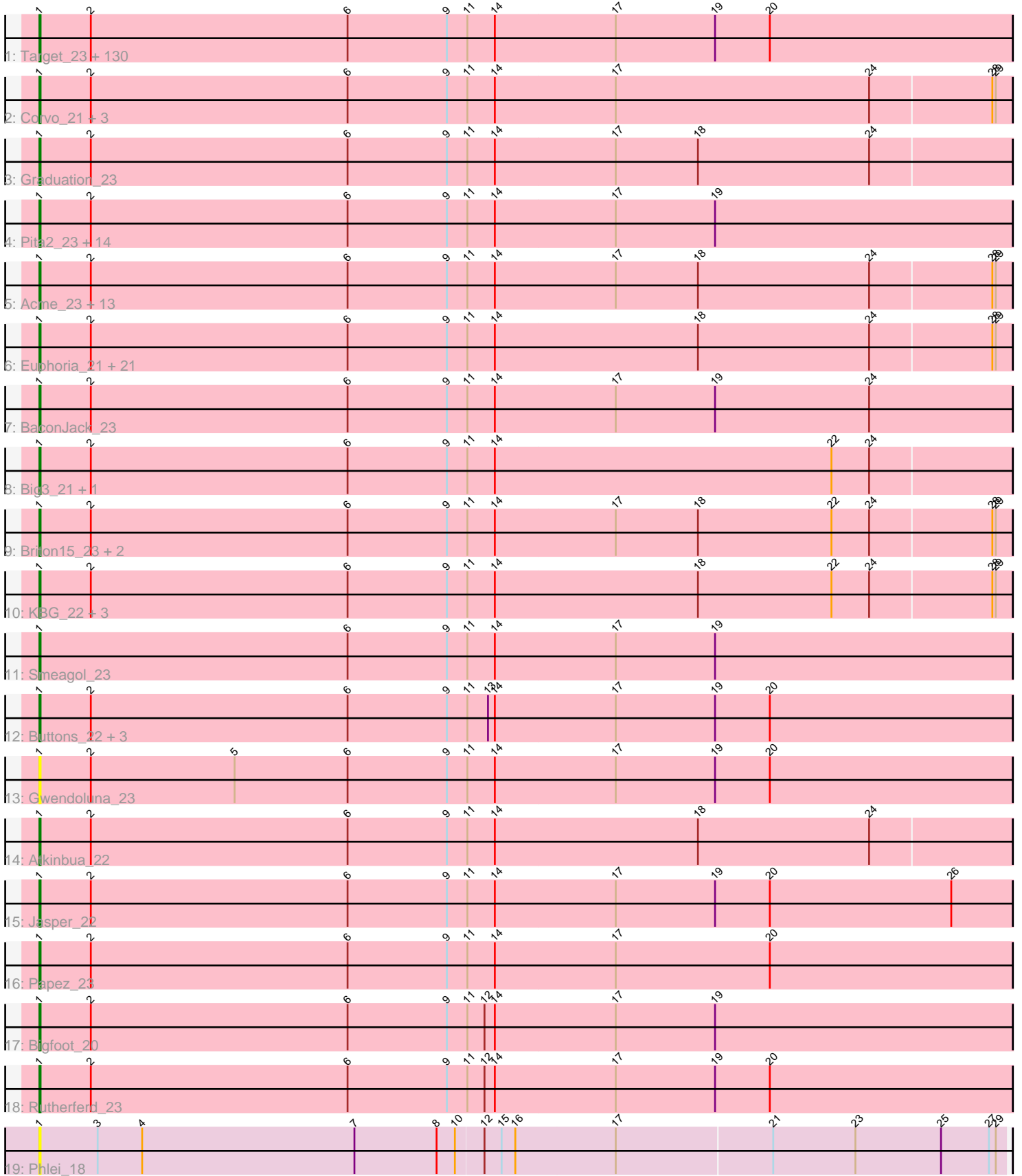


Pham 154477



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 154477 Report

This analysis was run 04/12/24 on database version 558.

Pham number 154477 has 209 members, 16 are drafts.

Phages represented in each track:

- Track 1 : Target_23, AFIS_21, Marsha_21, StrongArm_20, SpikeBT_23, HermioneGrange_21, Hermia_22, Eyeball_21, Bexan_20, Perseus_22, Mule_21, Agaliana_21, Jerm2_22, QTRLifeCrisis_24, Jorgensen_21, Beatrix_20, Mryolo_20, Nhonho_21, Norz_23, Ruotula_20, Carlyle_23, Lopton_22, MPlant7149_20, BluSpix_21, Crispicous1_20, Zeuska_22, SwissCheese_21, BigMau_23, Ringer_21, A6_19, Watermelon_23, StewieG_20, Dulcie_20, Marge_22, Teodoridan_19, IgnatiusPatJac_20, Chanagan_20, Forsytheast_20, Paphu_20, BK1_19, Froghopper_22, Bob3_20, ConceptII_22, RidgeCB_21, ILeeKay_23, Aeneas_23, TwoPeat_21, Molly_22, Bruns_20, Greg_23, PattyP_23, Petruccio_21, Alvin_22, Fushigi_22, JackSparrow_22, TheloniousMonk_23, Lamina13_21, Oogway_20, Dexes_22, Violet_20, Seanderson_22, Zephyr_21, Ashballer_20, HarryOW_22, CactusRose_20, Museum_23, Ohno789_21, Gyzlar_23, JC27_23, Moose_20, DrFeelGood_20, Rohr_22, Sumter_20, Applejack_21, Bones_21, Sunshine924_20, Rubeus_22, Burton_22, Fajezeel_23, Tripl3t_22, Pelly_22, Wilkins_21, Adahisdi_22, Francis47_21, Arlo_20, Licorice_23, Rufus_22, Doom_22, Topgun_21, Magnar_21, Sagefire_22, Smairt_22, Kenmech_24, Abbyshoes_22, Bircsak_21, Solon_21, BPBiabs31_22, KyMonks1A_23, Traft412_23, Dussy_22, Maroc7_20, Sibs6_23, STLscum_22, Naira_22, Cueyliss_21, Fenn_22, Kanely_22, Wheeler_21, Rhynn_21, Nerujay_22, Gompeii16_21, Slagathor_22, Abrogate_220, Squee_22, Zeeculate_20, Petp2012_23, HanShotFirst_21, Snazzy_19, Blue_21, NEHalo_21, Homines_21, Lesedi_20, Marcell_21, PhrostyMug_21, BigPaolini_22, BillKnuckles_22, Kugel_22, Trouble_21, Pippin_23, Altman_23, PinkPlastic_20
- Track 2 : Corvo_21, MetalQZJ_21, MaryBeth_21, PacerPaul_21
- Track 3 : Graduation_23
- Track 4 : Pita2_23, Alsfro_25, Kykar_19, Magnito_20, DD5_22, Bxb1_19, Turj99_20, Peterson_24, JuliaChild_23, Lockley_21, Swole_23, Fascinus_20, PSullivan_22, Tote_23, LilBib_22
- Track 5 : Acme_23, Manatee_22, Scowl_22, PherrisBueller_22, Makemake_21, Thor_21, Killigrew_19, SarFire_21, Gandalf20_22, Ciao_21, Barriga_21, Dreamboat_22, Bethlehem_21, Paraselene_20
- Track 6 : Euphoria_21, Michley_21, KSSJEB_21, GageAP_23, Pepe_22, Tasp14_22, Seabiscuit_23, Parliament_20, Arcanine_22, Pari_22, Dynamix_22, McGuire_22, U2_21, DreamCatcher_24, BeesKnees_22, Hope4ever_21, Niza_23, Pinto_23, Anglerfish_22, Rajelicia_21, SkiPole_23, Switzer_22
- Track 7 : BaconJack_23
- Track 8 : Big3_21, MrGordo_21
- Track 9 : Briton15_23, PascalRango_20, GrecoEtereo_22

- Track 10 : KBG_22, Espresso_21, Ichabod_22, Ajay_21
- Track 11 : Smeagol_23
- Track 12 : Buttons_22, Monet_23, Treddle_23, Edtherson_22
- Track 13 : Gwendoluna_23
- Track 14 : Atkinbua_22
- Track 15 : Jasper_22
- Track 16 : Papez_23
- Track 17 : Bigfoot_20
- Track 18 : Rutherford_23
- Track 19 : Phlei_18

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

The start number called the most often in the published annotations is 1, it was called in 193 of the 193 non-draft genes in the pham.

Genes that call this "Most Annotated" start:

- A6_19, AFIS_21, Abbyshoes_22, Abrogate_220, Acme_23, Adahisdi_22, Aeneas_23, Agaliana_21, Ajay_21, Alsfro_25, Altman_23, Alvin_22, Anglerfish_22, Applejack_21, Arcanine_22, Arlo_20, Ashballer_20, Atkinbua_22, BK1_19, BPBiebs31_22, BaconJack_23, Barriga_21, Beatrix_20, BeesKnees_22, Bethlehem_21, Bexan_20, Big3_21, BigMau_23, BigPaolini_22, Bigfoot_20, BillKnuckles_22, Bircsak_21, BluSpix_21, Blue_21, Bob3_20, Bones_21, Briton15_23, Bruns_20, Burton_22, Buttons_22, Bxb1_19, CactusRose_20, Carlyle_23, Chanagan_20, Ciao_21, ConceptII_22, Corvo_21, Crispicous1_20, Cueyllyss_21, DD5_22, Dexes_22, Doom_22, DrFeelGood_20, DreamCatcher_24, Dreamboat_22, Dulcie_20, Dussy_22, Dynamix_22, Edtherson_22, Espresso_21, Euphoria_21, Eyeball_21, Fajezeel_23, Fascinus_20, Fenn_22, Forsytheast_20, Francis47_21, Froghopper_22, Fushigi_22, GageAP_23, Gandalf20_22, Gompeii16_21, Graduation_23, GrecoEtereo_22, Greg_23, Gwendoluna_23, Gyzlar_23, HanShotFirst_21, HarryOW_22, Hermia_22, HermioneGrange_21, Homines_21, Hope4ever_21, ILeeKay_23, Ichabod_22, IgnatiusPatJac_20, JC27_23, JackSparrow_22, Jasper_22, Jerm2_22, Jorgensen_21, JuliaChild_23, KBG_22, KSSJEB_21, Kanely_22, Kenmech_24, Killigrew_19, Kugel_22, KyMonks1A_23, Kykar_19, Lamina13_21, Lesedi_20, Licorice_23, LilBib_22, Lockley_21, Lopton_22, MPlant7149_20, Magnar_21, Magnito_20, Makemake_21, Manatee_22, Marcell_21, Marge_22, Maroc7_20, Marsha_21, MaryBeth_21, McGuire_22, MetalQZJ_21, Michley_21, Molly_22, Monet_23, Moose_20, MrGordo_21, Mryolo_20, Mule_21, Museum_23, NEHalo_21, Naira_22, Nerujay_22, Nhonho_21, Niza_23, Norz_23, Ohno789_21, Oogway_20, PSullivan_22, PacerPaul_21, Papez_23, Paphu_20, Paraselene_20, Pari_22, Parliament_20, PascalRango_20, PattyP_23, Pelly_22, Pepe_22, Perseus_22, Peterson_24, Petp2012_23, Petruccio_21, PherrisBueller_22, Phlei_18, PhrostyMug_21, PinkPlastic_20, Pinto_23, Pippin_23, Pita2_23, QTRlifeCrisis_24, Rajelicia_21, Rhynn_21, RidgeCB_21, Ringer_21, Rohr_22, Rubeus_22, Rufus_22, Ruotula_20, Rutherford_23, STLscum_22, Sagefire_22, SarFire_21, Scowl_22, Seabiscuit_23, Seanderson_22, Sibs6_23, SkiPole_23, Slagathor_22, Smairt_22, Smeagol_23, Snazzy_19, Solon_21, SpikeBT_23, Squee_22, StewieG_20, StrongArm_20, Sumter_20, Sunshine924_20, SwissCheese_21, Switzer_22, Swole_23, Target_23, Tasp14_22, Teodoridan_19, TheloniousMonk_23, Thor_21, Topgun_21, Tote_23,

Traft412_23, Treddle_23, Tripl3t_22, Trouble_21, Turj99_20, TwoPeat_21, U2_21, Violet_20, Watermelon_23, Wheeler_21, Wilkins_21, Zeeculate_20, Zephyr_21, Zeuska_22,

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

-

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

-

Summary by start number:

Start 1:

- Found in 209 of 209 (100.0%) of genes in pham
- Manual Annotations of this start: 193 of 193
- Called 100.0% of time when present
- Phage (with cluster) where this start called: A6_19 (A1), AFIS_21 (A1), Abbyshoes_22 (A1), Abrogate_220 (A1), Acme_23 (A1), Adahisdi_22 (A1), Aeneas_23 (A1), Agaliana_21 (A1), Ajay_21 (A1), Alsfro_25 (A1), Altman_23 (A1), Alvin_22 (A1), Anglerfish_22 (A1), Applejack_21 (A1), Arcanine_22 (A1), Arlo_20 (A1), Ashballer_20 (A1), Atkinbua_22 (A1), BK1_19 (A1), BPBiebs31_22 (A1), BaconJack_23 (A1), Barriga_21 (A1), Beatrix_20 (A1), BeesKnees_22 (A1), Bethlehem_21 (A1), Bexan_20 (A1), Big3_21 (A1), BigMau_23 (A1), BigPaolini_22 (A1), Bigfoot_20 (A1), BillKnuckles_22 (A1), Bircsak_21 (A1), BluSpix_21 (A1), Blue_21 (A1), Bob3_20 (A1), Bones_21 (A1), Briton15_23 (A1), Bruns_20 (A1), Burton_22 (A1), Buttons_22 (A1), Bxb1_19 (A1), CactusRose_20 (A1), Carlyle_23 (A1), Chanagan_20 (A1), Ciao_21 (A1), Conceptll_22 (A1), Corvo_21 (A1), Crispicious1_20 (A1), Cueyllyss_21 (A1), DD5_22 (A1), Dexes_22 (A1), Doom_22 (A1), DrFeelGood_20 (A1), DreamCatcher_24 (A1), Dreamboat_22 (A1), Dulcie_20 (A1), Dussy_22 (A1), Dynamix_22 (A1), Edtherson_22 (A1), Espresso_21 (A1), Euphoria_21 (A1), Eyeball_21 (A1), Fajezeel_23 (A1), Fascinus_20 (A1), Fenn_22 (A1), Forsytheast_20 (A1), Francis47_21 (A1), Froghopper_22 (A1), Fushigi_22 (A1), GageAP_23 (A1), Gandalf20_22 (A1), Gompeii16_21 (A1), Graduation_23 (A1), GrecoEtereo_22 (A1), Greg_23 (A1), Gwendoluna_23 (A1), Gyzlar_23 (A1), HanShotFirst_21 (A1), HarryOW_22 (A1), Hermia_22 (A1), HermioneGrange_21 (A1), Homines_21 (A1), Hope4ever_21 (A1), ILeeKay_23 (A1), Ichabod_22 (A1), IgnatiusPatJac_20 (A1), JC27_23 (A1), JackSparrow_22 (A1), Jasper_22 (A1), Jerm2_22 (A1), Jorgensen_21 (A1), JuliaChild_23 (A1), KBG_22 (A1), KSSJEB_21 (A1), Kanely_22 (A1), Kenmech_24 (A1), Killigrew_19 (A1), Kugel_22 (A1), KyMonks1A_23 (A1), Kykar_19 (A1), Lamina13_21 (A1), Lesedi_20 (A1), Licorice_23 (A1), LilBib_22 (A1), Lockley_21 (A1), Lopton_22 (A1), MPlant7149_20 (A1), Magnar_21 (A1), Magnito_20 (A1), Makemake_21 (A1), Manatee_22 (A1), Marcell_21 (A1), Marge_22 (A1), Maroc7_20 (A1), Marsha_21 (A1), MaryBeth_21 (A1), McGuire_22 (A1), MetalQZJ_21 (A1), Michley_21 (A1), Molly_22 (A1), Monet_23 (A1), Moose_20 (A1), MrGordo_21 (A1), Mryolo_20 (A1), Mule_21 (A1), Museum_23 (A1), NEHalo_21 (A1), Naira_22 (A1), Nerujay_22 (A1), Nhonho_21 (A1), Niza_23 (A1), Norz_23 (A1), Ohno789_21 (A1), Oogway_20 (A1), PSullivan_22 (A1), PacerPaul_21 (A1), Papez_23 (A1), Paphu_20 (A1), Paraselene_20 (A1), Pari_22 (A1), Parliament_20 (A1), PascalRango_20 (A1), PattyP_23 (A1), Pelly_22 (A1), Pepe_22 (A1), Perseus_22 (A1), Peterson_24 (A1), Petp2012_23 (A1), Petruccio_21 (A1), PherrisBueller_22 (A1), Phlei_18 (A13), PhrostyMug_21 (A1), PinkPlastic_20 (A1), Pinto_23 (A1), Pippin_23 (A1), Pita2_23 (A1), QTRlifeCrisis_24 (A1), Rajelicia_21 (A1), Rhynn_21 (A1), RidgeCB_21 (A1), Ringer_21 (A1), Rohr_22

(A1), Rubeus_22 (A1), Rufus_22 (A1), Ruotula_20 (A1), Rutherford_23 (A1), STLscum_22 (A1), Sagefire_22 (A1), SarFire_21 (A1), Scowl_22 (A1), Seabiscuit_23 (A1), Seanderson_22 (A1), Sibs6_23 (A1), SkiPole_23 (A1), Slagathor_22 (A1), Smairt_22 (A1), Smeagol_23 (A1), Snazzy_19 (A1), Solon_21 (A1), SpikeBT_23 (A1), Squee_22 (A1), StewieG_20 (A1), StrongArm_20 (A1), Sumter_20 (A1), Sunshine924_20 (A1), SwissCheese_21 (A1), Switzer_22 (A1), Swole_23 (A1), Target_23 (A1), Tasp14_22 (A1), Teodoridan_19 (A1), TheloniousMonk_23 (A1), Thor_21 (A1), Topgun_21 (A1), Tote_23 (A1), Traft412_23 (A1), Treddle_23 (A1), Tripl3t_22 (A1), Trouble_21 (A1), Turj99_20 (A1), TwoPeat_21 (A1), U2_21 (A1), Violet_20 (A1), Watermelon_23 (A1), Wheeler_21 (A1), Wilkins_21 (A1), Zeeculate_20 (A1), Zephyr_21 (A1), Zeuska_22 (A1),

Summary by clusters:

There are 2 clusters represented in this pham: A1, A13,

Info for manual annotations of cluster A1:

•Start number 1 was manually annotated 193 times for cluster A1.

Gene Information:

Gene: A6_19 Start: 14147, Stop: 14998, Start Num: 1

Candidate Starts for A6_19:

(Start: 1 @14147 has 193 MA's), (2, 14192), (6, 14417), (9, 14504), (11, 14522), (14, 14546), (17, 14651), (19, 14738), (20, 14786),

Gene: AFIS_21 Start: 14485, Stop: 15336, Start Num: 1

Candidate Starts for AFIS_21:

(Start: 1 @14485 has 193 MA's), (2, 14530), (6, 14755), (9, 14842), (11, 14860), (14, 14884), (17, 14989), (19, 15076), (20, 15124),

Gene: Abbyshoes_22 Start: 14871, Stop: 15722, Start Num: 1

Candidate Starts for Abbyshoes_22:

(Start: 1 @14871 has 193 MA's), (2, 14916), (6, 15141), (9, 15228), (11, 15246), (14, 15270), (17, 15375), (19, 15462), (20, 15510),

Gene: Abrogate_220 Start: 15243, Stop: 16094, Start Num: 1

Candidate Starts for Abrogate_220:

(Start: 1 @15243 has 193 MA's), (2, 15288), (6, 15513), (9, 15600), (11, 15618), (14, 15642), (17, 15747), (19, 15834), (20, 15882),

Gene: Acme_23 Start: 14921, Stop: 15769, Start Num: 1

Candidate Starts for Acme_23:

(Start: 1 @14921 has 193 MA's), (2, 14966), (6, 15191), (9, 15278), (11, 15296), (14, 15320), (17, 15425), (18, 15497), (24, 15647), (28, 15752), (29, 15755),

Gene: Adahisdi_22 Start: 14803, Stop: 15654, Start Num: 1

Candidate Starts for Adahisdi_22:

(Start: 1 @14803 has 193 MA's), (2, 14848), (6, 15073), (9, 15160), (11, 15178), (14, 15202), (17, 15307), (19, 15394), (20, 15442),

Gene: Aeneas_23 Start: 14911, Stop: 15762, Start Num: 1

Candidate Starts for Aeneas_23:

(Start: 1 @14911 has 193 MA's), (2, 14956), (6, 15181), (9, 15268), (11, 15286), (14, 15310), (17, 15415), (19, 15502), (20, 15550),

Gene: Agaliana_21 Start: 14863, Stop: 15714, Start Num: 1

Candidate Starts for Agaliana_21:

(Start: 1 @14863 has 193 MA's), (2, 14908), (6, 15133), (9, 15220), (11, 15238), (14, 15262), (17, 15367), (19, 15454), (20, 15502),

Gene: Ajay_21 Start: 14635, Stop: 15483, Start Num: 1

Candidate Starts for Ajay_21:

(Start: 1 @14635 has 193 MA's), (2, 14680), (6, 14905), (9, 14992), (11, 15010), (14, 15034), (18, 15211), (22, 15328), (24, 15361), (28, 15466), (29, 15469),

Gene: Alsfro_25 Start: 15355, Stop: 16206, Start Num: 1

Candidate Starts for Alsfro_25:

(Start: 1 @15355 has 193 MA's), (2, 15400), (6, 15625), (9, 15712), (11, 15730), (14, 15754), (17, 15859), (19, 15946),

Gene: Altman_23 Start: 15400, Stop: 16251, Start Num: 1

Candidate Starts for Altman_23:

(Start: 1 @15400 has 193 MA's), (2, 15445), (6, 15670), (9, 15757), (11, 15775), (14, 15799), (17, 15904), (19, 15991), (20, 16039),

Gene: Alvin_22 Start: 15121, Stop: 15972, Start Num: 1

Candidate Starts for Alvin_22:

(Start: 1 @15121 has 193 MA's), (2, 15166), (6, 15391), (9, 15478), (11, 15496), (14, 15520), (17, 15625), (19, 15712), (20, 15760),

Gene: Anglerfish_22 Start: 15783, Stop: 16631, Start Num: 1

Candidate Starts for Anglerfish_22:

(Start: 1 @15783 has 193 MA's), (2, 15828), (6, 16053), (9, 16140), (11, 16158), (14, 16182), (18, 16359), (24, 16509), (28, 16614), (29, 16617),

Gene: Applejack_21 Start: 14560, Stop: 15411, Start Num: 1

Candidate Starts for Applejack_21:

(Start: 1 @14560 has 193 MA's), (2, 14605), (6, 14830), (9, 14917), (11, 14935), (14, 14959), (17, 15064), (19, 15151), (20, 15199),

Gene: Arcanine_22 Start: 14802, Stop: 15650, Start Num: 1

Candidate Starts for Arcanine_22:

(Start: 1 @14802 has 193 MA's), (2, 14847), (6, 15072), (9, 15159), (11, 15177), (14, 15201), (18, 15378), (24, 15528), (28, 15633), (29, 15636),

Gene: Arlo_20 Start: 14181, Stop: 15032, Start Num: 1

Candidate Starts for Arlo_20:

(Start: 1 @14181 has 193 MA's), (2, 14226), (6, 14451), (9, 14538), (11, 14556), (14, 14580), (17, 14685), (19, 14772), (20, 14820),

Gene: Ashballe_20 Start: 14564, Stop: 15415, Start Num: 1

Candidate Starts for Ashballe_20:

(Start: 1 @14564 has 193 MA's), (2, 14609), (6, 14834), (9, 14921), (11, 14939), (14, 14963), (17, 15068), (19, 15155), (20, 15203),

Gene: Atkinbua_22 Start: 14535, Stop: 15383, Start Num: 1

Candidate Starts for Atkinbua_22:

(Start: 1 @14535 has 193 MA's), (2, 14580), (6, 14805), (9, 14892), (11, 14910), (14, 14934), (18, 15111), (24, 15261),

Gene: BK1_19 Start: 14147, Stop: 14998, Start Num: 1

Candidate Starts for BK1_19:

(Start: 1 @14147 has 193 MA's), (2, 14192), (6, 14417), (9, 14504), (11, 14522), (14, 14546), (17, 14651), (19, 14738), (20, 14786),

Gene: BPBiebs31_22 Start: 14827, Stop: 15678, Start Num: 1

Candidate Starts for BPBiebs31_22:

(Start: 1 @14827 has 193 MA's), (2, 14872), (6, 15097), (9, 15184), (11, 15202), (14, 15226), (17, 15331), (19, 15418), (20, 15466),

Gene: BaconJack_23 Start: 14902, Stop: 15753, Start Num: 1

Candidate Starts for BaconJack_23:

(Start: 1 @14902 has 193 MA's), (2, 14947), (6, 15172), (9, 15259), (11, 15277), (14, 15301), (17, 15406), (19, 15493), (24, 15628),

Gene: Barriga_21 Start: 14430, Stop: 15278, Start Num: 1

Candidate Starts for Barriga_21:

(Start: 1 @14430 has 193 MA's), (2, 14475), (6, 14700), (9, 14787), (11, 14805), (14, 14829), (17, 14934), (18, 15006), (24, 15156), (28, 15261), (29, 15264),

Gene: Beatrix_20 Start: 15279, Stop: 16130, Start Num: 1

Candidate Starts for Beatrix_20:

(Start: 1 @15279 has 193 MA's), (2, 15324), (6, 15549), (9, 15636), (11, 15654), (14, 15678), (17, 15783), (19, 15870), (20, 15918),

Gene: BeesKnees_22 Start: 14620, Stop: 15468, Start Num: 1

Candidate Starts for BeesKnees_22:

(Start: 1 @14620 has 193 MA's), (2, 14665), (6, 14890), (9, 14977), (11, 14995), (14, 15019), (18, 15196), (24, 15346), (28, 15451), (29, 15454),

Gene: Bethlehem_21 Start: 15857, Stop: 16705, Start Num: 1

Candidate Starts for Bethlehem_21:

(Start: 1 @15857 has 193 MA's), (2, 15902), (6, 16127), (9, 16214), (11, 16232), (14, 16256), (17, 16361), (18, 16433), (24, 16583), (28, 16688), (29, 16691),

Gene: Bexan_20 Start: 15565, Stop: 16416, Start Num: 1

Candidate Starts for Bexan_20:

(Start: 1 @15565 has 193 MA's), (2, 15610), (6, 15835), (9, 15922), (11, 15940), (14, 15964), (17, 16069), (19, 16156), (20, 16204),

Gene: Big3_21 Start: 15211, Stop: 16059, Start Num: 1

Candidate Starts for Big3_21:

(Start: 1 @15211 has 193 MA's), (2, 15256), (6, 15481), (9, 15568), (11, 15586), (14, 15610), (22, 15904), (24, 15937),

Gene: BigMau_23 Start: 14788, Stop: 15639, Start Num: 1

Candidate Starts for BigMau_23:

(Start: 1 @14788 has 193 MA's), (2, 14833), (6, 15058), (9, 15145), (11, 15163), (14, 15187), (17, 15292), (19, 15379), (20, 15427),

Gene: BigPaolini_22 Start: 15214, Stop: 16065, Start Num: 1

Candidate Starts for BigPaolini_22:

(Start: 1 @15214 has 193 MA's), (2, 15259), (6, 15484), (9, 15571), (11, 15589), (14, 15613), (17, 15718), (19, 15805), (20, 15853),

Gene: Bigfoot_20 Start: 14316, Stop: 15167, Start Num: 1

Candidate Starts for Bigfoot_20:

(Start: 1 @14316 has 193 MA's), (2, 14361), (6, 14586), (9, 14673), (11, 14691), (12, 14706), (14, 14715), (17, 14820), (19, 14907),

Gene: BillKnuckles_22 Start: 15280, Stop: 16131, Start Num: 1

Candidate Starts for BillKnuckles_22:

(Start: 1 @15280 has 193 MA's), (2, 15325), (6, 15550), (9, 15637), (11, 15655), (14, 15679), (17, 15784), (19, 15871), (20, 15919),

Gene: Bircsak_21 Start: 15074, Stop: 15925, Start Num: 1

Candidate Starts for Bircsak_21:

(Start: 1 @15074 has 193 MA's), (2, 15119), (6, 15344), (9, 15431), (11, 15449), (14, 15473), (17, 15578), (19, 15665), (20, 15713),

Gene: BluSpix_21 Start: 14576, Stop: 15427, Start Num: 1

Candidate Starts for BluSpix_21:

(Start: 1 @14576 has 193 MA's), (2, 14621), (6, 14846), (9, 14933), (11, 14951), (14, 14975), (17, 15080), (19, 15167), (20, 15215),

Gene: Blue_21 Start: 14679, Stop: 15530, Start Num: 1

Candidate Starts for Blue_21:

(Start: 1 @14679 has 193 MA's), (2, 14724), (6, 14949), (9, 15036), (11, 15054), (14, 15078), (17, 15183), (19, 15270), (20, 15318),

Gene: Bob3_20 Start: 14128, Stop: 14979, Start Num: 1

Candidate Starts for Bob3_20:

(Start: 1 @14128 has 193 MA's), (2, 14173), (6, 14398), (9, 14485), (11, 14503), (14, 14527), (17, 14632), (19, 14719), (20, 14767),

Gene: Bones_21 Start: 14317, Stop: 15168, Start Num: 1

Candidate Starts for Bones_21:

(Start: 1 @14317 has 193 MA's), (2, 14362), (6, 14587), (9, 14674), (11, 14692), (14, 14716), (17, 14821), (19, 14908), (20, 14956),

Gene: Briton15_23 Start: 14877, Stop: 15725, Start Num: 1

Candidate Starts for Briton15_23:

(Start: 1 @14877 has 193 MA's), (2, 14922), (6, 15147), (9, 15234), (11, 15252), (14, 15276), (17, 15381), (18, 15453), (22, 15570), (24, 15603), (28, 15708), (29, 15711),

Gene: Bruns_20 Start: 14500, Stop: 15351, Start Num: 1

Candidate Starts for Bruns_20:

(Start: 1 @14500 has 193 MA's), (2, 14545), (6, 14770), (9, 14857), (11, 14875), (14, 14899), (17, 15004), (19, 15091), (20, 15139),

Gene: Burton_22 Start: 14698, Stop: 15549, Start Num: 1

Candidate Starts for Burton_22:

(Start: 1 @14698 has 193 MA's), (2, 14743), (6, 14968), (9, 15055), (11, 15073), (14, 15097), (17, 15202), (19, 15289), (20, 15337),

Gene: Buttons_22 Start: 15062, Stop: 15913, Start Num: 1

Candidate Starts for Buttons_22:

(Start: 1 @15062 has 193 MA's), (2, 15107), (6, 15332), (9, 15419), (11, 15437), (13, 15455), (14, 15461), (17, 15566), (19, 15653), (20, 15701),

Gene: Bxb1_19 Start: 14649, Stop: 15500, Start Num: 1

Candidate Starts for Bxb1_19:

(Start: 1 @14649 has 193 MA's), (2, 14694), (6, 14919), (9, 15006), (11, 15024), (14, 15048), (17, 15153), (19, 15240),

Gene: CactusRose_20 Start: 14315, Stop: 15166, Start Num: 1

Candidate Starts for CactusRose_20:

(Start: 1 @14315 has 193 MA's), (2, 14360), (6, 14585), (9, 14672), (11, 14690), (14, 14714), (17, 14819), (19, 14906), (20, 14954),

Gene: Carlyle_23 Start: 15444, Stop: 16295, Start Num: 1

Candidate Starts for Carlyle_23:

(Start: 1 @15444 has 193 MA's), (2, 15489), (6, 15714), (9, 15801), (11, 15819), (14, 15843), (17, 15948), (19, 16035), (20, 16083),

Gene: Chanagan_20 Start: 14154, Stop: 15005, Start Num: 1

Candidate Starts for Chanagan_20:

(Start: 1 @14154 has 193 MA's), (2, 14199), (6, 14424), (9, 14511), (11, 14529), (14, 14553), (17, 14658), (19, 14745), (20, 14793),

Gene: Ciao_21 Start: 14541, Stop: 15389, Start Num: 1

Candidate Starts for Ciao_21:

(Start: 1 @14541 has 193 MA's), (2, 14586), (6, 14811), (9, 14898), (11, 14916), (14, 14940), (17, 15045), (18, 15117), (24, 15267), (28, 15372), (29, 15375),

Gene: ConceptII_22 Start: 15036, Stop: 15887, Start Num: 1

Candidate Starts for ConceptII_22:

(Start: 1 @15036 has 193 MA's), (2, 15081), (6, 15306), (9, 15393), (11, 15411), (14, 15435), (17, 15540), (19, 15627), (20, 15675),

Gene: Corvo_21 Start: 15033, Stop: 15881, Start Num: 1

Candidate Starts for Corvo_21:

(Start: 1 @15033 has 193 MA's), (2, 15078), (6, 15303), (9, 15390), (11, 15408), (14, 15432), (17, 15537), (24, 15759), (28, 15864), (29, 15867),

Gene: Crispicous1_20 Start: 14025, Stop: 14876, Start Num: 1

Candidate Starts for Crispicous1_20:

(Start: 1 @14025 has 193 MA's), (2, 14070), (6, 14295), (9, 14382), (11, 14400), (14, 14424), (17, 14529), (19, 14616), (20, 14664),

Gene: Cueylyss_21 Start: 14726, Stop: 15577, Start Num: 1

Candidate Starts for Cueylyss_21:

(Start: 1 @14726 has 193 MA's), (2, 14771), (6, 14996), (9, 15083), (11, 15101), (14, 15125), (17, 15230), (19, 15317), (20, 15365),

Gene: DD5_22 Start: 15275, Stop: 16126, Start Num: 1

Candidate Starts for DD5_22:

(Start: 1 @15275 has 193 MA's), (2, 15320), (6, 15545), (9, 15632), (11, 15650), (14, 15674), (17, 15779), (19, 15866),

Gene: Dexes_22 Start: 15241, Stop: 16092, Start Num: 1

Candidate Starts for Dexes_22:

(Start: 1 @15241 has 193 MA's), (2, 15286), (6, 15511), (9, 15598), (11, 15616), (14, 15640), (17, 15745), (19, 15832), (20, 15880),

Gene: Doom_22 Start: 15299, Stop: 16150, Start Num: 1

Candidate Starts for Doom_22:

(Start: 1 @15299 has 193 MA's), (2, 15344), (6, 15569), (9, 15656), (11, 15674), (14, 15698), (17, 15803), (19, 15890), (20, 15938),

Gene: DrFeelGood_20 Start: 14651, Stop: 15502, Start Num: 1

Candidate Starts for DrFeelGood_20:

(Start: 1 @14651 has 193 MA's), (2, 14696), (6, 14921), (9, 15008), (11, 15026), (14, 15050), (17, 15155), (19, 15242), (20, 15290),

Gene: DreamCatcher_24 Start: 16008, Stop: 16856, Start Num: 1

Candidate Starts for DreamCatcher_24:

(Start: 1 @16008 has 193 MA's), (2, 16053), (6, 16278), (9, 16365), (11, 16383), (14, 16407), (18, 16584), (24, 16734), (28, 16839), (29, 16842),

Gene: Dreamboat_22 Start: 14475, Stop: 15323, Start Num: 1

Candidate Starts for Dreamboat_22:

(Start: 1 @14475 has 193 MA's), (2, 14520), (6, 14745), (9, 14832), (11, 14850), (14, 14874), (17, 14979), (18, 15051), (24, 15201), (28, 15306), (29, 15309),

Gene: Dulcie_20 Start: 14217, Stop: 15068, Start Num: 1

Candidate Starts for Dulcie_20:

(Start: 1 @14217 has 193 MA's), (2, 14262), (6, 14487), (9, 14574), (11, 14592), (14, 14616), (17, 14721), (19, 14808), (20, 14856),

Gene: Dussy_22 Start: 14871, Stop: 15722, Start Num: 1

Candidate Starts for Dussy_22:

(Start: 1 @14871 has 193 MA's), (2, 14916), (6, 15141), (9, 15228), (11, 15246), (14, 15270), (17, 15375), (19, 15462), (20, 15510),

Gene: Dynamix_22 Start: 14627, Stop: 15475, Start Num: 1

Candidate Starts for Dynamix_22:

(Start: 1 @14627 has 193 MA's), (2, 14672), (6, 14897), (9, 14984), (11, 15002), (14, 15026), (18, 15203), (24, 15353), (28, 15458), (29, 15461),

Gene: Edtherson_22 Start: 15369, Stop: 16220, Start Num: 1

Candidate Starts for Edtherson_22:

(Start: 1 @15369 has 193 MA's), (2, 15414), (6, 15639), (9, 15726), (11, 15744), (13, 15762), (14, 15768), (17, 15873), (19, 15960), (20, 16008),

Gene: Espresso_21 Start: 14679, Stop: 15527, Start Num: 1

Candidate Starts for Espresso_21:

(Start: 1 @14679 has 193 MA's), (2, 14724), (6, 14949), (9, 15036), (11, 15054), (14, 15078), (18, 15255), (22, 15372), (24, 15405), (28, 15510), (29, 15513),

Gene: Euphoria_21 Start: 14571, Stop: 15419, Start Num: 1

Candidate Starts for Euphoria_21:

(Start: 1 @14571 has 193 MA's), (2, 14616), (6, 14841), (9, 14928), (11, 14946), (14, 14970), (18, 15147), (24, 15297), (28, 15402), (29, 15405),

Gene: Eyeball_21 Start: 14310, Stop: 15161, Start Num: 1

Candidate Starts for Eyeball_21:

(Start: 1 @14310 has 193 MA's), (2, 14355), (6, 14580), (9, 14667), (11, 14685), (14, 14709), (17, 14814), (19, 14901), (20, 14949),

Gene: Fajezeel_23 Start: 14890, Stop: 15741, Start Num: 1

Candidate Starts for Fajezeel_23:

(Start: 1 @14890 has 193 MA's), (2, 14935), (6, 15160), (9, 15247), (11, 15265), (14, 15289), (17, 15394), (19, 15481), (20, 15529),

Gene: Fascinus_20 Start: 14313, Stop: 15164, Start Num: 1

Candidate Starts for Fascinus_20:

(Start: 1 @14313 has 193 MA's), (2, 14358), (6, 14583), (9, 14670), (11, 14688), (14, 14712), (17, 14817), (19, 14904),

Gene: Fenn_22 Start: 16118, Stop: 16969, Start Num: 1

Candidate Starts for Fenn_22:

(Start: 1 @16118 has 193 MA's), (2, 16163), (6, 16388), (9, 16475), (11, 16493), (14, 16517), (17, 16622), (19, 16709), (20, 16757),

Gene: Forsytheast_20 Start: 14580, Stop: 15431, Start Num: 1

Candidate Starts for Forsytheast_20:

(Start: 1 @14580 has 193 MA's), (2, 14625), (6, 14850), (9, 14937), (11, 14955), (14, 14979), (17, 15084), (19, 15171), (20, 15219),

Gene: Francis47_21 Start: 15127, Stop: 15978, Start Num: 1

Candidate Starts for Francis47_21:

(Start: 1 @15127 has 193 MA's), (2, 15172), (6, 15397), (9, 15484), (11, 15502), (14, 15526), (17, 15631), (19, 15718), (20, 15766),

Gene: Froghopper_22 Start: 14543, Stop: 15394, Start Num: 1

Candidate Starts for Froghopper_22:

(Start: 1 @14543 has 193 MA's), (2, 14588), (6, 14813), (9, 14900), (11, 14918), (14, 14942), (17, 15047), (19, 15134), (20, 15182),

Gene: Fushigi_22 Start: 14990, Stop: 15841, Start Num: 1

Candidate Starts for Fushigi_22:

(Start: 1 @14990 has 193 MA's), (2, 15035), (6, 15260), (9, 15347), (11, 15365), (14, 15389), (17, 15494), (19, 15581), (20, 15629),

Gene: GageAP_23 Start: 15307, Stop: 16155, Start Num: 1

Candidate Starts for GageAP_23:

(Start: 1 @15307 has 193 MA's), (2, 15352), (6, 15577), (9, 15664), (11, 15682), (14, 15706), (18, 15883), (24, 16033), (28, 16138), (29, 16141),

Gene: Gandalf20_22 Start: 15374, Stop: 16222, Start Num: 1

Candidate Starts for Gandalf20_22:

(Start: 1 @15374 has 193 MA's), (2, 15419), (6, 15644), (9, 15731), (11, 15749), (14, 15773), (17, 15878), (18, 15950), (24, 16100), (28, 16205), (29, 16208),

Gene: Gompeii16_21 Start: 15075, Stop: 15926, Start Num: 1

Candidate Starts for Gompeii16_21:

(Start: 1 @15075 has 193 MA's), (2, 15120), (6, 15345), (9, 15432), (11, 15450), (14, 15474), (17, 15579), (19, 15666), (20, 15714),

Gene: Graduation_23 Start: 15340, Stop: 16188, Start Num: 1

Candidate Starts for Graduation_23:

(Start: 1 @15340 has 193 MA's), (2, 15385), (6, 15610), (9, 15697), (11, 15715), (14, 15739), (17, 15844), (18, 15916), (24, 16066),

Gene: GrecoEtereo_22 Start: 14881, Stop: 15729, Start Num: 1

Candidate Starts for GrecoEtereo_22:

(Start: 1 @14881 has 193 MA's), (2, 14926), (6, 15151), (9, 15238), (11, 15256), (14, 15280), (17, 15385), (18, 15457), (22, 15574), (24, 15607), (28, 15712), (29, 15715),

Gene: Greg_23 Start: 14890, Stop: 15741, Start Num: 1

Candidate Starts for Greg_23:

(Start: 1 @14890 has 193 MA's), (2, 14935), (6, 15160), (9, 15247), (11, 15265), (14, 15289), (17, 15394), (19, 15481), (20, 15529),

Gene: Gwendoluna_23 Start: 15987, Stop: 16838, Start Num: 1

Candidate Starts for Gwendoluna_23:

(Start: 1 @15987 has 193 MA's), (2, 16032), (5, 16158), (6, 16257), (9, 16344), (11, 16362), (14, 16386), (17, 16491), (19, 16578), (20, 16626),

Gene: Gyzlar_23 Start: 15817, Stop: 16668, Start Num: 1

Candidate Starts for Gyzlar_23:

(Start: 1 @15817 has 193 MA's), (2, 15862), (6, 16087), (9, 16174), (11, 16192), (14, 16216), (17, 16321), (19, 16408), (20, 16456),

Gene: HanShotFirst_21 Start: 14496, Stop: 15347, Start Num: 1

Candidate Starts for HanShotFirst_21:

(Start: 1 @14496 has 193 MA's), (2, 14541), (6, 14766), (9, 14853), (11, 14871), (14, 14895), (17, 15000), (19, 15087), (20, 15135),

Gene: HarryOW_22 Start: 14881, Stop: 15732, Start Num: 1

Candidate Starts for HarryOW_22:

(Start: 1 @14881 has 193 MA's), (2, 14926), (6, 15151), (9, 15238), (11, 15256), (14, 15280), (17, 15385), (19, 15472), (20, 15520),

Gene: Hermia_22 Start: 15604, Stop: 16455, Start Num: 1

Candidate Starts for Hermia_22:

(Start: 1 @15604 has 193 MA's), (2, 15649), (6, 15874), (9, 15961), (11, 15979), (14, 16003), (17, 16108), (19, 16195), (20, 16243),

Gene: HermioneGrange_21 Start: 14516, Stop: 15367, Start Num: 1

Candidate Starts for HermioneGrange_21:

(Start: 1 @14516 has 193 MA's), (2, 14561), (6, 14786), (9, 14873), (11, 14891), (14, 14915), (17, 15020), (19, 15107), (20, 15155),

Gene: Homines_21 Start: 14606, Stop: 15457, Start Num: 1

Candidate Starts for Homines_21:

(Start: 1 @14606 has 193 MA's), (2, 14651), (6, 14876), (9, 14963), (11, 14981), (14, 15005), (17, 15110), (19, 15197), (20, 15245),

Gene: Hope4ever_21 Start: 14992, Stop: 15840, Start Num: 1

Candidate Starts for Hope4ever_21:

(Start: 1 @14992 has 193 MA's), (2, 15037), (6, 15262), (9, 15349), (11, 15367), (14, 15391), (18, 15568), (24, 15718), (28, 15823), (29, 15826),

Gene: ILeeKay_23 Start: 14751, Stop: 15602, Start Num: 1

Candidate Starts for ILeeKay_23:

(Start: 1 @14751 has 193 MA's), (2, 14796), (6, 15021), (9, 15108), (11, 15126), (14, 15150), (17, 15255), (19, 15342), (20, 15390),

Gene: Ichabod_22 Start: 14608, Stop: 15456, Start Num: 1

Candidate Starts for Ichabod_22:

(Start: 1 @14608 has 193 MA's), (2, 14653), (6, 14878), (9, 14965), (11, 14983), (14, 15007), (18, 15184), (22, 15301), (24, 15334), (28, 15439), (29, 15442),

Gene: IgnatiusPatJac_20 Start: 14577, Stop: 15428, Start Num: 1

Candidate Starts for IgnatiusPatJac_20:

(Start: 1 @14577 has 193 MA's), (2, 14622), (6, 14847), (9, 14934), (11, 14952), (14, 14976), (17, 15081), (19, 15168), (20, 15216),

Gene: JC27_23 Start: 15487, Stop: 16338, Start Num: 1

Candidate Starts for JC27_23:

(Start: 1 @15487 has 193 MA's), (2, 15532), (6, 15757), (9, 15844), (11, 15862), (14, 15886), (17, 15991), (19, 16078), (20, 16126),

Gene: JackSparrow_22 Start: 14918, Stop: 15769, Start Num: 1

Candidate Starts for JackSparrow_22:

(Start: 1 @14918 has 193 MA's), (2, 14963), (6, 15188), (9, 15275), (11, 15293), (14, 15317), (17, 15422), (19, 15509), (20, 15557),

Gene: Jasper_22 Start: 14419, Stop: 15270, Start Num: 1

Candidate Starts for Jasper_22:

(Start: 1 @14419 has 193 MA's), (2, 14464), (6, 14689), (9, 14776), (11, 14794), (14, 14818), (17, 14923), (19, 15010), (20, 15058), (26, 15217),

Gene: Jerm2_22 Start: 14788, Stop: 15639, Start Num: 1

Candidate Starts for Jerm2_22:

(Start: 1 @14788 has 193 MA's), (2, 14833), (6, 15058), (9, 15145), (11, 15163), (14, 15187), (17, 15292), (19, 15379), (20, 15427),

Gene: Jorgensen_21 Start: 14375, Stop: 15226, Start Num: 1

Candidate Starts for Jorgensen_21:

(Start: 1 @14375 has 193 MA's), (2, 14420), (6, 14645), (9, 14732), (11, 14750), (14, 14774), (17, 14879), (19, 14966), (20, 15014),

Gene: JuliaChild_23 Start: 15046, Stop: 15897, Start Num: 1

Candidate Starts for JuliaChild_23:

(Start: 1 @15046 has 193 MA's), (2, 15091), (6, 15316), (9, 15403), (11, 15421), (14, 15445), (17, 15550), (19, 15637),

Gene: KBG_22 Start: 15496, Stop: 16344, Start Num: 1

Candidate Starts for KBG_22:

(Start: 1 @15496 has 193 MA's), (2, 15541), (6, 15766), (9, 15853), (11, 15871), (14, 15895), (18, 16072), (22, 16189), (24, 16222), (28, 16327), (29, 16330),

Gene: KSSJEB_21 Start: 14393, Stop: 15241, Start Num: 1

Candidate Starts for KSSJEB_21:

(Start: 1 @14393 has 193 MA's), (2, 14438), (6, 14663), (9, 14750), (11, 14768), (14, 14792), (18, 14969), (24, 15119), (28, 15224), (29, 15227),

Gene: Kanely_22 Start: 15155, Stop: 16006, Start Num: 1

Candidate Starts for Kanely_22:

(Start: 1 @15155 has 193 MA's), (2, 15200), (6, 15425), (9, 15512), (11, 15530), (14, 15554), (17, 15659), (19, 15746), (20, 15794),

Gene: Kenmech_24 Start: 15957, Stop: 16808, Start Num: 1

Candidate Starts for Kenmech_24:

(Start: 1 @15957 has 193 MA's), (2, 16002), (6, 16227), (9, 16314), (11, 16332), (14, 16356), (17, 16461), (19, 16548), (20, 16596),

Gene: Killigrew_19 Start: 14029, Stop: 14877, Start Num: 1

Candidate Starts for Killigrew_19:

(Start: 1 @14029 has 193 MA's), (2, 14074), (6, 14299), (9, 14386), (11, 14404), (14, 14428), (17, 14533), (18, 14605), (24, 14755), (28, 14860), (29, 14863),

Gene: Kugel_22 Start: 14667, Stop: 15518, Start Num: 1

Candidate Starts for Kugel_22:

(Start: 1 @14667 has 193 MA's), (2, 14712), (6, 14937), (9, 15024), (11, 15042), (14, 15066), (17, 15171), (19, 15258), (20, 15306),

Gene: KyMonks1A_23 Start: 14894, Stop: 15745, Start Num: 1

Candidate Starts for KyMonks1A_23:

(Start: 1 @14894 has 193 MA's), (2, 14939), (6, 15164), (9, 15251), (11, 15269), (14, 15293), (17, 15398), (19, 15485), (20, 15533),

Gene: Kykar_19 Start: 14164, Stop: 15015, Start Num: 1

Candidate Starts for Kykar_19:

(Start: 1 @14164 has 193 MA's), (2, 14209), (6, 14434), (9, 14521), (11, 14539), (14, 14563), (17, 14668), (19, 14755),

Gene: Lamina13_21 Start: 14170, Stop: 15021, Start Num: 1

Candidate Starts for Lamina13_21:

(Start: 1 @14170 has 193 MA's), (2, 14215), (6, 14440), (9, 14527), (11, 14545), (14, 14569), (17, 14674), (19, 14761), (20, 14809),

Gene: Lesedi_20 Start: 14331, Stop: 15182, Start Num: 1

Candidate Starts for Lesedi_20:

(Start: 1 @14331 has 193 MA's), (2, 14376), (6, 14601), (9, 14688), (11, 14706), (14, 14730), (17, 14835), (19, 14922), (20, 14970),

Gene: Licorice_23 Start: 15483, Stop: 16334, Start Num: 1

Candidate Starts for Licorice_23:

(Start: 1 @15483 has 193 MA's), (2, 15528), (6, 15753), (9, 15840), (11, 15858), (14, 15882), (17, 15987), (19, 16074), (20, 16122),

Gene: LilBib_22 Start: 15413, Stop: 16264, Start Num: 1

Candidate Starts for LilBib_22:

(Start: 1 @15413 has 193 MA's), (2, 15458), (6, 15683), (9, 15770), (11, 15788), (14, 15812), (17, 15917), (19, 16004),

Gene: Lockley_21 Start: 14508, Stop: 15359, Start Num: 1

Candidate Starts for Lockley_21:

(Start: 1 @14508 has 193 MA's), (2, 14553), (6, 14778), (9, 14865), (11, 14883), (14, 14907), (17, 15012), (19, 15099),

Gene: Lopton_22 Start: 15932, Stop: 16783, Start Num: 1

Candidate Starts for Lopton_22:

(Start: 1 @15932 has 193 MA's), (2, 15977), (6, 16202), (9, 16289), (11, 16307), (14, 16331), (17, 16436), (19, 16523), (20, 16571),

Gene: MPlant7149_20 Start: 14142, Stop: 14993, Start Num: 1

Candidate Starts for MPlant7149_20:

(Start: 1 @14142 has 193 MA's), (2, 14187), (6, 14412), (9, 14499), (11, 14517), (14, 14541), (17, 14646), (19, 14733), (20, 14781),

Gene: Magnar_21 Start: 14289, Stop: 15140, Start Num: 1

Candidate Starts for Magnar_21:

(Start: 1 @14289 has 193 MA's), (2, 14334), (6, 14559), (9, 14646), (11, 14664), (14, 14688), (17, 14793), (19, 14880), (20, 14928),

Gene: Magnito_20 Start: 14053, Stop: 14904, Start Num: 1

Candidate Starts for Magnito_20:

(Start: 1 @14053 has 193 MA's), (2, 14098), (6, 14323), (9, 14410), (11, 14428), (14, 14452), (17, 14557), (19, 14644),

Gene: Makemake_21 Start: 15782, Stop: 16630, Start Num: 1

Candidate Starts for Makemake_21:

(Start: 1 @15782 has 193 MA's), (2, 15827), (6, 16052), (9, 16139), (11, 16157), (14, 16181), (17, 16286), (18, 16358), (24, 16508), (28, 16613), (29, 16616),

Gene: Manatee_22 Start: 14804, Stop: 15652, Start Num: 1

Candidate Starts for Manatee_22:

(Start: 1 @14804 has 193 MA's), (2, 14849), (6, 15074), (9, 15161), (11, 15179), (14, 15203), (17, 15308), (18, 15380), (24, 15530), (28, 15635), (29, 15638),

Gene: Marcell_21 Start: 14802, Stop: 15653, Start Num: 1
Candidate Starts for Marcell_21:
(Start: 1 @14802 has 193 MA's), (2, 14847), (6, 15072), (9, 15159), (11, 15177), (14, 15201), (17, 15306), (19, 15393), (20, 15441),

Gene: Marge_22 Start: 15028, Stop: 15879, Start Num: 1
Candidate Starts for Marge_22:
(Start: 1 @15028 has 193 MA's), (2, 15073), (6, 15298), (9, 15385), (11, 15403), (14, 15427), (17, 15532), (19, 15619), (20, 15667),

Gene: Maroc7_20 Start: 14314, Stop: 15165, Start Num: 1
Candidate Starts for Maroc7_20:
(Start: 1 @14314 has 193 MA's), (2, 14359), (6, 14584), (9, 14671), (11, 14689), (14, 14713), (17, 14818), (19, 14905), (20, 14953),

Gene: Marsha_21 Start: 15070, Stop: 15921, Start Num: 1
Candidate Starts for Marsha_21:
(Start: 1 @15070 has 193 MA's), (2, 15115), (6, 15340), (9, 15427), (11, 15445), (14, 15469), (17, 15574), (19, 15661), (20, 15709),

Gene: MaryBeth_21 Start: 14736, Stop: 15584, Start Num: 1
Candidate Starts for MaryBeth_21:
(Start: 1 @14736 has 193 MA's), (2, 14781), (6, 15006), (9, 15093), (11, 15111), (14, 15135), (17, 15240), (24, 15462), (28, 15567), (29, 15570),

Gene: McGuire_22 Start: 14623, Stop: 15471, Start Num: 1
Candidate Starts for McGuire_22:
(Start: 1 @14623 has 193 MA's), (2, 14668), (6, 14893), (9, 14980), (11, 14998), (14, 15022), (18, 15199), (24, 15349), (28, 15454), (29, 15457),

Gene: MetalQZJ_21 Start: 14736, Stop: 15584, Start Num: 1
Candidate Starts for MetalQZJ_21:
(Start: 1 @14736 has 193 MA's), (2, 14781), (6, 15006), (9, 15093), (11, 15111), (14, 15135), (17, 15240), (24, 15462), (28, 15567), (29, 15570),

Gene: Michley_21 Start: 14483, Stop: 15331, Start Num: 1
Candidate Starts for Michley_21:
(Start: 1 @14483 has 193 MA's), (2, 14528), (6, 14753), (9, 14840), (11, 14858), (14, 14882), (18, 15059), (24, 15209), (28, 15314), (29, 15317),

Gene: Molly_22 Start: 14344, Stop: 15195, Start Num: 1
Candidate Starts for Molly_22:
(Start: 1 @14344 has 193 MA's), (2, 14389), (6, 14614), (9, 14701), (11, 14719), (14, 14743), (17, 14848), (19, 14935), (20, 14983),

Gene: Monet_23 Start: 15839, Stop: 16690, Start Num: 1
Candidate Starts for Monet_23:
(Start: 1 @15839 has 193 MA's), (2, 15884), (6, 16109), (9, 16196), (11, 16214), (13, 16232), (14, 16238), (17, 16343), (19, 16430), (20, 16478),

Gene: Moose_20 Start: 14580, Stop: 15431, Start Num: 1
Candidate Starts for Moose_20:

(Start: 1 @14580 has 193 MA's), (2, 14625), (6, 14850), (9, 14937), (11, 14955), (14, 14979), (17, 15084), (19, 15171), (20, 15219),

Gene: MrGordo_21 Start: 14296, Stop: 15144, Start Num: 1

Candidate Starts for MrGordo_21:

(Start: 1 @14296 has 193 MA's), (2, 14341), (6, 14566), (9, 14653), (11, 14671), (14, 14695), (22, 14989), (24, 15022),

Gene: Mryolo_20 Start: 14330, Stop: 15181, Start Num: 1

Candidate Starts for Mryolo_20:

(Start: 1 @14330 has 193 MA's), (2, 14375), (6, 14600), (9, 14687), (11, 14705), (14, 14729), (17, 14834), (19, 14921), (20, 14969),

Gene: Mule_21 Start: 14618, Stop: 15469, Start Num: 1

Candidate Starts for Mule_21:

(Start: 1 @14618 has 193 MA's), (2, 14663), (6, 14888), (9, 14975), (11, 14993), (14, 15017), (17, 15122), (19, 15209), (20, 15257),

Gene: Museum_23 Start: 14637, Stop: 15488, Start Num: 1

Candidate Starts for Museum_23:

(Start: 1 @14637 has 193 MA's), (2, 14682), (6, 14907), (9, 14994), (11, 15012), (14, 15036), (17, 15141), (19, 15228), (20, 15276),

Gene: NEHalo_21 Start: 14366, Stop: 15217, Start Num: 1

Candidate Starts for NEHalo_21:

(Start: 1 @14366 has 193 MA's), (2, 14411), (6, 14636), (9, 14723), (11, 14741), (14, 14765), (17, 14870), (19, 14957), (20, 15005),

Gene: Naira_22 Start: 16118, Stop: 16969, Start Num: 1

Candidate Starts for Naira_22:

(Start: 1 @16118 has 193 MA's), (2, 16163), (6, 16388), (9, 16475), (11, 16493), (14, 16517), (17, 16622), (19, 16709), (20, 16757),

Gene: Nerujay_22 Start: 15042, Stop: 15893, Start Num: 1

Candidate Starts for Nerujay_22:

(Start: 1 @15042 has 193 MA's), (2, 15087), (6, 15312), (9, 15399), (11, 15417), (14, 15441), (17, 15546), (19, 15633), (20, 15681),

Gene: Nhonho_21 Start: 14795, Stop: 15646, Start Num: 1

Candidate Starts for Nhonho_21:

(Start: 1 @14795 has 193 MA's), (2, 14840), (6, 15065), (9, 15152), (11, 15170), (14, 15194), (17, 15299), (19, 15386), (20, 15434),

Gene: Niza_23 Start: 15653, Stop: 16501, Start Num: 1

Candidate Starts for Niza_23:

(Start: 1 @15653 has 193 MA's), (2, 15698), (6, 15923), (9, 16010), (11, 16028), (14, 16052), (18, 16229), (24, 16379), (28, 16484), (29, 16487),

Gene: Norz_23 Start: 15289, Stop: 16140, Start Num: 1

Candidate Starts for Norz_23:

(Start: 1 @15289 has 193 MA's), (2, 15334), (6, 15559), (9, 15646), (11, 15664), (14, 15688), (17, 15793), (19, 15880), (20, 15928),

Gene: Ohno789_21 Start: 14436, Stop: 15287, Start Num: 1

Candidate Starts for Ohno789_21:

(Start: 1 @14436 has 193 MA's), (2, 14481), (6, 14706), (9, 14793), (11, 14811), (14, 14835), (17, 14940), (19, 15027), (20, 15075),

Gene: Oogway_20 Start: 14548, Stop: 15399, Start Num: 1

Candidate Starts for Oogway_20:

(Start: 1 @14548 has 193 MA's), (2, 14593), (6, 14818), (9, 14905), (11, 14923), (14, 14947), (17, 15052), (19, 15139), (20, 15187),

Gene: PSullivan_22 Start: 15046, Stop: 15897, Start Num: 1

Candidate Starts for PSullivan_22:

(Start: 1 @15046 has 193 MA's), (2, 15091), (6, 15316), (9, 15403), (11, 15421), (14, 15445), (17, 15550), (19, 15637),

Gene: PacerPaul_21 Start: 14813, Stop: 15661, Start Num: 1

Candidate Starts for PacerPaul_21:

(Start: 1 @14813 has 193 MA's), (2, 14858), (6, 15083), (9, 15170), (11, 15188), (14, 15212), (17, 15317), (24, 15539), (28, 15644), (29, 15647),

Gene: Papez_23 Start: 16265, Stop: 17116, Start Num: 1

Candidate Starts for Papez_23:

(Start: 1 @16265 has 193 MA's), (2, 16310), (6, 16535), (9, 16622), (11, 16640), (14, 16664), (17, 16769), (20, 16904),

Gene: Paphu_20 Start: 14002, Stop: 14853, Start Num: 1

Candidate Starts for Paphu_20:

(Start: 1 @14002 has 193 MA's), (2, 14047), (6, 14272), (9, 14359), (11, 14377), (14, 14401), (17, 14506), (19, 14593), (20, 14641),

Gene: Paraselene_20 Start: 14318, Stop: 15166, Start Num: 1

Candidate Starts for Paraselene_20:

(Start: 1 @14318 has 193 MA's), (2, 14363), (6, 14588), (9, 14675), (11, 14693), (14, 14717), (17, 14822), (18, 14894), (24, 15044), (28, 15149), (29, 15152),

Gene: Pari_22 Start: 14793, Stop: 15641, Start Num: 1

Candidate Starts for Pari_22:

(Start: 1 @14793 has 193 MA's), (2, 14838), (6, 15063), (9, 15150), (11, 15168), (14, 15192), (18, 15369), (24, 15519), (28, 15624), (29, 15627),

Gene: Parliament_20 Start: 14682, Stop: 15530, Start Num: 1

Candidate Starts for Parliament_20:

(Start: 1 @14682 has 193 MA's), (2, 14727), (6, 14952), (9, 15039), (11, 15057), (14, 15081), (18, 15258), (24, 15408), (28, 15513), (29, 15516),

Gene: PascalRango_20 Start: 14237, Stop: 15085, Start Num: 1

Candidate Starts for PascalRango_20:

(Start: 1 @14237 has 193 MA's), (2, 14282), (6, 14507), (9, 14594), (11, 14612), (14, 14636), (17, 14741), (18, 14813), (22, 14930), (24, 14963), (28, 15068), (29, 15071),

Gene: PattyP_23 Start: 14846, Stop: 15697, Start Num: 1

Candidate Starts for PattyP_23:

(Start: 1 @14846 has 193 MA's), (2, 14891), (6, 15116), (9, 15203), (11, 15221), (14, 15245), (17, 15350), (19, 15437), (20, 15485),

Gene: Pelly_22 Start: 15082, Stop: 15933, Start Num: 1

Candidate Starts for Pelly_22:

(Start: 1 @15082 has 193 MA's), (2, 15127), (6, 15352), (9, 15439), (11, 15457), (14, 15481), (17, 15586), (19, 15673), (20, 15721),

Gene: Pepe_22 Start: 15037, Stop: 15885, Start Num: 1

Candidate Starts for Pepe_22:

(Start: 1 @15037 has 193 MA's), (2, 15082), (6, 15307), (9, 15394), (11, 15412), (14, 15436), (18, 15613), (24, 15763), (28, 15868), (29, 15871),

Gene: Perseus_22 Start: 14701, Stop: 15552, Start Num: 1

Candidate Starts for Perseus_22:

(Start: 1 @14701 has 193 MA's), (2, 14746), (6, 14971), (9, 15058), (11, 15076), (14, 15100), (17, 15205), (19, 15292), (20, 15340),

Gene: Peterson_24 Start: 16292, Stop: 17143, Start Num: 1

Candidate Starts for Peterson_24:

(Start: 1 @16292 has 193 MA's), (2, 16337), (6, 16562), (9, 16649), (11, 16667), (14, 16691), (17, 16796), (19, 16883),

Gene: Petp2012_23 Start: 15514, Stop: 16365, Start Num: 1

Candidate Starts for Petp2012_23:

(Start: 1 @15514 has 193 MA's), (2, 15559), (6, 15784), (9, 15871), (11, 15889), (14, 15913), (17, 16018), (19, 16105), (20, 16153),

Gene: Petruccio_21 Start: 14543, Stop: 15394, Start Num: 1

Candidate Starts for Petruccio_21:

(Start: 1 @14543 has 193 MA's), (2, 14588), (6, 14813), (9, 14900), (11, 14918), (14, 14942), (17, 15047), (19, 15134), (20, 15182),

Gene: PherrisBueller_22 Start: 14466, Stop: 15314, Start Num: 1

Candidate Starts for PherrisBueller_22:

(Start: 1 @14466 has 193 MA's), (2, 14511), (6, 14736), (9, 14823), (11, 14841), (14, 14865), (17, 14970), (18, 15042), (24, 15192), (28, 15297), (29, 15300),

Gene: Phlei_18 Start: 15680, Stop: 16519, Start Num: 1

Candidate Starts for Phlei_18:

(Start: 1 @15680 has 193 MA's), (3, 15731), (4, 15770), (7, 15956), (8, 16028), (10, 16043), (12, 16067), (15, 16082), (16, 16094), (17, 16181), (21, 16316), (23, 16388), (25, 16463), (27, 16505), (29, 16511),

Gene: PhrostyMug_21 Start: 14615, Stop: 15466, Start Num: 1

Candidate Starts for PhrostyMug_21:

(Start: 1 @14615 has 193 MA's), (2, 14660), (6, 14885), (9, 14972), (11, 14990), (14, 15014), (17, 15119), (19, 15206), (20, 15254),

Gene: PinkPlastic_20 Start: 14380, Stop: 15231, Start Num: 1

Candidate Starts for PinkPlastic_20:

(Start: 1 @14380 has 193 MA's), (2, 14425), (6, 14650), (9, 14737), (11, 14755), (14, 14779), (17, 14884), (19, 14971), (20, 15019),

Gene: Pinto_23 Start: 14697, Stop: 15545, Start Num: 1

Candidate Starts for Pinto_23:

(Start: 1 @14697 has 193 MA's), (2, 14742), (6, 14967), (9, 15054), (11, 15072), (14, 15096), (18, 15273), (24, 15423), (28, 15528), (29, 15531),

Gene: Pippin_23 Start: 14949, Stop: 15800, Start Num: 1

Candidate Starts for Pippin_23:

(Start: 1 @14949 has 193 MA's), (2, 14994), (6, 15219), (9, 15306), (11, 15324), (14, 15348), (17, 15453), (19, 15540), (20, 15588),

Gene: Pita2_23 Start: 15046, Stop: 15897, Start Num: 1

Candidate Starts for Pita2_23:

(Start: 1 @15046 has 193 MA's), (2, 15091), (6, 15316), (9, 15403), (11, 15421), (14, 15445), (17, 15550), (19, 15637),

Gene: QTRlifeCrisis_24 Start: 15023, Stop: 15874, Start Num: 1

Candidate Starts for QTRlifeCrisis_24:

(Start: 1 @15023 has 193 MA's), (2, 15068), (6, 15293), (9, 15380), (11, 15398), (14, 15422), (17, 15527), (19, 15614), (20, 15662),

Gene: Rajelicia_21 Start: 14831, Stop: 15679, Start Num: 1

Candidate Starts for Rajelicia_21:

(Start: 1 @14831 has 193 MA's), (2, 14876), (6, 15101), (9, 15188), (11, 15206), (14, 15230), (18, 15407), (24, 15557), (28, 15662), (29, 15665),

Gene: Rhynn_21 Start: 14624, Stop: 15475, Start Num: 1

Candidate Starts for Rhynn_21:

(Start: 1 @14624 has 193 MA's), (2, 14669), (6, 14894), (9, 14981), (11, 14999), (14, 15023), (17, 15128), (19, 15215), (20, 15263),

Gene: RidgeCB_21 Start: 14398, Stop: 15249, Start Num: 1

Candidate Starts for RidgeCB_21:

(Start: 1 @14398 has 193 MA's), (2, 14443), (6, 14668), (9, 14755), (11, 14773), (14, 14797), (17, 14902), (19, 14989), (20, 15037),

Gene: Ringer_21 Start: 14882, Stop: 15733, Start Num: 1

Candidate Starts for Ringer_21:

(Start: 1 @14882 has 193 MA's), (2, 14927), (6, 15152), (9, 15239), (11, 15257), (14, 15281), (17, 15386), (19, 15473), (20, 15521),

Gene: Rohr_22 Start: 14821, Stop: 15672, Start Num: 1

Candidate Starts for Rohr_22:

(Start: 1 @14821 has 193 MA's), (2, 14866), (6, 15091), (9, 15178), (11, 15196), (14, 15220), (17, 15325), (19, 15412), (20, 15460),

Gene: Rubeus_22 Start: 14656, Stop: 15507, Start Num: 1

Candidate Starts for Rubeus_22:

(Start: 1 @14656 has 193 MA's), (2, 14701), (6, 14926), (9, 15013), (11, 15031), (14, 15055), (17, 15160), (19, 15247), (20, 15295),

Gene: Rufus_22 Start: 14989, Stop: 15840, Start Num: 1

Candidate Starts for Rufus_22:

(Start: 1 @14989 has 193 MA's), (2, 15034), (6, 15259), (9, 15346), (11, 15364), (14, 15388), (17, 15493), (19, 15580), (20, 15628),

Gene: Ruotula_20 Start: 14826, Stop: 15677, Start Num: 1

Candidate Starts for Ruotula_20:

(Start: 1 @14826 has 193 MA's), (2, 14871), (6, 15096), (9, 15183), (11, 15201), (14, 15225), (17, 15330), (19, 15417), (20, 15465),

Gene: Rutherferd_23 Start: 15169, Stop: 16020, Start Num: 1

Candidate Starts for Rutherferd_23:

(Start: 1 @15169 has 193 MA's), (2, 15214), (6, 15439), (9, 15526), (11, 15544), (12, 15559), (14, 15568), (17, 15673), (19, 15760), (20, 15808),

Gene: STLscum_22 Start: 15032, Stop: 15883, Start Num: 1

Candidate Starts for STLscum_22:

(Start: 1 @15032 has 193 MA's), (2, 15077), (6, 15302), (9, 15389), (11, 15407), (14, 15431), (17, 15536), (19, 15623), (20, 15671),

Gene: Sagefire_22 Start: 15429, Stop: 16280, Start Num: 1

Candidate Starts for Sagefire_22:

(Start: 1 @15429 has 193 MA's), (2, 15474), (6, 15699), (9, 15786), (11, 15804), (14, 15828), (17, 15933), (19, 16020), (20, 16068),

Gene: SarFire_21 Start: 14698, Stop: 15546, Start Num: 1

Candidate Starts for SarFire_21:

(Start: 1 @14698 has 193 MA's), (2, 14743), (6, 14968), (9, 15055), (11, 15073), (14, 15097), (17, 15202), (18, 15274), (24, 15424), (28, 15529), (29, 15532),

Gene: Scowl_22 Start: 15095, Stop: 15943, Start Num: 1

Candidate Starts for Scowl_22:

(Start: 1 @15095 has 193 MA's), (2, 15140), (6, 15365), (9, 15452), (11, 15470), (14, 15494), (17, 15599), (18, 15671), (24, 15821), (28, 15926), (29, 15929),

Gene: Seabiscuit_23 Start: 14630, Stop: 15478, Start Num: 1

Candidate Starts for Seabiscuit_23:

(Start: 1 @14630 has 193 MA's), (2, 14675), (6, 14900), (9, 14987), (11, 15005), (14, 15029), (18, 15206), (24, 15356), (28, 15461), (29, 15464),

Gene: Seanderson_22 Start: 15065, Stop: 15916, Start Num: 1

Candidate Starts for Seanderson_22:

(Start: 1 @15065 has 193 MA's), (2, 15110), (6, 15335), (9, 15422), (11, 15440), (14, 15464), (17, 15569), (19, 15656), (20, 15704),

Gene: Sibs6_23 Start: 15141, Stop: 15992, Start Num: 1

Candidate Starts for Sibs6_23:

(Start: 1 @15141 has 193 MA's), (2, 15186), (6, 15411), (9, 15498), (11, 15516), (14, 15540), (17, 15645), (19, 15732), (20, 15780),

Gene: SkiPole_23 Start: 14718, Stop: 15566, Start Num: 1

Candidate Starts for SkiPole_23:

(Start: 1 @14718 has 193 MA's), (2, 14763), (6, 14988), (9, 15075), (11, 15093), (14, 15117), (18, 15294), (24, 15444), (28, 15549), (29, 15552),

Gene: Slagathor_22 Start: 14493, Stop: 15344, Start Num: 1

Candidate Starts for Slagathor_22:

(Start: 1 @14493 has 193 MA's), (2, 14538), (6, 14763), (9, 14850), (11, 14868), (14, 14892), (17, 14997), (19, 15084), (20, 15132),

Gene: Smairt_22 Start: 15324, Stop: 16175, Start Num: 1

Candidate Starts for Smairt_22:

(Start: 1 @15324 has 193 MA's), (2, 15369), (6, 15594), (9, 15681), (11, 15699), (14, 15723), (17, 15828), (19, 15915), (20, 15963),

Gene: Smeagol_23 Start: 15913, Stop: 16764, Start Num: 1

Candidate Starts for Smeagol_23:

(Start: 1 @15913 has 193 MA's), (6, 16183), (9, 16270), (11, 16288), (14, 16312), (17, 16417), (19, 16504),

Gene: Snazzy_19 Start: 14013, Stop: 14864, Start Num: 1

Candidate Starts for Snazzy_19:

(Start: 1 @14013 has 193 MA's), (2, 14058), (6, 14283), (9, 14370), (11, 14388), (14, 14412), (17, 14517), (19, 14604), (20, 14652),

Gene: Solon_21 Start: 15176, Stop: 16027, Start Num: 1

Candidate Starts for Solon_21:

(Start: 1 @15176 has 193 MA's), (2, 15221), (6, 15446), (9, 15533), (11, 15551), (14, 15575), (17, 15680), (19, 15767), (20, 15815),

Gene: SpikeBT_23 Start: 15480, Stop: 16331, Start Num: 1

Candidate Starts for SpikeBT_23:

(Start: 1 @15480 has 193 MA's), (2, 15525), (6, 15750), (9, 15837), (11, 15855), (14, 15879), (17, 15984), (19, 16071), (20, 16119),

Gene: Squee_22 Start: 15314, Stop: 16165, Start Num: 1

Candidate Starts for Squee_22:

(Start: 1 @15314 has 193 MA's), (2, 15359), (6, 15584), (9, 15671), (11, 15689), (14, 15713), (17, 15818), (19, 15905), (20, 15953),

Gene: StewieG_20 Start: 14388, Stop: 15239, Start Num: 1

Candidate Starts for StewieG_20:

(Start: 1 @14388 has 193 MA's), (2, 14433), (6, 14658), (9, 14745), (11, 14763), (14, 14787), (17, 14892), (19, 14979), (20, 15027),

Gene: StrongArm_20 Start: 15565, Stop: 16416, Start Num: 1

Candidate Starts for StrongArm_20:

(Start: 1 @15565 has 193 MA's), (2, 15610), (6, 15835), (9, 15922), (11, 15940), (14, 15964), (17, 16069), (19, 16156), (20, 16204),

Gene: Sumter_20 Start: 14135, Stop: 14986, Start Num: 1

Candidate Starts for Sumter_20:

(Start: 1 @14135 has 193 MA's), (2, 14180), (6, 14405), (9, 14492), (11, 14510), (14, 14534), (17, 14639), (19, 14726), (20, 14774),

Gene: Sunshine924_20 Start: 14119, Stop: 14970, Start Num: 1

Candidate Starts for Sunshine924_20:

(Start: 1 @14119 has 193 MA's), (2, 14164), (6, 14389), (9, 14476), (11, 14494), (14, 14518), (17, 14623), (19, 14710), (20, 14758),

Gene: SwissCheese_21 Start: 14580, Stop: 15431, Start Num: 1

Candidate Starts for SwissCheese_21:

(Start: 1 @14580 has 193 MA's), (2, 14625), (6, 14850), (9, 14937), (11, 14955), (14, 14979), (17, 15084), (19, 15171), (20, 15219),

Gene: Switzer_22 Start: 14736, Stop: 15584, Start Num: 1

Candidate Starts for Switzer_22:

(Start: 1 @14736 has 193 MA's), (2, 14781), (6, 15006), (9, 15093), (11, 15111), (14, 15135), (18, 15312), (24, 15462), (28, 15567), (29, 15570),

Gene: Swole_23 Start: 15046, Stop: 15897, Start Num: 1

Candidate Starts for Swole_23:

(Start: 1 @15046 has 193 MA's), (2, 15091), (6, 15316), (9, 15403), (11, 15421), (14, 15445), (17, 15550), (19, 15637),

Gene: Target_23 Start: 15387, Stop: 16238, Start Num: 1

Candidate Starts for Target_23:

(Start: 1 @15387 has 193 MA's), (2, 15432), (6, 15657), (9, 15744), (11, 15762), (14, 15786), (17, 15891), (19, 15978), (20, 16026),

Gene: Tasp14_22 Start: 14825, Stop: 15673, Start Num: 1

Candidate Starts for Tasp14_22:

(Start: 1 @14825 has 193 MA's), (2, 14870), (6, 15095), (9, 15182), (11, 15200), (14, 15224), (18, 15401), (24, 15551), (28, 15656), (29, 15659),

Gene: Teodoridan_19 Start: 13952, Stop: 14803, Start Num: 1

Candidate Starts for Teodoridan_19:

(Start: 1 @13952 has 193 MA's), (2, 13997), (6, 14222), (9, 14309), (11, 14327), (14, 14351), (17, 14456), (19, 14543), (20, 14591),

Gene: TheloniousMonk_23 Start: 15860, Stop: 16711, Start Num: 1

Candidate Starts for TheloniousMonk_23:

(Start: 1 @15860 has 193 MA's), (2, 15905), (6, 16130), (9, 16217), (11, 16235), (14, 16259), (17, 16364), (19, 16451), (20, 16499),

Gene: Thor_21 Start: 14698, Stop: 15546, Start Num: 1

Candidate Starts for Thor_21:

(Start: 1 @14698 has 193 MA's), (2, 14743), (6, 14968), (9, 15055), (11, 15073), (14, 15097), (17, 15202), (18, 15274), (24, 15424), (28, 15529), (29, 15532),

Gene: Topgun_21 Start: 14300, Stop: 15151, Start Num: 1

Candidate Starts for Topgun_21:

(Start: 1 @14300 has 193 MA's), (2, 14345), (6, 14570), (9, 14657), (11, 14675), (14, 14699), (17, 14804), (19, 14891), (20, 14939),

Gene: Tote_23 Start: 15046, Stop: 15897, Start Num: 1

Candidate Starts for Tote_23:

(Start: 1 @15046 has 193 MA's), (2, 15091), (6, 15316), (9, 15403), (11, 15421), (14, 15445), (17, 15550), (19, 15637),

Gene: Traft412_23 Start: 15527, Stop: 16378, Start Num: 1

Candidate Starts for Traft412_23:

(Start: 1 @15527 has 193 MA's), (2, 15572), (6, 15797), (9, 15884), (11, 15902), (14, 15926), (17, 16031), (19, 16118), (20, 16166),

Gene: Treddle_23 Start: 15840, Stop: 16691, Start Num: 1

Candidate Starts for Treddle_23:

(Start: 1 @15840 has 193 MA's), (2, 15885), (6, 16110), (9, 16197), (11, 16215), (13, 16233), (14, 16239), (17, 16344), (19, 16431), (20, 16479),

Gene: Tripl3t_22 Start: 15525, Stop: 16376, Start Num: 1

Candidate Starts for Tripl3t_22:

(Start: 1 @15525 has 193 MA's), (2, 15570), (6, 15795), (9, 15882), (11, 15900), (14, 15924), (17, 16029), (19, 16116), (20, 16164),

Gene: Trouble_21 Start: 14886, Stop: 15737, Start Num: 1

Candidate Starts for Trouble_21:

(Start: 1 @14886 has 193 MA's), (2, 14931), (6, 15156), (9, 15243), (11, 15261), (14, 15285), (17, 15390), (19, 15477), (20, 15525),

Gene: Turj99_20 Start: 14324, Stop: 15175, Start Num: 1

Candidate Starts for Turj99_20:

(Start: 1 @14324 has 193 MA's), (2, 14369), (6, 14594), (9, 14681), (11, 14699), (14, 14723), (17, 14828), (19, 14915),

Gene: TwoPeat_21 Start: 14839, Stop: 15690, Start Num: 1

Candidate Starts for TwoPeat_21:

(Start: 1 @14839 has 193 MA's), (2, 14884), (6, 15109), (9, 15196), (11, 15214), (14, 15238), (17, 15343), (19, 15430), (20, 15478),

Gene: U2_21 Start: 14742, Stop: 15590, Start Num: 1

Candidate Starts for U2_21:

(Start: 1 @14742 has 193 MA's), (2, 14787), (6, 15012), (9, 15099), (11, 15117), (14, 15141), (18, 15318), (24, 15468), (28, 15573), (29, 15576),

Gene: Violet_20 Start: 15131, Stop: 15982, Start Num: 1

Candidate Starts for Violet_20:

(Start: 1 @15131 has 193 MA's), (2, 15176), (6, 15401), (9, 15488), (11, 15506), (14, 15530), (17, 15635), (19, 15722), (20, 15770),

Gene: Watermelon_23 Start: 15437, Stop: 16288, Start Num: 1

Candidate Starts for Watermelon_23:

(Start: 1 @15437 has 193 MA's), (2, 15482), (6, 15707), (9, 15794), (11, 15812), (14, 15836), (17, 15941), (19, 16028), (20, 16076),

Gene: Wheeler_21 Start: 14892, Stop: 15743, Start Num: 1

Candidate Starts for Wheeler_21:

(Start: 1 @14892 has 193 MA's), (2, 14937), (6, 15162), (9, 15249), (11, 15267), (14, 15291), (17, 15396), (19, 15483), (20, 15531),

Gene: Wilkins_21 Start: 14300, Stop: 15151, Start Num: 1

Candidate Starts for Wilkins_21:

(Start: 1 @14300 has 193 MA's), (2, 14345), (6, 14570), (9, 14657), (11, 14675), (14, 14699), (17, 14804), (19, 14891), (20, 14939),

Gene: Zeeculate_20 Start: 14578, Stop: 15429, Start Num: 1

Candidate Starts for Zeeculate_20:

(Start: 1 @14578 has 193 MA's), (2, 14623), (6, 14848), (9, 14935), (11, 14953), (14, 14977), (17, 15082), (19, 15169), (20, 15217),

Gene: Zephyr_21 Start: 14670, Stop: 15521, Start Num: 1

Candidate Starts for Zephyr_21:

(Start: 1 @14670 has 193 MA's), (2, 14715), (6, 14940), (9, 15027), (11, 15045), (14, 15069), (17, 15174), (19, 15261), (20, 15309),

Gene: Zeuska_22 Start: 15112, Stop: 15963, Start Num: 1

Candidate Starts for Zeuska_22:

(Start: 1 @15112 has 193 MA's), (2, 15157), (6, 15382), (9, 15469), (11, 15487), (14, 15511), (17, 15616), (19, 15703), (20, 15751),