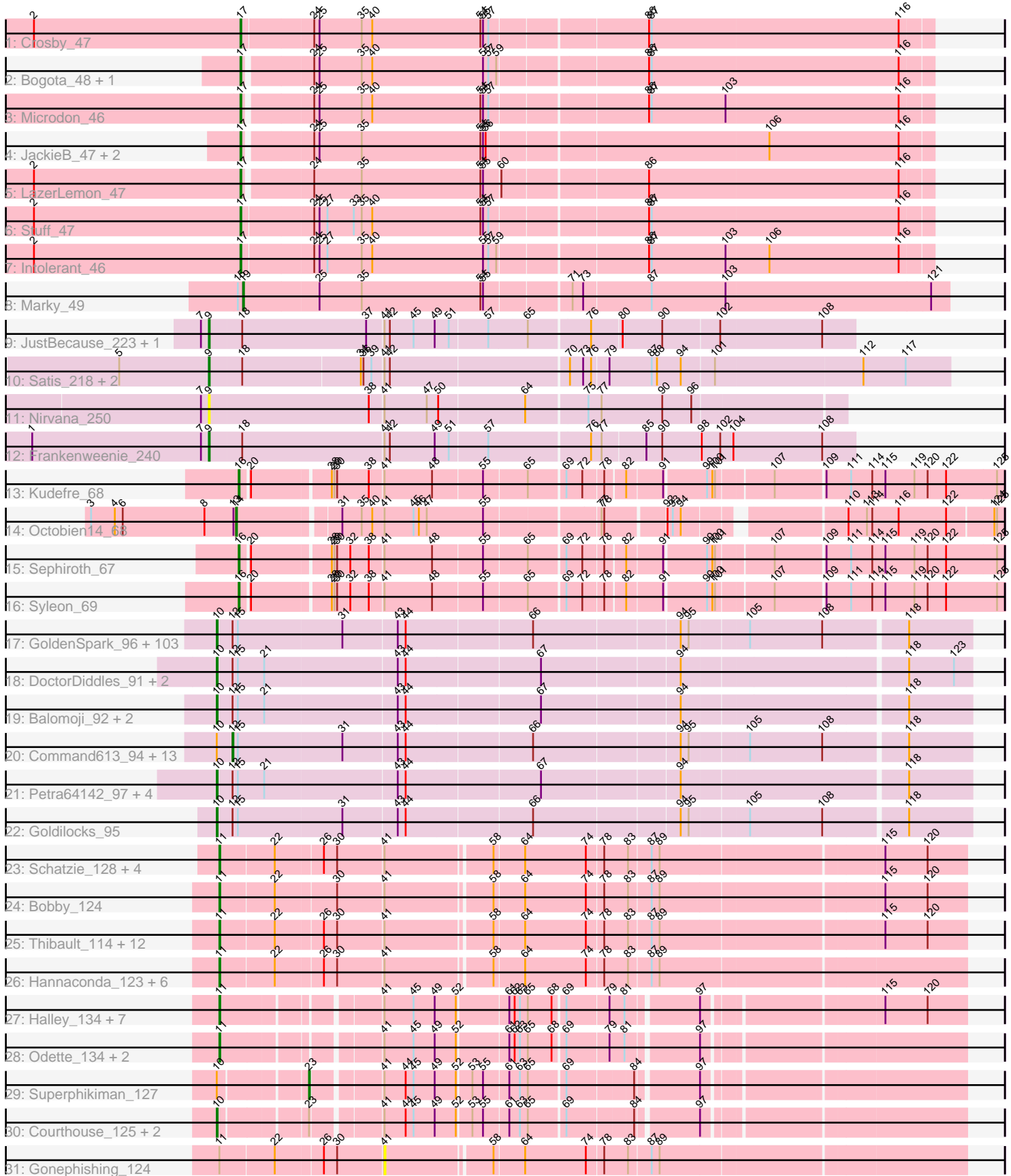


Pham 171217



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 171217 Report

This analysis was run 07/10/24 on database version 566.

Pham number 171217 has 194 members, 12 are drafts.

Phages represented in each track:

- Track 1 : Crosby_47
- Track 2 : Bogota_48, UNTPL_49
- Track 3 : Microdon_46
- Track 4 : JackieB_47, Araceli_47, Henoccus_47
- Track 5 : LazerLemon_47
- Track 6 : Stuff_47
- Track 7 : Intolerant_46
- Track 8 : Marky_49
- Track 9 : JustBecause_223, Kela_221
- Track 10 : Satis_218, EhyElimayoE_221, Kradal_220
- Track 11 : Nirvana_250
- Track 12 : Frankenweenie_240
- Track 13 : Kudefre_68
- Track 14 : Octobien14_68
- Track 15 : Sephiroth_67
- Track 16 : Syleon_69
- Track 17 : GoldenSpark_96, Terminus_95, HanKaySha_93, Willez_87, Hopey_93, Adnama_96, Traaww1_88, BigBubba_92, FireRed_96, Porky_91, Thresher_95, IHOP_90, Bench_95, Tuco_93, MPhalcon_93, Icee_93, Harella_92, Dumbo_92, BugsBunny_92, Filch_94, Qualification_93, Rakim_93, Palpatine_94, ShereKhan_90, Pharsalus_89, Ukulele_87, Marshmallow_90, Highbury_91, YassJohnny_89, Czyszczonek_93, Lilpickle_91, Stark_94, CrystalP_91, 244_93, Misfit_93, Mindy_91, Myrale_92, Amao_92, Manda_94, Teaspoon_93, NelitzaMV_90, Nimrod_93, Pumpkin_96, MadamMonkfish_92, StellaBean_90, Moldemort_95, Cactus_95, ShamWow_92, ChosenOne_92, Easy2Say_93, TeardropMSU_88, Hoonter_95, Sassay_87, Policronamos_96, Wiggin_94, Henry_90, SirDuracell_92, Emmina_92, Sotrice96_93, BaboJay_92, Simpliphy_91, RiverMonster_93, Goku_91, SophKB_89, Kanye_89, Argent26_96, Inca_89, Elite2014_91, BadStone_89, Murphy_92, BilboSwaggins_91, Contagion_88, Holt_97, Xandras_91, GooberAzure_95, Paperbeatsrock_91, NoSleep_93, Youngblood_95, Saints25_91, Stank_94, JeTaime_93, Asriel_90, Flypotenuse_88, Barbarian_91, MISSy_93, Gemini_97, StolenFromERC_95, DrDrey_92, Toto_90, TBrady12_95, Bruin_89, Tomaszewski_87, Lilizi_93, Miniwave_87, OrionPax_91, xkcd_95, Phaux_95, Phaja_90, Tarkin_91, Kimchi_96, Elph10_93, Phrux_90, Gage_94, Glexan_91
- Track 18 : DoctorDiddles_91, Bask21_92, ChotaBhai_92
- Track 19 : Balomoji_92, Gator_90, Cookies_89

- Track 20 : Command613_94, Mosby_88, Dusk_89, Maxxinista_95, AmericanBeauty_99, Cjw1_93, Eureka_91, Kostya_92, Murica_95, Lilac_95, Nala_94, ABCat_89, PhatBacter_96, HufflyPuff_94
- Track 21 : Petra64142_97, Buck_93, Daikon_93, Rimmer_90, Pat3_89
- Track 22 : Goldilocks_95
- Track 23 : Schatzie_128, Pound_121, DmpstrDiver_132, Kalah2_123, Optimus_123
- Track 24 : Bobby_124
- Track 25 : Thibault_114, Constella_122, JuicyJay_129, Bombitas_120, Hughesyang_132, ThreeRngTarjay_128, NihilNomen_134, Minerva_131, Phoebus_133, Beem_134, Duke13_127, Zelink_127, Wanda_131
- Track 26 : Hannaconda_123, Porcelain_128, Lucky2013_125, Ariel_130, LittleE_133, Omega_140, MiaZeal_130
- Track 27 : Halley_134, Redno2_124, Dallas_133, Dove_125, EricMillard_124, BAKA_132, Ejimix_126, Klein_129
- Track 28 : Odette_134, Yeet_124, HokkenD_122
- Track 29 : Superphikiman_127
- Track 30 : Courthouse_125, KashFlow_128, Squint_128
- Track 31 : Gonephishing_124

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

The start number called the most often in the published annotations is 10, it was called in 112 of the 182 non-draft genes in the pham.

Genes that call this "Most Annotated" start:

- 244_93, Adnama_96, Amao_92, Argent26_96, Asriel_90, BaboJay_92, BadStone_89, Balomoji_92, Barbarian_91, Bask21_92, Bench_95, BigBubba_92, BilboSwaggins_91, Bruin_89, Buck_93, BugsBunny_92, Cactus_95, ChosenOne_92, ChotaBhai_92, Contagion_88, Cookies_89, Courthouse_125, CrystalP_91, Czyszczon1_93, Daikon_93, DoctorDiddles_91, DrDrey_92, Dumbo_92, Easy2Say_93, Elite2014_91, Elph10_93, Emmina_92, Filch_94, FireRed_96, Flypotenuse_88, Gage_94, Gator_90, Gemini_97, Glexan_91, Goku_91, GoldenSpark_96, Goldilocks_95, GooberAzure_95, HanKaySha_93, Harella_92, Henry_90, Highbury_91, Holt_97, Hoonter_95, Hopey_93, IHOP_90, Icee_93, Inca_89, JeTaime_93, Kanye_89, KashFlow_128, Kimchi_96, Lilizi_93, Lilpickle_91, MISSy_93, MPhalcon_93, MadamMonkfish_92, Manda_94, Marshmallow_90, Mindy_91, Miniwave_87, Misfit_93, Moldemort_95, Murphy_92, Myrale_92, NelitzaMV_90, Nimrod_93, NoSleep_93, OrionPax_91, Palpatine_94, Paperbeatsrock_91, Pat3_89, Petra64142_97, Phaja_90, Pharsalus_89, Phaux_95, Phrux_90, Policronamos_96, Porky_91, Pumpkin_96, Quallification_93, Rakim_93, Rimmer_90, RiverMonster_93, Saints25_91, Sassay_87, ShamWow_92, ShereKhan_90, Simpliphy_91, SirDuracell_92, SophKB_89, Sotrice96_93, Squint_128, Stank_94, Stark_94, StellaBean_90, StolenFromERC_95, TBrady12_95, Tarkin_91, TeardropMSU_88, Teaspoon_93, Terminus_95, Thresher_95, Tomaszewski_87, Toto_90, Traaww1_88, Tuco_93, Ukulele_87, Wiggin_94, Willez_87, Xandras_91, YassJohnny_89, Youngblood_95, xkcd_95,

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

- ABCat_89, AmericanBeauty_99, Cjw1_93, Command613_94, Dusk_89, Eureka_91, HufflyPuff_94, Kostya_92, Lilac_95, Maxxinista_95, Mosby_88, Murica_95, Nala_94,

PhatBacter_96, Superphikiman_127,

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

- Araceli_47, Ariel_130, BAKA_132, Beem_134, Bobby_124, Bogota_48, Bombitas_120, Constella_122, Crosby_47, Dallas_133, DmpstrDiver_132, Dove_125, Duke13_127, EhyElimayoE_221, Ejimix_126, EricMillard_124, Frankenweenie_240, Gonephishing_124, Halley_134, Hannaconda_123, Henoccus_47, HokkenD_122, Hughesyang_132, Intolerant_46, JackieB_47, JuicyJay_129, JustBecause_223, Kalah2_123, Kela_221, Klein_129, Kradal_220, Kudrefre_68, LazerLemon_47, LittleE_133, Lucky2013_125, Marky_49, MiaZeal_130, Microdon_46, Minerva_131, NihilNomen_134, Nirvana_250, Octobien14_68, Odette_134, Omega_140, Optimus_123, Phoebus_133, Porcelain_128, Pound_121, Redno2_124, Satis_218, Schatzie_128, Sephiroth_67, Stuff_47, Syleon_69, Thibault_114, ThreeRngTarjay_128, UNTPL_49, Wanda_131, Yeet_124, Zelink_127,

Summary by start number:

Start 9:

- Found in 7 of 194 (3.6%) of genes in pham
- Manual Annotations of this start: 6 of 182
- Called 100.0% of time when present
- Phage (with cluster) where this start called: EhyElimayoE_221 (BM), Frankenweenie_240 (BM), JustBecause_223 (BM), Kela_221 (BM), Kradal_220 (BM), Nirvana_250 (BM), Satis_218 (BM),

Start 10:

- Found in 134 of 194 (69.1%) of genes in pham
- Manual Annotations of this start: 112 of 182
- Called 88.8% of time when present
- Phage (with cluster) where this start called: 244_93 (E), Adnama_96 (E), Amao_92 (E), Argent26_96 (E), Asriel_90 (E), BaboJay_92 (E), BadStone_89 (E), Balomoji_92 (E), Barbarian_91 (E), Bask21_92 (E), Bench_95 (E), BigBubba_92 (E), BilboSwaggins_91 (E), Bruin_89 (E), Buck_93 (E), BugsBunny_92 (E), Cactus_95 (E), ChosenOne_92 (E), ChotaBhai_92 (E), Contagion_88 (E), Cookies_89 (E), Courthouse_125 (J), CrystalP_91 (E), Czyszczonek_93 (E), Daikon_93 (E), DoctorDiddles_91 (E), DrDrey_92 (E), Dumbo_92 (E), Easy2Say_93 (E), Elite2014_91 (E), Elph10_93 (E), Emmina_92 (E), Filch_94 (E), FireRed_96 (E), Flypotenuse_88 (E), Gage_94 (E), Gator_90 (E), Gemini_97 (E), Glexan_91 (E), Goku_91 (E), GoldenSpark_96 (E), Goldilocks_95 (E), GooberAzure_95 (E), HanKaySha_93 (E), Harella_92 (E), Henry_90 (E), Highbury_91 (E), Holt_97 (E), Hoonter_95 (E), Hopey_93 (E), IHOP_90 (E), Icee_93 (E), Inca_89 (E), JeTaime_93 (E), Kanye_89 (E), KashFlow_128 (J), Kimchi_96 (E), Lilizi_93 (E), Lilpickle_91 (E), MISSy_93 (E), MPhalcon_93 (E), MadamMonkfish_92 (E), Manda_94 (E), Marshmallow_90 (E), Mindy_91 (E), Miniwave_87 (E), Misfit_93 (E), Moldemort_95 (E), Murphy_92 (E), Myrale_92 (E), NelitzaMV_90 (E), Nimrod_93 (E), NoSleep_93 (E), OrionPax_91 (E), Palpatine_94 (E), Paperbeatsrock_91 (E), Pat3_89 (E), Petra64142_97 (E), Phaja_90 (E), Pharsalus_89 (E), Phaux_95 (E), Phrux_90 (E), Policronamos_96 (E), Porky_91 (E), Pumpkin_96 (E), Quallification_93 (E), Rakim_93 (E), Rimmer_90 (E), RiverMonster_93 (E), Saints25_91 (E), Sassay_87 (E), ShamWow_92 (E), ShereKhan_90 (E), Simpliphy_91 (E), SirDuracell_92 (E), SophKB_89 (E), Sotrice96_93 (E), Squint_128 (J), Stank_94 (E), Stark_94 (E), StellaBean_90 (E), StolenFromERC_95 (E), TBrady12_95 (E), Tarkin_91 (E), TeardropMSU_88 (E), Teaspoon_93 (E), Terminus_95 (E), Thresher_95 (E),

Tomaszewski_87 (E), Toto_90 (E), Traaww1_88 (E), Tuco_93 (E), Ukulele_87 (E), Wiggin_94 (E), Willez_87 (E), Xandras_91 (E), YassJohnny_89 (E), Youngblood_95 (E), xkcd_95 (E),

Start 11:

- Found in 38 of 194 (19.6%) of genes in pham
- Manual Annotations of this start: 35 of 182
- Called 97.4% of time when present
- Phage (with cluster) where this start called: Ariel_130 (J), BAKA_132 (J), Beem_134 (J), Bobby_124 (J), Bombitas_120 (J), Constella_122 (J), Dallas_133 (J), DmpstrDiver_132 (J), Dove_125 (J), Duke13_127 (J), Ejimix_126 (J), EricMillard_124 (J), Halley_134 (J), Hannaconda_123 (J), HokkenD_122 (J), Hughesyang_132 (J), JuicyJay_129 (J), Kalah2_123 (J), Klein_129 (J), LittleE_133 (J), Lucky2013_125 (J), MiaZeal_130 (J), Minerva_131 (J), NihilNomen_134 (J), Odette_134 (J), Omega_140 (J), Optimus_123 (J), Phoebus_133 (J), Porcelain_128 (J), Pound_121 (J), Redno2_124 (J), Schatzie_128 (J), Thibault_114 (J), ThreeRngTarjay_128 (J), Wanda_131 (J), Yeet_124 (J), Zelink_127 (J),

Start 12:

- Found in 130 of 194 (67.0%) of genes in pham
- Manual Annotations of this start: 13 of 182
- Called 10.8% of time when present
- Phage (with cluster) where this start called: ABCat_89 (E), AmericanBeauty_99 (E), Cjw1_93 (E), Command613_94 (E), Dusk_89 (E), Eureka_91 (E), HufflyPuff_94 (E), Kostya_92 (E), Lilac_95 (E), Maxxinista_95 (E), Mosby_88 (E), Murica_95 (E), Nala_94 (E), PhatBacter_96 (E),

Start 14:

- Found in 1 of 194 (0.5%) of genes in pham
- Manual Annotations of this start: 1 of 182
- Called 100.0% of time when present
- Phage (with cluster) where this start called: Octobien14_68 (DU1),

Start 16:

- Found in 3 of 194 (1.5%) of genes in pham
- Manual Annotations of this start: 3 of 182
- Called 100.0% of time when present
- Phage (with cluster) where this start called: Kudrefre_68 (DU1), Sephiroth_67 (DU1), Syleon_69 (DU1),

Start 17:

- Found in 10 of 194 (5.2%) of genes in pham
- Manual Annotations of this start: 10 of 182
- Called 100.0% of time when present
- Phage (with cluster) where this start called: Araceli_47 (BH), Bogota_48 (BH), Crosby_47 (BH), Henoccus_47 (BH), Intolerant_46 (BH), JackieB_47 (BH), LazerLemon_47 (BH), Microdon_46 (BH), Stuff_47 (BH), UNTPL_49 (BH),

Start 19:

- Found in 1 of 194 (0.5%) of genes in pham
- Manual Annotations of this start: 1 of 182
- Called 100.0% of time when present
- Phage (with cluster) where this start called: Marky_49 (BH),

Start 23:

- Found in 4 of 194 (2.1%) of genes in pham
- Manual Annotations of this start: 1 of 182
- Called 25.0% of time when present
- Phage (with cluster) where this start called: Superphikiman_127 (J),

Start 41:

- Found in 53 of 194 (27.3%) of genes in pham
- No Manual Annotations of this start.
- Called 1.9% of time when present
- Phage (with cluster) where this start called: Gonephishing_124 (J),

Summary by clusters:

There are 5 clusters represented in this pham: BM, J, E, BH, DU1,

Info for manual annotations of cluster BH:

- Start number 17 was manually annotated 10 times for cluster BH.
- Start number 19 was manually annotated 1 time for cluster BH.

Info for manual annotations of cluster BM:

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

Info for manual annotations of cluster DU1:

- Start number 14 was manually annotated 1 time for cluster DU1.
- Start number 16 was manually annotated 3 times for cluster DU1.

Info for manual annotations of cluster E:

- Start number 10 was manually annotated 109 times for cluster E.
- Start number 12 was manually annotated 13 times for cluster E.

Info for manual annotations of cluster J:

- Start number 10 was manually annotated 3 times for cluster J.
- Start number 11 was manually annotated 35 times for cluster J.
- Start number 23 was manually annotated 1 time for cluster J.

Gene Information:

Gene: 244_93 Start: 55622, Stop: 56443, Start Num: 10

Candidate Starts for 244_93:

(Start: 10 @55622 has 112 MA's), (Start: 12 @55640 has 13 MA's), (15, 55646), (31, 55763), (43, 55823), (44, 55832), (66, 55970), (94, 56129), (95, 56138), (105, 56201), (108, 56282), (118, 56372),

Gene: ABCat_89 Start: 56328, Stop: 57131, Start Num: 12

Candidate Starts for ABCat_89:

(Start: 10 @56310 has 112 MA's), (Start: 12 @56328 has 13 MA's), (15, 56334), (31, 56451), (43, 56511), (44, 56520), (66, 56658), (94, 56817), (95, 56826), (105, 56889), (108, 56970), (118, 57060),

Gene: Adnama_96 Start: 55918, Stop: 56739, Start Num: 10

Candidate Starts for Adnama_96:

(Start: 10 @55918 has 112 MA's), (Start: 12 @55936 has 13 MA's), (15, 55942), (31, 56059), (43, 56119), (44, 56128), (66, 56266), (94, 56425), (95, 56434), (105, 56497), (108, 56578), (118, 56668),

Gene: Amao_92 Start: 55430, Stop: 56251, Start Num: 10

Candidate Starts for Amao_92:

(Start: 10 @55430 has 112 MA's), (Start: 12 @55448 has 13 MA's), (15, 55454), (31, 55571), (43, 55631), (44, 55640), (66, 55778), (94, 55937), (95, 55946), (105, 56009), (108, 56090), (118, 56180),

Gene: AmericanBeauty_99 Start: 56497, Stop: 57300, Start Num: 12

Candidate Starts for AmericanBeauty_99:

(Start: 10 @56479 has 112 MA's), (Start: 12 @56497 has 13 MA's), (15, 56503), (31, 56620), (43, 56680), (44, 56689), (66, 56827), (94, 56986), (95, 56995), (105, 57058), (108, 57139), (118, 57229),

Gene: Araceli_47 Start: 34357, Stop: 35109, Start Num: 17

Candidate Starts for Araceli_47:

(Start: 17 @34357 has 10 MA's), (24, 34429), (25, 34435), (35, 34483), (54, 34618), (55, 34621), (56, 34624), (106, 34930), (116, 35074),

Gene: Argent26_96 Start: 55839, Stop: 56660, Start Num: 10

Candidate Starts for Argent26_96:

(Start: 10 @55839 has 112 MA's), (Start: 12 @55857 has 13 MA's), (15, 55863), (31, 55980), (43, 56040), (44, 56049), (66, 56187), (94, 56346), (95, 56355), (105, 56418), (108, 56499), (118, 56589),

Gene: Ariel_130 Start: 68384, Stop: 69184, Start Num: 11

Candidate Starts for Ariel_130:

(Start: 11 @68384 has 35 MA's), (22, 68444), (26, 68495), (30, 68510), (41, 68561), (58, 68675), (64, 68708), (74, 68777), (78, 68795), (83, 68822), (87, 68846), (89, 68855),

Gene: Asriel_90 Start: 54255, Stop: 55076, Start Num: 10

Candidate Starts for Asriel_90:

(Start: 10 @54255 has 112 MA's), (Start: 12 @54273 has 13 MA's), (15, 54279), (31, 54396), (43, 54456), (44, 54465), (66, 54603), (94, 54762), (95, 54771), (105, 54834), (108, 54915), (118, 55005),

Gene: BAKA_132 Start: 71349, Stop: 72104, Start Num: 11

Candidate Starts for BAKA_132:

(Start: 11 @71349 has 35 MA's), (41, 71505), (45, 71538), (49, 71562), (52, 71586), (61, 71640), (62, 71646), (63, 71652), (65, 71661), (68, 71688), (69, 71700), (79, 71745), (81, 71760), (97, 71832), (115, 72012), (120, 72060),

Gene: BaboJay_92 Start: 56501, Stop: 57322, Start Num: 10

Candidate Starts for BaboJay_92:

(Start: 10 @56501 has 112 MA's), (Start: 12 @56519 has 13 MA's), (15, 56525), (31, 56642), (43, 56702), (44, 56711), (66, 56849), (94, 57008), (95, 57017), (105, 57080), (108, 57161), (118, 57251),

Gene: BadStone_89 Start: 55879, Stop: 56700, Start Num: 10

Candidate Starts for BadStone_89:

(Start: 10 @55879 has 112 MA's), (Start: 12 @55897 has 13 MA's), (15, 55903), (31, 56020), (43, 56080), (44, 56089), (66, 56227), (94, 56386), (95, 56395), (105, 56458), (108, 56539), (118, 56629),

Gene: Balomoji_92 Start: 56037, Stop: 56858, Start Num: 10

Candidate Starts for Balomoji_92:

(Start: 10 @56037 has 112 MA's), (Start: 12 @56055 has 13 MA's), (15, 56061), (21, 56091), (43, 56238), (44, 56247), (67, 56394), (94, 56544), (118, 56787),

Gene: Barbarian_91 Start: 54255, Stop: 55076, Start Num: 10

Candidate Starts for Barbarian_91:

(Start: 10 @54255 has 112 MA's), (Start: 12 @54273 has 13 MA's), (15, 54279), (31, 54396), (43, 54456), (44, 54465), (66, 54603), (94, 54762), (95, 54771), (105, 54834), (108, 54915), (118, 55005),

Gene: Bask21_92 Start: 54890, Stop: 55711, Start Num: 10

Candidate Starts for Bask21_92:

(Start: 10 @54890 has 112 MA's), (Start: 12 @54908 has 13 MA's), (15, 54914), (21, 54944), (43, 55091), (44, 55100), (67, 55247), (94, 55397), (118, 55640), (123, 55691),

Gene: Beem_134 Start: 72902, Stop: 73702, Start Num: 11

Candidate Starts for Beem_134:

(Start: 11 @72902 has 35 MA's), (22, 72962), (26, 73013), (30, 73028), (41, 73079), (58, 73193), (64, 73226), (74, 73295), (78, 73313), (83, 73340), (87, 73364), (89, 73373), (115, 73610), (120, 73658),

Gene: Bench_95 Start: 55974, Stop: 56795, Start Num: 10

Candidate Starts for Bench_95:

(Start: 10 @55974 has 112 MA's), (Start: 12 @55992 has 13 MA's), (15, 55998), (31, 56115), (43, 56175), (44, 56184), (66, 56322), (94, 56481), (95, 56490), (105, 56553), (108, 56634), (118, 56724),

Gene: BigBubba_92 Start: 55271, Stop: 56092, Start Num: 10

Candidate Starts for BigBubba_92:

(Start: 10 @55271 has 112 MA's), (Start: 12 @55289 has 13 MA's), (15, 55295), (31, 55412), (43, 55472), (44, 55481), (66, 55619), (94, 55778), (95, 55787), (105, 55850), (108, 55931), (118, 56021),

Gene: BilboSwaggins_91 Start: 56276, Stop: 57097, Start Num: 10

Candidate Starts for BilboSwaggins_91:

(Start: 10 @56276 has 112 MA's), (Start: 12 @56294 has 13 MA's), (15, 56300), (31, 56417), (43, 56477), (44, 56486), (66, 56624), (94, 56783), (95, 56792), (105, 56855), (108, 56936), (118, 57026),

Gene: Bobby_124 Start: 73003, Stop: 73803, Start Num: 11

Candidate Starts for Bobby_124:

(Start: 11 @73003 has 35 MA's), (22, 73063), (30, 73129), (41, 73180), (58, 73294), (64, 73327), (74, 73396), (78, 73414), (83, 73441), (87, 73465), (89, 73474), (115, 73711), (120, 73759),

Gene: Bogota_48 Start: 34899, Stop: 35651, Start Num: 17

Candidate Starts for Bogota_48:

(Start: 17 @34899 has 10 MA's), (24, 34971), (25, 34977), (35, 35025), (40, 35037), (55, 35163), (57, 35169), (59, 35178), (86, 35337), (87, 35340), (116, 35616),

Gene: Bombitas_120 Start: 70313, Stop: 71113, Start Num: 11

Candidate Starts for Bombitas_120:

(Start: 11 @70313 has 35 MA's), (22, 70373), (26, 70424), (30, 70439), (41, 70490), (58, 70604), (64, 70637), (74, 70706), (78, 70724), (83, 70751), (87, 70775), (89, 70784), (115, 71021), (120, 71069),

Gene: Bruin_89 Start: 54853, Stop: 55674, Start Num: 10

Candidate Starts for Bruin_89:

(Start: 10 @54853 has 112 MA's), (Start: 12 @54871 has 13 MA's), (15, 54877), (31, 54994), (43, 55054), (44, 55063), (66, 55201), (94, 55360), (95, 55369), (105, 55432), (108, 55513), (118, 55603),

Gene: Buck_93 Start: 56542, Stop: 57363, Start Num: 10

Candidate Starts for Buck_93:

(Start: 10 @56542 has 112 MA's), (Start: 12 @56560 has 13 MA's), (15, 56566), (21, 56596), (43, 56743), (44, 56752), (67, 56899), (94, 57049), (118, 57292),

Gene: BugsBunny_92 Start: 56382, Stop: 57203, Start Num: 10

Candidate Starts for BugsBunny_92:

(Start: 10 @56382 has 112 MA's), (Start: 12 @56400 has 13 MA's), (15, 56406), (31, 56523), (43, 56583), (44, 56592), (66, 56730), (94, 56889), (95, 56898), (105, 56961), (108, 57042), (118, 57132),

Gene: Cactus_95 Start: 54919, Stop: 55740, Start Num: 10

Candidate Starts for Cactus_95:

(Start: 10 @54919 has 112 MA's), (Start: 12 @54937 has 13 MA's), (15, 54943), (31, 55060), (43, 55120), (44, 55129), (66, 55267), (94, 55426), (95, 55435), (105, 55498), (108, 55579), (118, 55669),

Gene: ChosenOne_92 Start: 55334, Stop: 56155, Start Num: 10

Candidate Starts for ChosenOne_92:

(Start: 10 @55334 has 112 MA's), (Start: 12 @55352 has 13 MA's), (15, 55358), (31, 55475), (43, 55535), (44, 55544), (66, 55682), (94, 55841), (95, 55850), (105, 55913), (108, 55994), (118, 56084),

Gene: ChotaBhai_92 Start: 55255, Stop: 56076, Start Num: 10

Candidate Starts for ChotaBhai_92:

(Start: 10 @55255 has 112 MA's), (Start: 12 @55273 has 13 MA's), (15, 55279), (21, 55309), (43, 55456), (44, 55465), (67, 55612), (94, 55762), (118, 56005), (123, 56056),

Gene: Cjw1_93 Start: 57316, Stop: 58119, Start Num: 12

Candidate Starts for Cjw1_93:

(Start: 10 @57298 has 112 MA's), (Start: 12 @57316 has 13 MA's), (15, 57322), (31, 57439), (43, 57499), (44, 57508), (66, 57646), (94, 57805), (95, 57814), (105, 57877), (108, 57958), (118, 58048),

Gene: Command613_94 Start: 56391, Stop: 57194, Start Num: 12

Candidate Starts for Command613_94:

(Start: 10 @56373 has 112 MA's), (Start: 12 @56391 has 13 MA's), (15, 56397), (31, 56514), (43, 56574), (44, 56583), (66, 56721), (94, 56880), (95, 56889), (105, 56952), (108, 57033), (118, 57123),

Gene: Constella_122 Start: 68436, Stop: 69236, Start Num: 11

Candidate Starts for Constella_122:

(Start: 11 @68436 has 35 MA's), (22, 68496), (26, 68547), (30, 68562), (41, 68613), (58, 68727), (64, 68760), (74, 68829), (78, 68847), (83, 68874), (87, 68898), (89, 68907), (115, 69144), (120, 69192),

Gene: Contagion_88 Start: 55134, Stop: 55955, Start Num: 10

Candidate Starts for Contagion_88:

(Start: 10 @55134 has 112 MA's), (Start: 12 @55152 has 13 MA's), (15, 55158), (31, 55275), (43, 55335), (44, 55344), (66, 55482), (94, 55641), (95, 55650), (105, 55713), (108, 55794), (118, 55884),

Gene: Cookies_89 Start: 55112, Stop: 55933, Start Num: 10

Candidate Starts for Cookies_89:

(Start: 10 @55112 has 112 MA's), (Start: 12 @55130 has 13 MA's), (15, 55136), (21, 55166), (43, 55313), (44, 55322), (67, 55469), (94, 55619), (118, 55862),

Gene: Courthouse_125 Start: 67981, Stop: 68739, Start Num: 10

Candidate Starts for Courthouse_125:

(Start: 10 @67981 has 112 MA's), (Start: 23 @68071 has 1 MA's), (41, 68140), (44, 68164), (45, 68173), (49, 68197), (52, 68221), (53, 68236), (55, 68248), (61, 68275), (63, 68287), (65, 68296), (69, 68335), (84, 68404), (97, 68467),

Gene: Crosby_47 Start: 34650, Stop: 35408, Start Num: 17

Candidate Starts for Crosby_47:

(2, 34416), (Start: 17 @34650 has 10 MA's), (24, 34728), (25, 34734), (35, 34782), (40, 34794), (54, 34917), (55, 34920), (57, 34926), (86, 35094), (87, 35097), (116, 35373),

Gene: CrystalP_91 Start: 56276, Stop: 57097, Start Num: 10

Candidate Starts for CrystalP_91:

(Start: 10 @56276 has 112 MA's), (Start: 12 @56294 has 13 MA's), (15, 56300), (31, 56417), (43, 56477), (44, 56486), (66, 56624), (94, 56783), (95, 56792), (105, 56855), (108, 56936), (118, 57026),

Gene: Czyszczone1_93 Start: 55837, Stop: 56658, Start Num: 10

Candidate Starts for Czyszczone1_93:

(Start: 10 @55837 has 112 MA's), (Start: 12 @55855 has 13 MA's), (15, 55861), (31, 55978), (43, 56038), (44, 56047), (66, 56185), (94, 56344), (95, 56353), (105, 56416), (108, 56497), (118, 56587),

Gene: Daikon_93 Start: 55864, Stop: 56685, Start Num: 10

Candidate Starts for Daikon_93:

(Start: 10 @55864 has 112 MA's), (Start: 12 @55882 has 13 MA's), (15, 55888), (21, 55918), (43, 56065), (44, 56074), (67, 56221), (94, 56371), (118, 56614),

Gene: Dallas_133 Start: 72414, Stop: 73169, Start Num: 11

Candidate Starts for Dallas_133:

(Start: 11 @72414 has 35 MA's), (41, 72570), (45, 72603), (49, 72627), (52, 72651), (61, 72705), (62, 72711), (63, 72717), (65, 72726), (68, 72753), (69, 72765), (79, 72810), (81, 72825), (97, 72897), (115, 73077), (120, 73125),

Gene: DmpstrDiver_132 Start: 71716, Stop: 72516, Start Num: 11

Candidate Starts for DmpstrDiver_132:

(Start: 11 @71716 has 35 MA's), (22, 71776), (26, 71827), (30, 71842), (41, 71893), (58, 72007), (64, 72040), (74, 72109), (78, 72127), (83, 72154), (87, 72178), (89, 72187), (115, 72424), (120, 72472),

Gene: DoctorDiddles_91 Start: 55299, Stop: 56120, Start Num: 10

Candidate Starts for DoctorDiddles_91:

(Start: 10 @55299 has 112 MA's), (Start: 12 @55317 has 13 MA's), (15, 55323), (21, 55353), (43, 55500), (44, 55509), (67, 55656), (94, 55806), (118, 56049), (123, 56100),

Gene: Dove_125 Start: 67360, Stop: 68115, Start Num: 11

Candidate Starts for Dove_125:

(Start: 11 @67360 has 35 MA's), (41, 67516), (45, 67549), (49, 67573), (52, 67597), (61, 67651), (62, 67657), (63, 67663), (65, 67672), (68, 67699), (69, 67711), (79, 67756), (81, 67771), (97, 67843), (115, 68023), (120, 68071),

Gene: DrDrey_92 Start: 56756, Stop: 57577, Start Num: 10

Candidate Starts for DrDrey_92:

(Start: 10 @56756 has 112 MA's), (Start: 12 @56774 has 13 MA's), (15, 56780), (31, 56897), (43, 56957), (44, 56966), (66, 57104), (94, 57263), (95, 57272), (105, 57335), (108, 57416), (118, 57506),

Gene: Duke13_127 Start: 69017, Stop: 69817, Start Num: 11

Candidate Starts for Duke13_127:

(Start: 11 @69017 has 35 MA's), (22, 69077), (26, 69128), (30, 69143), (41, 69194), (58, 69308), (64, 69341), (74, 69410), (78, 69428), (83, 69455), (87, 69479), (89, 69488), (115, 69725), (120, 69773),

Gene: Dumbo_92 Start: 55236, Stop: 56057, Start Num: 10

Candidate Starts for Dumbo_92:

(Start: 10 @55236 has 112 MA's), (Start: 12 @55254 has 13 MA's), (15, 55260), (31, 55377), (43, 55437), (44, 55446), (66, 55584), (94, 55743), (95, 55752), (105, 55815), (108, 55896), (118, 55986),

Gene: Dusk_89 Start: 55557, Stop: 56360, Start Num: 12

Candidate Starts for Dusk_89:

(Start: 10 @55539 has 112 MA's), (Start: 12 @55557 has 13 MA's), (15, 55563), (31, 55680), (43, 55740), (44, 55749), (66, 55887), (94, 56046), (95, 56055), (105, 56118), (108, 56199), (118, 56289),

Gene: Easy2Say_93 Start: 56738, Stop: 57559, Start Num: 10

Candidate Starts for Easy2Say_93:

(Start: 10 @56738 has 112 MA's), (Start: 12 @56756 has 13 MA's), (15, 56762), (31, 56879), (43, 56939), (44, 56948), (66, 57086), (94, 57245), (95, 57254), (105, 57317), (108, 57398), (118, 57488),

Gene: EhyElimayoE_221 Start: 131574, Stop: 132389, Start Num: 9

Candidate Starts for EhyElimayoE_221:

(5, 131472), (Start: 9 @131574 has 6 MA's), (18, 131610), (34, 131742), (36, 131745), (39, 131754), (41, 131766), (42, 131772), (70, 131967), (73, 131982), (76, 131991), (79, 132009), (87, 132057), (88, 132063), (94, 132090), (101, 132126), (112, 132291), (117, 132339),

Gene: Ejimix_126 Start: 72482, Stop: 73237, Start Num: 11

Candidate Starts for Ejimix_126:

(Start: 11 @72482 has 35 MA's), (41, 72638), (45, 72671), (49, 72695), (52, 72719), (61, 72773), (62, 72779), (63, 72785), (65, 72794), (68, 72821), (69, 72833), (79, 72878), (81, 72893), (97, 72965), (115, 73145), (120, 73193),

Gene: Elite2014_91 Start: 55333, Stop: 56154, Start Num: 10

Candidate Starts for Elite2014_91:

(Start: 10 @55333 has 112 MA's), (Start: 12 @55351 has 13 MA's), (15, 55357), (31, 55474), (43, 55534), (44, 55543), (66, 55681), (94, 55840), (95, 55849), (105, 55912), (108, 55993), (118, 56083),

Gene: Elph10_93 Start: 55326, Stop: 56147, Start Num: 10

Candidate Starts for Elph10_93:

(Start: 10 @55326 has 112 MA's), (Start: 12 @55344 has 13 MA's), (15, 55350), (31, 55467), (43, 55527), (44, 55536), (66, 55674), (94, 55833), (95, 55842), (105, 55905), (108, 55986), (118, 56076),

Gene: Emmina_92 Start: 54959, Stop: 55780, Start Num: 10

Candidate Starts for Emmina_92:

(Start: 10 @54959 has 112 MA's), (Start: 12 @54977 has 13 MA's), (15, 54983), (31, 55100), (43, 55160), (44, 55169), (66, 55307), (94, 55466), (95, 55475), (105, 55538), (108, 55619), (118, 55709),

Gene: EricMillard_124 Start: 70986, Stop: 71741, Start Num: 11

Candidate Starts for EricMillard_124:

(Start: 11 @70986 has 35 MA's), (41, 71142), (45, 71175), (49, 71199), (52, 71223), (61, 71277), (62, 71283), (63, 71289), (65, 71298), (68, 71325), (69, 71337), (79, 71382), (81, 71397), (97, 71469), (115, 71649), (120, 71697),

Gene: Eureka_91 Start: 56264, Stop: 57067, Start Num: 12

Candidate Starts for Eureka_91:

(Start: 10 @56246 has 112 MA's), (Start: 12 @56264 has 13 MA's), (15, 56270), (31, 56387), (43, 56447), (44, 56456), (66, 56594), (94, 56753), (95, 56762), (105, 56825), (108, 56906), (118, 56996),

Gene: Filch_94 Start: 55531, Stop: 56352, Start Num: 10

Candidate Starts for Filch_94:

(Start: 10 @55531 has 112 MA's), (Start: 12 @55549 has 13 MA's), (15, 55555), (31, 55672), (43, 55732), (44, 55741), (66, 55879), (94, 56038), (95, 56047), (105, 56110), (108, 56191), (118, 56281),

Gene: FireRed_96 Start: 56549, Stop: 57370, Start Num: 10

Candidate Starts for FireRed_96:

(Start: 10 @56549 has 112 MA's), (Start: 12 @56567 has 13 MA's), (15, 56573), (31, 56690), (43, 56750), (44, 56759), (66, 56897), (94, 57056), (95, 57065), (105, 57128), (108, 57209), (118, 57299),

Gene: Flypotenuse_88 Start: 54909, Stop: 55730, Start Num: 10

Candidate Starts for Flypotenuse_88:

(Start: 10 @54909 has 112 MA's), (Start: 12 @54927 has 13 MA's), (15, 54933), (31, 55050), (43, 55110), (44, 55119), (66, 55257), (94, 55416), (95, 55425), (105, 55488), (108, 55569), (118, 55659),

Gene: Frankenweenie_240 Start: 142886, Stop: 143593, Start Num: 9

Candidate Starts for Frankenweenie_240:

(1, 142685), (7, 142877), (Start: 9 @142886 has 6 MA's), (18, 142922), (41, 143081), (42, 143087), (49, 143138), (51, 143153), (57, 143195), (76, 143303), (77, 143315), (85, 143363), (90, 143381), (98, 143423), (102, 143444), (104, 143459), (108, 143558),

Gene: Gage_94 Start: 55980, Stop: 56801, Start Num: 10

Candidate Starts for Gage_94:

(Start: 10 @55980 has 112 MA's), (Start: 12 @55998 has 13 MA's), (15, 56004), (31, 56121), (43, 56181), (44, 56190), (66, 56328), (94, 56487), (95, 56496), (105, 56559), (108, 56640), (118, 56730),

Gene: Gator_90 Start: 55764, Stop: 56585, Start Num: 10

Candidate Starts for Gator_90:

(Start: 10 @55764 has 112 MA's), (Start: 12 @55782 has 13 MA's), (15, 55788), (21, 55818), (43, 55965), (44, 55974), (67, 56121), (94, 56271), (118, 56514),

Gene: Gemini_97 Start: 56356, Stop: 57177, Start Num: 10

Candidate Starts for Gemini_97:

(Start: 10 @56356 has 112 MA's), (Start: 12 @56374 has 13 MA's), (15, 56380), (31, 56497), (43, 56557), (44, 56566), (66, 56704), (94, 56863), (95, 56872), (105, 56935), (108, 57016), (118, 57106),

Gene: Glexan_91 Start: 56039, Stop: 56860, Start Num: 10

Candidate Starts for Glexan_91:

(Start: 10 @56039 has 112 MA's), (Start: 12 @56057 has 13 MA's), (15, 56063), (31, 56180), (43, 56240), (44, 56249), (66, 56387), (94, 56546), (95, 56555), (105, 56618), (108, 56699), (118, 56789),

Gene: Goku_91 Start: 55975, Stop: 56796, Start Num: 10

Candidate Starts for Goku_91:

(Start: 10 @55975 has 112 MA's), (Start: 12 @55993 has 13 MA's), (15, 55999), (31, 56116), (43, 56176), (44, 56185), (66, 56323), (94, 56482), (95, 56491), (105, 56554), (108, 56635), (118, 56725),

Gene: GoldenSpark_96 Start: 55839, Stop: 56660, Start Num: 10

Candidate Starts for GoldenSpark_96:

(Start: 10 @55839 has 112 MA's), (Start: 12 @55857 has 13 MA's), (15, 55863), (31, 55980), (43, 56040), (44, 56049), (66, 56187), (94, 56346), (95, 56355), (105, 56418), (108, 56499), (118, 56589),

Gene: Goldilocks_95 Start: 55197, Stop: 56018, Start Num: 10

Candidate Starts for Goldilocks_95:

(Start: 10 @55197 has 112 MA's), (Start: 12 @55215 has 13 MA's), (15, 55221), (31, 55338), (43, 55398), (44, 55407), (66, 55545), (94, 55704), (95, 55713), (105, 55776), (108, 55857), (118, 55947),

Gene: Gonephishing_124 Start: 67759, Stop: 68382, Start Num: 41

Candidate Starts for Gonephishing_124:

(Start: 11 @67582 has 35 MA's), (22, 67642), (26, 67693), (30, 67708), (41, 67759), (58, 67873), (64, 67906), (74, 67975), (78, 67993), (83, 68020), (87, 68044), (89, 68053),

Gene: GooberAzure_95 Start: 55839, Stop: 56660, Start Num: 10

Candidate Starts for GooberAzure_95:

(Start: 10 @55839 has 112 MA's), (Start: 12 @55857 has 13 MA's), (15, 55863), (31, 55980), (43, 56040), (44, 56049), (66, 56187), (94, 56346), (95, 56355), (105, 56418), (108, 56499), (118, 56589),

Gene: Halley_134 Start: 72798, Stop: 73553, Start Num: 11

Candidate Starts for Halley_134:

(Start: 11 @72798 has 35 MA's), (41, 72954), (45, 72987), (49, 73011), (52, 73035), (61, 73089), (62, 73095), (63, 73101), (65, 73110), (68, 73137), (69, 73149), (79, 73194), (81, 73209), (97, 73281), (115, 73461), (120, 73509),

Gene: HanKaySha_93 Start: 55406, Stop: 56227, Start Num: 10

Candidate Starts for HanKaySha_93:

(Start: 10 @55406 has 112 MA's), (Start: 12 @55424 has 13 MA's), (15, 55430), (31, 55547), (43, 55607), (44, 55616), (66, 55754), (94, 55913), (95, 55922), (105, 55985), (108, 56066), (118, 56156),

Gene: Hannaconda_123 Start: 68235, Stop: 69035, Start Num: 11

Candidate Starts for Hannaconda_123:

(Start: 11 @68235 has 35 MA's), (22, 68295), (26, 68346), (30, 68361), (41, 68412), (58, 68526), (64, 68559), (74, 68628), (78, 68646), (83, 68673), (87, 68697), (89, 68706),

Gene: Harella_92 Start: 56555, Stop: 57376, Start Num: 10

Candidate Starts for Harella_92:

(Start: 10 @56555 has 112 MA's), (Start: 12 @56573 has 13 MA's), (15, 56579), (31, 56696), (43, 56756), (44, 56765), (66, 56903), (94, 57062), (95, 57071), (105, 57134), (108, 57215), (118, 57305),

Gene: Henoccus_47 Start: 34374, Stop: 35126, Start Num: 17

Candidate Starts for Henoccus_47:

(Start: 17 @34374 has 10 MA's), (24, 34446), (25, 34452), (35, 34500), (54, 34635), (55, 34638), (56, 34641), (106, 34947), (116, 35091),

Gene: Henry_90 Start: 55716, Stop: 56537, Start Num: 10

Candidate Starts for Henry_90:

(Start: 10 @55716 has 112 MA's), (Start: 12 @55734 has 13 MA's), (15, 55740), (31, 55857), (43, 55917), (44, 55926), (66, 56064), (94, 56223), (95, 56232), (105, 56295), (108, 56376), (118, 56466),

Gene: Highbury_91 Start: 55406, Stop: 56227, Start Num: 10

Candidate Starts for Highbury_91:

(Start: 10 @55406 has 112 MA's), (Start: 12 @55424 has 13 MA's), (15, 55430), (31, 55547), (43, 55607), (44, 55616), (66, 55754), (94, 55913), (95, 55922), (105, 55985), (108, 56066), (118, 56156),

Gene: HokkenD_122 Start: 71161, Stop: 71916, Start Num: 11

Candidate Starts for HokkenD_122:

(Start: 11 @71161 has 35 MA's), (41, 71317), (45, 71350), (49, 71374), (52, 71398), (61, 71452), (62, 71458), (63, 71464), (65, 71473), (68, 71500), (69, 71512), (79, 71557), (81, 71572), (97, 71644),

Gene: Holt_97 Start: 56253, Stop: 57074, Start Num: 10

Candidate Starts for Holt_97:

(Start: 10 @56253 has 112 MA's), (Start: 12 @56271 has 13 MA's), (15, 56277), (31, 56394), (43, 56454), (44, 56463), (66, 56601), (94, 56760), (95, 56769), (105, 56832), (108, 56913), (118, 57003),

Gene: Hoonter_95 Start: 55711, Stop: 56532, Start Num: 10

Candidate Starts for Hoonter_95:

(Start: 10 @55711 has 112 MA's), (Start: 12 @55729 has 13 MA's), (15, 55735), (31, 55852), (43, 55912), (44, 55921), (66, 56059), (94, 56218), (95, 56227), (105, 56290), (108, 56371), (118, 56461),

Gene: Hokey_93 Start: 56217, Stop: 57038, Start Num: 10

Candidate Starts for Hokey_93:

(Start: 10 @56217 has 112 MA's), (Start: 12 @56235 has 13 MA's), (15, 56241), (31, 56358), (43, 56418), (44, 56427), (66, 56565), (94, 56724), (95, 56733), (105, 56796), (108, 56877), (118, 56967),

Gene: HufflyPuff_94 Start: 56319, Stop: 57122, Start Num: 12

Candidate Starts for HufflyPuff_94:

(Start: 10 @56301 has 112 MA's), (Start: 12 @56319 has 13 MA's), (15, 56325), (31, 56442), (43, 56502), (44, 56511), (66, 56649), (94, 56808), (95, 56817), (105, 56880), (108, 56961), (118, 57051),

Gene: Hughesyang_132 Start: 72523, Stop: 73323, Start Num: 11

Candidate Starts for Hughesyang_132:

(Start: 11 @72523 has 35 MA's), (22, 72583), (26, 72634), (30, 72649), (41, 72700), (58, 72814), (64, 72847), (74, 72916), (78, 72934), (83, 72961), (87, 72985), (89, 72994), (115, 73231), (120, 73279),

Gene: IHOP_90 Start: 55879, Stop: 56700, Start Num: 10

Candidate Starts for IHOP_90:

(Start: 10 @55879 has 112 MA's), (Start: 12 @55897 has 13 MA's), (15, 55903), (31, 56020), (43, 56080), (44, 56089), (66, 56227), (94, 56386), (95, 56395), (105, 56458), (108, 56539), (118, 56629),

Gene: Icee_93 Start: 55366, Stop: 56187, Start Num: 10

Candidate Starts for Icee_93:

(Start: 10 @55366 has 112 MA's), (Start: 12 @55384 has 13 MA's), (15, 55390), (31, 55507), (43, 55567), (44, 55576), (66, 55714), (94, 55873), (95, 55882), (105, 55945), (108, 56026), (118, 56116),

Gene: Inca_89 Start: 54368, Stop: 55189, Start Num: 10

Candidate Starts for Inca_89:

(Start: 10 @54368 has 112 MA's), (Start: 12 @54386 has 13 MA's), (15, 54392), (31, 54509), (43, 54569), (44, 54578), (66, 54716), (94, 54875), (95, 54884), (105, 54947), (108, 55028), (118, 55118),

Gene: Intolerant_46 Start: 34591, Stop: 35349, Start Num: 17

Candidate Starts for Intolerant_46:

(2, 34357), (Start: 17 @34591 has 10 MA's), (24, 34669), (25, 34675), (27, 34684), (35, 34723), (40, 34735), (55, 34861), (57, 34867), (59, 34876), (86, 35035), (87, 35038), (103, 35122), (106, 35170), (116, 35314),

Gene: JackieB_47 Start: 34213, Stop: 34965, Start Num: 17

Candidate Starts for JackieB_47:

(Start: 17 @34213 has 10 MA's), (24, 34285), (25, 34291), (35, 34339), (54, 34474), (55, 34477), (56, 34480), (106, 34786), (116, 34930),

Gene: JeTaime_93 Start: 56569, Stop: 57390, Start Num: 10

Candidate Starts for JeTaime_93:

(Start: 10 @56569 has 112 MA's), (Start: 12 @56587 has 13 MA's), (15, 56593), (31, 56710), (43, 56770), (44, 56779), (66, 56917), (94, 57076), (95, 57085), (105, 57148), (108, 57229), (118, 57319),

Gene: JuicyJay_129 Start: 74038, Stop: 74838, Start Num: 11

Candidate Starts for JuicyJay_129:

(Start: 11 @74038 has 35 MA's), (22, 74098), (26, 74149), (30, 74164), (41, 74215), (58, 74329), (64, 74362), (74, 74431), (78, 74449), (83, 74476), (87, 74500), (89, 74509), (115, 74746), (120, 74794),

Gene: JustBecause_223 Start: 130604, Stop: 131311, Start Num: 9

Candidate Starts for JustBecause_223:

(7, 130595), (Start: 9 @130604 has 6 MA's), (18, 130640), (37, 130781), (41, 130799), (42, 130805), (45, 130832), (49, 130856), (51, 130871), (57, 130913), (65, 130955), (76, 131021), (80, 131054), (90, 131099), (102, 131162), (108, 131276),

Gene: Kalah2_123 Start: 71329, Stop: 72129, Start Num: 11

Candidate Starts for Kalah2_123:

(Start: 11 @71329 has 35 MA's), (22, 71389), (26, 71440), (30, 71455), (41, 71506), (58, 71620), (64, 71653), (74, 71722), (78, 71740), (83, 71767), (87, 71791), (89, 71800), (115, 72037), (120, 72085),

Gene: Kanye_89 Start: 55463, Stop: 56284, Start Num: 10

Candidate Starts for Kanye_89:

(Start: 10 @55463 has 112 MA's), (Start: 12 @55481 has 13 MA's), (15, 55487), (31, 55604), (43, 55664), (44, 55673), (66, 55811), (94, 55970), (95, 55979), (105, 56042), (108, 56123), (118, 56213),

Gene: KashFlow_128 Start: 70014, Stop: 70772, Start Num: 10

Candidate Starts for KashFlow_128:

(Start: 10 @70014 has 112 MA's), (Start: 23 @70104 has 1 MA's), (41, 70173), (44, 70197), (45, 70206), (49, 70230), (52, 70254), (53, 70269), (55, 70281), (61, 70308), (63, 70320), (65, 70329), (69, 70368), (84, 70437), (97, 70500),

Gene: Kela_221 Start: 130449, Stop: 131156, Start Num: 9

Candidate Starts for Kela_221:

(7, 130440), (Start: 9 @130449 has 6 MA's), (18, 130485), (37, 130626), (41, 130644), (42, 130650), (45, 130677), (49, 130701), (51, 130716), (57, 130758), (65, 130800), (76, 130866), (80, 130899), (90, 130944), (102, 131007), (108, 131121),

Gene: Kimchi_96 Start: 55983, Stop: 56804, Start Num: 10

Candidate Starts for Kimchi_96:

(Start: 10 @55983 has 112 MA's), (Start: 12 @56001 has 13 MA's), (15, 56007), (31, 56124), (43, 56184), (44, 56193), (66, 56331), (94, 56490), (95, 56499), (105, 56562), (108, 56643), (118, 56733),

Gene: Klein_129 Start: 69719, Stop: 70474, Start Num: 11

Candidate Starts for Klein_129:

(Start: 11 @69719 has 35 MA's), (41, 69875), (45, 69908), (49, 69932), (52, 69956), (61, 70010), (62, 70016), (63, 70022), (65, 70031), (68, 70058), (69, 70070), (79, 70115), (81, 70130), (97, 70202), (115, 70382), (120, 70430),

Gene: Kostya_92 Start: 55999, Stop: 56802, Start Num: 12

Candidate Starts for Kostya_92:

(Start: 10 @55981 has 112 MA's), (Start: 12 @55999 has 13 MA's), (15, 56005), (31, 56122), (43, 56182), (44, 56191), (66, 56329), (94, 56488), (95, 56497), (105, 56560), (108, 56641), (118, 56731),

Gene: Kradal_220 Start: 131571, Stop: 132386, Start Num: 9

Candidate Starts for Kradal_220:

(5, 131469), (Start: 9 @131571 has 6 MA's), (18, 131607), (34, 131739), (36, 131742), (39, 131751), (41, 131763), (42, 131769), (70, 131964), (73, 131979), (76, 131988), (79, 132006), (87, 132054), (88, 132060), (94, 132087), (101, 132123), (112, 132288), (117, 132336),

Gene: Kudrefre_68 Start: 43455, Stop: 44261, Start Num: 16

Candidate Starts for Kudrefre_68:

(Start: 16 @43455 has 3 MA's), (20, 43464), (28, 43548), (29, 43551), (30, 43554), (38, 43590), (41, 43605), (48, 43659), (55, 43713), (65, 43758), (69, 43797), (72, 43815), (78, 43836), (82, 43857), (91, 43896), (99, 43941), (100, 43947), (101, 43950), (107, 44007), (109, 44061), (111, 44088), (114, 44112), (115, 44127), (119, 44160), (120, 44175), (122, 44196), (125, 44253),

Gene: LazerLemon_47 Start: 35007, Stop: 35759, Start Num: 17

Candidate Starts for LazerLemon_47:

(2, 34773), (Start: 17 @35007 has 10 MA's), (24, 35079), (35, 35133), (54, 35268), (55, 35271), (60, 35289), (86, 35445), (116, 35724),

Gene: Lilac_95 Start: 55826, Stop: 56629, Start Num: 12

Candidate Starts for Lilac_95:

(Start: 10 @55808 has 112 MA's), (Start: 12 @55826 has 13 MA's), (15, 55832), (31, 55949), (43, 56009), (44, 56018), (66, 56156), (94, 56315), (95, 56324), (105, 56387), (108, 56468), (118, 56558),

Gene: Lilizi_93 Start: 55445, Stop: 56266, Start Num: 10

Candidate Starts for Lilizi_93:

(Start: 10 @55445 has 112 MA's), (Start: 12 @55463 has 13 MA's), (15, 55469), (31, 55586), (43, 55646), (44, 55655), (66, 55793), (94, 55952), (95, 55961), (105, 56024), (108, 56105), (118, 56195),

Gene: Lilpickle_91 Start: 55333, Stop: 56154, Start Num: 10

Candidate Starts for Lilpickle_91:

(Start: 10 @55333 has 112 MA's), (Start: 12 @55351 has 13 MA's), (15, 55357), (31, 55474), (43, 55534), (44, 55543), (66, 55681), (94, 55840), (95, 55849), (105, 55912), (108, 55993), (118, 56083),

Gene: LittleE_133 Start: 71226, Stop: 72026, Start Num: 11

Candidate Starts for LittleE_133:

(Start: 11 @71226 has 35 MA's), (22, 71286), (26, 71337), (30, 71352), (41, 71403), (58, 71517), (64, 71550), (74, 71619), (78, 71637), (83, 71664), (87, 71688), (89, 71697),

Gene: Lucky2013_125 Start: 68103, Stop: 68903, Start Num: 11

Candidate Starts for Lucky2013_125:

(Start: 11 @68103 has 35 MA's), (22, 68163), (26, 68214), (30, 68229), (41, 68280), (58, 68394), (64, 68427), (74, 68496), (78, 68514), (83, 68541), (87, 68565), (89, 68574),

Gene: MISSy_93 Start: 55561, Stop: 56382, Start Num: 10

Candidate Starts for MISSy_93:

(Start: 10 @55561 has 112 MA's), (Start: 12 @55579 has 13 MA's), (15, 55585), (31, 55702), (43, 55762), (44, 55771), (66, 55909), (94, 56068), (95, 56077), (105, 56140), (108, 56221), (118, 56311),

Gene: MPhalcon_93 Start: 55554, Stop: 56375, Start Num: 10

Candidate Starts for MPhalcon_93:

(Start: 10 @55554 has 112 MA's), (Start: 12 @55572 has 13 MA's), (15, 55578), (31, 55695), (43, 55755), (44, 55764), (66, 55902), (94, 56061), (95, 56070), (105, 56133), (108, 56214), (118, 56304),

Gene: MadamMonkfish_92 Start: 55060, Stop: 55881, Start Num: 10

Candidate Starts for MadamMonkfish_92:

(Start: 10 @55060 has 112 MA's), (Start: 12 @55078 has 13 MA's), (15, 55084), (31, 55201), (43, 55261), (44, 55270), (66, 55408), (94, 55567), (95, 55576), (105, 55639), (108, 55720), (118, 55810),

Gene: Manda_94 Start: 57137, Stop: 57958, Start Num: 10

Candidate Starts for Manda_94:

(Start: 10 @57137 has 112 MA's), (Start: 12 @57155 has 13 MA's), (15, 57161), (31, 57278), (43, 57338), (44, 57347), (66, 57485), (94, 57644), (95, 57653), (105, 57716), (108, 57797), (118, 57887),

Gene: Marky_49 Start: 35097, Stop: 35876, Start Num: 19

Candidate Starts for Marky_49:

(15, 35091), (Start: 19 @35097 has 1 MA's), (25, 35181), (35, 35229), (54, 35364), (55, 35367), (71, 35457), (73, 35469), (87, 35544), (103, 35628), (121, 35856),

Gene: Marshmallow_90 Start: 56609, Stop: 57430, Start Num: 10

Candidate Starts for Marshmallow_90:

(Start: 10 @56609 has 112 MA's), (Start: 12 @56627 has 13 MA's), (15, 56633), (31, 56750), (43, 56810), (44, 56819), (66, 56957), (94, 57116), (95, 57125), (105, 57188), (108, 57269), (118, 57359),

Gene: Maxxinista_95 Start: 55993, Stop: 56796, Start Num: 12

Candidate Starts for Maxxinista_95:

(Start: 10 @55975 has 112 MA's), (Start: 12 @55993 has 13 MA's), (15, 55999), (31, 56116), (43, 56176), (44, 56185), (66, 56323), (94, 56482), (95, 56491), (105, 56554), (108, 56635), (118, 56725),

Gene: MiaZeal_130 Start: 69241, Stop: 70041, Start Num: 11

Candidate Starts for MiaZeal_130:

(Start: 11 @69241 has 35 MA's), (22, 69301), (26, 69352), (30, 69367), (41, 69418), (58, 69532), (64, 69565), (74, 69634), (78, 69652), (83, 69679), (87, 69703), (89, 69712),

Gene: Microdon_46 Start: 34403, Stop: 35155, Start Num: 17

Candidate Starts for Microdon_46:

(Start: 17 @34403 has 10 MA's), (24, 34475), (25, 34481), (35, 34529), (40, 34541), (54, 34664), (55, 34667), (57, 34673), (86, 34841), (87, 34844), (103, 34928), (116, 35120),

Gene: Mindy_91 Start: 54882, Stop: 55703, Start Num: 10

Candidate Starts for Mindy_91:

(Start: 10 @54882 has 112 MA's), (Start: 12 @54900 has 13 MA's), (15, 54906), (31, 55023), (43, 55083), (44, 55092), (66, 55230), (94, 55389), (95, 55398), (105, 55461), (108, 55542), (118, 55632),

Gene: Minerva_131 Start: 71124, Stop: 71924, Start Num: 11

Candidate Starts for Minerva_131:

(Start: 11 @71124 has 35 MA's), (22, 71184), (26, 71235), (30, 71250), (41, 71301), (58, 71415), (64, 71448), (74, 71517), (78, 71535), (83, 71562), (87, 71586), (89, 71595), (115, 71832), (120, 71880),

Gene: Miniwave_87 Start: 55377, Stop: 56198, Start Num: 10

Candidate Starts for Miniwave_87:

(Start: 10 @55377 has 112 MA's), (Start: 12 @55395 has 13 MA's), (15, 55401), (31, 55518), (43, 55578), (44, 55587), (66, 55725), (94, 55884), (95, 55893), (105, 55956), (108, 56037), (118, 56127),

Gene: Misfit_93 Start: 56851, Stop: 57672, Start Num: 10

Candidate Starts for Misfit_93:

(Start: 10 @56851 has 112 MA's), (Start: 12 @56869 has 13 MA's), (15, 56875), (31, 56992), (43, 57052), (44, 57061), (66, 57199), (94, 57358), (95, 57367), (105, 57430), (108, 57511), (118, 57601),

Gene: Moldemort_95 Start: 55518, Stop: 56339, Start Num: 10

Candidate Starts for Moldemort_95:

(Start: 10 @55518 has 112 MA's), (Start: 12 @55536 has 13 MA's), (15, 55542), (31, 55659), (43, 55719), (44, 55728), (66, 55866), (94, 56025), (95, 56034), (105, 56097), (108, 56178), (118, 56268),

Gene: Mosby_88 Start: 55152, Stop: 55955, Start Num: 12

Candidate Starts for Mosby_88:

(Start: 10 @55134 has 112 MA's), (Start: 12 @55152 has 13 MA's), (15, 55158), (31, 55275), (43, 55335), (44, 55344), (66, 55482), (94, 55641), (95, 55650), (105, 55713), (108, 55794), (118, 55884),

Gene: Murica_95 Start: 56795, Stop: 57598, Start Num: 12

Candidate Starts for Murica_95:

(Start: 10 @56777 has 112 MA's), (Start: 12 @56795 has 13 MA's), (15, 56801), (31, 56918), (43, 56978), (44, 56987), (66, 57125), (94, 57284), (95, 57293), (105, 57356), (108, 57437), (118, 57527),

Gene: Murphy_92 Start: 56218, Stop: 57039, Start Num: 10

Candidate Starts for Murphy_92:

(Start: 10 @56218 has 112 MA's), (Start: 12 @56236 has 13 MA's), (15, 56242), (31, 56359), (43, 56419), (44, 56428), (66, 56566), (94, 56725), (95, 56734), (105, 56797), (108, 56878), (118, 56968),

Gene: Myrale_92 Start: 56340, Stop: 57161, Start Num: 10

Candidate Starts for Myrale_92:

(Start: 10 @56340 has 112 MA's), (Start: 12 @56358 has 13 MA's), (15, 56364), (31, 56481), (43, 56541), (44, 56550), (66, 56688), (94, 56847), (95, 56856), (105, 56919), (108, 57000), (118, 57090),

Gene: Nala_94 Start: 56081, Stop: 56884, Start Num: 12

Candidate Starts for Nala_94:

(Start: 10 @56063 has 112 MA's), (Start: 12 @56081 has 13 MA's), (15, 56087), (31, 56204), (43, 56264), (44, 56273), (66, 56411), (94, 56570), (95, 56579), (105, 56642), (108, 56723), (118, 56813),

Gene: NelitzaMV_90 Start: 55423, Stop: 56244, Start Num: 10

Candidate Starts for NelitzaMV_90:

(Start: 10 @55423 has 112 MA's), (Start: 12 @55441 has 13 MA's), (15, 55447), (31, 55564), (43, 55624), (44, 55633), (66, 55771), (94, 55930), (95, 55939), (105, 56002), (108, 56083), (118, 56173),

Gene: NihilNomen_134 Start: 71983, Stop: 72783, Start Num: 11

Candidate Starts for NihilNomen_134:

(Start: 11 @71983 has 35 MA's), (22, 72043), (26, 72094), (30, 72109), (41, 72160), (58, 72274), (64, 72307), (74, 72376), (78, 72394), (83, 72421), (87, 72445), (89, 72454), (115, 72691), (120, 72739),

Gene: Nimrod_93 Start: 56766, Stop: 57587, Start Num: 10

Candidate Starts for Nimrod_93:

(Start: 10 @56766 has 112 MA's), (Start: 12 @56784 has 13 MA's), (15, 56790), (31, 56907), (43, 56967), (44, 56976), (66, 57114), (94, 57273), (95, 57282), (105, 57345), (108, 57426), (118, 57516),

Gene: Nirvana_250 Start: 141161, Stop: 141862, Start Num: 9

Candidate Starts for Nirvana_250:

(7, 141152), (Start: 9 @141161 has 6 MA's), (38, 141341), (41, 141356), (47, 141404), (50, 141416), (64, 141512), (75, 141578), (77, 141593), (90, 141662), (96, 141695),

Gene: NoSleep_93 Start: 55400, Stop: 56221, Start Num: 10

Candidate Starts for NoSleep_93:

(Start: 10 @55400 has 112 MA's), (Start: 12 @55418 has 13 MA's), (15, 55424), (31, 55541), (43, 55601), (44, 55610), (66, 55748), (94, 55907), (95, 55916), (105, 55979), (108, 56060), (118, 56150),

Gene: Octobien14_68 Start: 43746, Stop: 44540, Start Num: 14

Candidate Starts for Octobien14_68:

(3, 43581), (4, 43608), (6, 43617), (8, 43710), (13, 43743), (Start: 14 @43746 has 1 MA's), (31, 43854), (35, 43875), (40, 43887), (41, 43899), (45, 43932), (46, 43938), (47, 43947), (55, 44010), (77, 44130), (78, 44133), (92, 44196), (93, 44202), (94, 44211), (110, 44367), (113, 44388), (114, 44394), (116, 44424), (122, 44478), (124, 44529), (125, 44532),

Gene: Odette_134 Start: 73078, Stop: 73833, Start Num: 11

Candidate Starts for Odette_134:

(Start: 11 @73078 has 35 MA's), (41, 73234), (45, 73267), (49, 73291), (52, 73315), (61, 73369), (62, 73375), (63, 73381), (65, 73390), (68, 73417), (69, 73429), (79, 73474), (81, 73489), (97, 73561),

Gene: Omega_140 Start: 72907, Stop: 73707, Start Num: 11

Candidate Starts for Omega_140:

(Start: 11 @72907 has 35 MA's), (22, 72967), (26, 73018), (30, 73033), (41, 73084), (58, 73198), (64, 73231), (74, 73300), (78, 73318), (83, 73345), (87, 73369), (89, 73378),

Gene: Optimus_123 Start: 69520, Stop: 70320, Start Num: 11

Candidate Starts for Optimus_123:

(Start: 11 @69520 has 35 MA's), (22, 69580), (26, 69631), (30, 69646), (41, 69697), (58, 69811), (64, 69844), (74, 69913), (78, 69931), (83, 69958), (87, 69982), (89, 69991), (115, 70228), (120, 70276),

Gene: OrionPax_91 Start: 55151, Stop: 55972, Start Num: 10

Candidate Starts for OrionPax_91:

(Start: 10 @55151 has 112 MA's), (Start: 12 @55169 has 13 MA's), (15, 55175), (31, 55292), (43, 55352), (44, 55361), (66, 55499), (94, 55658), (95, 55667), (105, 55730), (108, 55811), (118, 55901),

Gene: Palpatine_94 Start: 56804, Stop: 57625, Start Num: 10

Candidate Starts for Palpatine_94:

(Start: 10 @56804 has 112 MA's), (Start: 12 @56822 has 13 MA's), (15, 56828), (31, 56945), (43, 57005), (44, 57014), (66, 57152), (94, 57311), (95, 57320), (105, 57383), (108, 57464), (118, 57554),

Gene: Paperbeatsrock_91 Start: 56055, Stop: 56876, Start Num: 10

Candidate Starts for Paperbeatsrock_91:

(Start: 10 @56055 has 112 MA's), (Start: 12 @56073 has 13 MA's), (15, 56079), (31, 56196), (43, 56256), (44, 56265), (66, 56403), (94, 56562), (95, 56571), (105, 56634), (108, 56715), (118, 56805),

Gene: Pat3_89 Start: 54253, Stop: 55074, Start Num: 10

Candidate Starts for Pat3_89:

(Start: 10 @54253 has 112 MA's), (Start: 12 @54271 has 13 MA's), (15, 54277), (21, 54307), (43, 54454), (44, 54463), (67, 54610), (94, 54760), (118, 55003),

Gene: Petra64142_97 Start: 57258, Stop: 58079, Start Num: 10

Candidate Starts for Petra64142_97:

(Start: 10 @57258 has 112 MA's), (Start: 12 @57276 has 13 MA's), (15, 57282), (21, 57312), (43, 57459), (44, 57468), (67, 57615), (94, 57765), (118, 58008),

Gene: Phaja_90 Start: 55881, Stop: 56702, Start Num: 10

Candidate Starts for Phaja_90:

(Start: 10 @55881 has 112 MA's), (Start: 12 @55899 has 13 MA's), (15, 55905), (31, 56022), (43, 56082), (44, 56091), (66, 56229), (94, 56388), (95, 56397), (105, 56460), (108, 56541), (118, 56631),

Gene: Pharsalus_89 Start: 55855, Stop: 56676, Start Num: 10

Candidate Starts for Pharsalus_89:

(Start: 10 @55855 has 112 MA's), (Start: 12 @55873 has 13 MA's), (15, 55879), (31, 55996), (43, 56056), (44, 56065), (66, 56203), (94, 56362), (95, 56371), (105, 56434), (108, 56515), (118, 56605),

Gene: PhatBacter_96 Start: 56567, Stop: 57370, Start Num: 12

Candidate Starts for PhatBacter_96:

(Start: 10 @56549 has 112 MA's), (Start: 12 @56567 has 13 MA's), (15, 56573), (31, 56690), (43, 56750), (44, 56759), (66, 56897), (94, 57056), (95, 57065), (105, 57128), (108, 57209), (118, 57299),

Gene: Phaux_95 Start: 57091, Stop: 57912, Start Num: 10

Candidate Starts for Phaux_95:

(Start: 10 @57091 has 112 MA's), (Start: 12 @57109 has 13 MA's), (15, 57115), (31, 57232), (43, 57292), (44, 57301), (66, 57439), (94, 57598), (95, 57607), (105, 57670), (108, 57751), (118, 57841),

Gene: Phoebus_133 Start: 73877, Stop: 74677, Start Num: 11

Candidate Starts for Phoebus_133:

(Start: 11 @73877 has 35 MA's), (22, 73937), (26, 73988), (30, 74003), (41, 74054), (58, 74168), (64, 74201), (74, 74270), (78, 74288), (83, 74315), (87, 74339), (89, 74348), (115, 74585), (120, 74633),

Gene: Phrux_90 Start: 55367, Stop: 56188, Start Num: 10

Candidate Starts for Phrux_90:

(Start: 10 @55367 has 112 MA's), (Start: 12 @55385 has 13 MA's), (15, 55391), (31, 55508), (43, 55568), (44, 55577), (66, 55715), (94, 55874), (95, 55883), (105, 55946), (108, 56027), (118, 56117),

Gene: Policronamos_96 Start: 56822, Stop: 57643, Start Num: 10

Candidate Starts for Policronamos_96:

(Start: 10 @56822 has 112 MA's), (Start: 12 @56840 has 13 MA's), (15, 56846), (31, 56963), (43, 57023), (44, 57032), (66, 57170), (94, 57329), (95, 57338), (105, 57401), (108, 57482), (118, 57572),

Gene: Porcelain_128 Start: 69049, Stop: 69849, Start Num: 11

Candidate Starts for Porcelain_128:

(Start: 11 @69049 has 35 MA's), (22, 69109), (26, 69160), (30, 69175), (41, 69226), (58, 69340), (64, 69373), (74, 69442), (78, 69460), (83, 69487), (87, 69511), (89, 69520),

Gene: Porky_91 Start: 54967, Stop: 55788, Start Num: 10

Candidate Starts for Porky_91:

(Start: 10 @54967 has 112 MA's), (Start: 12 @54985 has 13 MA's), (15, 54991), (31, 55108), (43, 55168), (44, 55177), (66, 55315), (94, 55474), (95, 55483), (105, 55546), (108, 55627), (118, 55717),

Gene: Pound_121 Start: 70260, Stop: 71060, Start Num: 11

Candidate Starts for Pound_121:

(Start: 11 @70260 has 35 MA's), (22, 70320), (26, 70371), (30, 70386), (41, 70437), (58, 70551), (64, 70584), (74, 70653), (78, 70671), (83, 70698), (87, 70722), (89, 70731), (115, 70968), (120, 71016),

Gene: Pumpkin_96 Start: 56743, Stop: 57564, Start Num: 10

Candidate Starts for Pumpkin_96:

(Start: 10 @56743 has 112 MA's), (Start: 12 @56761 has 13 MA's), (15, 56767), (31, 56884), (43, 56944), (44, 56953), (66, 57091), (94, 57250), (95, 57259), (105, 57322), (108, 57403), (118, 57493),

Gene: Quallification_93 Start: 56463, Stop: 57284, Start Num: 10

Candidate Starts for Quallification_93:

(Start: 10 @56463 has 112 MA's), (Start: 12 @56481 has 13 MA's), (15, 56487), (31, 56604), (43, 56664), (44, 56673), (66, 56811), (94, 56970), (95, 56979), (105, 57042), (108, 57123), (118, 57213),

Gene: Rakim_93 Start: 55792, Stop: 56613, Start Num: 10

Candidate Starts for Rakim_93:

(Start: 10 @55792 has 112 MA's), (Start: 12 @55810 has 13 MA's), (15, 55816), (31, 55933), (43, 55993), (44, 56002), (66, 56140), (94, 56299), (95, 56308), (105, 56371), (108, 56452), (118, 56542),

Gene: Redno2_124 Start: 69310, Stop: 70065, Start Num: 11

Candidate Starts for Redno2_124:

(Start: 11 @69310 has 35 MA's), (41, 69466), (45, 69499), (49, 69523), (52, 69547), (61, 69601), (62, 69607), (63, 69613), (65, 69622), (68, 69649), (69, 69661), (79, 69706), (81, 69721), (97, 69793), (115, 69973), (120, 70021),

Gene: Rimmer_90 Start: 55364, Stop: 56185, Start Num: 10

Candidate Starts for Rimmer_90:

(Start: 10 @55364 has 112 MA's), (Start: 12 @55382 has 13 MA's), (15, 55388), (21, 55418), (43, 55565), (44, 55574), (67, 55721), (94, 55871), (118, 56114),

Gene: RiverMonster_93 Start: 56263, Stop: 57084, Start Num: 10

Candidate Starts for RiverMonster_93:

(Start: 10 @56263 has 112 MA's), (Start: 12 @56281 has 13 MA's), (15, 56287), (31, 56404), (43, 56464), (44, 56473), (66, 56611), (94, 56770), (95, 56779), (105, 56842), (108, 56923), (118, 57013),

Gene: Saints25_91 Start: 55406, Stop: 56227, Start Num: 10

Candidate Starts for Saints25_91:

(Start: 10 @55406 has 112 MA's), (Start: 12 @55424 has 13 MA's), (15, 55430), (31, 55547), (43, 55607), (44, 55616), (66, 55754), (94, 55913), (95, 55922), (105, 55985), (108, 56066), (118, 56156),

Gene: Sassay_87 Start: 54096, Stop: 54917, Start Num: 10

Candidate Starts for Sassay_87:

(Start: 10 @54096 has 112 MA's), (Start: 12 @54114 has 13 MA's), (15, 54120), (31, 54237), (43, 54297), (44, 54306), (66, 54444), (94, 54603), (95, 54612), (105, 54675), (108, 54756), (118, 54846),

Gene: Satis_218 Start: 131908, Stop: 132723, Start Num: 9

Candidate Starts for Satis_218:

(5, 131806), (Start: 9 @131908 has 6 MA's), (18, 131944), (34, 132076), (36, 132079), (39, 132088), (41, 132100), (42, 132106), (70, 132301), (73, 132316), (76, 132325), (79, 132343), (87, 132391), (88, 132397), (94, 132424), (101, 132460), (112, 132625), (117, 132673),

Gene: Schatzie_128 Start: 71973, Stop: 72773, Start Num: 11

Candidate Starts for Schatzie_128:

(Start: 11 @71973 has 35 MA's), (22, 72033), (26, 72084), (30, 72099), (41, 72150), (58, 72264), (64, 72297), (74, 72366), (78, 72384), (83, 72411), (87, 72435), (89, 72444), (115, 72681), (120, 72729),

Gene: Sephiroth_67 Start: 43627, Stop: 44433, Start Num: 16

Candidate Starts for Sephiroth_67:

(Start: 16 @43627 has 3 MA's), (20, 43636), (28, 43720), (29, 43723), (30, 43726), (32, 43741), (38, 43762), (41, 43777), (48, 43831), (55, 43885), (65, 43930), (69, 43969), (72, 43987), (78, 44008), (82, 44029), (91, 44068), (99, 44113), (100, 44119), (101, 44122), (107, 44179), (109, 44233), (111,

44260), (114, 44284), (115, 44299), (119, 44332), (120, 44347), (122, 44368), (125, 44425),

Gene: ShamWow_92 Start: 56276, Stop: 57097, Start Num: 10

Candidate Starts for ShamWow_92:

(Start: 10 @56276 has 112 MA's), (Start: 12 @56294 has 13 MA's), (15, 56300), (31, 56417), (43, 56477), (44, 56486), (66, 56624), (94, 56783), (95, 56792), (105, 56855), (108, 56936), (118, 57026),

Gene: ShereKhan_90 Start: 56388, Stop: 57209, Start Num: 10

Candidate Starts for ShereKhan_90:

(Start: 10 @56388 has 112 MA's), (Start: 12 @56406 has 13 MA's), (15, 56412), (31, 56529), (43, 56589), (44, 56598), (66, 56736), (94, 56895), (95, 56904), (105, 56967), (108, 57048), (118, 57138),

Gene: Simpliphy_91 Start: 55396, Stop: 56217, Start Num: 10

Candidate Starts for Simpliphy_91:

(Start: 10 @55396 has 112 MA's), (Start: 12 @55414 has 13 MA's), (15, 55420), (31, 55537), (43, 55597), (44, 55606), (66, 55744), (94, 55903), (95, 55912), (105, 55975), (108, 56056), (118, 56146),

Gene: SirDuracell_92 Start: 54769, Stop: 55590, Start Num: 10

Candidate Starts for SirDuracell_92:

(Start: 10 @54769 has 112 MA's), (Start: 12 @54787 has 13 MA's), (15, 54793), (31, 54910), (43, 54970), (44, 54979), (66, 55117), (94, 55276), (95, 55285), (105, 55348), (108, 55429), (118, 55519),

Gene: SophKB_89 Start: 55074, Stop: 55895, Start Num: 10

Candidate Starts for SophKB_89:

(Start: 10 @55074 has 112 MA's), (Start: 12 @55092 has 13 MA's), (15, 55098), (31, 55215), (43, 55275), (44, 55284), (66, 55422), (94, 55581), (95, 55590), (105, 55653), (108, 55734), (118, 55824),

Gene: Sotrice96_93 Start: 55662, Stop: 56483, Start Num: 10

Candidate Starts for Sotrice96_93:

(Start: 10 @55662 has 112 MA's), (Start: 12 @55680 has 13 MA's), (15, 55686), (31, 55803), (43, 55863), (44, 55872), (66, 56010), (94, 56169), (95, 56178), (105, 56241), (108, 56322), (118, 56412),

Gene: Squint_128 Start: 69351, Stop: 70109, Start Num: 10

Candidate Starts for Squint_128:

(Start: 10 @69351 has 112 MA's), (Start: 23 @69441 has 1 MA's), (41, 69510), (44, 69534), (45, 69543), (49, 69567), (52, 69591), (53, 69606), (55, 69618), (61, 69645), (63, 69657), (65, 69666), (69, 69705), (84, 69774), (97, 69837),

Gene: Stank_94 Start: 56055, Stop: 56876, Start Num: 10

Candidate Starts for Stank_94:

(Start: 10 @56055 has 112 MA's), (Start: 12 @56073 has 13 MA's), (15, 56079), (31, 56196), (43, 56256), (44, 56265), (66, 56403), (94, 56562), (95, 56571), (105, 56634), (108, 56715), (118, 56805),

Gene: Stark_94 Start: 56146, Stop: 56967, Start Num: 10

Candidate Starts for Stark_94:

(Start: 10 @56146 has 112 MA's), (Start: 12 @56164 has 13 MA's), (15, 56170), (31, 56287), (43, 56347), (44, 56356), (66, 56494), (94, 56653), (95, 56662), (105, 56725), (108, 56806), (118, 56896),

Gene: StellaBean_90 Start: 55600, Stop: 56421, Start Num: 10

Candidate Starts for StellaBean_90:

(Start: 10 @55600 has 112 MA's), (Start: 12 @55618 has 13 MA's), (15, 55624), (31, 55741), (43, 55801), (44, 55810), (66, 55948), (94, 56107), (95, 56116), (105, 56179), (108, 56260), (118, 56350),

Gene: StolenFromERC_95 Start: 55980, Stop: 56801, Start Num: 10

Candidate Starts for StolenFromERC_95:

(Start: 10 @55980 has 112 MA's), (Start: 12 @55998 has 13 MA's), (15, 56004), (31, 56121), (43, 56181), (44, 56190), (66, 56328), (94, 56487), (95, 56496), (105, 56559), (108, 56640), (118, 56730),

Gene: Stuff_47 Start: 34889, Stop: 35647, Start Num: 17

Candidate Starts for Stuff_47:

(2, 34655), (Start: 17 @34889 has 10 MA's), (24, 34967), (25, 34973), (27, 34982), (33, 35012), (35, 35021), (40, 35033), (54, 35156), (55, 35159), (57, 35165), (86, 35333), (87, 35336), (116, 35612),

Gene: Superphikiman_127 Start: 68353, Stop: 69021, Start Num: 23

Candidate Starts for Superphikiman_127:

(Start: 10 @68263 has 112 MA's), (Start: 23 @68353 has 1 MA's), (41, 68422), (44, 68446), (45, 68455), (49, 68479), (52, 68503), (53, 68518), (55, 68530), (61, 68557), (63, 68569), (65, 68578), (69, 68617), (84, 68686), (97, 68749),

Gene: Syleon_69 Start: 43568, Stop: 44374, Start Num: 16

Candidate Starts for Syleon_69:

(Start: 16 @43568 has 3 MA's), (20, 43577), (28, 43661), (29, 43664), (30, 43667), (32, 43682), (38, 43703), (41, 43718), (48, 43772), (55, 43826), (65, 43871), (69, 43910), (72, 43928), (78, 43949), (82, 43970), (91, 44009), (99, 44054), (100, 44060), (101, 44063), (107, 44120), (109, 44174), (111, 44201), (114, 44225), (115, 44240), (119, 44273), (120, 44288), (122, 44309), (125, 44366),

Gene: TBrady12_95 Start: 55816, Stop: 56637, Start Num: 10

Candidate Starts for TBrady12_95:

(Start: 10 @55816 has 112 MA's), (Start: 12 @55834 has 13 MA's), (15, 55840), (31, 55957), (43, 56017), (44, 56026), (66, 56164), (94, 56323), (95, 56332), (105, 56395), (108, 56476), (118, 56566),

Gene: Tarkin_91 Start: 56064, Stop: 56885, Start Num: 10

Candidate Starts for Tarkin_91:

(Start: 10 @56064 has 112 MA's), (Start: 12 @56082 has 13 MA's), (15, 56088), (31, 56205), (43, 56265), (44, 56274), (66, 56412), (94, 56571), (95, 56580), (105, 56643), (108, 56724), (118, 56814),

Gene: TeardropMSU_88 Start: 55064, Stop: 55885, Start Num: 10

Candidate Starts for TeardropMSU_88:

(Start: 10 @55064 has 112 MA's), (Start: 12 @55082 has 13 MA's), (15, 55088), (31, 55205), (43, 55265), (44, 55274), (66, 55412), (94, 55571), (95, 55580), (105, 55643), (108, 55724), (118, 55814),

Gene: Teaspoon_93 Start: 55916, Stop: 56737, Start Num: 10

Candidate Starts for Teaspoon_93:

(Start: 10 @55916 has 112 MA's), (Start: 12 @55934 has 13 MA's), (15, 55940), (31, 56057), (43, 56117), (44, 56126), (66, 56264), (94, 56423), (95, 56432), (105, 56495), (108, 56576), (118, 56666),

Gene: Terminus_95 Start: 56851, Stop: 57672, Start Num: 10

Candidate Starts for Terminus_95:

(Start: 10 @56851 has 112 MA's), (Start: 12 @56869 has 13 MA's), (15, 56875), (31, 56992), (43, 57052), (44, 57061), (66, 57199), (94, 57358), (95, 57367), (105, 57430), (108, 57511), (118, 57601),

Gene: Thibault_114 Start: 66645, Stop: 67445, Start Num: 11

Candidate Starts for Thibault_114:

(Start: 11 @66645 has 35 MA's), (22, 66705), (26, 66756), (30, 66771), (41, 66822), (58, 66936), (64, 66969), (74, 67038), (78, 67056), (83, 67083), (87, 67107), (89, 67116), (115, 67353), (120, 67401),

Gene: ThreeRngTarjay_128 Start: 72468, Stop: 73268, Start Num: 11

Candidate Starts for ThreeRngTarjay_128:

(Start: 11 @72468 has 35 MA's), (22, 72528), (26, 72579), (30, 72594), (41, 72645), (58, 72759), (64, 72792), (74, 72861), (78, 72879), (83, 72906), (87, 72930), (89, 72939), (115, 73176), (120, 73224),

Gene: Thresher_95 Start: 56926, Stop: 57747, Start Num: 10

Candidate Starts for Thresher_95:

(Start: 10 @56926 has 112 MA's), (Start: 12 @56944 has 13 MA's), (15, 56950), (31, 57067), (43, 57127), (44, 57136), (66, 57274), (94, 57433), (95, 57442), (105, 57505), (108, 57586), (118, 57676),

Gene: Tomaszewski_87 Start: 55227, Stop: 56048, Start Num: 10

Candidate Starts for Tomaszewski_87:

(Start: 10 @55227 has 112 MA's), (Start: 12 @55245 has 13 MA's), (15, 55251), (31, 55368), (43, 55428), (44, 55437), (66, 55575), (94, 55734), (95, 55743), (105, 55806), (108, 55887), (118, 55977),

Gene: Toto_90 Start: 56276, Stop: 57097, Start Num: 10

Candidate Starts for Toto_90:

(Start: 10 @56276 has 112 MA's), (Start: 12 @56294 has 13 MA's), (15, 56300), (31, 56417), (43, 56477), (44, 56486), (66, 56624), (94, 56783), (95, 56792), (105, 56855), (108, 56936), (118, 57026),

Gene: Traaww1_88 Start: 55084, Stop: 55905, Start Num: 10

Candidate Starts for Traaww1_88:

(Start: 10 @55084 has 112 MA's), (Start: 12 @55102 has 13 MA's), (15, 55108), (31, 55225), (43, 55285), (44, 55294), (66, 55432), (94, 55591), (95, 55600), (105, 55663), (108, 55744), (118, 55834),

Gene: Tuco_93 Start: 56823, Stop: 57644, Start Num: 10

Candidate Starts for Tuco_93:

(Start: 10 @56823 has 112 MA's), (Start: 12 @56841 has 13 MA's), (15, 56847), (31, 56964), (43, 57024), (44, 57033), (66, 57171), (94, 57330), (95, 57339), (105, 57402), (108, 57483), (118, 57573),

Gene: UNTPL_49 Start: 34934, Stop: 35686, Start Num: 17

Candidate Starts for UNTPL_49:

(Start: 17 @34934 has 10 MA's), (24, 35006), (25, 35012), (35, 35060), (40, 35072), (55, 35198), (57, 35204), (59, 35213), (86, 35372), (87, 35375), (116, 35651),

Gene: Ukulele_87 Start: 55209, Stop: 56030, Start Num: 10

Candidate Starts for Ukulele_87:

(Start: 10 @55209 has 112 MA's), (Start: 12 @55227 has 13 MA's), (15, 55233), (31, 55350), (43, 55410), (44, 55419), (66, 55557), (94, 55716), (95, 55725), (105, 55788), (108, 55869), (118, 55959),

Gene: Wanda_131 Start: 69603, Stop: 70403, Start Num: 11

Candidate Starts for Wanda_131:

(Start: 11 @69603 has 35 MA's), (22, 69663), (26, 69714), (30, 69729), (41, 69780), (58, 69894), (64, 69927), (74, 69996), (78, 70014), (83, 70041), (87, 70065), (89, 70074), (115, 70311), (120, 70359),

Gene: Wiggin_94 Start: 55485, Stop: 56306, Start Num: 10

Candidate Starts for Wiggin_94:

(Start: 10 @55485 has 112 MA's), (Start: 12 @55503 has 13 MA's), (15, 55509), (31, 55626), (43, 55686), (44, 55695), (66, 55833), (94, 55992), (95, 56001), (105, 56064), (108, 56145), (118, 56235),

Gene: Willez_87 Start: 54096, Stop: 54917, Start Num: 10

Candidate Starts for Willez_87:

(Start: 10 @54096 has 112 MA's), (Start: 12 @54114 has 13 MA's), (15, 54120), (31, 54237), (43, 54297), (44, 54306), (66, 54444), (94, 54603), (95, 54612), (105, 54675), (108, 54756), (118, 54846),

Gene: Xandras_91 Start: 55308, Stop: 56129, Start Num: 10

Candidate Starts for Xandras_91:

(Start: 10 @55308 has 112 MA's), (Start: 12 @55326 has 13 MA's), (15, 55332), (31, 55449), (43, 55509), (44, 55518), (66, 55656), (94, 55815), (95, 55824), (105, 55887), (108, 55968), (118, 56058),

Gene: YassJohnny_89 Start: 54949, Stop: 55770, Start Num: 10

Candidate Starts for YassJohnny_89:

(Start: 10 @54949 has 112 MA's), (Start: 12 @54967 has 13 MA's), (15, 54973), (31, 55090), (43, 55150), (44, 55159), (66, 55297), (94, 55456), (95, 55465), (105, 55528), (108, 55609), (118, 55699),

Gene: Yeet_124 Start: 71190, Stop: 71945, Start Num: 11

Candidate Starts for Yeet_124:

(Start: 11 @71190 has 35 MA's), (41, 71346), (45, 71379), (49, 71403), (52, 71427), (61, 71481), (62, 71487), (63, 71493), (65, 71502), (68, 71529), (69, 71541), (79, 71586), (81, 71601), (97, 71673),

Gene: Youngblood_95 Start: 56778, Stop: 57599, Start Num: 10

Candidate Starts for Youngblood_95:

(Start: 10 @56778 has 112 MA's), (Start: 12 @56796 has 13 MA's), (15, 56802), (31, 56919), (43, 56979), (44, 56988), (66, 57126), (94, 57285), (95, 57294), (105, 57357), (108, 57438), (118, 57528),

Gene: Zelink_127 Start: 72415, Stop: 73215, Start Num: 11

Candidate Starts for Zelink_127:

(Start: 11 @72415 has 35 MA's), (22, 72475), (26, 72526), (30, 72541), (41, 72592), (58, 72706), (64, 72739), (74, 72808), (78, 72826), (83, 72853), (87, 72877), (89, 72886), (115, 73123), (120, 73171),

Gene: xkcd_95 Start: 56962, Stop: 57783, Start Num: 10

Candidate Starts for xkcd_95:

(Start: 10 @56962 has 112 MA's), (Start: 12 @56980 has 13 MA's), (15, 56986), (31, 57103), (43, 57163), (44, 57172), (66, 57310), (94, 57469), (95, 57478), (105, 57541), (108, 57622), (118, 57712),