (49, 2357), (56, 2414), (68, 2492), (89, 2630), (108, 2750), (124, 2870), (126, 2882), (153, 3047), (169, 3173),

Gene: Inyanga_4 Start: 2064, Stop: 3134, Start Num: 41

Candidate Starts for Inyanga_4:

(Start: 41 @2064 has 214 MA's), (47, 2127), (49, 2139), (56, 2196), (68, 2274), (89, 2412), (108, 2532), (124, 2652), (126, 2664), (165, 2922), (169, 2955),

Gene: Iqorha_4 Start: 2064, Stop: 3134, Start Num: 41

Candidate Starts for Iqorha_4:

(Start: 41 @2064 has 214 MA's), (47, 2127), (49, 2139), (56, 2196), (68, 2274), (89, 2412), (108, 2532), (124, 2652), (126, 2664), (165, 2922), (169, 2955),

Gene: JC27_6 Start: 2704, Stop: 3774, Start Num: 41

Candidate Starts for JC27_6:

(Start: 41 @2704 has 214 MA's), (47, 2767), (49, 2779), (56, 2836), (68, 2914), (89, 3052), (108, 3172), (126, 3304), (165, 3562), (169, 3595),

Gene: JSwag_7 Start: 3414, Stop: 4406, Start Num: 48

Candidate Starts for JSwag_7:

(15, 3147), (22, 3201), (30, 3246), (38, 3327), (Start: 48 @3414 has 23 MA's), (78, 3600), (91, 3690), (97, 3723), (109, 3795), (118, 3870), (165, 4179), (171, 4236), (181, 4302), (186, 4332), (198, 4395),

Gene: JackSparrow_5 Start: 2271, Stop: 3341, Start Num: 41

Candidate Starts for JackSparrow_5:

(Start: 41 @2271 has 214 MA's), (47, 2334), (49, 2346), (56, 2403), (89, 2619), (108, 2739), (124, 2859), (126, 2871), (165, 3129), (169, 3162),

Gene: Jasper_6 Start: 2119, Stop: 3189, Start Num: 41

Candidate Starts for Jasper_6:

(Start: 41 @2119 has 214 MA's), (47, 2182), (49, 2194), (56, 2251), (68, 2329), (108, 2587), (124, 2707), (126, 2719), (145, 2824), (169, 3010),

Gene: JellyBelly_36 Start: 31081, Stop: 31980, Start Num: 57

Candidate Starts for JellyBelly_36:

(1, 30475), (2, 30697), (8, 30727), (Start: 11 @30748 has 2 MA's), (Start: 41 @30946 has 214 MA's), (Start: 57 @31081 has 21 MA's), (61, 31120), (66, 31141), (74, 31180), (83, 31210), (103, 31339), (123, 31489), (128, 31519), (142, 31579), (157, 31702), (161, 31732), (169, 31792), (173, 31822), (176, 31840), (177, 31849), (189, 31915), (191, 31924), (195, 31957), (200, 31966), (201, 31969),

Gene: Jerm2_5 Start: 2006, Stop: 3076, Start Num: 41

Candidate Starts for Jerm2_5:

(Start: 41 @2006 has 214 MA's), (47, 2069), (49, 2081), (56, 2138), (68, 2216), (89, 2354), (108, 2474), (124, 2594), (126, 2606), (169, 2897),

Gene: Jorgensen_5 Start: 2024, Stop: 3094, Start Num: 41

Candidate Starts for Jorgensen_5:

(Start: 41 @2024 has 214 MA's), (47, 2087), (49, 2099), (56, 2156), (68, 2234), (108, 2492), (124, 2612), (126, 2624), (145, 2729), (169, 2915),

Gene: JuliaChild_7 Start: 2748, Stop: 3818, Start Num: 41

Candidate Starts for JuliaChild_7:

(Start: 41 @2748 has 214 MA's), (47, 2811), (49, 2823), (56, 2880), (68, 2958), (91, 3105), (108, 3216), (124, 3336), (126, 3348), (169, 3639),

Gene: KBG_5 Start: 2621, Stop: 3709, Start Num: 37

Candidate Starts for KBG_5:

(Start: 37 @2621 has 3 MA's), (Start: 41 @2639 has 214 MA's), (47, 2702), (49, 2714), (56, 2771), (68, 2849), (89, 2987), (93, 3002), (108, 3107), (124, 3227), (126, 3239), (153, 3404), (169, 3530),

Gene: KSSJEB_4 Start: 1764, Stop: 2834, Start Num: 41

Candidate Starts for KSSJEB_4:

(Start: 41 @1764 has 214 MA's), (47, 1827), (49, 1839), (56, 1896), (68, 1974), (91, 2121), (108, 2232), (124, 2352), (126, 2364), (153, 2529), (165, 2622), (169, 2655),

Gene: Kanely_6 Start: 2858, Stop: 3928, Start Num: 41

Candidate Starts for Kanely_6:

(Start: 41 @2858 has 214 MA's), (47, 2921), (49, 2933), (56, 2990), (68, 3068), (89, 3206), (108, 3326), (124, 3446), (126, 3458), (153, 3623), (169, 3749),

Gene: KatherineG_7 Start: 3561, Stop: 4553, Start Num: 48

Candidate Starts for KatherineG_7:

(22, 3348), (30, 3393), (38, 3474), (Start: 48 @3561 has 23 MA's), (78, 3747), (96, 3867), (97, 3870), (165, 4326), (171, 4383), (181, 4449), (186, 4479), (198, 4542),

Gene: Kenmech_6 Start: 2288, Stop: 3358, Start Num: 41

Candidate Starts for Kenmech_6:

(Start: 41 @2288 has 214 MA's), (47, 2351), (49, 2363), (56, 2420), (68, 2498), (91, 2645), (108, 2756), (126, 2888), (153, 3053), (165, 3146), (169, 3179),

Gene: KikiBouba_6 Start: 2263, Stop: 3333, Start Num: 41

Candidate Starts for KikiBouba_6:

(Start: 41 @2263 has 214 MA's), (47, 2326), (49, 2338), (56, 2395), (68, 2473), (89, 2611), (108, 2731), (124, 2851), (126, 2863), (165, 3121), (169, 3154),

Gene: Killigrew_3 Start: 1751, Stop: 2818, Start Num: 41

Candidate Starts for Killigrew_3:

(Start: 41 @1751 has 214 MA's), (47, 1814), (49, 1826), (56, 1883), (68, 1961), (91, 2108), (108, 2219), (124, 2339), (126, 2351), (169, 2642),

Gene: Kugel_6 Start: 2326, Stop: 3396, Start Num: 41

Candidate Starts for Kugel_6:

(26, 2221), (Start: 37 @2308 has 3 MA's), (Start: 41 @2326 has 214 MA's), (47, 2389), (49, 2401), (56, 2458), (68, 2536), (89, 2674), (108, 2794), (124, 2914), (126, 2926), (169, 3217),

Gene: KyMonks1A_7 Start: 2592, Stop: 3662, Start Num: 41

Candidate Starts for KyMonks1A_7:

(Start: 41 @2592 has 214 MA's), (47, 2655), (49, 2667), (56, 2724), (68, 2802), (89, 2940), (108, 3060), (124, 3180), (153, 3357), (165, 3450), (169, 3483),

Gene: Kykar_3 Start: 1803, Stop: 2873, Start Num: 41

Candidate Starts for Kykar_3:

(Start: 37 @1785 has 3 MA's), (Start: 41 @1803 has 214 MA's), (47, 1866), (49, 1878), (56, 1935), (68, 2013), (89, 2151), (108, 2271), (124, 2391), (126, 2403), (135, 2448), (153, 2568), (165, 2661), (169, 2694),

Gene: Lamina13_5 Start: 1880, Stop: 2950, Start Num: 41

Candidate Starts for Lamina13_5:

(Start: 41 @1880 has 214 MA's), (47, 1943), (49, 1955), (56, 2012), (68, 2090), (91, 2237), (108, 2348), (124, 2468), (126, 2480), (165, 2738), (169, 2771),

Gene: LastResort_7 Start: 3414, Stop: 4406, Start Num: 48

Candidate Starts for LastResort_7:

(15, 3147), (22, 3201), (30, 3246), (38, 3327), (Start: 48 @3414 has 23 MA's), (78, 3600), (91, 3690), (97, 3723), (109, 3795), (118, 3870), (165, 4179), (171, 4236), (181, 4302), (186, 4332), (198, 4395),

Gene: LeeroyJenkins_31 Start: 14811, Stop: 15719, Start Num: 53

Candidate Starts for LeeroyJenkins_31:

(Start: 53 @14811 has 5 MA's), (58, 14844), (107, 15138), (125, 15261), (142, 15345), (147, 15393), (159, 15462), (199, 15714),

Gene: Lesedi_4 Start: 2018, Stop: 3088, Start Num: 41

Candidate Starts for Lesedi_4:

(Start: 41 @2018 has 214 MA's), (47, 2081), (49, 2093), (56, 2150), (68, 2228), (89, 2366), (108, 2486), (124, 2606), (126, 2618), (153, 2783), (169, 2909),

Gene: Levia_4 Start: 1738, Stop: 2808, Start Num: 41

Candidate Starts for Levia_4:

(Start: 41 @1738 has 214 MA's), (47, 1801), (49, 1813), (56, 1870), (68, 1948), (91, 2095), (108, 2206), (124, 2326), (126, 2338), (165, 2596), (169, 2629),

Gene: Licorice_7 Start: 2877, Stop: 3947, Start Num: 41

Candidate Starts for Licorice_7:

(Start: 41 @2877 has 214 MA's), (47, 2940), (49, 2952), (56, 3009), (68, 3087), (89, 3225), (108, 3345), (124, 3465), (126, 3477), (153, 3642), (165, 3735), (169, 3768),

Gene: Lifes_27 Start: 12520, Stop: 13443, Start Num: 53

Candidate Starts for Lifes_27:

(Start: 53 @12520 has 5 MA's), (84, 12700), (87, 12742), (102, 12832), (122, 12964), (125, 12985), (127, 13003), (144, 13096), (147, 13117), (151, 13132), (167, 13252), (168, 13270), (184, 13366), (194, 13417), (199, 13438),

Gene: Ligma_36 Start: 31148, Stop: 32053, Start Num: 57

Candidate Starts for Ligma_36:

(Start: 57 @31148 has 21 MA's), (60, 31181), (61, 31187), (65, 31205), (67, 31211), (73, 31250), (105, 31418), (110, 31472), (112, 31478), (128, 31595), (142, 31655), (145, 31685), (163, 31817), (165, 31838), (177, 31925), (189, 31988), (195, 32030), (200, 32039), (201, 32042),

Gene: LilBib_4 Start: 2061, Stop: 3131, Start Num: 41

Candidate Starts for LilBib_4:

(Start: 35 @2034 has 3 MA's), (Start: 41 @2061 has 214 MA's), (47, 2124), (49, 2136), (56, 2193), (68, 2271), (89, 2409), (108, 2529), (124, 2649), (126, 2661), (169, 2952),

Gene: LittleMunchkin_38 Start: 34566, Stop: 35381, Start Num: 57

Candidate Starts for LittleMunchkin_38:

(Start: 57 @34566 has 21 MA's), (60, 34599), (70, 34650), (74, 34665), (117, 34920), (119, 34944), (128, 34977), (135, 35007), (137, 35013), (140, 35022), (145, 35046), (152, 35091), (161, 35133), (165, 35163), (169, 35193), (173, 35223), (177, 35250), (197, 35361), (201, 35370), (202, 35373),

Gene: Lockley_5 Start: 2199, Stop: 3269, Start Num: 41

Candidate Starts for Lockley_5:

(Start: 37 @2181 has 3 MA's), (Start: 41 @2199 has 214 MA's), (47, 2262), (49, 2274), (56, 2331), (68, 2409), (89, 2547), (108, 2667), (124, 2787), (126, 2799), (153, 2964), (165, 3057), (169, 3090),

Gene: Looper_7 Start: 3414, Stop: 4406, Start Num: 48

Candidate Starts for Looper_7:

(15, 3147), (22, 3201), (30, 3246), (38, 3327), (Start: 48 @3414 has 23 MA's), (78, 3600), (91, 3690), (97, 3723), (109, 3795), (118, 3870), (165, 4179), (171, 4236), (181, 4302), (186, 4332), (198, 4395),

Gene: Lopton_6 Start: 2613, Stop: 3683, Start Num: 41

Candidate Starts for Lopton_6:

(Start: 41 @2613 has 214 MA's), (47, 2676), (49, 2688), (56, 2745), (68, 2823), (91, 2970), (108, 3081), (124, 3201), (126, 3213), (145, 3318), (169, 3504),

Gene: LunarLander_5 Start: 2029, Stop: 3099, Start Num: 41

Candidate Starts for LunarLander_5:

(Start: 41 @2029 has 214 MA's), (47, 2092), (49, 2104), (56, 2161), (68, 2239), (89, 2377), (108, 2497), (124, 2617), (126, 2629), (153, 2794), (165, 2887), (169, 2920),

Gene: MPlant7149_4 Start: 1846, Stop: 2916, Start Num: 41

Candidate Starts for MPlant7149_4:

(Start: 41 @1846 has 214 MA's), (47, 1909), (49, 1921), (56, 1978), (68, 2056), (89, 2194), (108, 2314), (124, 2434), (126, 2446), (153, 2611), (169, 2737),

Gene: Magnar_5 Start: 1998, Stop: 3068, Start Num: 41

Candidate Starts for Magnar_5:

(Start: 41 @1998 has 214 MA's), (47, 2061), (49, 2073), (56, 2130), (68, 2208), (89, 2346), (108, 2466), (124, 2586), (126, 2598), (153, 2763), (165, 2856), (169, 2889),

Gene: Magnito_4 Start: 1734, Stop: 2804, Start Num: 41

Candidate Starts for Magnito_4:

(Start: 41 @1734 has 214 MA's), (47, 1797), (49, 1809), (56, 1866), (68, 1944), (89, 2082), (108, 2202), (124, 2322), (126, 2334), (169, 2625),

Gene: Makemake_5 Start: 2471, Stop: 3541, Start Num: 41

Candidate Starts for Makemake_5:

(Start: 41 @2471 has 214 MA's), (47, 2534), (49, 2546), (56, 2603), (68, 2681), (89, 2819), (108, 2939), (124, 3059), (126, 3071), (145, 3176), (169, 3362),

Gene: MakoManhole_38 Start: 33105, Stop: 33947, Start Num: 57

Candidate Starts for MakoManhole_38:

(Start: 57 @33105 has 21 MA's), (61, 33144), (66, 33165), (76, 33219), (82, 33261), (83, 33276), (95, 33357), (99, 33384), (110, 33411), (114, 33432), (128, 33531), (135, 33561), (142, 33591), (145, 33621), (150, 33651), (154, 33681), (161, 33711), (169, 33771), (171, 33789), (176, 33819), (183, 33861), (187, 33885), (188, 33888),

Gene: Manatee_5 Start: 1933, Stop: 3003, Start Num: 42

Candidate Starts for Manatee_5:

(Start: 42 @1933 has 7 MA's), (47, 1996), (49, 2008), (56, 2065), (68, 2143), (89, 2281), (93, 2296), (108, 2401), (124, 2521), (126, 2533), (165, 2791), (169, 2824),

Gene: Marcell_5 Start: 2194, Stop: 3264, Start Num: 41

Candidate Starts for Marcell_5:

(Start: 41 @2194 has 214 MA's), (47, 2257), (49, 2269), (56, 2326), (68, 2404), (89, 2542), (108, 2662), (124, 2782), (126, 2794), (153, 2959), (165, 3052), (169, 3085),

Gene: Marchy_4 Start: 1830, Stop: 2900, Start Num: 41

Candidate Starts for Marchy_4:

(Start: 41 @1830 has 214 MA's), (47, 1893), (49, 1905), (56, 1962), (68, 2040), (91, 2187), (108, 2298), (124, 2418), (126, 2430), (169, 2721),

Gene: Marco3_5 Start: 2496, Stop: 3566, Start Num: 41

Candidate Starts for Marco3_5:

(Start: 41 @2496 has 214 MA's), (47, 2559), (49, 2571), (56, 2628), (68, 2706), (91, 2853), (108, 2964), (124, 3084), (126, 3096), (145, 3201), (165, 3354), (169, 3387),

Gene: Marge_5 Start: 2215, Stop: 3285, Start Num: 41

Candidate Starts for Marge_5:

(Start: 37 @2197 has 3 MA's), (Start: 41 @2215 has 214 MA's), (47, 2278), (49, 2290), (56, 2347), (68, 2425), (89, 2563), (108, 2683), (124, 2803), (126, 2815), (153, 2980), (169, 3106),

Gene: Mariokart_36 Start: 31077, Stop: 31976, Start Num: 57

Candidate Starts for Mariokart_36:

(1, 30471), (2, 30693), (8, 30723), (Start: 11 @30744 has 2 MA's), (Start: 41 @30942 has 214 MA's), (Start: 57 @31077 has 21 MA's), (61, 31116), (66, 31137), (74, 31176), (83, 31206), (103, 31335), (123, 31485), (128, 31515), (142, 31575), (157, 31698), (161, 31728), (169, 31788), (173, 31818), (176, 31836), (177, 31845), (189, 31911), (191, 31920), (195, 31953), (200, 31962), (201, 31965),

Gene: Maroc7_4 Start: 2016, Stop: 3086, Start Num: 41

Candidate Starts for Maroc7_4:

(Start: 41 @2016 has 214 MA's), (47, 2079), (49, 2091), (56, 2148), (68, 2226), (89, 2364), (108, 2484), (126, 2616), (153, 2781), (165, 2874), (169, 2907),

Gene: Marsha_5 Start: 2469, Stop: 3539, Start Num: 41

Candidate Starts for Marsha_5:

(Start: 41 @2469 has 214 MA's), (47, 2532), (49, 2544), (56, 2601), (68, 2679), (89, 2817), (108, 2937), (122, 3042), (124, 3057), (126, 3069), (153, 3234), (169, 3360),

Gene: MaryBeth_5 Start: 2440, Stop: 3510, Start Num: 41

Candidate Starts for MaryBeth_5:

(Start: 41 @2440 has 214 MA's), (47, 2503), (49, 2515), (56, 2572), (68, 2650), (91, 2797), (108, 2908), (124, 3028), (126, 3040), (145, 3145), (169, 3331),

Gene: McGuire_5 Start: 2000, Stop: 3070, Start Num: 41

Candidate Starts for McGuire_5:

(Start: 41 @2000 has 214 MA's), (47, 2063), (49, 2075), (56, 2132), (68, 2210), (91, 2357), (108, 2468), (124, 2588), (126, 2600), (153, 2765), (165, 2858), (169, 2891),

Gene: McSinger_6 Start: 2398, Stop: 3468, Start Num: 41

Candidate Starts for McSinger_6:

(Start: 37 @2380 has 3 MA's), (Start: 41 @2398 has 214 MA's), (47, 2461), (49, 2473), (56, 2530), (68, 2608), (91, 2755), (108, 2866), (124, 2986), (126, 2998), (169, 3289),

Gene: MetalQZJ_5 Start: 2440, Stop: 3510, Start Num: 41

Candidate Starts for MetalQZJ_5:

(Start: 41 @2440 has 214 MA's), (47, 2503), (49, 2515), (56, 2572), (68, 2650), (91, 2797), (108, 2908), (124, 3028), (126, 3040), (145, 3145), (169, 3331),

Gene: Michley_5 Start: 2199, Stop: 3269, Start Num: 41

Candidate Starts for Michley_5:

(Start: 41 @2199 has 214 MA's), (47, 2262), (49, 2274), (56, 2331), (89, 2547), (108, 2667), (124, 2787), (126, 2799), (153, 2964), (165, 3057), (169, 3090),

Gene: MilleFeuille_4 Start: 1763, Stop: 2833, Start Num: 41

Candidate Starts for MilleFeuille_4:

(Start: 41 @1763 has 214 MA's), (47, 1826), (49, 1838), (56, 1895), (68, 1973), (89, 2111), (108, 2231), (124, 2351), (126, 2363), (153, 2528), (165, 2621), (169, 2654),

Gene: MinecraftSteve_8 Start: 3561, Stop: 4553, Start Num: 48

Candidate Starts for MinecraftSteve_8:

(15, 3294), (22, 3348), (30, 3393), (38, 3474), (Start: 48 @3561 has 23 MA's), (78, 3747), (96, 3867), (97, 3870), (165, 4326), (171, 4383), (181, 4449), (186, 4479), (198, 4542),

Gene: Mkhuseleli_4 Start: 1845, Stop: 2915, Start Num: 41

Candidate Starts for Mkhuseleli_4:

(Start: 41 @1845 has 214 MA's), (47, 1908), (49, 1920), (56, 1977), (68, 2055), (89, 2193), (108, 2313), (124, 2433), (126, 2445), (153, 2610), (165, 2703), (169, 2736),

Gene: Molly_6 Start: 2046, Stop: 3116, Start Num: 41

Candidate Starts for Molly_6:

(Start: 41 @2046 has 214 MA's), (47, 2109), (49, 2121), (56, 2178), (68, 2256), (91, 2403), (108, 2514), (124, 2634), (126, 2646), (153, 2811), (165, 2904), (169, 2937),

Gene: Monet_5 Start: 2169, Stop: 3239, Start Num: 41

Candidate Starts for Monet_5:

(Start: 35 @2142 has 3 MA's), (Start: 41 @2169 has 214 MA's), (47, 2232), (49, 2244), (56, 2301), (68, 2379), (89, 2517), (108, 2637), (124, 2757), (126, 2769), (153, 2934), (169, 3060),

Gene: Moose_4 Start: 2279, Stop: 3349, Start Num: 41

Candidate Starts for Moose_4:

(Start: 41 @2279 has 214 MA's), (47, 2342), (49, 2354), (56, 2411), (68, 2489), (91, 2636), (108, 2747), (124, 2867), (126, 2879), (165, 3137), (169, 3170),

Gene: MossRose_38 Start: 33084, Stop: 33926, Start Num: 57

Candidate Starts for MossRose_38:

(Start: 57 @33084 has 21 MA's), (61, 33123), (66, 33144), (80, 33216), (82, 33240), (83, 33255), (95, 33336), (99, 33363), (110, 33390), (114, 33411), (128, 33510), (135, 33540), (142, 33570), (145, 33600), (150, 33630), (154, 33660), (161, 33690), (163, 33699), (169, 33750), (171, 33768), (173, 33780), (176, 33798), (183, 33840), (187, 33864), (188, 33867),

Gene: MrGordo_5 Start: 2032, Stop: 3102, Start Num: 41

Candidate Starts for MrGordo_5:

(Start: 41 @2032 has 214 MA's), (47, 2095), (49, 2107), (56, 2164), (68, 2242), (89, 2380), (108, 2500), (124, 2620), (126, 2632), (153, 2797), (165, 2890), (169, 2923),

Gene: Mryolo_4 Start: 2015, Stop: 3085, Start Num: 41

Candidate Starts for Mryolo_4:

(Start: 41 @2015 has 214 MA's), (47, 2078), (49, 2090), (56, 2147), (68, 2225), (89, 2363), (108, 2483), (126, 2615), (145, 2720), (169, 2906),

Gene: Mule_4 Start: 2104, Stop: 3174, Start Num: 41

Candidate Starts for Mule_4:

(Start: 41 @2104 has 214 MA's), (47, 2167), (49, 2179), (56, 2236), (68, 2314), (89, 2452), (108, 2572), (124, 2692), (126, 2704), (153, 2869), (165, 2962), (169, 2995),

Gene: Museum_6 Start: 1846, Stop: 2916, Start Num: 41

Candidate Starts for Museum_6:

(Start: 41 @1846 has 214 MA's), (47, 1909), (49, 1921), (56, 1978), (68, 2056), (89, 2194), (108, 2314), (124, 2434), (126, 2446), (165, 2704), (169, 2737),

Gene: NEHalo_5 Start: 1840, Stop: 2910, Start Num: 41

Candidate Starts for NEHalo_5:

(Start: 41 @1840 has 214 MA's), (47, 1903), (49, 1915), (56, 1972), (68, 2050), (89, 2188), (108, 2308), (124, 2428), (126, 2440), (165, 2698), (169, 2731),

Gene: NHagos_36 Start: 31646, Stop: 32542, Start Num: 57

Candidate Starts for NHagos_36:

(Start: 57 @31646 has 21 MA's), (60, 31679), (61, 31685), (67, 31709), (74, 31751), (82, 31802), (102, 31943), (110, 32003), (111, 32006), (128, 32126), (142, 32186), (148, 32237), (150, 32246), (156, 32291), (161, 32306), (165, 32336), (169, 32366), (173, 32396), (177, 32423), (187, 32480), (188, 32483),

Gene: Naira_5 Start: 2235, Stop: 3305, Start Num: 41

Candidate Starts for Naira_5:

(Start: 41 @2235 has 214 MA's), (47, 2298), (49, 2310), (56, 2367), (68, 2445), (91, 2592), (108, 2703), (124, 2823), (126, 2835), (139, 2898), (145, 2940), (169, 3126),

Gene: Nebulosus_7 Start: 3414, Stop: 4406, Start Num: 48

Candidate Starts for Nebulosus_7:

(15, 3147), (22, 3201), (30, 3246), (38, 3327), (Start: 48 @3414 has 23 MA's), (78, 3600), (91, 3690), (97, 3723), (109, 3795), (118, 3870), (165, 4179), (171, 4236), (181, 4302), (186, 4332), (198, 4395),

Gene: Nerujay_5 Start: 2133, Stop: 3203, Start Num: 41

Candidate Starts for Nerujay_5:

(Start: 41 @2133 has 214 MA's), (47, 2196), (49, 2208), (56, 2265), (68, 2343), (89, 2481), (108, 2601), (124, 2721), (126, 2733), (165, 2991), (169, 3024),

Gene: Nhonho_5 Start: 2136, Stop: 3206, Start Num: 42

Candidate Starts for Nhonho_5:

(Start: 42 @2136 has 7 MA's), (47, 2199), (49, 2211), (56, 2268), (68, 2346), (89, 2484), (108, 2604), (126, 2736), (153, 2901), (165, 2994), (169, 3027),

Gene: Niza_6 Start: 2852, Stop: 3922, Start Num: 41

Candidate Starts for Niza_6:

(Start: 41 @2852 has 214 MA's), (47, 2915), (49, 2927), (56, 2984), (68, 3062), (89, 3200), (108, 3320), (124, 3440), (126, 3452), (145, 3557), (153, 3617), (169, 3743),

Gene: Norz_5 Start: 2232, Stop: 3302, Start Num: 41

Candidate Starts for Norz_5:

(5, 1992), (9, 2007), (13, 2034), (18, 2061), (25, 2127), (Start: 37 @2214 has 3 MA's), (Start: 41 @2232 has 214 MA's), (47, 2295), (49, 2307), (56, 2364), (68, 2442), (91, 2589), (108, 2700), (124, 2820), (126, 2832), (153, 2997), (169, 3123),

Gene: Noxious_6 Start: 2454, Stop: 3524, Start Num: 41

Candidate Starts for Noxious_6:

(Start: 41 @2454 has 214 MA's), (47, 2517), (49, 2529), (56, 2586), (68, 2664), (89, 2802), (108, 2922), (124, 3042), (126, 3054), (165, 3312), (169, 3345),

Gene: Ohno789_4 Start: 1689, Stop: 2759, Start Num: 41

Candidate Starts for Ohno789_4:

(Start: 41 @1689 has 214 MA's), (47, 1752), (49, 1764), (56, 1821), (68, 1899), (91, 2046), (108, 2157), (124, 2277), (126, 2289), (145, 2394), (169, 2580),

Gene: Oofda_7 Start: 3417, Stop: 4409, Start Num: 48

Candidate Starts for Oofda_7:

(22, 3204), (30, 3249), (38, 3330), (Start: 48 @3417 has 23 MA's), (78, 3603), (85, 3651), (101, 3759), (120, 3885), (165, 4182), (171, 4239), (181, 4305), (186, 4335), (198, 4398),

Gene: Oogway_4 Start: 2260, Stop: 3330, Start Num: 41

Candidate Starts for Oogway_4:

(Start: 37 @2242 has 3 MA's), (Start: 41 @2260 has 214 MA's), (47, 2323), (49, 2335), (56, 2392), (68, 2470), (89, 2608), (108, 2728), (124, 2848), (126, 2860), (169, 3151),

Gene: PSullivan_7 Start: 2748, Stop: 3818, Start Num: 41

Candidate Starts for PSullivan_7:

(Start: 41 @2748 has 214 MA's), (47, 2811), (49, 2823), (56, 2880), (68, 2958), (91, 3105), (108, 3216), (124, 3336), (126, 3348), (169, 3639),

Gene: PacerPaul_5 Start: 2519, Stop: 3607, Start Num: 37

Candidate Starts for PacerPaul_5:

(Start: 37 @2519 has 3 MA's), (Start: 41 @2537 has 214 MA's), (47, 2600), (49, 2612), (56, 2669), (68, 2747), (89, 2885), (108, 3005), (124, 3125), (126, 3137), (153, 3302), (169, 3428),

Gene: Papez_5 Start: 2355, Stop: 3425, Start Num: 41

Candidate Starts for Papez_5:

(7, 2115), (10, 2130), (14, 2157), (19, 2184), (26, 2250), (36, 2331), (Start: 37 @2337 has 3 MA's), (Start: 41 @2355 has 214 MA's), (47, 2418), (49, 2430), (56, 2487), (68, 2565), (89, 2703), (108, 2823), (124, 2943), (126, 2955), (153, 3120), (165, 3213), (169, 3246),

Gene: Paphu_4 Start: 1726, Stop: 2796, Start Num: 41

Candidate Starts for Paphu_4:

(Start: 41 @1726 has 214 MA's), (47, 1789), (49, 1801), (56, 1858), (68, 1936), (89, 2074), (108, 2194), (124, 2314), (126, 2326), (153, 2491), (165, 2584), (169, 2617),

Gene: Paraselene_4 Start: 2010, Stop: 3080, Start Num: 41

Candidate Starts for Paraselene_4:

(Start: 41 @2010 has 214 MA's), (47, 2073), (49, 2085), (56, 2142), (68, 2220), (89, 2358), (108, 2478), (124, 2598), (126, 2610), (153, 2775), (165, 2868), (169, 2901),

Gene: Pari_6 Start: 2500, Stop: 3570, Start Num: 41

Candidate Starts for Pari_6:

(Start: 41 @2500 has 214 MA's), (47, 2563), (49, 2575), (56, 2632), (68, 2710), (91, 2857), (108, 2968), (124, 3088), (126, 3100), (169, 3391),

Gene: Parliament_4 Start: 2207, Stop: 3277, Start Num: 41

Candidate Starts for Parliament_4:

(Start: 41 @2207 has 214 MA's), (47, 2270), (49, 2282), (56, 2339), (68, 2417), (89, 2555), (108, 2675), (124, 2795), (126, 2807), (169, 3098),

Gene: PascalRango_4 Start: 1883, Stop: 2953, Start Num: 41

Candidate Starts for PascalRango_4:

(Start: 35 @1856 has 3 MA's), (Start: 41 @1883 has 214 MA's), (47, 1946), (49, 1958), (56, 2015), (68, 2093), (91, 2240), (108, 2351), (124, 2471), (126, 2483), (169, 2774),

Gene: PattyP_6 Start: 2041, Stop: 3111, Start Num: 41

Candidate Starts for PattyP_6:

(Start: 41 @2041 has 214 MA's), (47, 2104), (49, 2116), (56, 2173), (68, 2251), (91, 2398), (108, 2509), (124, 2629), (126, 2641), (169, 2932),

Gene: Payneful_5 Start: 1830, Stop: 2900, Start Num: 41

Candidate Starts for Payneful_5:

(Start: 41 @1830 has 214 MA's), (47, 1893), (49, 1905), (56, 1962), (68, 2040), (91, 2187), (108, 2298), (124, 2418), (126, 2430), (169, 2721),

Gene: Pelly_6 Start: 2680, Stop: 3750, Start Num: 41

Candidate Starts for Pelly_6:

(Start: 37 @2662 has 3 MA's), (Start: 41 @2680 has 214 MA's), (47, 2743), (49, 2755), (56, 2812), (68, 2890), (89, 3028), (93, 3043), (108, 3148), (124, 3268), (126, 3280), (153, 3445), (169, 3571),

Gene: Pepe_6 Start: 2703, Stop: 3773, Start Num: 41

Candidate Starts for Pepe_6:

(Start: 41 @2703 has 214 MA's), (47, 2766), (49, 2778), (56, 2835), (68, 2913), (89, 3051), (108, 3171), (124, 3291), (126, 3303), (153, 3468), (165, 3561), (169, 3594),

Gene: Peregrin_71 Start: 31994, Stop: 33412, Start Num: 11

Candidate Starts for Peregrin_71:

(Start: 11 @31994 has 2 MA's), (20, 32033), (23, 32063), (31, 32117), (39, 32192), (45, 32225), (62, 32399), (64, 32411), (92, 32591), (165, 33140), (170, 33191), (174, 33230), (190, 33329), (193, 33341),

Gene: Peregrin_72 Start: 33431, Stop: 34822, Start Num: 12

Candidate Starts for Peregrin_72:

(Start: 12 @33431 has 4 MA's), (50, 33710), (63, 33827), (90, 34001), (102, 34091), (115, 34184), (155, 34469), (160, 34523), (166, 34571), (170, 34610), (177, 34670),

Gene: Perseus_6 Start: 2400, Stop: 3470, Start Num: 41

Candidate Starts for Perseus_6:

(Start: 41 @2400 has 214 MA's), (47, 2463), (49, 2475), (56, 2532), (68, 2610), (89, 2748), (108, 2868), (124, 2988), (126, 3000), (153, 3165), (165, 3258), (169, 3291),

Gene: Peterson_7 Start: 3535, Stop: 4605, Start Num: 41

Candidate Starts for Peterson_7:

(Start: 41 @3535 has 214 MA's), (47, 3598), (49, 3610), (56, 3667), (68, 3745), (89, 3883), (108, 4003), (124, 4123), (126, 4135), (153, 4300), (165, 4393), (169, 4426),

Gene: Petp2012_7 Start: 2208, Stop: 3278, Start Num: 41

Candidate Starts for Petp2012_7:

(Start: 41 @2208 has 214 MA's), (47, 2271), (49, 2283), (56, 2340), (68, 2418), (89, 2556), (108, 2676), (124, 2796), (126, 2808), (153, 2973), (169, 3099),

Gene: Petruchio_5 Start: 1949, Stop: 3019, Start Num: 41

Candidate Starts for Petruchio_5:

(Start: 37 @1931 has 3 MA's), (Start: 41 @1949 has 214 MA's), (47, 2012), (49, 2024), (56, 2081), (89, 2297), (108, 2417), (124, 2537), (126, 2549), (169, 2840),

Gene: PherrisBueller_6 Start: 2119, Stop: 3189, Start Num: 41

Candidate Starts for PherrisBuellier_6:

(Start: 41 @2119 has 214 MA's), (47, 2182), (49, 2194), (56, 2251), (68, 2329), (108, 2587), (124, 2707), (126, 2719), (145, 2824), (169, 3010),

Gene: PhineBark_3 Start: 1738, Stop: 2808, Start Num: 41

Candidate Starts for PhineBark_3:

(Start: 41 @1738 has 214 MA's), (47, 1801), (49, 1813), (56, 1870), (68, 1948), (91, 2095), (108, 2206), (124, 2326), (126, 2338), (165, 2596), (169, 2629),

Gene: Phlippers_4 Start: 2217, Stop: 3287, Start Num: 41

Candidate Starts for Phlippers_4:

(Start: 41 @2217 has 214 MA's), (47, 2280), (49, 2292), (56, 2349), (68, 2427), (89, 2565), (108, 2685), (126, 2817), (153, 2982), (165, 3075), (169, 3108),

Gene: PhrostyMug_4 Start: 2104, Stop: 3174, Start Num: 41

Candidate Starts for PhrostyMug_4:

(Start: 41 @2104 has 214 MA's), (47, 2167), (49, 2179), (56, 2236), (68, 2314), (89, 2452), (108, 2572), (124, 2692), (126, 2704), (153, 2869), (165, 2962), (169, 2995),

Gene: PinkPlastic_3 Start: 1763, Stop: 2833, Start Num: 42

Candidate Starts for PinkPlastic_3:

(Start: 42 @1763 has 7 MA's), (47, 1826), (49, 1838), (56, 1895), (68, 1973), (89, 2111), (108, 2231), (124, 2351), (126, 2363), (165, 2621), (169, 2654),

Gene: Pinto_7 Start: 2390, Stop: 3460, Start Num: 41

Candidate Starts for Pinto_7:

(Start: 41 @2390 has 214 MA's), (47, 2453), (49, 2465), (56, 2522), (68, 2600), (89, 2738), (108, 2858), (124, 2978), (126, 2990), (153, 3155), (169, 3281),

Gene: Pippin_6 Start: 2089, Stop: 3159, Start Num: 41

Candidate Starts for Pippin_6:

(Start: 37 @2071 has 3 MA's), (Start: 41 @2089 has 214 MA's), (47, 2152), (49, 2164), (56, 2221), (68, 2299), (89, 2437), (108, 2557), (124, 2677), (126, 2689), (153, 2854), (169, 2980),

Gene: Pita2_7 Start: 2748, Stop: 3818, Start Num: 41

Candidate Starts for Pita2_7:

(Start: 41 @2748 has 214 MA's), (47, 2811), (49, 2823), (56, 2880), (68, 2958), (91, 3105), (108, 3216), (124, 3336), (126, 3348), (169, 3639),

Gene: PowerRanger_4 Start: 2003, Stop: 3073, Start Num: 41

Candidate Starts for PowerRanger_4:

(26, 1898), (Start: 37 @1985 has 3 MA's), (Start: 41 @2003 has 214 MA's), (47, 2066), (49, 2078), (56, 2135), (68, 2213), (89, 2351), (108, 2471), (124, 2591), (126, 2603), (153, 2768), (165, 2861), (169, 2894),

Gene: ProMouse_4 Start: 2074, Stop: 3144, Start Num: 41

Candidate Starts for ProMouse_4:

(Start: 37 @2056 has 3 MA's), (Start: 41 @2074 has 214 MA's), (47, 2137), (49, 2149), (56, 2206), (68, 2284), (89, 2422), (108, 2542), (124, 2662), (126, 2674), (145, 2779), (169, 2965),

Gene: Puppet_5 Start: 2366, Stop: 3436, Start Num: 41

Candidate Starts for Puppet_5:

(Start: 41 @2366 has 214 MA's), (47, 2429), (49, 2441), (56, 2498), (68, 2576), (89, 2714), (108, 2834), (126, 2966), (153, 3131), (165, 3224), (169, 3257),

Gene: QTRLifeCrisis_4 Start: 2165, Stop: 3235, Start Num: 41

Candidate Starts for QTRLifeCrisis_4:

(Start: 41 @2165 has 214 MA's), (47, 2228), (49, 2240), (56, 2297), (68, 2375), (89, 2513), (108, 2633), (124, 2753), (126, 2765), (165, 3023), (169, 3056),

Gene: Raid_5 Start: 2019, Stop: 3089, Start Num: 41

Candidate Starts for Raid_5:

(Start: 41 @2019 has 214 MA's), (47, 2082), (49, 2094), (56, 2151), (68, 2229), (89, 2367), (108, 2487), (124, 2607), (126, 2619), (169, 2910),

Gene: Rajelicia_4 Start: 1878, Stop: 2948, Start Num: 42

Candidate Starts for Rajelicia_4:

(Start: 42 @1878 has 7 MA's), (47, 1941), (49, 1953), (56, 2010), (68, 2088), (89, 2226), (93, 2241), (108, 2346), (124, 2466), (126, 2478), (153, 2643), (165, 2736), (169, 2769),

Gene: Ravana_7 Start: 3414, Stop: 4406, Start Num: 48

Candidate Starts for Ravana_7:

(15, 3147), (22, 3201), (30, 3246), (38, 3327), (Start: 48 @3414 has 23 MA's), (78, 3600), (85, 3648), (88, 3678), (93, 3696), (101, 3756), (103, 3762), (118, 3870), (120, 3882), (151, 4053), (165, 4179), (171, 4236), (181, 4302), (186, 4332), (198, 4395),

Gene: ReMo_7 Start: 3414, Stop: 4406, Start Num: 48

Candidate Starts for ReMo_7:

(15, 3147), (22, 3201), (30, 3246), (38, 3327), (Start: 48 @3414 has 23 MA's), (78, 3600), (91, 3690), (97, 3723), (109, 3795), (118, 3870), (165, 4179), (171, 4236), (181, 4302), (186, 4332), (198, 4395),

Gene: Remus_7 Start: 3414, Stop: 4406, Start Num: 48

Candidate Starts for Remus_7:

(22, 3201), (30, 3246), (38, 3327), (Start: 48 @3414 has 23 MA's), (78, 3600), (96, 3720), (97, 3723), (165, 4179), (171, 4236), (181, 4302), (186, 4332), (198, 4395),

Gene: Rhynn_5 Start: 2324, Stop: 3394, Start Num: 41

Candidate Starts for Rhynn_5:

(Start: 41 @2324 has 214 MA's), (47, 2387), (49, 2399), (56, 2456), (68, 2534), (108, 2792), (124, 2912), (126, 2924), (165, 3182), (169, 3215),

Gene: RidgeCB_5 Start: 1846, Stop: 2916, Start Num: 41

Candidate Starts for RidgeCB_5:

(Start: 41 @1846 has 214 MA's), (47, 1909), (49, 1921), (56, 1978), (68, 2056), (89, 2194), (108, 2314), (124, 2434), (126, 2446), (153, 2611), (169, 2737),

Gene: Ringer_4 Start: 2333, Stop: 3403, Start Num: 41

Candidate Starts for Ringer_4:

(Start: 37 @2315 has 3 MA's), (Start: 41 @2333 has 214 MA's), (47, 2396), (49, 2408), (56, 2465), (68, 2543), (89, 2681), (108, 2801), (124, 2921), (126, 2933), (145, 3038), (153, 3098), (169, 3224),

Gene: Rohr_6 Start: 2540, Stop: 3610, Start Num: 41

Candidate Starts for Rohr_6:

(Start: 41 @2540 has 214 MA's), (47, 2603), (49, 2615), (56, 2672), (68, 2750), (91, 2897), (108, 3008), (124, 3128), (126, 3140), (142, 3215), (165, 3398), (169, 3431),

Gene: Rosalind_7 Start: 3561, Stop: 4553, Start Num: 48

Candidate Starts for Rosalind_7:

(15, 3294), (22, 3348), (30, 3393), (38, 3474), (Start: 48 @3561 has 23 MA's), (78, 3747), (96, 3867), (97, 3870), (165, 4326), (171, 4383), (181, 4449), (186, 4479), (198, 4542),

Gene: Rubeus_5 Start: 1847, Stop: 2917, Start Num: 41

Candidate Starts for Rubeus_5:

(Start: 41 @1847 has 214 MA's), (47, 1910), (49, 1922), (56, 1979), (68, 2057), (89, 2195), (108, 2315), (124, 2435), (126, 2447), (153, 2612), (169, 2738),

Gene: Rufus_5 Start: 1904, Stop: 2974, Start Num: 41

Candidate Starts for Rufus_5:

(Start: 41 @1904 has 214 MA's), (47, 1967), (49, 1979), (56, 2036), (68, 2114), (91, 2261), (108, 2372), (124, 2492), (126, 2504), (145, 2609), (153, 2669), (169, 2795),

Gene: Ruotula_4 Start: 2465, Stop: 3535, Start Num: 41

Candidate Starts for Ruotula_4:

(Start: 41 @2465 has 214 MA's), (47, 2528), (49, 2540), (56, 2597), (68, 2675), (89, 2813), (93, 2828), (108, 2933), (126, 3065), (165, 3323), (169, 3356),

Gene: Rutherferd_6 Start: 2365, Stop: 3435, Start Num: 41

Candidate Starts for Rutherferd_6:

(Start: 37 @2347 has 3 MA's), (Start: 41 @2365 has 214 MA's), (47, 2428), (49, 2440), (56, 2497), (68, 2575), (89, 2713), (108, 2833), (124, 2953), (126, 2965), (153, 3130), (165, 3223), (169, 3256),

Gene: STLscum_6 Start: 2457, Stop: 3527, Start Num: 41

Candidate Starts for STLscum_6:

(Start: 41 @2457 has 214 MA's), (47, 2520), (49, 2532), (56, 2589), (68, 2667), (91, 2814), (108, 2925), (124, 3045), (126, 3057), (153, 3222), (165, 3315), (169, 3348),

Gene: Sagefire_6 Start: 2520, Stop: 3590, Start Num: 41

Candidate Starts for Sagefire_6:

(Start: 35 @2493 has 3 MA's), (Start: 41 @2520 has 214 MA's), (47, 2583), (49, 2595), (56, 2652), (68, 2730), (89, 2868), (108, 2988), (124, 3108), (126, 3120), (153, 3285), (169, 3411),

Gene: Sandaddy_4 Start: 2241, Stop: 3311, Start Num: 41

Candidate Starts for Sandaddy_4:

(Start: 41 @2241 has 214 MA's), (47, 2304), (49, 2316), (56, 2373), (68, 2451), (108, 2709), (124, 2829), (126, 2841), (136, 2892), (153, 3006), (169, 3132),

Gene: Sanya_5 Start: 2903, Stop: 3973, Start Num: 41

Candidate Starts for Sanya_5:

(Start: 37 @2885 has 3 MA's), (Start: 41 @2903 has 214 MA's), (47, 2966), (49, 2978), (56, 3035), (68, 3113), (91, 3260), (108, 3371), (124, 3491), (126, 3503), (169, 3794),

Gene: SarFire_5 Start: 2102, Stop: 3172, Start Num: 41

Candidate Starts for SarFire_5:

(Start: 41 @2102 has 214 MA's), (47, 2165), (49, 2177), (56, 2234), (89, 2450), (108, 2570), (124, 2690), (126, 2702), (165, 2960), (169, 2993),

Gene: Scowl_6 Start: 2785, Stop: 3855, Start Num: 41

Candidate Starts for Scowl_6:

(Start: 41 @2785 has 214 MA's), (47, 2848), (49, 2860), (56, 2917), (68, 2995), (89, 3133), (108, 3253), (124, 3373), (126, 3385), (153, 3550), (165, 3643), (169, 3676),

Gene: Seabiscuit_6 Start: 2000, Stop: 3070, Start Num: 41

Candidate Starts for Seabiscuit_6:

(Start: 41 @2000 has 214 MA's), (47, 2063), (49, 2075), (56, 2132), (68, 2210), (91, 2357), (108, 2468), (124, 2588), (126, 2600), (153, 2765), (165, 2858), (169, 2891),

Gene: Seanderson_6 Start: 2764, Stop: 3834, Start Num: 42

Candidate Starts for Seanderson_6:

(Start: 42 @2764 has 7 MA's), (47, 2827), (49, 2839), (56, 2896), (68, 2974), (89, 3112), (108, 3232), (124, 3352), (126, 3364), (165, 3622), (169, 3655),

Gene: Shatter_36 Start: 31148, Stop: 32053, Start Num: 57

Candidate Starts for Shatter_36:

(Start: 57 @31148 has 21 MA's), (60, 31181), (61, 31187), (65, 31205), (67, 31211), (73, 31250), (105, 31418), (110, 31472), (112, 31478), (128, 31595), (142, 31655), (145, 31685), (163, 31817), (165, 31838), (177, 31925), (189, 31988), (195, 32030), (200, 32039), (201, 32042),

Gene: ShayRa_8 Start: 3561, Stop: 4553, Start Num: 48

Candidate Starts for ShayRa_8:

(Start: 48 @3561 has 23 MA's), (78, 3747), (96, 3867), (97, 3870), (165, 4326), (171, 4383), (181, 4449), (186, 4479), (198, 4542),

Gene: ShortQueendom_4 Start: 1699, Stop: 2769, Start Num: 41

Candidate Starts for ShortQueendom_4:

(Start: 41 @1699 has 214 MA's), (47, 1762), (49, 1774), (56, 1831), (68, 1909), (91, 2056), (108, 2167), (124, 2287), (126, 2299), (169, 2590),

Gene: Sibs6_6 Start: 2040, Stop: 3110, Start Num: 41

Candidate Starts for Sibs6_6:

(Start: 41 @2040 has 214 MA's), (47, 2103), (49, 2115), (56, 2172), (68, 2250), (89, 2388), (108, 2508), (124, 2628), (126, 2640), (153, 2805), (169, 2931),

Gene: Sisko_36 Start: 32004, Stop: 32819, Start Num: 57

Candidate Starts for Sisko_36:

(34, 31827), (Start: 41 @31863 has 214 MA's), (Start: 57 @32004 has 21 MA's), (69, 32085), (70, 32088), (73, 32100), (117, 32358), (122, 32400), (128, 32415), (135, 32445), (145, 32484), (152, 32529), (161, 32571), (165, 32601), (169, 32631), (173, 32661), (177, 32688), (197, 32799), (201, 32808), (202, 32811),

Gene: SkiPole_6 Start: 2409, Stop: 3506, Start Num: 35

Candidate Starts for SkiPole_6:

(Start: 35 @2409 has 3 MA's), (Start: 41 @2436 has 214 MA's), (47, 2499), (49, 2511), (56, 2568), (68, 2646), (91, 2793), (108, 2904), (124, 3024), (126, 3036), (153, 3201), (165, 3294), (169, 3327),

Gene: Slagathor_5 Start: 1849, Stop: 2919, Start Num: 41

Candidate Starts for Slagathor_5:

(Start: 41 @1849 has 214 MA's), (47, 1912), (49, 1924), (56, 1981), (68, 2059), (89, 2197), (108, 2317), (122, 2422), (124, 2437), (126, 2449), (139, 2512), (169, 2740),

Gene: Smairt_6 Start: 2713, Stop: 3783, Start Num: 41

Candidate Starts for Smairt_6:

(Start: 37 @2695 has 3 MA's), (Start: 41 @2713 has 214 MA's), (47, 2776), (49, 2788), (56, 2845), (68, 2923), (89, 3061), (108, 3181), (124, 3301), (126, 3313), (130, 3334), (153, 3478), (169, 3604),

Gene: Smeagol_6 Start: 3028, Stop: 4098, Start Num: 41

Candidate Starts for Smeagol_6:

(Start: 41 @3028 has 214 MA's), (47, 3091), (49, 3103), (56, 3160), (68, 3238), (89, 3376), (93, 3391), (108, 3496), (124, 3616), (126, 3628), (153, 3793), (169, 3919),

Gene: Snazzy_3 Start: 1744, Stop: 2814, Start Num: 41

Candidate Starts for Snazzy_3:

(Start: 37 @1726 has 3 MA's), (Start: 41 @1744 has 214 MA's), (47, 1807), (49, 1819), (56, 1876), (68, 1954), (91, 2101), (108, 2212), (124, 2332), (126, 2344), (169, 2635),

Gene: Solon_4 Start: 1737, Stop: 2807, Start Num: 41

Candidate Starts for Solon_4:

(Start: 35 @1710 has 3 MA's), (Start: 41 @1737 has 214 MA's), (47, 1800), (49, 1812), (56, 1869), (68, 1947), (89, 2085), (108, 2205), (124, 2325), (126, 2337), (165, 2595), (169, 2628),

Gene: Sorpresa_5 Start: 2241, Stop: 3311, Start Num: 41

Candidate Starts for Sorpresa_5:

(Start: 41 @2241 has 214 MA's), (47, 2304), (49, 2316), (56, 2373), (68, 2451), (108, 2709), (124, 2829), (126, 2841), (153, 3006), (169, 3132),

Gene: Soups_7 Start: 3561, Stop: 4553, Start Num: 48

Candidate Starts for Soups_7:

(38, 3474), (Start: 48 @3561 has 23 MA's), (78, 3747), (85, 3795), (93, 3843), (101, 3903), (103, 3909), (118, 4017), (120, 4029), (151, 4200), (165, 4326), (171, 4383), (181, 4449), (186, 4479), (198, 4542),

Gene: Sour_41 Start: 35889, Stop: 36761, Start Num: 57

Candidate Starts for Sour_41:

(Start: 41 @35748 has 214 MA's), (Start: 57 @35889 has 21 MA's), (74, 35988), (83, 36018), (93, 36084), (104, 36147), (117, 36243), (123, 36297), (128, 36327), (135, 36357), (137, 36363), (140, 36372), (143, 36384), (145, 36396), (151, 36432), (152, 36441), (157, 36483), (161, 36513), (165, 36543), (201, 36750),

Gene: SpikeBT_5 Start: 2113, Stop: 3183, Start Num: 41

Candidate Starts for SpikeBT_5:

(Start: 41 @2113 has 214 MA's), (47, 2176), (49, 2188), (56, 2245), (68, 2323), (89, 2461), (108, 2581), (124, 2701), (126, 2713), (153, 2878), (165, 2971), (169, 3004),

Gene: Squee_4 Start: 1863, Stop: 2933, Start Num: 41

Candidate Starts for Squee_4:

(Start: 41 @1863 has 214 MA's), (47, 1926), (49, 1938), (56, 1995), (77, 2118), (89, 2211), (108, 2331), (124, 2451), (126, 2463), (145, 2568), (169, 2754),

Gene: StewieG_4 Start: 2112, Stop: 3182, Start Num: 41

Candidate Starts for StewieG_4:

(Start: 41 @2112 has 214 MA's), (47, 2175), (49, 2187), (56, 2244), (68, 2322), (89, 2460), (108, 2580), (124, 2700), (126, 2712), (153, 2877), (165, 2970), (169, 3003),

Gene: StrongArm_4 Start: 1955, Stop: 3025, Start Num: 41

Candidate Starts for StrongArm_4:

(Start: 41 @1955 has 214 MA's), (47, 2018), (49, 2030), (56, 2087), (68, 2165), (89, 2303), (108, 2423), (124, 2543), (126, 2555), (153, 2720), (169, 2846),

Gene: Strosahl_7 Start: 3414, Stop: 4406, Start Num: 48

Candidate Starts for Strosahl_7:

(22, 3201), (30, 3246), (38, 3327), (Start: 48 @3414 has 23 MA's), (78, 3600), (96, 3720), (97, 3723), (165, 4179), (171, 4236), (181, 4302), (186, 4332), (198, 4395),

Gene: Sumter_4 Start: 1836, Stop: 2906, Start Num: 41

Candidate Starts for Sumter_4:

(Start: 41 @1836 has 214 MA's), (47, 1899), (49, 1911), (56, 1968), (68, 2046), (89, 2184), (108, 2304), (124, 2424), (126, 2436), (153, 2601), (169, 2727),

Gene: Sunshine924_4 Start: 1817, Stop: 2887, Start Num: 41

Candidate Starts for Sunshine924_4:

(Start: 37 @1799 has 3 MA's), (Start: 41 @1817 has 214 MA's), (47, 1880), (49, 1892), (56, 1949), (68, 2027), (89, 2165), (108, 2285), (124, 2405), (126, 2417), (153, 2582), (165, 2675), (169, 2708),

Gene: SwissCheese_5 Start: 2279, Stop: 3349, Start Num: 41

Candidate Starts for SwissCheese_5:

(Start: 41 @2279 has 214 MA's), (47, 2342), (49, 2354), (56, 2411), (68, 2489), (91, 2636), (108, 2747), (124, 2867), (126, 2879), (165, 3137), (169, 3170),

Gene: Switzer_5 Start: 1853, Stop: 2950, Start Num: 35

Candidate Starts for Switzer_5:

(Start: 35 @1853 has 3 MA's), (Start: 41 @1880 has 214 MA's), (47, 1943), (49, 1955), (56, 2012), (68, 2090), (91, 2237), (108, 2348), (124, 2468), (126, 2480), (153, 2645), (169, 2771),

Gene: Switzerland_7 Start: 3561, Stop: 4553, Start Num: 48

Candidate Starts for Switzerland_7:

(15, 3294), (22, 3348), (30, 3393), (38, 3474), (Start: 48 @3561 has 23 MA's), (78, 3747), (96, 3867), (97, 3870), (165, 4326), (171, 4383), (181, 4449), (186, 4479), (198, 4542),

Gene: Swole_7 Start: 2748, Stop: 3818, Start Num: 41

Candidate Starts for Swole_7:

(Start: 41 @2748 has 214 MA's), (47, 2811), (49, 2823), (56, 2880), (68, 2958), (91, 3105), (108, 3216), (124, 3336), (126, 3348), (169, 3639),

Gene: TPA2_46 Start: 35834, Stop: 36925, Start Num: 55

Candidate Starts for TPA2_46:

(16, 35516), (44, 35705), (55, 35834), (70, 35918), (74, 35939), (81, 35969), (82, 35990), (94, 36077), (98, 36119), (123, 36299), (133, 36344), (138, 36374), (142, 36389), (149, 36446), (154, 36491), (161, 36551), (162, 36554), (172, 36632), (182, 36698), (186, 36716), (192, 36749), (203, 36809),

Gene: Target_6 Start: 2536, Stop: 3606, Start Num: 41

Candidate Starts for Target_6:

(Start: 41 @2536 has 214 MA's), (47, 2599), (49, 2611), (56, 2668), (89, 2884), (93, 2899), (108, 3004), (124, 3124), (126, 3136), (139, 3199), (145, 3241), (169, 3427),

Gene: Tasp14_6 Start: 2536, Stop: 3606, Start Num: 41

Candidate Starts for Tasp14_6:

(Start: 41 @2536 has 214 MA's), (47, 2599), (49, 2611), (56, 2668), (68, 2746), (91, 2893), (108, 3004), (124, 3124), (126, 3136), (169, 3427),

Gene: Teodoridan_3 Start: 1682, Stop: 2752, Start Num: 41

Candidate Starts for Teodoridan_3:

(Start: 41 @1682 has 214 MA's), (47, 1745), (49, 1757), (56, 1814), (68, 1892), (91, 2039), (108, 2150), (124, 2270), (126, 2282), (169, 2573),

Gene: TheloniousMonk_5 Start: 2164, Stop: 3234, Start Num: 41

Candidate Starts for TheloniousMonk_5:

(Start: 41 @2164 has 214 MA's), (47, 2227), (49, 2239), (56, 2296), (68, 2374), (89, 2512), (108, 2632), (124, 2752), (126, 2764), (165, 3022), (169, 3055),

Gene: Thor_5 Start: 2102, Stop: 3172, Start Num: 41

Candidate Starts for Thor_5:

(Start: 41 @2102 has 214 MA's), (47, 2165), (49, 2177), (56, 2234), (89, 2450), (108, 2570), (124, 2690), (126, 2702), (165, 2960), (169, 2993),

Gene: Topgun_5 Start: 2028, Stop: 3098, Start Num: 41

Candidate Starts for Topgun_5:

(Start: 41 @2028 has 214 MA's), (47, 2091), (49, 2103), (56, 2160), (68, 2238), (89, 2376), (108, 2496), (124, 2616), (126, 2628), (153, 2793), (165, 2886), (169, 2919),

Gene: Tote_7 Start: 2748, Stop: 3818, Start Num: 41

Candidate Starts for Tote_7:

(Start: 41 @2748 has 214 MA's), (47, 2811), (49, 2823), (56, 2880), (68, 2958), (91, 3105), (108, 3216), (124, 3336), (126, 3348), (169, 3639),

Gene: TraderJ_38 Start: 33087, Stop: 33929, Start Num: 57

Candidate Starts for TraderJ_38:

(Start: 57 @33087 has 21 MA's), (66, 33147), (83, 33258), (95, 33339), (99, 33366), (110, 33393), (116, 33426), (128, 33513), (135, 33543), (145, 33603), (154, 33663), (161, 33693), (169, 33753), (171, 33771), (173, 33783), (177, 33810), (183, 33843), (187, 33867), (188, 33870),

Gene: Traft412_7 Start: 2926, Stop: 3996, Start Num: 41

Candidate Starts for Traft412_7:

(Start: 41 @2926 has 214 MA's), (47, 2989), (49, 3001), (56, 3058), (68, 3136), (89, 3274), (108, 3394), (124, 3514), (126, 3526), (169, 3817),

Gene: Treddle_5 Start: 2143, Stop: 3240, Start Num: 35

Candidate Starts for Treddle_5:

(Start: 35 @2143 has 3 MA's), (Start: 41 @2170 has 214 MA's), (47, 2233), (49, 2245), (56, 2302), (68, 2380), (89, 2518), (108, 2638), (124, 2758), (126, 2770), (153, 2935), (169, 3061),

Gene: Tripl3t_6 Start: 2942, Stop: 4012, Start Num: 41

Candidate Starts for Tripl3t_6:

(Start: 41 @2942 has 214 MA's), (47, 3005), (49, 3017), (56, 3074), (68, 3152), (89, 3290), (108, 3410), (124, 3530), (126, 3542), (165, 3800), (169, 3833),

Gene: Trouble_5 Start: 2579, Stop: 3649, Start Num: 41

Candidate Starts for Trouble_5:

(Start: 41 @2579 has 214 MA's), (47, 2642), (49, 2654), (56, 2711), (68, 2789), (89, 2927), (108, 3047), (124, 3167), (126, 3179), (153, 3344), (165, 3437), (169, 3470),

Gene: Turj99_4 Start: 2014, Stop: 3084, Start Num: 41

Candidate Starts for Turj99_4:

(Start: 41 @2014 has 214 MA's), (47, 2077), (49, 2089), (56, 2146), (68, 2224), (89, 2362), (108, 2482), (124, 2602), (126, 2614), (153, 2779), (169, 2905),

Gene: TwoPeat_6 Start: 2541, Stop: 3611, Start Num: 41

Candidate Starts for TwoPeat_6:

(Start: 41 @2541 has 214 MA's), (47, 2604), (49, 2616), (56, 2673), (91, 2898), (108, 3009), (124, 3129), (126, 3141), (145, 3246), (169, 3432),

Gene: U2_4 Start: 1882, Stop: 2952, Start Num: 41

Candidate Starts for U2_4:

(Start: 35 @1855 has 3 MA's), (Start: 41 @1882 has 214 MA's), (47, 1945), (49, 1957), (56, 2014), (68, 2092), (91, 2239), (108, 2350), (124, 2470), (126, 2482), (153, 2647), (169, 2773),

Gene: Violet_4 Start: 1827, Stop: 2897, Start Num: 41

Candidate Starts for Violet_4:

(Start: 41 @1827 has 214 MA's), (47, 1890), (49, 1902), (56, 1959), (68, 2037), (89, 2175), (108, 2295), (124, 2415), (126, 2427), (153, 2592), (169, 2718),

Gene: Waits_7 Start: 3413, Stop: 4405, Start Num: 48

Candidate Starts for Waits_7:

(22, 3200), (30, 3245), (38, 3326), (Start: 48 @3413 has 23 MA's), (78, 3599), (96, 3719), (97, 3722), (165, 4178), (171, 4235), (181, 4301), (186, 4331), (198, 4394),

Gene: Warrior24_7 Start: 3417, Stop: 4409, Start Num: 48

Candidate Starts for Warrior24_7:

(22, 3204), (30, 3249), (38, 3330), (Start: 48 @3417 has 23 MA's), (78, 3603), (85, 3651), (101, 3759), (120, 3885), (165, 4182), (171, 4239), (181, 4305), (186, 4335), (198, 4398),

Gene: WaterT_30 Start: 14624, Stop: 15532, Start Num: 53

Candidate Starts for WaterT_30:

(Start: 53 @14624 has 5 MA's), (58, 14657), (107, 14951), (125, 15074), (142, 15158), (147, 15206), (159, 15275), (199, 15527),

Gene: Watermelon_7 Start: 3121, Stop: 4191, Start Num: 41

Candidate Starts for Watermelon_7:

(Start: 41 @3121 has 214 MA's), (47, 3184), (49, 3196), (56, 3253), (68, 3331), (89, 3469), (108, 3589), (124, 3709), (126, 3721), (153, 3886), (169, 4012),

Gene: Weasels2_73 Start: 32821, Stop: 34239, Start Num: 12

Candidate Starts for Weasels2_73:

(Start: 12 @32821 has 4 MA's), (43, 33031), (90, 33409), (106, 33517), (127, 33685), (165, 33967), (170, 34018),

Gene: Weasels2_74 Start: 34258, Stop: 35649, Start Num: 12

Candidate Starts for Weasels2_74:

(Start: 12 @34258 has 4 MA's), (24, 34333), (63, 34654), (82, 34759), (102, 34918), (115, 35011), (146, 35215), (160, 35350), (170, 35437), (177, 35497),

Gene: Wheeler_5 Start: 2287, Stop: 3357, Start Num: 41

Candidate Starts for Wheeler_5:

(Start: 41 @2287 has 214 MA's), (47, 2350), (49, 2362), (56, 2419), (68, 2497), (89, 2635), (108, 2755), (126, 2887), (153, 3052), (165, 3145), (169, 3178),

Gene: Whitspit_5 Start: 2338, Stop: 3408, Start Num: 41

Candidate Starts for Whitspit_5:

(Start: 41 @2338 has 214 MA's), (47, 2401), (49, 2413), (56, 2470), (68, 2548), (91, 2695), (108, 2806), (124, 2926), (126, 2938), (169, 3229),

Gene: Wilkins_5 Start: 2028, Stop: 3098, Start Num: 41

Candidate Starts for Wilkins_5:

(Start: 41 @2028 has 214 MA's), (47, 2091), (49, 2103), (56, 2160), (68, 2238), (89, 2376), (108, 2496), (124, 2616), (126, 2628), (153, 2793), (165, 2886), (169, 2919),

Gene: Wooper_38 Start: 33093, Stop: 33935, Start Num: 57

Candidate Starts for Wooper_38:

(Start: 57 @33093 has 21 MA's), (66, 33153), (83, 33264), (95, 33345), (99, 33372), (110, 33399), (116, 33432), (128, 33519), (135, 33549), (145, 33609), (154, 33669), (161, 33699), (169, 33759), (171, 33777), (173, 33789), (177, 33816), (183, 33849), (187, 33873), (188, 33876),

Gene: Yago84_36 Start: 32078, Stop: 32893, Start Num: 57

Candidate Starts for Yago84_36:

(34, 31901), (Start: 41 @31937 has 214 MA's), (Start: 57 @32078 has 21 MA's), (69, 32159), (70, 32162), (73, 32174), (117, 32432), (122, 32474), (128, 32489), (135, 32519), (145, 32558), (152, 32603), (161, 32645), (165, 32675), (169, 32705), (173, 32735), (177, 32762), (197, 32873), (201, 32882), (202, 32885),

Gene: Yeshua_38 Start: 33070, Stop: 33912, Start Num: 57

Candidate Starts for Yeshua_38:

(Start: 57 @33070 has 21 MA's), (66, 33130), (83, 33241), (95, 33322), (99, 33349), (110, 33376), (116, 33409), (128, 33496), (135, 33526), (145, 33586), (154, 33646), (161, 33676), (169, 33736), (171, 33754), (173, 33766), (177, 33793), (183, 33826), (187, 33850), (188, 33853),

Gene: Zeeculate_4 Start: 2003, Stop: 3073, Start Num: 41

Candidate Starts for Zeeculate_4:

(Start: 41 @2003 has 214 MA's), (47, 2066), (49, 2078), (56, 2135), (68, 2213), (91, 2360), (108, 2471), (124, 2591), (126, 2603), (139, 2666), (169, 2894),

Gene: Zephyr_5 Start: 2134, Stop: 3204, Start Num: 41

Candidate Starts for Zephyr_5:

(Start: 41 @2134 has 214 MA's), (47, 2197), (49, 2209), (56, 2266), (68, 2344), (91, 2491), (108, 2602), (124, 2722), (126, 2734), (145, 2839), (169, 3025),

Gene: Zeuska_4 Start: 2058, Stop: 3128, Start Num: 41

Candidate Starts for Zeuska_4:

(Start: 41 @2058 has 214 MA's), (47, 2121), (49, 2133), (56, 2190), (68, 2268), (89, 2406), (93, 2421), (108, 2526), (124, 2646), (126, 2658), (153, 2823), (165, 2916), (169, 2949),