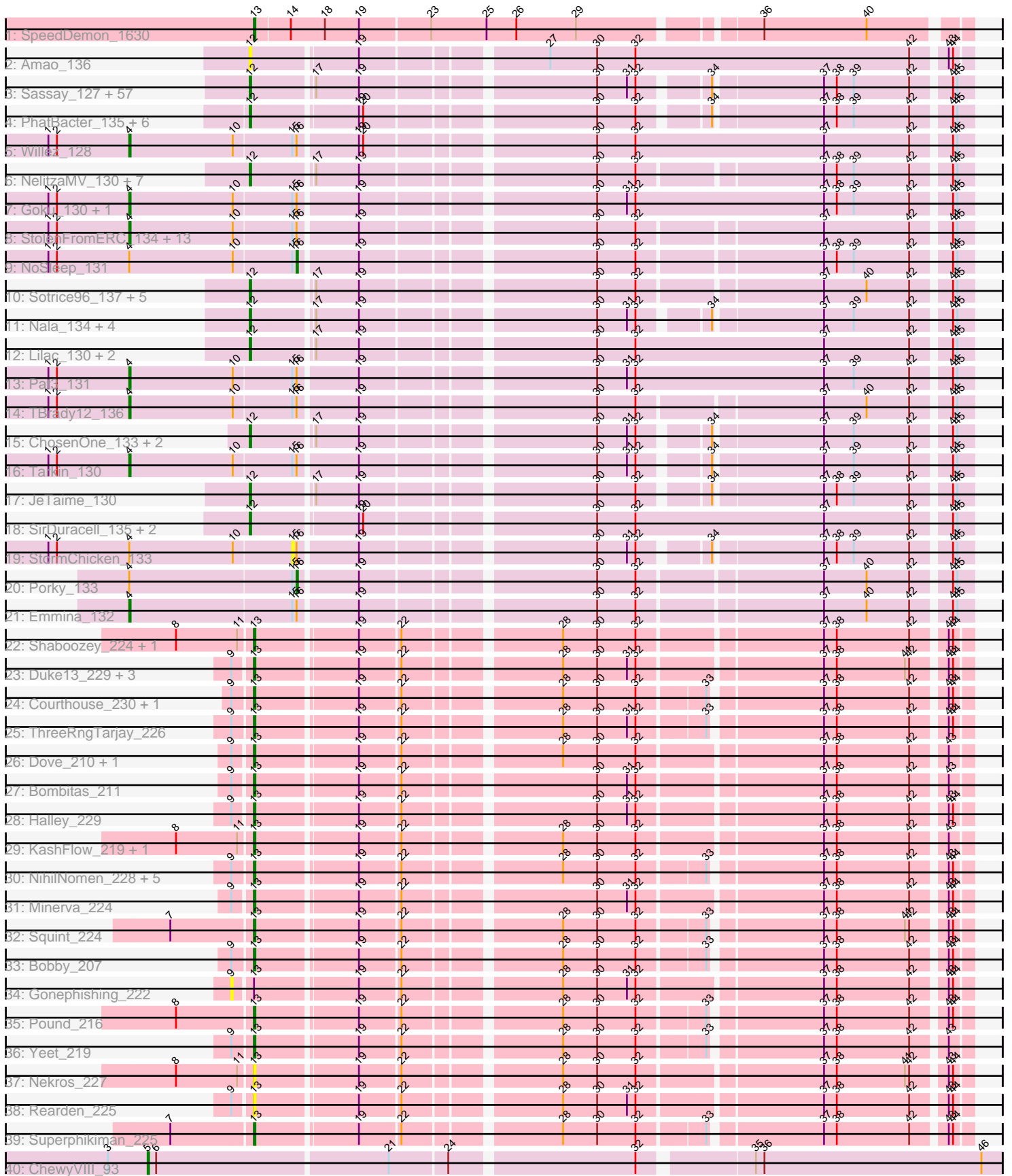


Pham 224355



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 224355 Report

This analysis was run 03/28/25 on database version 593.

Pham number 224355 has 151 members, 14 are drafts.

Phages represented in each track:

- Track 1 : SpeedDemon_1630
- Track 2 : Amao_136
- Track 3 : Sassay_127, TeardropMSU_133, IHOP_136, SophKB_130, ABCat_133, FoghornLeghorn_130, Harella_138, DrDrey_135, MISSy_134, DoctorDiddles_130, Phrux_128, Tomaszewski_126, Contagion_128, BaboJay_131, BadStone_133, Misfit_132, Murphy_131, Phaja_136, Henry_134, Gator_134, Youngblood_136, Bask21_137, Mosby_129, Petra64142_134, Inca_131, Asriel_129, Filch_134, OrionPax_128, Palpatine_132, CrystalP_132, Dusk_133, 244_133, Barbarian_132, BugsBunny_131, Tuco_138, Terminus_135, Marshmallow_133, Flypotenuse_127, Ukulele_127, Kostya_133, Toto_130, Simpliphy_131, ShamWow_132, Icee_137, ChotaBhai_136, Becksu_130, MPhalcon_133, FairyPath_131, RiverMonster_131, Traaww1_128, MadamMonkfish_132, Glexan_136, Nimrod_132, BilboSwaggins_130, Bruin_129, Hopey_131, Pumpkin_132, Maxxinista_134
- Track 4 : PhatBacter_135, FireRed_135, HuffyPuff_134, YassJohnny_128, Murica_136, Policronamos_133, Phaux_134
- Track 5 : Willez_128
- Track 6 : NelitzaMV_130, Command613_134, Daikon_134, Thresher_134, Elph10_130, Balomoji_132, Rakim_133, Mindy_135
- Track 7 : Goku_130, Eureka_131
- Track 8 : StolenFromERC_134, Stank_135, GooberAzure_134, Adnama_136, Argent26_136, GoldenSpark_136, Xandras_132, Moldemort_134, Easy2Say_133, Gemini_137, AmericanBeauty_135, Lilizi_132, Kimchi_137, Goldilocks_137
- Track 9 : NoSleep_131
- Track 10 : Sotrice96_137, Wiggin_135, Highbury_128, Saints25_128, Hoonter_135, Cactus_140
- Track 11 : Nala_134, Dumbo_133, Rimmer_129, Stark_130, Cjw1_130
- Track 12 : Lilac_130, Bench_134, Cookies_133
- Track 13 : Pat3_131
- Track 14 : TBrady12_136
- Track 15 : ChosenOne_133, Lilpickle_132, Elite2014_132
- Track 16 : Tarkin_130
- Track 17 : JeTaime_130
- Track 18 : SirDuracell_135, Holt_138, Manda_133
- Track 19 : StormChicken_133
- Track 20 : Porky_133
- Track 21 : Emmina_132
- Track 22 : Shaboozey_224, Omega_228

- Track 23 : Duke13_229, Hughesyang_227, EricMillard_223, Bagrid_233
- Track 24 : Courthouse_230, DmpstrDiver_226
- Track 25 : ThreeRngTarjay_226
- Track 26 : Dove_210, Schatzie_217
- Track 27 : Bombitas_211
- Track 28 : Halley_229
- Track 29 : KashFlow_219, Hannaconda_217
- Track 30 : NihilNomen_228, Phoebus_224, Ariel_233, Beem_228, JuicyJay_221, HokkenD_217
- Track 31 : Minerva_224
- Track 32 : Squint_224
- Track 33 : Bobby_207
- Track 34 : Gonephishing_222
- Track 35 : Pound_216
- Track 36 : Yeet_219
- Track 37 : Nekros_227
- Track 38 : Rearden_225
- Track 39 : Superphikiman_225
- Track 40 : ChewyVIII_93

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

The start number called the most often in the published annotations is 12, it was called in 87 of the 137 non-draft genes in the pham.

Genes that call this "Most Annotated" start:

- 244_133, ABCat_133, Amao_136, Asriel_129, BaboJay_131, BadStone_133, Balomoji_132, Barbarian_132, Bask21_137, Becksu_130, Bench_134, BilboSwaggins_130, Bruin_129, BugsBunny_131, Cactus_140, ChosenOne_133, ChotaBhai_136, Cjw1_130, Command613_134, Contagion_128, Cookies_133, CrystalP_132, Daikon_134, DoctorDiddles_130, DrDrey_135, Dumbo_133, Dusk_133, Elite2014_132, Elph10_130, FairyPath_131, Filch_134, FireRed_135, Flypotenuse_127, FoghornLeghorn_130, Gator_134, Glexan_136, Harella_138, Henry_134, Highbury_128, Holt_138, Hoonter_135, Hopey_131, HufflyPuff_134, IHOP_136, Icee_137, Inca_131, JeTaime_130, Kostya_133, Lilac_130, Lilpickle_132, MISSy_134, MPhalcon_133, MadamMonkfish_132, Manda_133, Marshmallow_133, Maxxinista_134, Mindy_135, Misfit_132, Mosby_129, Murica_136, Murphy_131, Nala_134, NelitzaMV_130, Nimrod_132, OrionPax_128, Palpatine_132, Petra64142_134, Phaja_136, PhatBacter_135, Phaux_134, Phrux_128, Policronamos_133, Pumpkin_132, Rakim_133, Rimmer_129, RiverMonster_131, Saints25_128, Sassay_127, ShamWow_132, Simpliphy_131, SirDuracell_135, SophKB_130, Sotrice96_137, Stark_130, TeardropMSU_133, Terminus_135, Thresher_134, Tomaszewski_126, Toto_130, Traaww1_128, Tuco_138, Ukulele_127, WiggIn_135, YassJohnny_128, Youngblood_136,

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

-

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

- Adnama_136, AmericanBeauty_135, Argent26_136, Ariel_233, Bagrid_233, Beem_228, Bobby_207, Bombitas_211, ChewyVIII_93, Courthouse_230, DmpstrDiver_226, Dove_210, Duke13_229, Easy2Say_133, Emmina_132, EricMillard_223, Eureka_131, Gemini_137, Goku_130, GoldenSpark_136, Goldilocks_137, Gonephishing_222, GooberAzure_134, Halley_229, Hannaconda_217, HokkenD_217, Hughesyang_227, JuicyJay_221, KashFlow_219, Kimchi_137, Lilizi_132, Minerva_224, Moldemort_134, Nekros_227, NihilNomen_228, NoSleep_131, Omega_228, Pat3_131, Phoebus_224, Porky_133, Pound_216, Rearden_225, Schatzie_217, Shaboozey_224, SpeedDemon_1630, Squint_224, Stank_135, StolenFromERC_134, StormChicken_133, Superphikiman_225, TBrady12_136, Tarkin_130, ThreeRngTarjay_226, Willez_128, Xandras_132, Yeet_219,

Summary by start number:

Start 4:

- Found in 24 of 151 (15.9%) of genes in pham
- Manual Annotations of this start: 21 of 137
- Called 87.5% of time when present
- Phage (with cluster) where this start called: Adnama_136 (E), AmericanBeauty_135 (E), Argent26_136 (E), Easy2Say_133 (E), Emmina_132 (E), Eureka_131 (E), Gemini_137 (E), Goku_130 (E), GoldenSpark_136 (E), Goldilocks_137 (E), GooberAzure_134 (E), Kimchi_137 (E), Lilizi_132 (E), Moldemort_134 (E), Pat3_131 (E), Stank_135 (E), StolenFromERC_134 (E), TBrady12_136 (E), Tarkin_130 (E), Willez_128 (E), Xandras_132 (E),

Start 5:

- Found in 1 of 151 (0.7%) of genes in pham
- Manual Annotations of this start: 1 of 137
- Called 100.0% of time when present
- Phage (with cluster) where this start called: ChewyVIII_93 (singleton),

Start 9:

- Found in 22 of 151 (14.6%) of genes in pham
- No Manual Annotations of this start.
- Called 4.5% of time when present
- Phage (with cluster) where this start called: Gonephishing_222 (J),

Start 12:

- Found in 95 of 151 (62.9%) of genes in pham
- Manual Annotations of this start: 87 of 137
- Called 100.0% of time when present
- Phage (with cluster) where this start called: 244_133 (E), ABCat_133 (E), Amao_136 (E), Asriel_129 (E), BaboJay_131 (E), BadStone_133 (E), Balomoji_132 (E), Barbarian_132 (E), Bask21_137 (E), Becksu_130 (E), Bench_134 (E), BilboSwaggins_130 (E), Bruin_129 (E), BugsBunny_131 (E), Cactus_140 (E), ChosenOne_133 (E), ChotaBhai_136 (E), Cjw1_130 (E), Command613_134 (E), Contagion_128 (E), Cookies_133 (E), CrystalP_132 (E), Daikon_134 (E), DoctorDiddles_130 (E), DrDrey_135 (E), Dumbo_133 (E), Dusk_133 (E), Elite2014_132 (E), Elph10_130 (E), FairyPath_131 (E), Filch_134 (E), FireRed_135 (E), Flypotenuse_127 (E), FoghornLeghorn_130 (E), Gator_134 (E), Glexan_136 (E), Harella_138 (E), Henry_134 (E), Highbury_128 (E), Holt_138 (E), Hoonter_135 (E), Hopey_131 (E), HuffyPuff_134 (E), IHOP_136 (E), Icee_137 (E), Inca_131 (E),

JeTaime_130 (E), Kostya_133 (E), Lilac_130 (E), Lilpickle_132 (E), MISSy_134 (E), MPhalcon_133 (E), MadamMonkfish_132 (E), Manda_133 (E), Marshmallow_133 (E), Maxxinista_134 (E), Mindy_135 (E), Misfit_132 (E), Mosby_129 (E), Murica_136 (E), Murphy_131 (E), Nala_134 (E), NelitzaMV_130 (E), Nimrod_132 (E), OrionPax_128 (E), Palpatine_132 (E), Petra64142_134 (E), Phaja_136 (E), PhatBacter_135 (E), Phaux_134 (E), Phrux_128 (E), Policronamos_133 (E), Pumpkin_132 (E), Rakim_133 (E), Rimmer_129 (E), RiverMonster_131 (E), Saints25_128 (E), Sassay_127 (E), ShamWow_132 (E), Simpliphy_131 (E), SirDuracell_135 (E), SophKB_130 (E), Sotrice96_137 (E), Stark_130 (E), TeardropMSU_133 (E), Terminus_135 (E), Thresher_134 (E), Tomaszewski_126 (E), Toto_130 (E), Traaww1_128 (E), Tuco_138 (E), Ukulele_127 (E), Wiggin_135 (E), YassJohnny_128 (E), Youngblood_136 (E),

Start 13:

- Found in 31 of 151 (20.5%) of genes in pham
- Manual Annotations of this start: 26 of 137
- Called 96.8% of time when present
- Phage (with cluster) where this start called: Ariel_233 (J), Bagrid_233 (J), Beem_228 (J), Bobby_207 (J), Bombitas_211 (J), Courthouse_230 (J), DmpstrDiver_226 (J), Dove_210 (J), Duke13_229 (J), EricMillard_223 (J), Halley_229 (J), Hannaconda_217 (J), HokkenD_217 (J), Hughesyang_227 (J), JuicyJay_221 (J), KashFlow_219 (J), Minerva_224 (J), Nekros_227 (J), NihilNomen_228 (J), Omega_228 (J), Phoebus_224 (J), Pound_216 (J), Rearden_225 (J), Schatzie_217 (J), Shaboozey_224 (J), SpeedDemon_1630 (DL), Squint_224 (J), Superphikiman_225 (J), ThreeRngTarjay_226 (J), Yeet_219 (J),

Start 15:

- Found in 24 of 151 (15.9%) of genes in pham
- No Manual Annotations of this start.
- Called 4.2% of time when present
- Phage (with cluster) where this start called: StormChicken_133 (E),

Start 16:

- Found in 24 of 151 (15.9%) of genes in pham
- Manual Annotations of this start: 2 of 137
- Called 8.3% of time when present
- Phage (with cluster) where this start called: NoSleep_131 (E), Porky_133 (E),

Summary by clusters:

There are 4 clusters represented in this pham: singleton, J, E, DL,

Info for manual annotations of cluster DL:

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

Info for manual annotations of cluster E:

- Start number 4 was manually annotated 21 times for cluster E.
- Start number 12 was manually annotated 87 times for cluster E.
- Start number 16 was manually annotated 2 times for cluster E.

Info for manual annotations of cluster J:

- Start number 13 was manually annotated 25 times for cluster J.

Gene Information:

Gene: 244_133 Start: 70573, Stop: 70115, Start Num: 12

Candidate Starts for 244_133:

(Start: 12 @70573 has 87 MA's), (17, 70534), (19, 70504), (30, 70354), (31, 70333), (32, 70327), (34, 70285), (37, 70213), (38, 70204), (39, 70192), (42, 70153), (44, 70129), (45, 70126),

Gene: ABCat_133 Start: 72121, Stop: 71663, Start Num: 12

Candidate Starts for ABCat_133:

(Start: 12 @72121 has 87 MA's), (17, 72082), (19, 72052), (30, 71902), (31, 71881), (32, 71875), (34, 71833), (37, 71761), (38, 71752), (39, 71740), (42, 71701), (44, 71677), (45, 71674),

Gene: Adnama_136 Start: 70869, Stop: 70321, Start Num: 4

Candidate Starts for Adnama_136:

(1, 70926), (2, 70920), (Start: 4 @70869 has 21 MA's), (10, 70797), (15, 70758), (Start: 16 @70755 has 2 MA's), (19, 70716), (30, 70566), (32, 70539), (37, 70419), (42, 70359), (44, 70335), (45, 70332),

Gene: Amao_136 Start: 71946, Stop: 71473, Start Num: 12

Candidate Starts for Amao_136:

(Start: 12 @71946 has 87 MA's), (19, 71877), (27, 71760), (30, 71727), (32, 71700), (42, 71508), (43, 71487), (44, 71484),

Gene: AmericanBeauty_135 Start: 70911, Stop: 70363, Start Num: 4

Candidate Starts for AmericanBeauty_135:

(1, 70968), (2, 70962), (Start: 4 @70911 has 21 MA's), (10, 70839), (15, 70800), (Start: 16 @70797 has 2 MA's), (19, 70758), (30, 70608), (32, 70581), (37, 70461), (42, 70401), (44, 70377), (45, 70374),

Gene: Argent26_136 Start: 70793, Stop: 70245, Start Num: 4

Candidate Starts for Argent26_136:

(1, 70850), (2, 70844), (Start: 4 @70793 has 21 MA's), (10, 70721), (15, 70682), (Start: 16 @70679 has 2 MA's), (19, 70640), (30, 70490), (32, 70463), (37, 70343), (42, 70283), (44, 70259), (45, 70256),

Gene: Ariel_233 Start: 105828, Stop: 105376, Start Num: 13

Candidate Starts for Ariel_233:

(9, 105840), (Start: 13 @105828 has 26 MA's), (19, 105762), (22, 105735), (28, 105636), (30, 105612), (32, 105585), (33, 105543), (37, 105471), (38, 105462), (42, 105411), (43, 105390), (44, 105387),

Gene: Asriel_129 Start: 69426, Stop: 68968, Start Num: 12

Candidate Starts for Asriel_129:

(Start: 12 @69426 has 87 MA's), (17, 69387), (19, 69357), (30, 69207), (31, 69186), (32, 69180), (34, 69138), (37, 69066), (38, 69057), (39, 69045), (42, 69006), (44, 68982), (45, 68979),

Gene: BaboJay_131 Start: 71740, Stop: 71282, Start Num: 12

Candidate Starts for BaboJay_131:

(Start: 12 @71740 has 87 MA's), (17, 71701), (19, 71671), (30, 71521), (31, 71500), (32, 71494), (34, 71452), (37, 71380), (38, 71371), (39, 71359), (42, 71320), (44, 71296), (45, 71293),

Gene: BadStone_133 Start: 71669, Stop: 71211, Start Num: 12

Candidate Starts for BadStone_133:

(Start: 12 @71669 has 87 MA's), (17, 71630), (19, 71600), (30, 71450), (31, 71429), (32, 71423), (34, 71381), (37, 71309), (38, 71300), (39, 71288), (42, 71249), (44, 71225), (45, 71222),

Gene: Bagrid_233 Start: 109850, Stop: 109392, Start Num: 13

Candidate Starts for Bagrid_233:

(9, 109862), (Start: 13 @109850 has 26 MA's), (19, 109784), (22, 109757), (28, 109658), (30, 109634), (31, 109613), (32, 109607), (37, 109487), (38, 109478), (41, 109430), (42, 109427), (43, 109406), (44, 109403),

Gene: Balomoji_132 Start: 71215, Stop: 70751, Start Num: 12

Candidate Starts for Balomoji_132:

(Start: 12 @71215 has 87 MA's), (17, 71176), (19, 71146), (30, 70996), (32, 70969), (37, 70849), (38, 70840), (39, 70828), (42, 70789), (44, 70765), (45, 70762),

Gene: Barbarian_132 Start: 69426, Stop: 68968, Start Num: 12

Candidate Starts for Barbarian_132:

(Start: 12 @69426 has 87 MA's), (17, 69387), (19, 69357), (30, 69207), (31, 69186), (32, 69180), (34, 69138), (37, 69066), (38, 69057), (39, 69045), (42, 69006), (44, 68982), (45, 68979),

Gene: Bask21_137 Start: 70592, Stop: 70134, Start Num: 12

Candidate Starts for Bask21_137:

(Start: 12 @70592 has 87 MA's), (17, 70553), (19, 70523), (30, 70373), (31, 70352), (32, 70346), (34, 70304), (37, 70232), (38, 70223), (39, 70211), (42, 70172), (44, 70148), (45, 70145),

Gene: Becksu_130 Start: 71393, Stop: 70935, Start Num: 12

Candidate Starts for Becksu_130:

(Start: 12 @71393 has 87 MA's), (17, 71354), (19, 71324), (30, 71174), (31, 71153), (32, 71147), (34, 71105), (37, 71033), (38, 71024), (39, 71012), (42, 70973), (44, 70949), (45, 70946),

Gene: Beem_228 Start: 108612, Stop: 108160, Start Num: 13

Candidate Starts for Beem_228:

(9, 108624), (Start: 13 @108612 has 26 MA's), (19, 108546), (22, 108519), (28, 108420), (30, 108396), (32, 108369), (33, 108327), (37, 108255), (38, 108246), (42, 108195), (43, 108174), (44, 108171),

Gene: Bench_134 Start: 71466, Stop: 71002, Start Num: 12

Candidate Starts for Bench_134:

(Start: 12 @71466 has 87 MA's), (17, 71427), (19, 71397), (30, 71247), (32, 71220), (37, 71100), (42, 71040), (44, 71016), (45, 71013),

Gene: BilboSwaggins_130 Start: 71706, Stop: 71248, Start Num: 12

Candidate Starts for BilboSwaggins_130:

(Start: 12 @71706 has 87 MA's), (17, 71667), (19, 71637), (30, 71487), (31, 71466), (32, 71460), (34, 71418), (37, 71346), (38, 71337), (39, 71325), (42, 71286), (44, 71262), (45, 71259),

Gene: Bobby_207 Start: 106620, Stop: 106168, Start Num: 13

Candidate Starts for Bobby_207:

(9, 106632), (Start: 13 @106620 has 26 MA's), (19, 106554), (22, 106527), (28, 106428), (30, 106404), (32, 106377), (33, 106335), (37, 106263), (38, 106254), (42, 106203), (43, 106182), (44, 106179),

Gene: Bombitas_211 Start: 105190, Stop: 104732, Start Num: 13

Candidate Starts for Bombitas_211:

(9, 105202), (Start: 13 @105190 has 26 MA's), (19, 105124), (22, 105097), (30, 104974), (31, 104953), (32, 104947), (37, 104827), (38, 104818), (42, 104767), (43, 104746),

Gene: Bruin_129 Start: 69850, Stop: 69392, Start Num: 12

Candidate Starts for Bruin_129:

(Start: 12 @69850 has 87 MA's), (17, 69811), (19, 69781), (30, 69631), (31, 69610), (32, 69604), (34, 69562), (37, 69490), (38, 69481), (39, 69469), (42, 69430), (44, 69406), (45, 69403),

Gene: BugsBunny_131 Start: 71165, Stop: 70707, Start Num: 12

Candidate Starts for BugsBunny_131:

(Start: 12 @71165 has 87 MA's), (17, 71126), (19, 71096), (30, 70946), (31, 70925), (32, 70919), (34, 70877), (37, 70805), (38, 70796), (39, 70784), (42, 70745), (44, 70721), (45, 70718),

Gene: Cactus_140 Start: 71263, Stop: 70799, Start Num: 12

Candidate Starts for Cactus_140:

(Start: 12 @71263 has 87 MA's), (17, 71224), (19, 71194), (30, 71044), (32, 71017), (37, 70897), (40, 70867), (42, 70837), (44, 70813), (45, 70810),

Gene: ChewyVIII_93 Start: 67567, Stop: 68139, Start Num: 5

Candidate Starts for ChewyVIII_93:

(3, 67540), (Start: 5 @67567 has 1 MA's), (6, 67573), (21, 67732), (24, 67771), (32, 67894), (35, 67966), (36, 67972), (46, 68125),

Gene: ChosenOne_133 Start: 70642, Stop: 70184, Start Num: 12

Candidate Starts for ChosenOne_133:

(Start: 12 @70642 has 87 MA's), (17, 70603), (19, 70573), (30, 70423), (31, 70402), (32, 70396), (34, 70354), (37, 70282), (39, 70261), (42, 70222), (44, 70198), (45, 70195),

Gene: ChotaBhai_136 Start: 71428, Stop: 70970, Start Num: 12

Candidate Starts for ChotaBhai_136:

(Start: 12 @71428 has 87 MA's), (17, 71389), (19, 71359), (30, 71209), (31, 71188), (32, 71182), (34, 71140), (37, 71068), (38, 71059), (39, 71047), (42, 71008), (44, 70984), (45, 70981),

Gene: Cjw1_130 Start: 71844, Stop: 71386, Start Num: 12

Candidate Starts for Cjw1_130:

(Start: 12 @71844 has 87 MA's), (17, 71805), (19, 71775), (30, 71625), (31, 71604), (32, 71598), (34, 71556), (37, 71484), (39, 71463), (42, 71424), (44, 71400), (45, 71397),

Gene: Command613_134 Start: 71208, Stop: 70744, Start Num: 12

Candidate Starts for Command613_134:

(Start: 12 @71208 has 87 MA's), (17, 71169), (19, 71139), (30, 70989), (32, 70962), (37, 70842), (38, 70833), (39, 70821), (42, 70782), (44, 70758), (45, 70755),

Gene: Contagion_128 Start: 70212, Stop: 69754, Start Num: 12

Candidate Starts for Contagion_128:

(Start: 12 @70212 has 87 MA's), (17, 70173), (19, 70143), (30, 69993), (31, 69972), (32, 69966), (34, 69924), (37, 69852), (38, 69843), (39, 69831), (42, 69792), (44, 69768), (45, 69765),

Gene: Cookies_133 Start: 71754, Stop: 71278, Start Num: 12

Candidate Starts for Cookies_133:

(Start: 12 @71754 has 87 MA's), (17, 71715), (19, 71685), (30, 71535), (32, 71508), (37, 71376), (42, 71316), (44, 71292), (45, 71289),

Gene: Courthouse_230 Start: 106688, Stop: 106236, Start Num: 13

Candidate Starts for Courthouse_230:

(9, 106700), (Start: 13 @106688 has 26 MA's), (19, 106622), (22, 106595), (28, 106496), (30, 106472), (32, 106445), (33, 106403), (37, 106331), (38, 106322), (42, 106271), (43, 106250), (44, 106247),

Gene: CrystalP_132 Start: 71706, Stop: 71248, Start Num: 12

Candidate Starts for CrystalP_132:

(Start: 12 @71706 has 87 MA's), (17, 71667), (19, 71637), (30, 71487), (31, 71466), (32, 71460), (34, 71418), (37, 71346), (38, 71337), (39, 71325), (42, 71286), (44, 71262), (45, 71259),

Gene: Daikon_134 Start: 70511, Stop: 70047, Start Num: 12

Candidate Starts for Daikon_134:

(Start: 12 @70511 has 87 MA's), (17, 70472), (19, 70442), (30, 70292), (32, 70265), (37, 70145), (38, 70136), (39, 70124), (42, 70085), (44, 70061), (45, 70058),

Gene: DmpstrDiver_226 Start: 107322, Stop: 106870, Start Num: 13

Candidate Starts for DmpstrDiver_226:

(9, 107334), (Start: 13 @107322 has 26 MA's), (19, 107256), (22, 107229), (28, 107130), (30, 107106), (32, 107079), (33, 107037), (37, 106965), (38, 106956), (42, 106905), (43, 106884), (44, 106881),

Gene: DoctorDiddles_130 Start: 70165, Stop: 69707, Start Num: 12

Candidate Starts for DoctorDiddles_130:

(Start: 12 @70165 has 87 MA's), (17, 70126), (19, 70096), (30, 69946), (31, 69925), (32, 69919), (34, 69877), (37, 69805), (38, 69796), (39, 69784), (42, 69745), (44, 69721), (45, 69718),

Gene: Dove_210 Start: 103730, Stop: 103272, Start Num: 13

Candidate Starts for Dove_210:

(9, 103742), (Start: 13 @103730 has 26 MA's), (19, 103664), (22, 103637), (28, 103538), (30, 103514), (32, 103487), (37, 103367), (38, 103358), (42, 103307), (43, 103286),

Gene: DrDrey_135 Start: 72902, Stop: 72444, Start Num: 12

Candidate Starts for DrDrey_135:

(Start: 12 @72902 has 87 MA's), (17, 72863), (19, 72833), (30, 72683), (31, 72662), (32, 72656), (34, 72614), (37, 72542), (38, 72533), (39, 72521), (42, 72482), (44, 72458), (45, 72455),

Gene: Duke13_229 Start: 108040, Stop: 107582, Start Num: 13

Candidate Starts for Duke13_229:

(9, 108052), (Start: 13 @108040 has 26 MA's), (19, 107974), (22, 107947), (28, 107848), (30, 107824), (31, 107803), (32, 107797), (37, 107677), (38, 107668), (41, 107620), (42, 107617), (43, 107596), (44, 107593),

Gene: Dumbo_133 Start: 70853, Stop: 70395, Start Num: 12

Candidate Starts for Dumbo_133:

(Start: 12 @70853 has 87 MA's), (17, 70814), (19, 70784), (30, 70634), (31, 70613), (32, 70607), (34, 70565), (37, 70493), (39, 70472), (42, 70433), (44, 70409), (45, 70406),

Gene: Dusk_133 Start: 71329, Stop: 70871, Start Num: 12

Candidate Starts for Dusk_133:

(Start: 12 @71329 has 87 MA's), (17, 71290), (19, 71260), (30, 71110), (31, 71089), (32, 71083), (34, 71041), (37, 70969), (38, 70960), (39, 70948), (42, 70909), (44, 70885), (45, 70882),

Gene: Easy2Say_133 Start: 71259, Stop: 70711, Start Num: 4

Candidate Starts for Easy2Say_133:

(1, 71316), (2, 71310), (Start: 4 @71259 has 21 MA's), (10, 71187), (15, 71148), (Start: 16 @71145 has 2 MA's), (19, 71106), (30, 70956), (32, 70929), (37, 70809), (42, 70749), (44, 70725), (45, 70722),

Gene: Elite2014_132 Start: 70641, Stop: 70183, Start Num: 12

Candidate Starts for Elite2014_132:

(Start: 12 @70641 has 87 MA's), (17, 70602), (19, 70572), (30, 70422), (31, 70401), (32, 70395), (34, 70353), (37, 70281), (39, 70260), (42, 70221), (44, 70197), (45, 70194),

Gene: Elph10_130 Start: 69960, Stop: 69496, Start Num: 12

Candidate Starts for Elph10_130:

(Start: 12 @69960 has 87 MA's), (17, 69921), (19, 69891), (30, 69741), (32, 69714), (37, 69594), (38, 69585), (39, 69573), (42, 69534), (44, 69510), (45, 69507),

Gene: Emmina_132 Start: 70211, Stop: 69663, Start Num: 4

Candidate Starts for Emmina_132:

(Start: 4 @70211 has 21 MA's), (15, 70100), (Start: 16 @70097 has 2 MA's), (19, 70058), (30, 69908), (32, 69881), (37, 69761), (40, 69731), (42, 69701), (44, 69677), (45, 69674),

Gene: EricMillard_223 Start: 108742, Stop: 108284, Start Num: 13

Candidate Starts for EricMillard_223:

(9, 108754), (Start: 13 @108742 has 26 MA's), (19, 108676), (22, 108649), (28, 108550), (30, 108526), (31, 108505), (32, 108499), (37, 108379), (38, 108370), (41, 108322), (42, 108319), (43, 108298), (44, 108295),

Gene: Eureka_131 Start: 71139, Stop: 70579, Start Num: 4

Candidate Starts for Eureka_131:

(1, 71196), (2, 71190), (Start: 4 @71139 has 21 MA's), (10, 71067), (15, 71028), (Start: 16 @71025 has 2 MA's), (19, 70986), (30, 70836), (31, 70815), (32, 70809), (37, 70677), (38, 70668), (39, 70656), (42, 70617), (44, 70593), (45, 70590),

Gene: FairyPath_131 Start: 71530, Stop: 71072, Start Num: 12

Candidate Starts for FairyPath_131:

(Start: 12 @71530 has 87 MA's), (17, 71491), (19, 71461), (30, 71311), (31, 71290), (32, 71284), (34, 71242), (37, 71170), (38, 71161), (39, 71149), (42, 71110), (44, 71086), (45, 71083),

Gene: Filch_134 Start: 70782, Stop: 70324, Start Num: 12

Candidate Starts for Filch_134:

(Start: 12 @70782 has 87 MA's), (17, 70743), (19, 70713), (30, 70563), (31, 70542), (32, 70536), (34, 70494), (37, 70422), (38, 70413), (39, 70401), (42, 70362), (44, 70338), (45, 70335),

Gene: FireRed_135 Start: 71291, Stop: 70833, Start Num: 12

Candidate Starts for FireRed_135:

(Start: 12 @71291 has 87 MA's), (19, 71222), (20, 71219), (30, 71072), (32, 71045), (34, 71003), (37, 70931), (38, 70922), (39, 70910), (42, 70871), (44, 70847), (45, 70844),

Gene: Flypotenuse_127 Start: 70080, Stop: 69622, Start Num: 12

Candidate Starts for Flypotenuse_127:

(Start: 12 @70080 has 87 MA's), (17, 70041), (19, 70011), (30, 69861), (31, 69840), (32, 69834), (34, 69792), (37, 69720), (38, 69711), (39, 69699), (42, 69660), (44, 69636), (45, 69633),

Gene: FoghornLeghorn_130 Start: 69730, Stop: 69272, Start Num: 12

Candidate Starts for FoghornLeghorn_130:

(Start: 12 @69730 has 87 MA's), (17, 69691), (19, 69661), (30, 69511), (31, 69490), (32, 69484), (34, 69442), (37, 69370), (38, 69361), (39, 69349), (42, 69310), (44, 69286), (45, 69283),

Gene: Gator_134 Start: 71620, Stop: 71162, Start Num: 12

Candidate Starts for Gator_134:

(Start: 12 @71620 has 87 MA's), (17, 71581), (19, 71551), (30, 71401), (31, 71380), (32, 71374), (34, 71332), (37, 71260), (38, 71251), (39, 71239), (42, 71200), (44, 71176), (45, 71173),

Gene: Gemini_137 Start: 71310, Stop: 70762, Start Num: 4

Candidate Starts for Gemini_137:

(1, 71367), (2, 71361), (Start: 4 @71310 has 21 MA's), (10, 71238), (15, 71199), (Start: 16 @71196 has 2 MA's), (19, 71157), (30, 71007), (32, 70980), (37, 70860), (42, 70800), (44, 70776), (45, 70773),

Gene: Glexan_136 Start: 71770, Stop: 71312, Start Num: 12

Candidate Starts for Glexan_136:

(Start: 12 @71770 has 87 MA's), (17, 71731), (19, 71701), (30, 71551), (31, 71530), (32, 71524), (34, 71482), (37, 71410), (38, 71401), (39, 71389), (42, 71350), (44, 71326), (45, 71323),

Gene: Goku_130 Start: 71448, Stop: 70888, Start Num: 4

Candidate Starts for Goku_130:

(1, 71505), (2, 71499), (Start: 4 @71448 has 21 MA's), (10, 71376), (15, 71337), (Start: 16 @71334 has 2 MA's), (19, 71295), (30, 71145), (31, 71124), (32, 71118), (37, 70986), (38, 70977), (39, 70965), (42, 70926), (44, 70902), (45, 70899),

Gene: GoldenSpark_136 Start: 70793, Stop: 70245, Start Num: 4

Candidate Starts for GoldenSpark_136:

(1, 70850), (2, 70844), (Start: 4 @70793 has 21 MA's), (10, 70721), (15, 70682), (Start: 16 @70679 has 2 MA's), (19, 70640), (30, 70490), (32, 70463), (37, 70343), (42, 70283), (44, 70259), (45, 70256),

Gene: Goldilocks_137 Start: 71389, Stop: 70841, Start Num: 4

Candidate Starts for Goldilocks_137:

(1, 71446), (2, 71440), (Start: 4 @71389 has 21 MA's), (10, 71317), (15, 71278), (Start: 16 @71275 has 2 MA's), (19, 71236), (30, 71086), (32, 71059), (37, 70939), (42, 70879), (44, 70855), (45, 70852),

Gene: Gonephishing_222 Start: 106099, Stop: 105629, Start Num: 9

Candidate Starts for Gonephishing_222:

(9, 106099), (Start: 13 @106087 has 26 MA's), (19, 106021), (22, 105994), (28, 105895), (30, 105871), (31, 105850), (32, 105844), (37, 105724), (38, 105715), (42, 105664), (43, 105643), (44, 105640),

Gene: GooberAzure_134 Start: 70793, Stop: 70245, Start Num: 4

Candidate Starts for GooberAzure_134:

(1, 70850), (2, 70844), (Start: 4 @70793 has 21 MA's), (10, 70721), (15, 70682), (Start: 16 @70679 has 2 MA's), (19, 70640), (30, 70490), (32, 70463), (37, 70343), (42, 70283), (44, 70259), (45, 70256),

Gene: Halley_229 Start: 107495, Stop: 107037, Start Num: 13

Candidate Starts for Halley_229:

(9, 107507), (Start: 13 @107495 has 26 MA's), (19, 107429), (22, 107402), (30, 107279), (31, 107258), (32, 107252), (37, 107132), (38, 107123), (42, 107072), (43, 107051), (44, 107048),

Gene: Hannaconda_217 Start: 107027, Stop: 106569, Start Num: 13

Candidate Starts for Hannaconda_217:

(8, 107078), (11, 107036), (Start: 13 @107027 has 26 MA's), (19, 106961), (22, 106934), (28, 106835), (30, 106811), (32, 106784), (37, 106664), (38, 106655), (42, 106604), (43, 106583),

Gene: Harella_138 Start: 72286, Stop: 71828, Start Num: 12

Candidate Starts for Harella_138:

(Start: 12 @72286 has 87 MA's), (17, 72247), (19, 72217), (30, 72067), (31, 72046), (32, 72040), (34, 71998), (37, 71926), (38, 71917), (39, 71905), (42, 71866), (44, 71842), (45, 71839),

Gene: Henry_134 Start: 71571, Stop: 71113, Start Num: 12

Candidate Starts for Henry_134:

(Start: 12 @71571 has 87 MA's), (17, 71532), (19, 71502), (30, 71352), (31, 71331), (32, 71325), (34, 71283), (37, 71211), (38, 71202), (39, 71190), (42, 71151), (44, 71127), (45, 71124),

Gene: Highbury_128 Start: 69055, Stop: 68591, Start Num: 12

Candidate Starts for Highbury_128:

(Start: 12 @69055 has 87 MA's), (17, 69016), (19, 68986), (30, 68836), (32, 68809), (37, 68689), (40, 68659), (42, 68629), (44, 68605), (45, 68602),

Gene: HokkenD_217 Start: 108333, Stop: 107881, Start Num: 13

Candidate Starts for HokkenD_217:

(9, 108345), (Start: 13 @108333 has 26 MA's), (19, 108267), (22, 108240), (28, 108141), (30, 108117), (32, 108090), (33, 108048), (37, 107976), (38, 107967), (42, 107916), (43, 107895), (44, 107892),

Gene: Holt_138 Start: 71715, Stop: 71239, Start Num: 12

Candidate Starts for Holt_138:

(Start: 12 @71715 has 87 MA's), (19, 71646), (20, 71643), (30, 71496), (32, 71469), (37, 71337), (42, 71277), (44, 71253), (45, 71250),

Gene: Hoonter_135 Start: 71202, Stop: 70738, Start Num: 12

Candidate Starts for Hoonter_135:

(Start: 12 @71202 has 87 MA's), (17, 71163), (19, 71133), (30, 70983), (32, 70956), (37, 70836), (40, 70806), (42, 70776), (44, 70752), (45, 70749),

Gene: Hokey_131 Start: 71209, Stop: 70751, Start Num: 12

Candidate Starts for Hokey_131:

(Start: 12 @71209 has 87 MA's), (17, 71170), (19, 71140), (30, 70990), (31, 70969), (32, 70963), (34, 70921), (37, 70849), (38, 70840), (39, 70828), (42, 70789), (44, 70765), (45, 70762),

Gene: HufflyPuff_134 Start: 71517, Stop: 71059, Start Num: 12

Candidate Starts for HufflyPuff_134:

(Start: 12 @71517 has 87 MA's), (19, 71448), (20, 71445), (30, 71298), (32, 71271), (34, 71229), (37, 71157), (38, 71148), (39, 71136), (42, 71097), (44, 71073), (45, 71070),

Gene: Hughesyang_227 Start: 108297, Stop: 107839, Start Num: 13

Candidate Starts for Hughesyang_227:

(9, 108309), (Start: 13 @108297 has 26 MA's), (19, 108231), (22, 108204), (28, 108105), (30, 108081), (31, 108060), (32, 108054), (37, 107934), (38, 107925), (41, 107877), (42, 107874), (43, 107853), (44, 107850),

Gene: IHOP_136 Start: 71145, Stop: 70687, Start Num: 12

Candidate Starts for IHOP_136:

(Start: 12 @71145 has 87 MA's), (17, 71106), (19, 71076), (30, 70926), (31, 70905), (32, 70899), (34, 70857), (37, 70785), (38, 70776), (39, 70764), (42, 70725), (44, 70701), (45, 70698),

Gene: Icee_137 Start: 71021, Stop: 70563, Start Num: 12

Candidate Starts for Icee_137:

(Start: 12 @71021 has 87 MA's), (17, 70982), (19, 70952), (30, 70802), (31, 70781), (32, 70775), (34, 70733), (37, 70661), (38, 70652), (39, 70640), (42, 70601), (44, 70577), (45, 70574),

Gene: Inca_131 Start: 69165, Stop: 68707, Start Num: 12

Candidate Starts for Inca_131:

(Start: 12 @69165 has 87 MA's), (17, 69126), (19, 69096), (30, 68946), (31, 68925), (32, 68919), (34, 68877), (37, 68805), (38, 68796), (39, 68784), (42, 68745), (44, 68721), (45, 68718),

Gene: JeTaime_130 Start: 70681, Stop: 70223, Start Num: 12

Candidate Starts for JeTaime_130:

(Start: 12 @70681 has 87 MA's), (17, 70642), (19, 70612), (30, 70462), (32, 70435), (34, 70393), (37, 70321), (38, 70312), (39, 70300), (42, 70261), (44, 70237), (45, 70234),

Gene: JuicyJay_221 Start: 108561, Stop: 108109, Start Num: 13

Candidate Starts for JuicyJay_221:

(9, 108573), (Start: 13 @108561 has 26 MA's), (19, 108495), (22, 108468), (28, 108369), (30, 108345), (32, 108318), (33, 108276), (37, 108204), (38, 108195), (42, 108144), (43, 108123), (44, 108120),

Gene: KashFlow_219 Start: 106921, Stop: 106463, Start Num: 13

Candidate Starts for KashFlow_219:

(8, 106972), (11, 106930), (Start: 13 @106921 has 26 MA's), (19, 106855), (22, 106828), (28, 106729), (30, 106705), (32, 106678), (37, 106558), (38, 106549), (42, 106498), (43, 106477),

Gene: Kimchi_137 Start: 71514, Stop: 70966, Start Num: 4

Candidate Starts for Kimchi_137:

(1, 71571), (2, 71565), (Start: 4 @71514 has 21 MA's), (10, 71442), (15, 71403), (Start: 16 @71400 has 2 MA's), (19, 71361), (30, 71211), (32, 71184), (37, 71064), (42, 71004), (44, 70980), (45, 70977),

Gene: Kostya_133 Start: 71247, Stop: 70789, Start Num: 12

Candidate Starts for Kostya_133:

(Start: 12 @71247 has 87 MA's), (17, 71208), (19, 71178), (30, 71028), (31, 71007), (32, 71001), (34, 70959), (37, 70887), (38, 70878), (39, 70866), (42, 70827), (44, 70803), (45, 70800),

Gene: Lilac_130 Start: 71659, Stop: 71183, Start Num: 12

Candidate Starts for Lilac_130:

(Start: 12 @71659 has 87 MA's), (17, 71620), (19, 71590), (30, 71440), (32, 71413), (37, 71281), (42, 71221), (44, 71197), (45, 71194),

Gene: Lilizi_132 Start: 71021, Stop: 70473, Start Num: 4

Candidate Starts for Lilizi_132:

(1, 71078), (2, 71072), (Start: 4 @71021 has 21 MA's), (10, 70949), (15, 70910), (Start: 16 @70907 has 2 MA's), (19, 70868), (30, 70718), (32, 70691), (37, 70571), (42, 70511), (44, 70487), (45, 70484),

Gene: Lilpickle_132 Start: 70641, Stop: 70183, Start Num: 12

Candidate Starts for Lilpickle_132:

(Start: 12 @70641 has 87 MA's), (17, 70602), (19, 70572), (30, 70422), (31, 70401), (32, 70395), (34, 70353), (37, 70281), (39, 70260), (42, 70221), (44, 70197), (45, 70194),

Gene: MISSy_134 Start: 71556, Stop: 71098, Start Num: 12

Candidate Starts for MISSy_134:

(Start: 12 @71556 has 87 MA's), (17, 71517), (19, 71487), (30, 71337), (31, 71316), (32, 71310), (34, 71268), (37, 71196), (38, 71187), (39, 71175), (42, 71136), (44, 71112), (45, 71109),

Gene: MPhalcon_133 Start: 70974, Stop: 70516, Start Num: 12

Candidate Starts for MPhalcon_133:

(Start: 12 @70974 has 87 MA's), (17, 70935), (19, 70905), (30, 70755), (31, 70734), (32, 70728), (34, 70686), (37, 70614), (38, 70605), (39, 70593), (42, 70554), (44, 70530), (45, 70527),

Gene: MadamMonkfish_132 Start: 70650, Stop: 70192, Start Num: 12

Candidate Starts for MadamMonkfish_132:

(Start: 12 @70650 has 87 MA's), (17, 70611), (19, 70581), (30, 70431), (31, 70410), (32, 70404), (34, 70362), (37, 70290), (38, 70281), (39, 70269), (42, 70230), (44, 70206), (45, 70203),

Gene: Manda_133 Start: 71091, Stop: 70615, Start Num: 12

Candidate Starts for Manda_133:

(Start: 12 @71091 has 87 MA's), (19, 71022), (20, 71019), (30, 70872), (32, 70845), (37, 70713), (42, 70653), (44, 70629), (45, 70626),

Gene: Marshmallow_133 Start: 71835, Stop: 71377, Start Num: 12

Candidate Starts for Marshmallow_133:

(Start: 12 @71835 has 87 MA's), (17, 71796), (19, 71766), (30, 71616), (31, 71595), (32, 71589), (34, 71547), (37, 71475), (38, 71466), (39, 71454), (42, 71415), (44, 71391), (45, 71388),

Gene: Maxxinista_134 Start: 70603, Stop: 70145, Start Num: 12

Candidate Starts for Maxxinista_134:

(Start: 12 @70603 has 87 MA's), (17, 70564), (19, 70534), (30, 70384), (31, 70363), (32, 70357), (34, 70315), (37, 70243), (38, 70234), (39, 70222), (42, 70183), (44, 70159), (45, 70156),

Gene: Mindy_135 Start: 70999, Stop: 70535, Start Num: 12

Candidate Starts for Mindy_135:

(Start: 12 @70999 has 87 MA's), (17, 70960), (19, 70930), (30, 70780), (32, 70753), (37, 70633), (38, 70624), (39, 70612), (42, 70573), (44, 70549), (45, 70546),

Gene: Minerva_224 Start: 105833, Stop: 105375, Start Num: 13

Candidate Starts for Minerva_224:

(9, 105845), (Start: 13 @105833 has 26 MA's), (19, 105767), (22, 105740), (30, 105617), (31, 105596), (32, 105590), (37, 105470), (38, 105461), (42, 105410), (43, 105389), (44, 105386),

Gene: Misfit_132 Start: 71848, Stop: 71390, Start Num: 12

Candidate Starts for Misfit_132:

(Start: 12 @71848 has 87 MA's), (17, 71809), (19, 71779), (30, 71629), (31, 71608), (32, 71602), (34, 71560), (37, 71488), (38, 71479), (39, 71467), (42, 71428), (44, 71404), (45, 71401),

Gene: Moldemort_134 Start: 70901, Stop: 70353, Start Num: 4

Candidate Starts for Moldemort_134:

(1, 70958), (2, 70952), (Start: 4 @70901 has 21 MA's), (10, 70829), (15, 70790), (Start: 16 @70787 has 2 MA's), (19, 70748), (30, 70598), (32, 70571), (37, 70451), (42, 70391), (44, 70367), (45, 70364),

Gene: Mosby_129 Start: 70212, Stop: 69754, Start Num: 12

Candidate Starts for Mosby_129:

(Start: 12 @70212 has 87 MA's), (17, 70173), (19, 70143), (30, 69993), (31, 69972), (32, 69966), (34, 69924), (37, 69852), (38, 69843), (39, 69831), (42, 69792), (44, 69768), (45, 69765),

Gene: Murica_136 Start: 72551, Stop: 72093, Start Num: 12

Candidate Starts for Murica_136:

(Start: 12 @72551 has 87 MA's), (19, 72482), (20, 72479), (30, 72332), (32, 72305), (34, 72263), (37, 72191), (38, 72182), (39, 72170), (42, 72131), (44, 72107), (45, 72104),

Gene: Murphy_131 Start: 70977, Stop: 70519, Start Num: 12

Candidate Starts for Murphy_131:

(Start: 12 @70977 has 87 MA's), (17, 70938), (19, 70908), (30, 70758), (31, 70737), (32, 70731), (34, 70689), (37, 70617), (38, 70608), (39, 70596), (42, 70557), (44, 70533), (45, 70530),

Gene: Nala_134 Start: 71263, Stop: 70805, Start Num: 12

Candidate Starts for Nala_134:

(Start: 12 @71263 has 87 MA's), (17, 71224), (19, 71194), (30, 71044), (31, 71023), (32, 71017), (34, 70975), (37, 70903), (39, 70882), (42, 70843), (44, 70819), (45, 70816),

Gene: Nekros_227 Start: 107688, Stop: 107230, Start Num: 13

Candidate Starts for Nekros_227:

(8, 107739), (11, 107697), (Start: 13 @107688 has 26 MA's), (19, 107622), (22, 107595), (28, 107496), (30, 107472), (32, 107445), (37, 107325), (38, 107316), (41, 107268), (42, 107265), (43, 107244), (44, 107241),

Gene: NelitzaMV_130 Start: 69306, Stop: 68842, Start Num: 12

Candidate Starts for NelitzaMV_130:

(Start: 12 @69306 has 87 MA's), (17, 69267), (19, 69237), (30, 69087), (32, 69060), (37, 68940), (38, 68931), (39, 68919), (42, 68880), (44, 68856), (45, 68853),

Gene: NihilNomen_228 Start: 106600, Stop: 106148, Start Num: 13

Candidate Starts for NihilNomen_228:

(9, 106612), (Start: 13 @106600 has 26 MA's), (19, 106534), (22, 106507), (28, 106408), (30, 106384), (32, 106357), (33, 106315), (37, 106243), (38, 106234), (42, 106183), (43, 106162), (44, 106159),

Gene: Nimrod_132 Start: 71762, Stop: 71304, Start Num: 12

Candidate Starts for Nimrod_132:

(Start: 12 @71762 has 87 MA's), (17, 71723), (19, 71693), (30, 71543), (31, 71522), (32, 71516), (34, 71474), (37, 71402), (38, 71393), (39, 71381), (42, 71342), (44, 71318), (45, 71315),

Gene: NoSleep_131 Start: 70046, Stop: 69612, Start Num: 16

Candidate Starts for NoSleep_131:

(1, 70217), (2, 70211), (Start: 4 @70160 has 21 MA's), (10, 70088), (15, 70049), (Start: 16 @70046 has 2 MA's), (19, 70007), (30, 69857), (32, 69830), (37, 69710), (38, 69701), (39, 69689), (42, 69650), (44, 69626), (45, 69623),

Gene: Omega_228 Start: 108207, Stop: 107749, Start Num: 13

Candidate Starts for Omega_228:

(8, 108258), (11, 108216), (Start: 13 @108207 has 26 MA's), (19, 108141), (22, 108114), (28, 108015), (30, 107991), (32, 107964), (37, 107844), (38, 107835), (42, 107784), (43, 107763), (44, 107760),

Gene: OrionPax_128 Start: 70208, Stop: 69750, Start Num: 12

Candidate Starts for OrionPax_128:

(Start: 12 @70208 has 87 MA's), (17, 70169), (19, 70139), (30, 69989), (31, 69968), (32, 69962), (34, 69920), (37, 69848), (38, 69839), (39, 69827), (42, 69788), (44, 69764), (45, 69761),

Gene: Palpatine_132 Start: 71768, Stop: 71310, Start Num: 12

Candidate Starts for Palpatine_132:

(Start: 12 @71768 has 87 MA's), (17, 71729), (19, 71699), (30, 71549), (31, 71528), (32, 71522), (34, 71480), (37, 71408), (38, 71399), (39, 71387), (42, 71348), (44, 71324), (45, 71321),

Gene: Pat3_131 Start: 70546, Stop: 69986, Start Num: 4

Candidate Starts for Pat3_131:

(1, 70603), (2, 70597), (Start: 4 @70546 has 21 MA's), (10, 70474), (15, 70435), (Start: 16 @70432 has 2 MA's), (19, 70393), (30, 70243), (31, 70222), (32, 70216), (37, 70084), (39, 70063), (42, 70024), (44, 70000), (45, 69997),

Gene: Petra64142_134 Start: 71392, Stop: 70934, Start Num: 12

Candidate Starts for Petra64142_134:

(Start: 12 @71392 has 87 MA's), (17, 71353), (19, 71323), (30, 71173), (31, 71152), (32, 71146), (34, 71104), (37, 71032), (38, 71023), (39, 71011), (42, 70972), (44, 70948), (45, 70945),

Gene: Phaja_136 Start: 71150, Stop: 70692, Start Num: 12

Candidate Starts for Phaja_136:

(Start: 12 @71150 has 87 MA's), (17, 71111), (19, 71081), (30, 70931), (31, 70910), (32, 70904), (34, 70862), (37, 70790), (38, 70781), (39, 70769), (42, 70730), (44, 70706), (45, 70703),

Gene: PhatBacter_135 Start: 71291, Stop: 70833, Start Num: 12

Candidate Starts for PhatBacter_135:

(Start: 12 @71291 has 87 MA's), (19, 71222), (20, 71219), (30, 71072), (32, 71045), (34, 71003), (37, 70931), (38, 70922), (39, 70910), (42, 70871), (44, 70847), (45, 70844),

Gene: Phaux_134 Start: 71917, Stop: 71459, Start Num: 12

Candidate Starts for Phaux_134:

(Start: 12 @71917 has 87 MA's), (19, 71848), (20, 71845), (30, 71698), (32, 71671), (34, 71629), (37, 71557), (38, 71548), (39, 71536), (42, 71497), (44, 71473), (45, 71470),

Gene: Phoebus_224 Start: 109850, Stop: 109398, Start Num: 13

Candidate Starts for Phoebus_224:

(9, 109862), (Start: 13 @109850 has 26 MA's), (19, 109784), (22, 109757), (28, 109658), (30, 109634), (32, 109607), (33, 109565), (37, 109493), (38, 109484), (42, 109433), (43, 109412), (44, 109409),

Gene: Phrux_128 Start: 69995, Stop: 69537, Start Num: 12

Candidate Starts for Phrux_128:

(Start: 12 @69995 has 87 MA's), (17, 69956), (19, 69926), (30, 69776), (31, 69755), (32, 69749), (34, 69707), (37, 69635), (38, 69626), (39, 69614), (42, 69575), (44, 69551), (45, 69548),

Gene: Policronamos_133 Start: 71621, Stop: 71163, Start Num: 12

Candidate Starts for Policronamos_133:

(Start: 12 @71621 has 87 MA's), (19, 71552), (20, 71549), (30, 71402), (32, 71375), (34, 71333), (37, 71261), (38, 71252), (39, 71240), (42, 71201), (44, 71177), (45, 71174),

Gene: Porky_133 Start: 71114, Stop: 70680, Start Num: 16

Candidate Starts for Porky_133:

(Start: 4 @71228 has 21 MA's), (15, 71117), (Start: 16 @71114 has 2 MA's), (19, 71075), (30, 70925), (32, 70898), (37, 70778), (40, 70748), (42, 70718), (44, 70694), (45, 70691),

Gene: Pound_216 Start: 106092, Stop: 105640, Start Num: 13

Candidate Starts for Pound_216:

(8, 106143), (Start: 13 @106092 has 26 MA's), (19, 106026), (22, 105999), (28, 105900), (30, 105876), (32, 105849), (33, 105807), (37, 105735), (38, 105726), (42, 105675), (43, 105654), (44, 105651),

Gene: Pumpkin_132 Start: 70271, Stop: 69813, Start Num: 12

Candidate Starts for Pumpkin_132:

(Start: 12 @70271 has 87 MA's), (17, 70232), (19, 70202), (30, 70052), (31, 70031), (32, 70025), (34, 69983), (37, 69911), (38, 69902), (39, 69890), (42, 69851), (44, 69827), (45, 69824),

Gene: Rakim_133 Start: 70829, Stop: 70365, Start Num: 12

Candidate Starts for Rakim_133:

(Start: 12 @70829 has 87 MA's), (17, 70790), (19, 70760), (30, 70610), (32, 70583), (37, 70463), (38, 70454), (39, 70442), (42, 70403), (44, 70379), (45, 70376),

Gene: Rearden_225 Start: 105244, Stop: 104786, Start Num: 13

Candidate Starts for Rearden_225:

(9, 105256), (Start: 13 @105244 has 26 MA's), (19, 105178), (22, 105151), (28, 105052), (30, 105028), (31, 105007), (32, 105001), (37, 104881), (38, 104872), (42, 104821), (43, 104800), (44, 104797),

Gene: Rimmer_129 Start: 70730, Stop: 70272, Start Num: 12

Candidate Starts for Rimmer_129:

(Start: 12 @70730 has 87 MA's), (17, 70691), (19, 70661), (30, 70511), (31, 70490), (32, 70484), (34, 70442), (37, 70370), (39, 70349), (42, 70310), (44, 70286), (45, 70283),

Gene: RiverMonster_131 Start: 70890, Stop: 70432, Start Num: 12

Candidate Starts for RiverMonster_131:

(Start: 12 @70890 has 87 MA's), (17, 70851), (19, 70821), (30, 70671), (31, 70650), (32, 70644), (34, 70602), (37, 70530), (38, 70521), (39, 70509), (42, 70470), (44, 70446), (45, 70443),

Gene: Saints25_128 Start: 69055, Stop: 68591, Start Num: 12

Candidate Starts for Saints25_128:

(Start: 12 @69055 has 87 MA's), (17, 69016), (19, 68986), (30, 68836), (32, 68809), (37, 68689), (40, 68659), (42, 68629), (44, 68605), (45, 68602),

Gene: Sassay_127 Start: 69174, Stop: 68716, Start Num: 12

Candidate Starts for Sassay_127:

(Start: 12 @69174 has 87 MA's), (17, 69135), (19, 69105), (30, 68955), (31, 68934), (32, 68928), (34, 68886), (37, 68814), (38, 68805), (39, 68793), (42, 68754), (44, 68730), (45, 68727),

Gene: Schatzie_217 Start: 106558, Stop: 106100, Start Num: 13

Candidate Starts for Schatzie_217:

(9, 106570), (Start: 13 @106558 has 26 MA's), (19, 106492), (22, 106465), (28, 106366), (30, 106342), (32, 106315), (37, 106195), (38, 106186), (42, 106135), (43, 106114),

Gene: Shaboozey_224 Start: 104253, Stop: 103795, Start Num: 13

Candidate Starts for Shaboozey_224:

(8, 104304), (11, 104262), (Start: 13 @104253 has 26 MA's), (19, 104187), (22, 104160), (28, 104061), (30, 104037), (32, 104010), (37, 103890), (38, 103881), (42, 103830), (43, 103809), (44, 103806),

Gene: ShamWow_132 Start: 71707, Stop: 71249, Start Num: 12

Candidate Starts for ShamWow_132:

(Start: 12 @71707 has 87 MA's), (17, 71668), (19, 71638), (30, 71488), (31, 71467), (32, 71461), (34, 71419), (37, 71347), (38, 71338), (39, 71326), (42, 71287), (44, 71263), (45, 71260),

Gene: Simpliphy_131 Start: 70461, Stop: 70003, Start Num: 12

Candidate Starts for Simpliphy_131:

(Start: 12 @70461 has 87 MA's), (17, 70422), (19, 70392), (30, 70242), (31, 70221), (32, 70215), (34, 70173), (37, 70101), (38, 70092), (39, 70080), (42, 70041), (44, 70017), (45, 70014),

Gene: SirDuracell_135 Start: 71323, Stop: 70847, Start Num: 12

Candidate Starts for SirDuracell_135:

(Start: 12 @71323 has 87 MA's), (19, 71254), (20, 71251), (30, 71104), (32, 71077), (37, 70945), (42, 70885), (44, 70861), (45, 70858),

Gene: SophKB_130 Start: 70806, Stop: 70348, Start Num: 12

Candidate Starts for SophKB_130:

(Start: 12 @70806 has 87 MA's), (17, 70767), (19, 70737), (30, 70587), (31, 70566), (32, 70560), (34, 70518), (37, 70446), (38, 70437), (39, 70425), (42, 70386), (44, 70362), (45, 70359),

Gene: Sotrice96_137 Start: 72007, Stop: 71543, Start Num: 12

Candidate Starts for Sotrice96_137:

(Start: 12 @72007 has 87 MA's), (17, 71968), (19, 71938), (30, 71788), (32, 71761), (37, 71641), (40, 71611), (42, 71581), (44, 71557), (45, 71554),

Gene: SpeedDemon_1630 Start: 91078, Stop: 90608, Start Num: 13

Candidate Starts for SpeedDemon_1630:

(Start: 13 @91078 has 26 MA's), (14, 91054), (18, 91030), (19, 91006), (23, 90958), (25, 90919), (26, 90898), (29, 90856), (36, 90742), (40, 90670),

Gene: Squint_224 Start: 105830, Stop: 105378, Start Num: 13

Candidate Starts for Squint_224:

(7, 105884), (Start: 13 @105830 has 26 MA's), (19, 105764), (22, 105737), (28, 105638), (30, 105614), (32, 105587), (33, 105545), (37, 105473), (38, 105464), (41, 105416), (42, 105413), (43, 105392), (44, 105389),

Gene: Stank_135 Start: 71586, Stop: 71038, Start Num: 4

Candidate Starts for Stank_135:

(1, 71643), (2, 71637), (Start: 4 @71586 has 21 MA's), (10, 71514), (15, 71475), (Start: 16 @71472 has 2 MA's), (19, 71433), (30, 71283), (32, 71256), (37, 71136), (42, 71076), (44, 71052), (45, 71049),

Gene: Stark_130 Start: 70709, Stop: 70251, Start Num: 12

Candidate Starts for Stark_130:

(Start: 12 @70709 has 87 MA's), (17, 70670), (19, 70640), (30, 70490), (31, 70469), (32, 70463), (34, 70421), (37, 70349), (39, 70328), (42, 70289), (44, 70265), (45, 70262),

Gene: StolenFromERC_134 Start: 70931, Stop: 70383, Start Num: 4

Candidate Starts for StolenFromERC_134:

(1, 70988), (2, 70982), (Start: 4 @70931 has 21 MA's), (10, 70859), (15, 70820), (Start: 16 @70817 has 2 MA's), (19, 70778), (30, 70628), (32, 70601), (37, 70481), (42, 70421), (44, 70397), (45, 70394),

Gene: StormChicken_133 Start: 71445, Stop: 71014, Start Num: 15

Candidate Starts for StormChicken_133:

(1, 71613), (2, 71607), (Start: 4 @71556 has 21 MA's), (10, 71484), (15, 71445), (Start: 16 @71442 has 2 MA's), (19, 71403), (30, 71253), (31, 71232), (32, 71226), (34, 71184), (37, 71112), (38, 71103), (39, 71091), (42, 71052), (44, 71028), (45, 71025),

Gene: Superphikiman_225 Start: 105649, Stop: 105197, Start Num: 13

Candidate Starts for Superphikiman_225:

(7, 105703), (Start: 13 @105649 has 26 MA's), (19, 105583), (22, 105556), (28, 105457), (30, 105433), (32, 105406), (33, 105364), (37, 105292), (38, 105283), (42, 105232), (43, 105211), (44, 105208),

Gene: TBrady12_136 Start: 71023, Stop: 70475, Start Num: 4

Candidate Starts for TBrady12_136:

(1, 71080), (2, 71074), (Start: 4 @71023 has 21 MA's), (10, 70951), (15, 70912), (Start: 16 @70909 has 2 MA's), (19, 70870), (30, 70720), (32, 70693), (37, 70573), (40, 70543), (42, 70513), (44, 70489), (45, 70486),

Gene: Tarkin_130 Start: 71598, Stop: 71056, Start Num: 4

Candidate Starts for Tarkin_130:

(1, 71655), (2, 71649), (Start: 4 @71598 has 21 MA's), (10, 71526), (15, 71487), (Start: 16 @71484 has 2 MA's), (19, 71445), (30, 71295), (31, 71274), (32, 71268), (34, 71226), (37, 71154), (39, 71133), (42, 71094), (44, 71070), (45, 71067),

Gene: TeardropMSU_133 Start: 70875, Stop: 70417, Start Num: 12

Candidate Starts for TeardropMSU_133:

(Start: 12 @70875 has 87 MA's), (17, 70836), (19, 70806), (30, 70656), (31, 70635), (32, 70629), (34, 70587), (37, 70515), (38, 70506), (39, 70494), (42, 70455), (44, 70431), (45, 70428),

Gene: Terminus_135 Start: 71848, Stop: 71390, Start Num: 12

Candidate Starts for Terminus_135:

(Start: 12 @71848 has 87 MA's), (17, 71809), (19, 71779), (30, 71629), (31, 71608), (32, 71602), (34, 71560), (37, 71488), (38, 71479), (39, 71467), (42, 71428), (44, 71404), (45, 71401),

Gene: ThreeRngTarjay_226 Start: 109071, Stop: 108619, Start Num: 13

Candidate Starts for ThreeRngTarjay_226:

(9, 109083), (Start: 13 @109071 has 26 MA's), (19, 109005), (22, 108978), (28, 108879), (30, 108855), (31, 108834), (32, 108828), (33, 108786), (37, 108714), (38, 108705), (42, 108654), (43, 108633), (44, 108630),

Gene: Thresher_134 Start: 71775, Stop: 71311, Start Num: 12

Candidate Starts for Thresher_134:

(Start: 12 @71775 has 87 MA's), (17, 71736), (19, 71706), (30, 71556), (32, 71529), (37, 71409), (38, 71400), (39, 71388), (42, 71349), (44, 71325), (45, 71322),

Gene: Tomaszewski_126 Start: 70386, Stop: 69928, Start Num: 12

Candidate Starts for Tomaszewski_126:

(Start: 12 @70386 has 87 MA's), (17, 70347), (19, 70317), (30, 70167), (31, 70146), (32, 70140), (34, 70098), (37, 70026), (38, 70017), (39, 70005), (42, 69966), (44, 69942), (45, 69939),

Gene: Toto_130 Start: 71707, Stop: 71249, Start Num: 12

Candidate Starts for Toto_130:

(Start: 12 @71707 has 87 MA's), (17, 71668), (19, 71638), (30, 71488), (31, 71467), (32, 71461), (34, 71419), (37, 71347), (38, 71338), (39, 71326), (42, 71287), (44, 71263), (45, 71260),

Gene: Traaww1_128 Start: 70255, Stop: 69797, Start Num: 12

Candidate Starts for Traaww1_128:

(Start: 12 @70255 has 87 MA's), (17, 70216), (19, 70186), (30, 70036), (31, 70015), (32, 70009), (34, 69967), (37, 69895), (38, 69886), (39, 69874), (42, 69835), (44, 69811), (45, 69808),

Gene: Tuco_138 Start: 72934, Stop: 72476, Start Num: 12

Candidate Starts for Tuco_138:

(Start: 12 @72934 has 87 MA's), (17, 72895), (19, 72865), (30, 72715), (31, 72694), (32, 72688), (34, 72646), (37, 72574), (38, 72565), (39, 72553), (42, 72514), (44, 72490), (45, 72487),

Gene: Ukulele_127 Start: 70270, Stop: 69812, Start Num: 12

Candidate Starts for Ukulele_127:

(Start: 12 @70270 has 87 MA's), (17, 70231), (19, 70201), (30, 70051), (31, 70030), (32, 70024), (34, 69982), (37, 69910), (38, 69901), (39, 69889), (42, 69850), (44, 69826), (45, 69823),

Gene: Wiggin_135 Start: 70932, Stop: 70468, Start Num: 12

Candidate Starts for Wiggin_135:

(Start: 12 @70932 has 87 MA's), (17, 70893), (19, 70863), (30, 70713), (32, 70686), (37, 70566), (40, 70536), (42, 70506), (44, 70482), (45, 70479),

Gene: Willez_128 Start: 69661, Stop: 69101, Start Num: 4

Candidate Starts for Willez_128:

(1, 69718), (2, 69712), (Start: 4 @69661 has 21 MA's), (10, 69589), (15, 69550), (Start: 16 @69547 has 2 MA's), (19, 69508), (20, 69505), (30, 69358), (32, 69331), (37, 69199), (42, 69139), (44, 69115), (45, 69112),

Gene: Xandras_132 Start: 70840, Stop: 70292, Start Num: 4

Candidate Starts for Xandras_132:

(1, 70897), (2, 70891), (Start: 4 @70840 has 21 MA's), (10, 70768), (15, 70729), (Start: 16 @70726 has 2 MA's), (19, 70687), (30, 70537), (32, 70510), (37, 70390), (42, 70330), (44, 70306), (45, 70303),

Gene: YassJohnny_128 Start: 69195, Stop: 68737, Start Num: 12

Candidate Starts for YassJohnny_128:

(Start: 12 @69195 has 87 MA's), (19, 69126), (20, 69123), (30, 68976), (32, 68949), (34, 68907), (37, 68835), (38, 68826), (39, 68814), (42, 68775), (44, 68751), (45, 68748),

Gene: Yeet_219 Start: 106651, Stop: 106199, Start Num: 13

Candidate Starts for Yeet_219:

(9, 106663), (Start: 13 @106651 has 26 MA's), (19, 106585), (22, 106558), (28, 106459), (30, 106435), (32, 106408), (33, 106366), (37, 106294), (38, 106285), (42, 106234), (43, 106213),

Gene: Youngblood_136 Start: 71345, Stop: 70887, Start Num: 12

Candidate Starts for Youngblood_136:

(Start: 12 @71345 has 87 MA's), (17, 71306), (19, 71276), (30, 71126), (31, 71105), (32, 71099), (34, 71057), (37, 70985), (38, 70976), (39, 70964), (42, 70925), (44, 70901), (45, 70898),