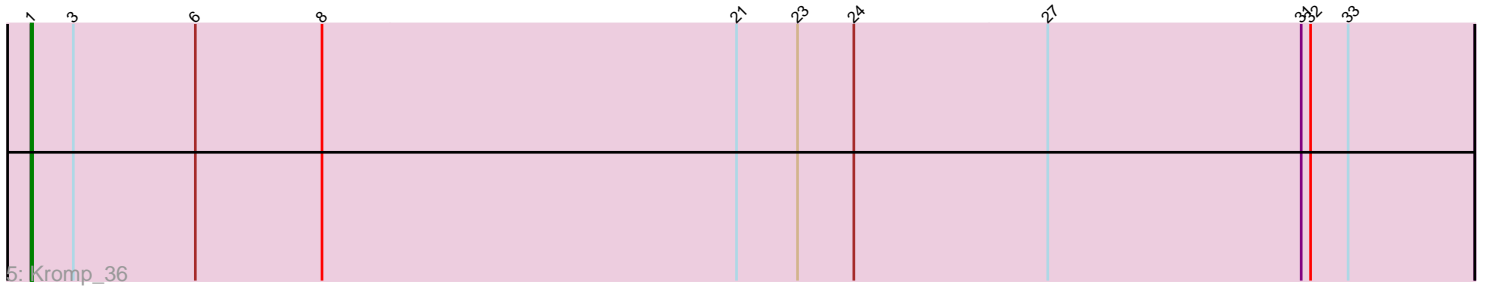
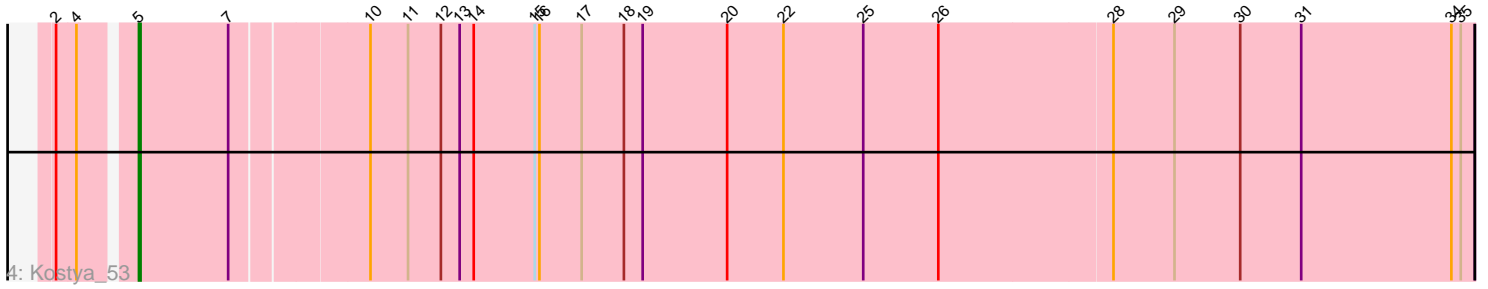
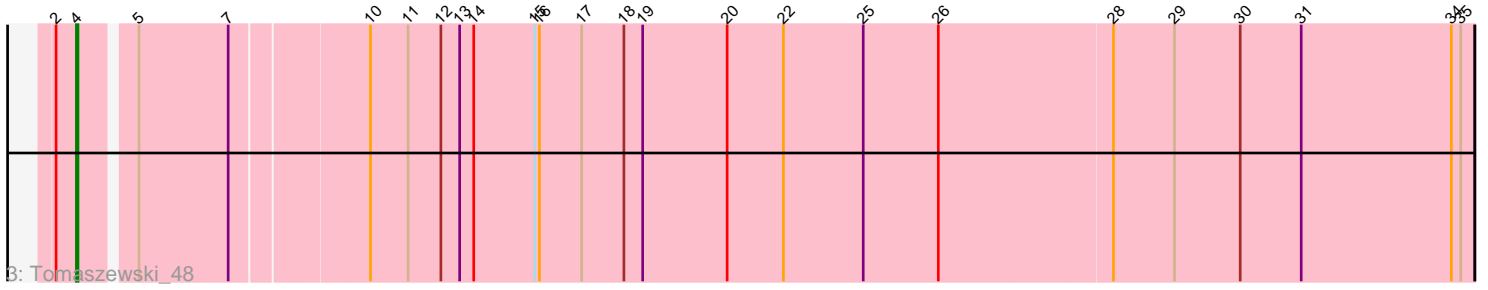
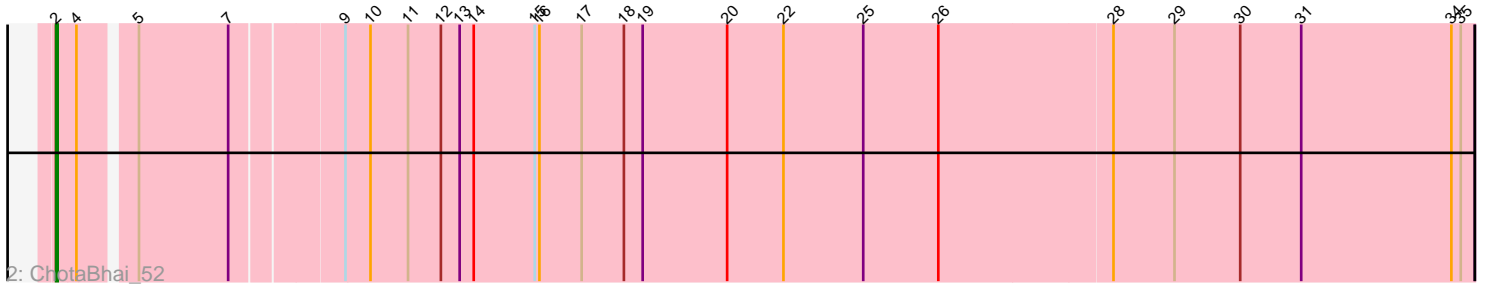
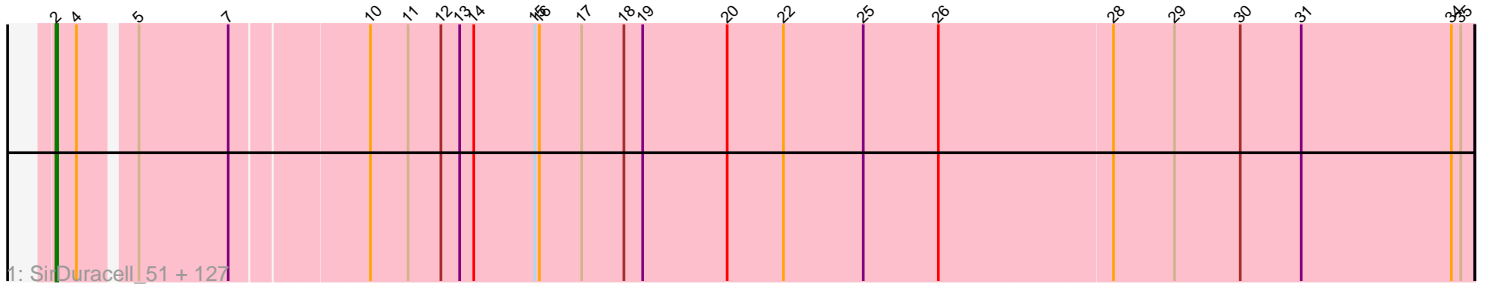


Pham 196363



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 196363 Report

This analysis was run 12/09/24 on database version 580.

WARNING: Pham size does not match number of genes in report. Either unphamerated genes have been added (by you) or starterator has removed genes due to invalid start codon.

Pham number 196363 has 132 members, 8 are drafts.

Phages represented in each track:

- Track 1 : SirDuracell_51, Henry_51, Phaja_50, ABCat_50, Argent26_55, RiverMonster_53, Wiggin_54, Simpliphy_51, GooberAzure_55, SophKB_49, Xandras_52, Youngblood_54, Goldilocks_54, Holt_57, StolenFromERC_55, Elph10_52, Filch_53, BugsBunny_53, Paperbeatsrock_51, Murica_54, Policronamos_57, Murphy_54, Nimrod_55, Contagion_49, Stank_56, BilboSwaggins_51, MadamMonkfish_52, Saints25_53, Pat3_50, Bask21_53, Barbarian_52, Dumbo_52, Phrux_50, Cookies_49, Elite2014_52, Daikon_53, Gemini_56, Lilac_55, Emmina_52, DrDrey_52, JeTaime_53, MISSy_52, Miniwave_49, Phaux_54, Czyszczon1_53, Porky_51, Tarkin_51, Gage_55, Amao_52, Bruin_48, NoSleep_54, Glexan_50, Kimchi_55, Nala_53, Asriel_52, HufflyPuff_54, Willez_46, Adnama_56, DoctorDiddles_52, Petra64142_57, Moldemort_55, Lilpickle_52, Palpatine_55, BigBubba_53, FireRed_55, Lilizi_52, Tuco_53, Buck_53, IHOP_50, Hopey_52, HanKaySha_51, ShereKhan_50, GoldenSpark_55, Traaww1_48, Thresher_55, OrionPax_51, Easy2Say_53, Harella_52, Command613_54, Quallification_53, Rakim_54, Terminus_54, AmericanBeauty_56, Sassay_46, PhatBacter_55, Bench_54, Pharsalus_50, Balomoji_51, Mosby_48, StellaBean_50, Gator_50, xkcd_56, YassJohnny_48, 244_53, CrystalP_52, Stark_53, Mindy_51, Hoonter_55, Dusk_50, Myrale_52, Manda_52, NelitzaMV_49, FairyPath_52, Misfit_54, TBrady12_55, Cjw1_52, Icee_52, BadStone_50, MPhalcon_52, Maxxinista_55, Marshmallow_51, TeardropMSU_48, Toto_51, Kanye_48, Rimmer_53, ChosenOne_53, Teaspoon_53, Goku_50, ShamWow_52, Sotrice96_53, Inca_49, Pumpkin_54, Highbury_53, Flypotenuse_47, BaboJay_48, Cactus_54, Ukulele_49, Eureka_50
- Track 2 : ChotaBhai_52
- Track 3 : Tomaszewski_48
- Track 4 : Kostya_53
- Track 5 : Kromp_36

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

The start number called the most often in the published annotations is 2, it was called in 121 of the 124 non-draft genes in the pham.

Genes that call this "Most Annotated" start:

- 244_53, ABCat_50, Adnama_56, Amao_52, AmericanBeauty_56, Argent26_55, Asriel_52, BaboJay_48, BadStone_50, Balomoji_51, Barbarian_52, Bask21_53, Bench_54, BigBubba_53, BilboSwaggins_51, Bruin_48, Buck_53, BugsBunny_53, Cactus_54, ChosenOne_53, ChotaBhai_52, Cjw1_52, Command613_54, Contagion_49, Cookies_49, CrystalP_52, Czyszczonek_53, Daikon_53, DoctorDiddles_52, DrDrey_52, Dumbo_52, Dusk_50, Easy2Say_53, Elite2014_52, Elph10_52, Emmina_52, Eureka_50, FairyPath_52, Filch_53, FireRed_55, Flypotenuse_47, Gage_55, Gator_50, Gemini_56, Glexan_50, Goku_50, GoldenSpark_55, Goldilocks_54, GooberAzure_55, HanKaySha_51, Harella_52, Henry_51, Highbury_53, Holt_57, Hoonter_55, Hopey_52, HufflyPuff_54, IHOP_50, Icee_52, Inca_49, JeTaime_53, Kanye_48, Kimchi_55, Lilac_55, Lilizi_52, Lilpickle_52, MISSy_52, MPhalcon_52, MadamMonkfish_52, Manda_52, Marshmallow_51, Maxxinista_55, Mindy_51, Miniwave_49, Misfit_54, Moldemort_55, Mosby_48, Murica_54, Murphy_54, Myrale_52, Nala_53, NelitzaMV_49, Nimrod_55, NoSleep_54, OrionPax_51, Palpatine_55, Paperbeatsrock_51, Pat3_50, Petra64142_57, Phaja_50, Pharsalus_50, PhatBacter_55, Phaux_54, Phrux_50, Policronamos_57, Porky_51, Pumpkin_54, Quallification_53, Rakim_54, Rimmer_53, RiverMonster_53, Saints25_53, Sassay_46, ShamWow_52, ShereKhan_50, Simpliphy_51, SirDuracell_51, SophKB_49, Sotrice96_53, Stank_56, Stark_53, StellaBean_50, StolenFromERC_55, TBrady12_55, Tarkin_51, TeardropMSU_48, Teaspoon_53, Terminus_54, Thresher_55, Toto_51, Traaww1_48, Tuco_53, Ukulele_49, Wiggin_54, Willez_46, Xandras_52, YassJohnny_48, Youngblood_54, xkcd_56,

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

- Kostya_53, Tomaszewski_48,

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

- Kromp_36,

Summary by start number:

Start 1:

- Found in 1 of 132 (0.8%) of genes in pham
- Manual Annotations of this start: 1 of 124
- Called 100.0% of time when present
- Phage (with cluster) where this start called: Kromp_36 (singleton),

Start 2:

- Found in 131 of 132 (99.2%) of genes in pham
- Manual Annotations of this start: 121 of 124
- Called 98.5% of time when present
- Phage (with cluster) where this start called: 244_53 (E), ABCat_50 (E), Adnama_56 (E), Amao_52 (E), AmericanBeauty_56 (E), Argent26_55 (E), Asriel_52 (E), BaboJay_48 (E), BadStone_50 (E), Balomoji_51 (E), Barbarian_52 (E), Bask21_53 (E), Bench_54 (E), BigBubba_53 (E), BilboSwaggins_51 (E), Bruin_48 (E), Buck_53 (E), BugsBunny_53 (E), Cactus_54 (E), ChosenOne_53 (E), ChotaBhai_52 (E), Cjw1_52 (E), Command613_54 (E), Contagion_49 (E), Cookies_49 (E), CrystalP_52 (E), Czyszczonek_53 (E), Daikon_53 (E), DoctorDiddles_52 (E), DrDrey_52 (E),

Dumbo_52 (E), Dusk_50 (E), Easy2Say_53 (E), Elite2014_52 (E), Elph10_52 (E), Emmina_52 (E), Eureka_50 (E), FairyPath_52 (E), Filch_53 (E), FireRed_55 (E), Flypotenuse_47 (E), Gage_55 (E), Gator_50 (E), Gemini_56 (E), Glexan_50 (E), Goku_50 (E), GoldenSpark_55 (E), Goldilocks_54 (E), GooberAzure_55 (E), HanKaySha_51 (E), Harella_52 (E), Henry_51 (E), Highbury_53 (E), Holt_57 (E), Hoonter_55 (E), Hohey_52 (E), HufflyPuff_54 (E), IHOP_50 (E), Icee_52 (E), Inca_49 (E), JeTaimé_53 (E), Kanye_48 (E), Kimchi_55 (E), Lilac_55 (E), Lilizi_52 (E), Lilpickle_52 (E), MISSy_52 (E), MPhalcon_52 (E), MadamMonkfish_52 (E), Manda_52 (E), Marshmallow_51 (E), Maxxinista_55 (E), Mindy_51 (E), Miniwave_49 (E), Misfit_54 (E), Moldemort_55 (E), Mosby_48 (E), Murica_54 (E), Murphy_54 (E), Myrale_52 (E), Nala_53 (E), NelitzaMV_49 (E), Nimrod_55 (E), NoSleep_54 (E), OrionPax_51 (E), Palpatine_55 (E), Paperbeatsrock_51 (E), Pat3_50 (E), Petra64142_57 (E), Phaja_50 (E), Pharsalus_50 (E), PhatBacter_55 (E), Phaux_54 (E), Phrux_50 (E), Policronamos_57 (E), Porky_51 (E), Pumpkin_54 (E), Quallification_53 (E), Rakim_54 (E), Rimmer_53 (E), RiverMonster_53 (E), Saints25_53 (E), Sassay_46 (E), ShamWow_52 (E), ShereKhan_50 (E), Simpliphy_51 (E), SirDuracell_51 (E), SophKB_49 (E), Sotrice96_53 (E), Stank_56 (E), Stark_53 (E), StellaBean_50 (E), StolenFromERC_55 (E), TBrady12_55 (E), Tarkin_51 (E), TeardropMSU_48 (E), Teaspoon_53 (E), Terminus_54 (E), Thresher_55 (E), Toto_51 (E), Traaww1_48 (E), Tuco_53 (E), Ukulele_49 (E), Wiggin_54 (E), Willez_46 (E), Xandras_52 (E), YassJohnny_48 (E), Youngblood_54 (E), xkcd_56 (E),

Start 4:

- Found in 131 of 132 (99.2%) of genes in pham
- Manual Annotations of this start: 1 of 124
- Called 0.8% of time when present
- Phage (with cluster) where this start called: Tomaszewski_48 (E),

Start 5:

- Found in 131 of 132 (99.2%) of genes in pham
- Manual Annotations of this start: 1 of 124
- Called 0.8% of time when present
- Phage (with cluster) where this start called: Kostya_53 (E),

Summary by clusters:

There are 2 clusters represented in this pham: singleton, E,

Info for manual annotations of cluster E:

- Start number 2 was manually annotated 121 times for cluster E.
- Start number 4 was manually annotated 1 time for cluster E.
- Start number 5 was manually annotated 1 time for cluster E.

Gene Information:

Gene: 244_53 Start: 37711, Stop: 38592, Start Num: 2

Candidate Starts for 244_53:

(Start: 2 @37711 has 121 MA's), (Start: 4 @37723 has 1 MA's), (Start: 5 @37753 has 1 MA's), (7, 37810), (10, 37891), (11, 37915), (12, 37936), (13, 37948), (14, 37957), (15, 37996), (16, 37999), (17, 38026), (18, 38053), (19, 38065), (20, 38119), (22, 38155), (25, 38206), (26, 38254), (28, 38362), (29,

38401), (30, 38443), (31, 38482), (34, 38578), (35, 38584),

Gene: ABCat_50 Start: 38357, Stop: 39238, Start Num: 2

Candidate Starts for ABCat_50:

(Start: 2 @38357 has 121 MA's), (Start: 4 @38369 has 1 MA's), (Start: 5 @38399 has 1 MA's), (7, 38456), (10, 38537), (11, 38561), (12, 38582), (13, 38594), (14, 38603), (15, 38642), (16, 38645), (17, 38672), (18, 38699), (19, 38711), (20, 38765), (22, 38801), (25, 38852), (26, 38900), (28, 39008), (29, 39047), (30, 39089), (31, 39128), (34, 39224), (35, 39230),

Gene: Adnama_56 Start: 38380, Stop: 39261, Start Num: 2

Candidate Starts for Adnama_56:

(Start: 2 @38380 has 121 MA's), (Start: 4 @38392 has 1 MA's), (Start: 5 @38422 has 1 MA's), (7, 38479), (10, 38560), (11, 38584), (12, 38605), (13, 38617), (14, 38626), (15, 38665), (16, 38668), (17, 38695), (18, 38722), (19, 38734), (20, 38788), (22, 38824), (25, 38875), (26, 38923), (28, 39031), (29, 39070), (30, 39112), (31, 39151), (34, 39247), (35, 39253),

Gene: Amao_52 Start: 37475, Stop: 38356, Start Num: 2

Candidate Starts for Amao_52:

(Start: 2 @37475 has 121 MA's), (Start: 4 @37487 has 1 MA's), (Start: 5 @37517 has 1 MA's), (7, 37574), (10, 37655), (11, 37679), (12, 37700), (13, 37712), (14, 37721), (15, 37760), (16, 37763), (17, 37790), (18, 37817), (19, 37829), (20, 37883), (22, 37919), (25, 37970), (26, 38018), (28, 38126), (29, 38165), (30, 38207), (31, 38246), (34, 38342), (35, 38348),

Gene: AmericanBeauty_56 Start: 38225, Stop: 39106, Start Num: 2

Candidate Starts for AmericanBeauty_56:

(Start: 2 @38225 has 121 MA's), (Start: 4 @38237 has 1 MA's), (Start: 5 @38267 has 1 MA's), (7, 38324), (10, 38405), (11, 38429), (12, 38450), (13, 38462), (14, 38471), (15, 38510), (16, 38513), (17, 38540), (18, 38567), (19, 38579), (20, 38633), (22, 38669), (25, 38720), (26, 38768), (28, 38876), (29, 38915), (30, 38957), (31, 38996), (34, 39092), (35, 39098),

Gene: Argent26_55 Start: 37863, Stop: 38744, Start Num: 2

Candidate Starts for Argent26_55:

(Start: 2 @37863 has 121 MA's), (Start: 4 @37875 has 1 MA's), (Start: 5 @37905 has 1 MA's), (7, 37962), (10, 38043), (11, 38067), (12, 38088), (13, 38100), (14, 38109), (15, 38148), (16, 38151), (17, 38178), (18, 38205), (19, 38217), (20, 38271), (22, 38307), (25, 38358), (26, 38406), (28, 38514), (29, 38553), (30, 38595), (31, 38634), (34, 38730), (35, 38736),

Gene: Asriel_52 Start: 36717, Stop: 37598, Start Num: 2

Candidate Starts for Asriel_52:

(Start: 2 @36717 has 121 MA's), (Start: 4 @36729 has 1 MA's), (Start: 5 @36759 has 1 MA's), (7, 36816), (10, 36897), (11, 36921), (12, 36942), (13, 36954), (14, 36963), (15, 37002), (16, 37005), (17, 37032), (18, 37059), (19, 37071), (20, 37125), (22, 37161), (25, 37212), (26, 37260), (28, 37368), (29, 37407), (30, 37449), (31, 37488), (34, 37584), (35, 37590),

Gene: BaboJay_48 Start: 37263, Stop: 38144, Start Num: 2

Candidate Starts for BaboJay_48:

(Start: 2 @37263 has 121 MA's), (Start: 4 @37275 has 1 MA's), (Start: 5 @37305 has 1 MA's), (7, 37362), (10, 37443), (11, 37467), (12, 37488), (13, 37500), (14, 37509), (15, 37548), (16, 37551), (17, 37578), (18, 37605), (19, 37617), (20, 37671), (22, 37707), (25, 37758), (26, 37806), (28, 37914), (29, 37953), (30, 37995), (31, 38034), (34, 38130), (35, 38136),

Gene: BadStone_50 Start: 37926, Stop: 38807, Start Num: 2

Candidate Starts for BadStone_50:

(Start: 2 @37926 has 121 MA's), (Start: 4 @37938 has 1 MA's), (Start: 5 @37968 has 1 MA's), (7, 38025), (10, 38106), (11, 38130), (12, 38151), (13, 38163), (14, 38172), (15, 38211), (16, 38214), (17, 38241), (18, 38268), (19, 38280), (20, 38334), (22, 38370), (25, 38421), (26, 38469), (28, 38577), (29, 38616), (30, 38658), (31, 38697), (34, 38793), (35, 38799),

Gene: Balomoji_51 Start: 38194, Stop: 39075, Start Num: 2

Candidate Starts for Balomoji_51:

(Start: 2 @38194 has 121 MA's), (Start: 4 @38206 has 1 MA's), (Start: 5 @38236 has 1 MA's), (7, 38293), (10, 38374), (11, 38398), (12, 38419), (13, 38431), (14, 38440), (15, 38479), (16, 38482), (17, 38509), (18, 38536), (19, 38548), (20, 38602), (22, 38638), (25, 38689), (26, 38737), (28, 38845), (29, 38884), (30, 38926), (31, 38965), (34, 39061), (35, 39067),

Gene: Barbarian_52 Start: 36717, Stop: 37598, Start Num: 2

Candidate Starts for Barbarian_52:

(Start: 2 @36717 has 121 MA's), (Start: 4 @36729 has 1 MA's), (Start: 5 @36759 has 1 MA's), (7, 36816), (10, 36897), (11, 36921), (12, 36942), (13, 36954), (14, 36963), (15, 37002), (16, 37005), (17, 37032), (18, 37059), (19, 37071), (20, 37125), (22, 37161), (25, 37212), (26, 37260), (28, 37368), (29, 37407), (30, 37449), (31, 37488), (34, 37584), (35, 37590),

Gene: Bask21_53 Start: 37051, Stop: 37932, Start Num: 2

Candidate Starts for Bask21_53:

(Start: 2 @37051 has 121 MA's), (Start: 4 @37063 has 1 MA's), (Start: 5 @37093 has 1 MA's), (7, 37150), (10, 37231), (11, 37255), (12, 37276), (13, 37288), (14, 37297), (15, 37336), (16, 37339), (17, 37366), (18, 37393), (19, 37405), (20, 37459), (22, 37495), (25, 37546), (26, 37594), (28, 37702), (29, 37741), (30, 37783), (31, 37822), (34, 37918), (35, 37924),

Gene: Bench_54 Start: 37695, Stop: 38576, Start Num: 2

Candidate Starts for Bench_54:

(Start: 2 @37695 has 121 MA's), (Start: 4 @37707 has 1 MA's), (Start: 5 @37737 has 1 MA's), (7, 37794), (10, 37875), (11, 37899), (12, 37920), (13, 37932), (14, 37941), (15, 37980), (16, 37983), (17, 38010), (18, 38037), (19, 38049), (20, 38103), (22, 38139), (25, 38190), (26, 38238), (28, 38346), (29, 38385), (30, 38427), (31, 38466), (34, 38562), (35, 38568),

Gene: BigBubba_53 Start: 37736, Stop: 38617, Start Num: 2

Candidate Starts for BigBubba_53:

(Start: 2 @37736 has 121 MA's), (Start: 4 @37748 has 1 MA's), (Start: 5 @37778 has 1 MA's), (7, 37835), (10, 37916), (11, 37940), (12, 37961), (13, 37973), (14, 37982), (15, 38021), (16, 38024), (17, 38051), (18, 38078), (19, 38090), (20, 38144), (22, 38180), (25, 38231), (26, 38279), (28, 38387), (29, 38426), (30, 38468), (31, 38507), (34, 38603), (35, 38609),

Gene: BilboSwaggins_51 Start: 38365, Stop: 39246, Start Num: 2

Candidate Starts for BilboSwaggins_51:

(Start: 2 @38365 has 121 MA's), (Start: 4 @38377 has 1 MA's), (Start: 5 @38407 has 1 MA's), (7, 38464), (10, 38545), (11, 38569), (12, 38590), (13, 38602), (14, 38611), (15, 38650), (16, 38653), (17, 38680), (18, 38707), (19, 38719), (20, 38773), (22, 38809), (25, 38860), (26, 38908), (28, 39016), (29, 39055), (30, 39097), (31, 39136), (34, 39232), (35, 39238),

Gene: Bruin_48 Start: 36604, Stop: 37485, Start Num: 2

Candidate Starts for Bruin_48:

(Start: 2 @36604 has 121 MA's), (Start: 4 @36616 has 1 MA's), (Start: 5 @36646 has 1 MA's), (7, 36703), (10, 36784), (11, 36808), (12, 36829), (13, 36841), (14, 36850), (15, 36889), (16, 36892), (17, 36919), (18, 36946), (19, 36958), (20, 37012), (22, 37048), (25, 37099), (26, 37147), (28, 37255), (29, 37294), (30, 37336), (31, 37375), (34, 37471), (35, 37477),

Gene: Buck_53 Start: 38311, Stop: 39192, Start Num: 2

Candidate Starts for Buck_53:

(Start: 2 @38311 has 121 MA's), (Start: 4 @38323 has 1 MA's), (Start: 5 @38353 has 1 MA's), (7, 38410), (10, 38491), (11, 38515), (12, 38536), (13, 38548), (14, 38557), (15, 38596), (16, 38599), (17, 38626), (18, 38653), (19, 38665), (20, 38719), (22, 38755), (25, 38806), (26, 38854), (28, 38962), (29, 39001), (30, 39043), (31, 39082), (34, 39178), (35, 39184),

Gene: BugsBunny_53 Start: 38142, Stop: 39023, Start Num: 2

Candidate Starts for BugsBunny_53:

(Start: 2 @38142 has 121 MA's), (Start: 4 @38154 has 1 MA's), (Start: 5 @38184 has 1 MA's), (7, 38241), (10, 38322), (11, 38346), (12, 38367), (13, 38379), (14, 38388), (15, 38427), (16, 38430), (17, 38457), (18, 38484), (19, 38496), (20, 38550), (22, 38586), (25, 38637), (26, 38685), (28, 38793), (29, 38832), (30, 38874), (31, 38913), (34, 39009), (35, 39015),

Gene: Cactus_54 Start: 37084, Stop: 37965, Start Num: 2

Candidate Starts for Cactus_54:

(Start: 2 @37084 has 121 MA's), (Start: 4 @37096 has 1 MA's), (Start: 5 @37126 has 1 MA's), (7, 37183), (10, 37264), (11, 37288), (12, 37309), (13, 37321), (14, 37330), (15, 37369), (16, 37372), (17, 37399), (18, 37426), (19, 37438), (20, 37492), (22, 37528), (25, 37579), (26, 37627), (28, 37735), (29, 37774), (30, 37816), (31, 37855), (34, 37951), (35, 37957),

Gene: ChosenOne_53 Start: 37384, Stop: 38265, Start Num: 2

Candidate Starts for ChosenOne_53:

(Start: 2 @37384 has 121 MA's), (Start: 4 @37396 has 1 MA's), (Start: 5 @37426 has 1 MA's), (7, 37483), (10, 37564), (11, 37588), (12, 37609), (13, 37621), (14, 37630), (15, 37669), (16, 37672), (17, 37699), (18, 37726), (19, 37738), (20, 37792), (22, 37828), (25, 37879), (26, 37927), (28, 38035), (29, 38074), (30, 38116), (31, 38155), (34, 38251), (35, 38257),

Gene: ChotaBhai_52 Start: 37406, Stop: 38287, Start Num: 2

Candidate Starts for ChotaBhai_52:

(Start: 2 @37406 has 121 MA's), (Start: 4 @37418 has 1 MA's), (Start: 5 @37448 has 1 MA's), (7, 37505), (9, 37571), (10, 37586), (11, 37610), (12, 37631), (13, 37643), (14, 37652), (15, 37691), (16, 37694), (17, 37721), (18, 37748), (19, 37760), (20, 37814), (22, 37850), (25, 37901), (26, 37949), (28, 38057), (29, 38096), (30, 38138), (31, 38177), (34, 38273), (35, 38279),

Gene: Cjw1_52 Start: 38785, Stop: 39666, Start Num: 2

Candidate Starts for Cjw1_52:

(Start: 2 @38785 has 121 MA's), (Start: 4 @38797 has 1 MA's), (Start: 5 @38827 has 1 MA's), (7, 38884), (10, 38965), (11, 38989), (12, 39010), (13, 39022), (14, 39031), (15, 39070), (16, 39073), (17, 39100), (18, 39127), (19, 39139), (20, 39193), (22, 39229), (25, 39280), (26, 39328), (28, 39436), (29, 39475), (30, 39517), (31, 39556), (34, 39652), (35, 39658),

Gene: Command613_54 Start: 38123, Stop: 39004, Start Num: 2

Candidate Starts for Command613_54:

(Start: 2 @38123 has 121 MA's), (Start: 4 @38135 has 1 MA's), (Start: 5 @38165 has 1 MA's), (7, 38222), (10, 38303), (11, 38327), (12, 38348), (13, 38360), (14, 38369), (15, 38408), (16, 38411), (17, 38438), (18, 38465), (19, 38477), (20, 38531), (22, 38567), (25, 38618), (26, 38666), (28, 38774), (29, 38813), (30, 38855), (31, 38894), (34, 38990), (35, 38996),

Gene: Contagion_49 Start: 36885, Stop: 37766, Start Num: 2

Candidate Starts for Contagion_49:

(Start: 2 @36885 has 121 MA's), (Start: 4 @36897 has 1 MA's), (Start: 5 @36927 has 1 MA's), (7, 36984), (10, 37065), (11, 37089), (12, 37110), (13, 37122), (14, 37131), (15, 37170), (16, 37173), (17, 37200), (18, 37227), (19, 37239), (20, 37293), (22, 37329), (25, 37380), (26, 37428), (28, 37536), (29, 37575), (30, 37617), (31, 37656), (34, 37752), (35, 37758),

Gene: Cookies_49 Start: 37256, Stop: 38137, Start Num: 2

Candidate Starts for Cookies_49:

(Start: 2 @37256 has 121 MA's), (Start: 4 @37268 has 1 MA's), (Start: 5 @37298 has 1 MA's), (7, 37355), (10, 37436), (11, 37460), (12, 37481), (13, 37493), (14, 37502), (15, 37541), (16, 37544), (17, 37571), (18, 37598), (19, 37610), (20, 37664), (22, 37700), (25, 37751), (26, 37799), (28, 37907), (29, 37946), (30, 37988), (31, 38027), (34, 38123), (35, 38129),

Gene: CrystalP_52 Start: 38365, Stop: 39246, Start Num: 2

Candidate Starts for CrystalP_52:

(Start: 2 @38365 has 121 MA's), (Start: 4 @38377 has 1 MA's), (Start: 5 @38407 has 1 MA's), (7, 38464), (10, 38545), (11, 38569), (12, 38590), (13, 38602), (14, 38611), (15, 38650), (16, 38653), (17, 38680), (18, 38707), (19, 38719), (20, 38773), (22, 38809), (25, 38860), (26, 38908), (28, 39016), (29, 39055), (30, 39097), (31, 39136), (34, 39232), (35, 39238),

Gene: Czyszczone1_53 Start: 37594, Stop: 38475, Start Num: 2

Candidate Starts for Czyszczone1_53:

(Start: 2 @37594 has 121 MA's), (Start: 4 @37606 has 1 MA's), (Start: 5 @37636 has 1 MA's), (7, 37693), (10, 37774), (11, 37798), (12, 37819), (13, 37831), (14, 37840), (15, 37879), (16, 37882), (17, 37909), (18, 37936), (19, 37948), (20, 38002), (22, 38038), (25, 38089), (26, 38137), (28, 38245), (29, 38284), (30, 38326), (31, 38365), (34, 38461), (35, 38467),

Gene: Daikon_53 Start: 38215, Stop: 39096, Start Num: 2

Candidate Starts for Daikon_53:

(Start: 2 @38215 has 121 MA's), (Start: 4 @38227 has 1 MA's), (Start: 5 @38257 has 1 MA's), (7, 38314), (10, 38395), (11, 38419), (12, 38440), (13, 38452), (14, 38461), (15, 38500), (16, 38503), (17, 38530), (18, 38557), (19, 38569), (20, 38623), (22, 38659), (25, 38710), (26, 38758), (28, 38866), (29, 38905), (30, 38947), (31, 38986), (34, 39082), (35, 39088),

Gene: DoctorDiddles_52 Start: 37442, Stop: 38323, Start Num: 2

Candidate Starts for DoctorDiddles_52:

(Start: 2 @37442 has 121 MA's), (Start: 4 @37454 has 1 MA's), (Start: 5 @37484 has 1 MA's), (7, 37541), (10, 37622), (11, 37646), (12, 37667), (13, 37679), (14, 37688), (15, 37727), (16, 37730), (17, 37757), (18, 37784), (19, 37796), (20, 37850), (22, 37886), (25, 37937), (26, 37985), (28, 38093), (29, 38132), (30, 38174), (31, 38213), (34, 38309), (35, 38315),

Gene: DrDrey_52 Start: 38513, Stop: 39394, Start Num: 2

Candidate Starts for DrDrey_52:

(Start: 2 @38513 has 121 MA's), (Start: 4 @38525 has 1 MA's), (Start: 5 @38555 has 1 MA's), (7, 38612), (10, 38693), (11, 38717), (12, 38738), (13, 38750), (14, 38759), (15, 38798), (16, 38801), (17, 38828), (18, 38855), (19, 38867), (20, 38921), (22, 38957), (25, 39008), (26, 39056), (28, 39164), (29, 39203), (30, 39245), (31, 39284), (34, 39380), (35, 39386),

Gene: Dumbo_52 Start: 37289, Stop: 38170, Start Num: 2

Candidate Starts for Dumbo_52:

(Start: 2 @37289 has 121 MA's), (Start: 4 @37301 has 1 MA's), (Start: 5 @37331 has 1 MA's), (7, 37388), (10, 37469), (11, 37493), (12, 37514), (13, 37526), (14, 37535), (15, 37574), (16, 37577), (17, 37604), (18, 37631), (19, 37643), (20, 37697), (22, 37733), (25, 37784), (26, 37832), (28, 37940), (29, 37979), (30, 38021), (31, 38060), (34, 38156), (35, 38162),

Gene: Dusk_50 Start: 37586, Stop: 38467, Start Num: 2

Candidate Starts for Dusk_50:

(Start: 2 @37586 has 121 MA's), (Start: 4 @37598 has 1 MA's), (Start: 5 @37628 has 1 MA's), (7, 37685), (10, 37766), (11, 37790), (12, 37811), (13, 37823), (14, 37832), (15, 37871), (16, 37874), (17, 37901), (18, 37928), (19, 37940), (20, 37994), (22, 38030), (25, 38081), (26, 38129), (28, 38237), (29, 38276), (30, 38318), (31, 38357), (34, 38453), (35, 38459),

Gene: Easy2Say_53 Start: 38827, Stop: 39708, Start Num: 2

Candidate Starts for Easy2Say_53:

(Start: 2 @38827 has 121 MA's), (Start: 4 @38839 has 1 MA's), (Start: 5 @38869 has 1 MA's), (7, 38926), (10, 39007), (11, 39031), (12, 39052), (13, 39064), (14, 39073), (15, 39112), (16, 39115), (17, 39142), (18, 39169), (19, 39181), (20, 39235), (22, 39271), (25, 39322), (26, 39370), (28, 39478), (29, 39517), (30, 39559), (31, 39598), (34, 39694), (35, 39700),

Gene: Elite2014_52 Start: 37383, Stop: 38264, Start Num: 2

Candidate Starts for Elite2014_52:

(Start: 2 @37383 has 121 MA's), (Start: 4 @37395 has 1 MA's), (Start: 5 @37425 has 1 MA's), (7, 37482), (10, 37563), (11, 37587), (12, 37608), (13, 37620), (14, 37629), (15, 37668), (16, 37671), (17, 37698), (18, 37725), (19, 37737), (20, 37791), (22, 37827), (25, 37878), (26, 37926), (28, 38034), (29, 38073), (30, 38115), (31, 38154), (34, 38250), (35, 38256),

Gene: Elph10_52 Start: 37092, Stop: 37973, Start Num: 2

Candidate Starts for Elph10_52:

(Start: 2 @37092 has 121 MA's), (Start: 4 @37104 has 1 MA's), (Start: 5 @37134 has 1 MA's), (7, 37191), (10, 37272), (11, 37296), (12, 37317), (13, 37329), (14, 37338), (15, 37377), (16, 37380), (17, 37407), (18, 37434), (19, 37446), (20, 37500), (22, 37536), (25, 37587), (26, 37635), (28, 37743), (29, 37782), (30, 37824), (31, 37863), (34, 37959), (35, 37965),

Gene: Emmina_52 Start: 37290, Stop: 38171, Start Num: 2

Candidate Starts for Emmina_52:

(Start: 2 @37290 has 121 MA's), (Start: 4 @37302 has 1 MA's), (Start: 5 @37332 has 1 MA's), (7, 37389), (10, 37470), (11, 37494), (12, 37515), (13, 37527), (14, 37536), (15, 37575), (16, 37578), (17, 37605), (18, 37632), (19, 37644), (20, 37698), (22, 37734), (25, 37785), (26, 37833), (28, 37941), (29, 37980), (30, 38022), (31, 38061), (34, 38157), (35, 38163),

Gene: Eureka_50 Start: 37854, Stop: 38735, Start Num: 2

Candidate Starts for Eureka_50:

(Start: 2 @37854 has 121 MA's), (Start: 4 @37866 has 1 MA's), (Start: 5 @37896 has 1 MA's), (7, 37953), (10, 38034), (11, 38058), (12, 38079), (13, 38091), (14, 38100), (15, 38139), (16, 38142), (17, 38169), (18, 38196), (19, 38208), (20, 38262), (22, 38298), (25, 38349), (26, 38397), (28, 38505), (29, 38544), (30, 38586), (31, 38625), (34, 38721), (35, 38727),

Gene: FairyPath_52 Start: 38206, Stop: 39087, Start Num: 2

Candidate Starts for FairyPath_52:

(Start: 2 @38206 has 121 MA's), (Start: 4 @38218 has 1 MA's), (Start: 5 @38248 has 1 MA's), (7, 38305), (10, 38386), (11, 38410), (12, 38431), (13, 38443), (14, 38452), (15, 38491), (16, 38494), (17, 38521), (18, 38548), (19, 38560), (20, 38614), (22, 38650), (25, 38701), (26, 38749), (28, 38857), (29, 38896), (30, 38938), (31, 38977), (34, 39073), (35, 39079),

Gene: Filch_53 Start: 37315, Stop: 38196, Start Num: 2

Candidate Starts for Filch_53:

(Start: 2 @37315 has 121 MA's), (Start: 4 @37327 has 1 MA's), (Start: 5 @37357 has 1 MA's), (7, 37414), (10, 37495), (11, 37519), (12, 37540), (13, 37552), (14, 37561), (15, 37600), (16, 37603), (17, 37630), (18, 37657), (19, 37669), (20, 37723), (22, 37759), (25, 37810), (26, 37858), (28, 37966), (29, 38005), (30, 38047), (31, 38086), (34, 38182), (35, 38188),

Gene: FireRed_55 Start: 38581, Stop: 39462, Start Num: 2

Candidate Starts for FireRed_55:

(Start: 2 @38581 has 121 MA's), (Start: 4 @38593 has 1 MA's), (Start: 5 @38623 has 1 MA's), (7, 38680), (10, 38761), (11, 38785), (12, 38806), (13, 38818), (14, 38827), (15, 38866), (16, 38869), (17, 38896), (18, 38923), (19, 38935), (20, 38989), (22, 39025), (25, 39076), (26, 39124), (28, 39232), (29, 39271), (30, 39313), (31, 39352), (34, 39448), (35, 39454),

Gene: Flypotenuse_47 Start: 37078, Stop: 37959, Start Num: 2

Candidate Starts for Flypotenuse_47:

(Start: 2 @37078 has 121 MA's), (Start: 4 @37090 has 1 MA's), (Start: 5 @37120 has 1 MA's), (7, 37177), (10, 37258), (11, 37282), (12, 37303), (13, 37315), (14, 37324), (15, 37363), (16, 37366), (17, 37393), (18, 37420), (19, 37432), (20, 37486), (22, 37522), (25, 37573), (26, 37621), (28, 37729), (29, 37768), (30, 37810), (31, 37849), (34, 37945), (35, 37951),

Gene: Gage_55 Start: 37863, Stop: 38744, Start Num: 2

Candidate Starts for Gage_55:

(Start: 2 @37863 has 121 MA's), (Start: 4 @37875 has 1 MA's), (Start: 5 @37905 has 1 MA's), (7, 37962), (10, 38043), (11, 38067), (12, 38088), (13, 38100), (14, 38109), (15, 38148), (16, 38151), (17, 38178), (18, 38205), (19, 38217), (20, 38271), (22, 38307), (25, 38358), (26, 38406), (28, 38514), (29, 38553), (30, 38595), (31, 38634), (34, 38730), (35, 38736),

Gene: Gator_50 Start: 38217, Stop: 39098, Start Num: 2

Candidate Starts for Gator_50:

(Start: 2 @38217 has 121 MA's), (Start: 4 @38229 has 1 MA's), (Start: 5 @38259 has 1 MA's), (7, 38316), (10, 38397), (11, 38421), (12, 38442), (13, 38454), (14, 38463), (15, 38502), (16, 38505), (17, 38532), (18, 38559), (19, 38571), (20, 38625), (22, 38661), (25, 38712), (26, 38760), (28, 38868), (29, 38907), (30, 38949), (31, 38988), (34, 39084), (35, 39090),

Gene: Gemini_56 Start: 38380, Stop: 39261, Start Num: 2

Candidate Starts for Gemini_56:

(Start: 2 @38380 has 121 MA's), (Start: 4 @38392 has 1 MA's), (Start: 5 @38422 has 1 MA's), (7, 38479), (10, 38560), (11, 38584), (12, 38605), (13, 38617), (14, 38626), (15, 38665), (16, 38668), (17, 38695), (18, 38722), (19, 38734), (20, 38788), (22, 38824), (25, 38875), (26, 38923), (28, 39031), (29, 39070), (30, 39112), (31, 39151), (34, 39247), (35, 39253),

Gene: Glexan_50 Start: 38205, Stop: 39086, Start Num: 2

Candidate Starts for Glexan_50:

(Start: 2 @38205 has 121 MA's), (Start: 4 @38217 has 1 MA's), (Start: 5 @38247 has 1 MA's), (7, 38304), (10, 38385), (11, 38409), (12, 38430), (13, 38442), (14, 38451), (15, 38490), (16, 38493), (17, 38520), (18, 38547), (19, 38559), (20, 38613), (22, 38649), (25, 38700), (26, 38748), (28, 38856), (29, 38895), (30, 38937), (31, 38976), (34, 39072), (35, 39078),

Gene: Goku_50 Start: 37583, Stop: 38464, Start Num: 2

Candidate Starts for Goku_50:

(Start: 2 @37583 has 121 MA's), (Start: 4 @37595 has 1 MA's), (Start: 5 @37625 has 1 MA's), (7, 37682), (10, 37763), (11, 37787), (12, 37808), (13, 37820), (14, 37829), (15, 37868), (16, 37871), (17, 37898), (18, 37925), (19, 37937), (20, 37991), (22, 38027), (25, 38078), (26, 38126), (28, 38234), (29, 38273), (30, 38315), (31, 38354), (34, 38450), (35, 38456),

Gene: GoldenSpark_55 Start: 37863, Stop: 38744, Start Num: 2

Candidate Starts for GoldenSpark_55:

(Start: 2 @37863 has 121 MA's), (Start: 4 @37875 has 1 MA's), (Start: 5 @37905 has 1 MA's), (7, 37962), (10, 38043), (11, 38067), (12, 38088), (13, 38100), (14, 38109), (15, 38148), (16, 38151), (17, 38178), (18, 38205), (19, 38217), (20, 38271), (22, 38307), (25, 38358), (26, 38406), (28, 38514), (29, 38553), (30, 38595), (31, 38634), (34, 38730), (35, 38736),

Gene: Goldilocks_54 Start: 37365, Stop: 38246, Start Num: 2

Candidate Starts for Goldilocks_54:

(Start: 2 @37365 has 121 MA's), (Start: 4 @37377 has 1 MA's), (Start: 5 @37407 has 1 MA's), (7, 37464), (10, 37545), (11, 37569), (12, 37590), (13, 37602), (14, 37611), (15, 37650), (16, 37653), (17, 37680), (18, 37707), (19, 37719), (20, 37773), (22, 37809), (25, 37860), (26, 37908), (28, 38016), (29, 38055), (30, 38097), (31, 38136), (34, 38232), (35, 38238),

Gene: GooberAzure_55 Start: 37863, Stop: 38744, Start Num: 2

Candidate Starts for GooberAzure_55:

(Start: 2 @37863 has 121 MA's), (Start: 4 @37875 has 1 MA's), (Start: 5 @37905 has 1 MA's), (7, 37962), (10, 38043), (11, 38067), (12, 38088), (13, 38100), (14, 38109), (15, 38148), (16, 38151), (17, 38178), (18, 38205), (19, 38217), (20, 38271), (22, 38307), (25, 38358), (26, 38406), (28, 38514), (29, 38553), (30, 38595), (31, 38634), (34, 38730), (35, 38736),

Gene: HanKaySha_51 Start: 37173, Stop: 38054, Start Num: 2

Candidate Starts for HanKaySha_51:

(Start: 2 @37173 has 121 MA's), (Start: 4 @37185 has 1 MA's), (Start: 5 @37215 has 1 MA's), (7, 37272), (10, 37353), (11, 37377), (12, 37398), (13, 37410), (14, 37419), (15, 37458), (16, 37461), (17, 37488), (18, 37515), (19, 37527), (20, 37581), (22, 37617), (25, 37668), (26, 37716), (28, 37824), (29, 37863), (30, 37905), (31, 37944), (34, 38040), (35, 38046),

Gene: Harella_52 Start: 38721, Stop: 39602, Start Num: 2

Candidate Starts for Harella_52:

(Start: 2 @38721 has 121 MA's), (Start: 4 @38733 has 1 MA's), (Start: 5 @38763 has 1 MA's), (7, 38820), (10, 38901), (11, 38925), (12, 38946), (13, 38958), (14, 38967), (15, 39006), (16, 39009), (17, 39036), (18, 39063), (19, 39075), (20, 39129), (22, 39165), (25, 39216), (26, 39264), (28, 39372), (29, 39411), (30, 39453), (31, 39492), (34, 39588), (35, 39594),

Gene: Henry_51 Start: 37805, Stop: 38686, Start Num: 2

Candidate Starts for Henry_51:

(Start: 2 @37805 has 121 MA's), (Start: 4 @37817 has 1 MA's), (Start: 5 @37847 has 1 MA's), (7, 37904), (10, 37985), (11, 38009), (12, 38030), (13, 38042), (14, 38051), (15, 38090), (16, 38093), (17, 38120), (18, 38147), (19, 38159), (20, 38213), (22, 38249), (25, 38300), (26, 38348), (28, 38456), (29, 38495), (30, 38537), (31, 38576), (34, 38672), (35, 38678),

Gene: Highbury_53 Start: 37462, Stop: 38343, Start Num: 2

Candidate Starts for Highbury_53:

(Start: 2 @37462 has 121 MA's), (Start: 4 @37474 has 1 MA's), (Start: 5 @37504 has 1 MA's), (7, 37561), (10, 37642), (11, 37666), (12, 37687), (13, 37699), (14, 37708), (15, 37747), (16, 37750), (17, 37777), (18, 37804), (19, 37816), (20, 37870), (22, 37906), (25, 37957), (26, 38005), (28, 38113), (29, 38152), (30, 38194), (31, 38233), (34, 38329), (35, 38335),

Gene: Holt_57 Start: 38277, Stop: 39158, Start Num: 2

Candidate Starts for Holt_57:

(Start: 2 @38277 has 121 MA's), (Start: 4 @38289 has 1 MA's), (Start: 5 @38319 has 1 MA's), (7, 38376), (10, 38457), (11, 38481), (12, 38502), (13, 38514), (14, 38523), (15, 38562), (16, 38565), (17, 38592), (18, 38619), (19, 38631), (20, 38685), (22, 38721), (25, 38772), (26, 38820), (28, 38928), (29, 38967), (30, 39009), (31, 39048), (34, 39144), (35, 39150),

Gene: Hoonter_55 Start: 37863, Stop: 38744, Start Num: 2

Candidate Starts for Hoonter_55:

(Start: 2 @37863 has 121 MA's), (Start: 4 @37875 has 1 MA's), (Start: 5 @37905 has 1 MA's), (7, 37962), (10, 38043), (11, 38067), (12, 38088), (13, 38100), (14, 38109), (15, 38148), (16, 38151), (17, 38178), (18, 38205), (19, 38217), (20, 38271), (22, 38307), (25, 38358), (26, 38406), (28, 38514), (29, 38553), (30, 38595), (31, 38634), (34, 38730), (35, 38736),

Gene: Hopey_52 Start: 37707, Stop: 38588, Start Num: 2

Candidate Starts for Hopey_52:

(Start: 2 @37707 has 121 MA's), (Start: 4 @37719 has 1 MA's), (Start: 5 @37749 has 1 MA's), (7, 37806), (10, 37887), (11, 37911), (12, 37932), (13, 37944), (14, 37953), (15, 37992), (16, 37995), (17, 38022), (18, 38049), (19, 38061), (20, 38115), (22, 38151), (25, 38202), (26, 38250), (28, 38358), (29, 38397), (30, 38439), (31, 38478), (34, 38574), (35, 38580),

Gene: HufflyPuff_54 Start: 38537, Stop: 39418, Start Num: 2

Candidate Starts for HufflyPuff_54:

(Start: 2 @38537 has 121 MA's), (Start: 4 @38549 has 1 MA's), (Start: 5 @38579 has 1 MA's), (7, 38636), (10, 38717), (11, 38741), (12, 38762), (13, 38774), (14, 38783), (15, 38822), (16, 38825), (17, 38852), (18, 38879), (19, 38891), (20, 38945), (22, 38981), (25, 39032), (26, 39080), (28, 39188), (29, 39227), (30, 39269), (31, 39308), (34, 39404), (35, 39410),

Gene: IHOP_50 Start: 37929, Stop: 38810, Start Num: 2

Candidate Starts for IHOP_50:

(Start: 2 @37929 has 121 MA's), (Start: 4 @37941 has 1 MA's), (Start: 5 @37971 has 1 MA's), (7, 38028), (10, 38109), (11, 38133), (12, 38154), (13, 38166), (14, 38175), (15, 38214), (16, 38217), (17, 38244), (18, 38271), (19, 38283), (20, 38337), (22, 38373), (25, 38424), (26, 38472), (28, 38580), (29, 38619), (30, 38661), (31, 38700), (34, 38796), (35, 38802),

Gene: Icee_52 Start: 37531, Stop: 38412, Start Num: 2

Candidate Starts for Icee_52:

(Start: 2 @37531 has 121 MA's), (Start: 4 @37543 has 1 MA's), (Start: 5 @37573 has 1 MA's), (7, 37630), (10, 37711), (11, 37735), (12, 37756), (13, 37768), (14, 37777), (15, 37816), (16, 37819), (17, 37846), (18, 37873), (19, 37885), (20, 37939), (22, 37975), (25, 38026), (26, 38074), (28, 38182), (29, 38221), (30, 38263), (31, 38302), (34, 38398), (35, 38404),

Gene: Inca_49 Start: 36454, Stop: 37335, Start Num: 2

Candidate Starts for Inca_49:

(Start: 2 @36454 has 121 MA's), (Start: 4 @36466 has 1 MA's), (Start: 5 @36496 has 1 MA's), (7, 36553), (10, 36634), (11, 36658), (12, 36679), (13, 36691), (14, 36700), (15, 36739), (16, 36742), (17, 36769), (18, 36796), (19, 36808), (20, 36862), (22, 36898), (25, 36949), (26, 36997), (28, 37105), (29, 37144), (30, 37186), (31, 37225), (34, 37321), (35, 37327),

Gene: JeTaime_53 Start: 38357, Stop: 39238, Start Num: 2

Candidate Starts for JeTaime_53:

(Start: 2 @38357 has 121 MA's), (Start: 4 @38369 has 1 MA's), (Start: 5 @38399 has 1 MA's), (7, 38456), (10, 38537), (11, 38561), (12, 38582), (13, 38594), (14, 38603), (15, 38642), (16, 38645), (17, 38672), (18, 38699), (19, 38711), (20, 38765), (22, 38801), (25, 38852), (26, 38900), (28, 39008), (29, 39047), (30, 39089), (31, 39128), (34, 39224), (35, 39230),

Gene: Kanye_48 Start: 37217, Stop: 38098, Start Num: 2

Candidate Starts for Kanye_48:

(Start: 2 @37217 has 121 MA's), (Start: 4 @37229 has 1 MA's), (Start: 5 @37259 has 1 MA's), (7, 37316), (10, 37397), (11, 37421), (12, 37442), (13, 37454), (14, 37463), (15, 37502), (16, 37505), (17, 37532), (18, 37559), (19, 37571), (20, 37625), (22, 37661), (25, 37712), (26, 37760), (28, 37868), (29, 37907), (30, 37949), (31, 37988), (34, 38084), (35, 38090),

Gene: Kimchi_55 Start: 37866, Stop: 38747, Start Num: 2

Candidate Starts for Kimchi_55:

(Start: 2 @37866 has 121 MA's), (Start: 4 @37878 has 1 MA's), (Start: 5 @37908 has 1 MA's), (7, 37965), (10, 38046), (11, 38070), (12, 38091), (13, 38103), (14, 38112), (15, 38151), (16, 38154), (17, 38181), (18, 38208), (19, 38220), (20, 38274), (22, 38310), (25, 38361), (26, 38409), (28, 38517), (29, 38556), (30, 38598), (31, 38637), (34, 38733), (35, 38739),

Gene: Kostya_53 Start: 38070, Stop: 38909, Start Num: 5

Candidate Starts for Kostya_53:

(Start: 2 @38028 has 121 MA's), (Start: 4 @38040 has 1 MA's), (Start: 5 @38070 has 1 MA's), (7, 38127), (10, 38208), (11, 38232), (12, 38253), (13, 38265), (14, 38274), (15, 38313), (16, 38316), (17, 38343), (18, 38370), (19, 38382), (20, 38436), (22, 38472), (25, 38523), (26, 38571), (28, 38679), (29, 38718), (30, 38760), (31, 38799), (34, 38895), (35, 38901),

Gene: Kromp_36 Start: 29237, Stop: 28317, Start Num: 1

Candidate Starts for Kromp_36:

(Start: 1 @29237 has 1 MA's), (3, 29210), (6, 29132), (8, 29051), (21, 28787), (23, 28748), (24, 28712), (27, 28589), (31, 28427), (32, 28421), (33, 28397),

Gene: Lilac_55 Start: 37492, Stop: 38373, Start Num: 2

Candidate Starts for Lilac_55:

(Start: 2 @37492 has 121 MA's), (Start: 4 @37504 has 1 MA's), (Start: 5 @37534 has 1 MA's), (7, 37591), (10, 37672), (11, 37696), (12, 37717), (13, 37729), (14, 37738), (15, 37777), (16, 37780), (17, 37807), (18, 37834), (19, 37846), (20, 37900), (22, 37936), (25, 37987), (26, 38035), (28, 38143), (29, 38182), (30, 38224), (31, 38263), (34, 38359), (35, 38365),

Gene: Lilizi_52 Start: 37166, Stop: 38047, Start Num: 2

Candidate Starts for Lilizi_52:

(Start: 2 @37166 has 121 MA's), (Start: 4 @37178 has 1 MA's), (Start: 5 @37208 has 1 MA's), (7, 37265), (10, 37346), (11, 37370), (12, 37391), (13, 37403), (14, 37412), (15, 37451), (16, 37454), (17, 37481), (18, 37508), (19, 37520), (20, 37574), (22, 37610), (25, 37661), (26, 37709), (28, 37817), (29, 37856), (30, 37898), (31, 37937), (34, 38033), (35, 38039),

Gene: Lilpickle_52 Start: 37383, Stop: 38264, Start Num: 2

Candidate Starts for Lilpickle_52:

(Start: 2 @37383 has 121 MA's), (Start: 4 @37395 has 1 MA's), (Start: 5 @37425 has 1 MA's), (7, 37482), (10, 37563), (11, 37587), (12, 37608), (13, 37620), (14, 37629), (15, 37668), (16, 37671), (17, 37698), (18, 37725), (19, 37737), (20, 37791), (22, 37827), (25, 37878), (26, 37926), (28, 38034), (29, 38073), (30, 38115), (31, 38154), (34, 38250), (35, 38256),

Gene: MISSy_52 Start: 37590, Stop: 38471, Start Num: 2

Candidate Starts for MISSy_52:

(Start: 2 @37590 has 121 MA's), (Start: 4 @37602 has 1 MA's), (Start: 5 @37632 has 1 MA's), (7, 37689), (10, 37770), (11, 37794), (12, 37815), (13, 37827), (14, 37836), (15, 37875), (16, 37878), (17, 37905), (18, 37932), (19, 37944), (20, 37998), (22, 38034), (25, 38085), (26, 38133), (28, 38241), (29,

38280), (30, 38322), (31, 38361), (34, 38457), (35, 38463),

Gene: MPhalcon_52 Start: 37583, Stop: 38464, Start Num: 2

Candidate Starts for MPhalcon_52:

(Start: 2 @37583 has 121 MA's), (Start: 4 @37595 has 1 MA's), (Start: 5 @37625 has 1 MA's), (7, 37682), (10, 37763), (11, 37787), (12, 37808), (13, 37820), (14, 37829), (15, 37868), (16, 37871), (17, 37898), (18, 37925), (19, 37937), (20, 37991), (22, 38027), (25, 38078), (26, 38126), (28, 38234), (29, 38273), (30, 38315), (31, 38354), (34, 38450), (35, 38456),

Gene: MadamMonkfish_52 Start: 37107, Stop: 37988, Start Num: 2

Candidate Starts for MadamMonkfish_52:

(Start: 2 @37107 has 121 MA's), (Start: 4 @37119 has 1 MA's), (Start: 5 @37149 has 1 MA's), (7, 37206), (10, 37287), (11, 37311), (12, 37332), (13, 37344), (14, 37353), (15, 37392), (16, 37395), (17, 37422), (18, 37449), (19, 37461), (20, 37515), (22, 37551), (25, 37602), (26, 37650), (28, 37758), (29, 37797), (30, 37839), (31, 37878), (34, 37974), (35, 37980),

Gene: Manda_52 Start: 38388, Stop: 39269, Start Num: 2

Candidate Starts for Manda_52:

(Start: 2 @38388 has 121 MA's), (Start: 4 @38400 has 1 MA's), (Start: 5 @38430 has 1 MA's), (7, 38487), (10, 38568), (11, 38592), (12, 38613), (13, 38625), (14, 38634), (15, 38673), (16, 38676), (17, 38703), (18, 38730), (19, 38742), (20, 38796), (22, 38832), (25, 38883), (26, 38931), (28, 39039), (29, 39078), (30, 39120), (31, 39159), (34, 39255), (35, 39261),

Gene: Marshmallow_51 Start: 38363, Stop: 39244, Start Num: 2

Candidate Starts for Marshmallow_51:

(Start: 2 @38363 has 121 MA's), (Start: 4 @38375 has 1 MA's), (Start: 5 @38405 has 1 MA's), (7, 38462), (10, 38543), (11, 38567), (12, 38588), (13, 38600), (14, 38609), (15, 38648), (16, 38651), (17, 38678), (18, 38705), (19, 38717), (20, 38771), (22, 38807), (25, 38858), (26, 38906), (28, 39014), (29, 39053), (30, 39095), (31, 39134), (34, 39230), (35, 39236),

Gene: Maxxinista_55 Start: 37462, Stop: 38343, Start Num: 2

Candidate Starts for Maxxinista_55:

(Start: 2 @37462 has 121 MA's), (Start: 4 @37474 has 1 MA's), (Start: 5 @37504 has 1 MA's), (7, 37561), (10, 37642), (11, 37666), (12, 37687), (13, 37699), (14, 37708), (15, 37747), (16, 37750), (17, 37777), (18, 37804), (19, 37816), (20, 37870), (22, 37906), (25, 37957), (26, 38005), (28, 38113), (29, 38152), (30, 38194), (31, 38233), (34, 38329), (35, 38335),

Gene: Mindy_51 Start: 36971, Stop: 37852, Start Num: 2

Candidate Starts for Mindy_51:

(Start: 2 @36971 has 121 MA's), (Start: 4 @36983 has 1 MA's), (Start: 5 @37013 has 1 MA's), (7, 37070), (10, 37151), (11, 37175), (12, 37196), (13, 37208), (14, 37217), (15, 37256), (16, 37259), (17, 37286), (18, 37313), (19, 37325), (20, 37379), (22, 37415), (25, 37466), (26, 37514), (28, 37622), (29, 37661), (30, 37703), (31, 37742), (34, 37838), (35, 37844),

Gene: Miniwave_49 Start: 37424, Stop: 38305, Start Num: 2

Candidate Starts for Miniwave_49:

(Start: 2 @37424 has 121 MA's), (Start: 4 @37436 has 1 MA's), (Start: 5 @37466 has 1 MA's), (7, 37523), (10, 37604), (11, 37628), (12, 37649), (13, 37661), (14, 37670), (15, 37709), (16, 37712), (17, 37739), (18, 37766), (19, 37778), (20, 37832), (22, 37868), (25, 37919), (26, 37967), (28, 38075), (29, 38114), (30, 38156), (31, 38195), (34, 38291), (35, 38297),

Gene: Misfit_54 Start: 38602, Stop: 39483, Start Num: 2

Candidate Starts for Misfit_54:

(Start: 2 @38602 has 121 MA's), (Start: 4 @38614 has 1 MA's), (Start: 5 @38644 has 1 MA's), (7, 38701), (10, 38782), (11, 38806), (12, 38827), (13, 38839), (14, 38848), (15, 38887), (16, 38890), (17, 38917), (18, 38944), (19, 38956), (20, 39010), (22, 39046), (25, 39097), (26, 39145), (28, 39253), (29, 39292), (30, 39334), (31, 39373), (34, 39469), (35, 39475),

Gene: Moldemort_55 Start: 37980, Stop: 38861, Start Num: 2

Candidate Starts for Moldemort_55:

(Start: 2 @37980 has 121 MA's), (Start: 4 @37992 has 1 MA's), (Start: 5 @38022 has 1 MA's), (7, 38079), (10, 38160), (11, 38184), (12, 38205), (13, 38217), (14, 38226), (15, 38265), (16, 38268), (17, 38295), (18, 38322), (19, 38334), (20, 38388), (22, 38424), (25, 38475), (26, 38523), (28, 38631), (29, 38670), (30, 38712), (31, 38751), (34, 38847), (35, 38853),

Gene: Mosby_48 Start: 36885, Stop: 37766, Start Num: 2

Candidate Starts for Mosby_48:

(Start: 2 @36885 has 121 MA's), (Start: 4 @36897 has 1 MA's), (Start: 5 @36927 has 1 MA's), (7, 36984), (10, 37065), (11, 37089), (12, 37110), (13, 37122), (14, 37131), (15, 37170), (16, 37173), (17, 37200), (18, 37227), (19, 37239), (20, 37293), (22, 37329), (25, 37380), (26, 37428), (28, 37536), (29, 37575), (30, 37617), (31, 37656), (34, 37752), (35, 37758),

Gene: Murica_54 Start: 38537, Stop: 39418, Start Num: 2

Candidate Starts for Murica_54:

(Start: 2 @38537 has 121 MA's), (Start: 4 @38549 has 1 MA's), (Start: 5 @38579 has 1 MA's), (7, 38636), (10, 38717), (11, 38741), (12, 38762), (13, 38774), (14, 38783), (15, 38822), (16, 38825), (17, 38852), (18, 38879), (19, 38891), (20, 38945), (22, 38981), (25, 39032), (26, 39080), (28, 39188), (29, 39227), (30, 39269), (31, 39308), (34, 39404), (35, 39410),

Gene: Murphy_54 Start: 37974, Stop: 38855, Start Num: 2

Candidate Starts for Murphy_54:

(Start: 2 @37974 has 121 MA's), (Start: 4 @37986 has 1 MA's), (Start: 5 @38016 has 1 MA's), (7, 38073), (10, 38154), (11, 38178), (12, 38199), (13, 38211), (14, 38220), (15, 38259), (16, 38262), (17, 38289), (18, 38316), (19, 38328), (20, 38382), (22, 38418), (25, 38469), (26, 38517), (28, 38625), (29, 38664), (30, 38706), (31, 38745), (34, 38841), (35, 38847),

Gene: Myrale_52 Start: 38228, Stop: 39109, Start Num: 2

Candidate Starts for Myrale_52:

(Start: 2 @38228 has 121 MA's), (Start: 4 @38240 has 1 MA's), (Start: 5 @38270 has 1 MA's), (7, 38327), (10, 38408), (11, 38432), (12, 38453), (13, 38465), (14, 38474), (15, 38513), (16, 38516), (17, 38543), (18, 38570), (19, 38582), (20, 38636), (22, 38672), (25, 38723), (26, 38771), (28, 38879), (29, 38918), (30, 38960), (31, 38999), (34, 39095), (35, 39101),

Gene: Nala_53 Start: 38095, Stop: 38976, Start Num: 2

Candidate Starts for Nala_53:

(Start: 2 @38095 has 121 MA's), (Start: 4 @38107 has 1 MA's), (Start: 5 @38137 has 1 MA's), (7, 38194), (10, 38275), (11, 38299), (12, 38320), (13, 38332), (14, 38341), (15, 38380), (16, 38383), (17, 38410), (18, 38437), (19, 38449), (20, 38503), (22, 38539), (25, 38590), (26, 38638), (28, 38746), (29, 38785), (30, 38827), (31, 38866), (34, 38962), (35, 38968),

Gene: NelitzaMV_49 Start: 37172, Stop: 38053, Start Num: 2

Candidate Starts for NelitzaMV_49:

(Start: 2 @37172 has 121 MA's), (Start: 4 @37184 has 1 MA's), (Start: 5 @37214 has 1 MA's), (7, 37271), (10, 37352), (11, 37376), (12, 37397), (13, 37409), (14, 37418), (15, 37457), (16, 37460), (17, 37487), (18, 37514), (19, 37526), (20, 37580), (22, 37616), (25, 37667), (26, 37715), (28, 37823), (29, 37862), (30, 37904), (31, 37943), (34, 38039), (35, 38045),

Gene: Nimrod_55 Start: 38795, Stop: 39676, Start Num: 2

Candidate Starts for Nimrod_55:

(Start: 2 @38795 has 121 MA's), (Start: 4 @38807 has 1 MA's), (Start: 5 @38837 has 1 MA's), (7, 38894), (10, 38975), (11, 38999), (12, 39020), (13, 39032), (14, 39041), (15, 39080), (16, 39083), (17, 39110), (18, 39137), (19, 39149), (20, 39203), (22, 39239), (25, 39290), (26, 39338), (28, 39446), (29, 39485), (30, 39527), (31, 39566), (34, 39662), (35, 39668),

Gene: NoSleep_54 Start: 37734, Stop: 38615, Start Num: 2

Candidate Starts for NoSleep_54:

(Start: 2 @37734 has 121 MA's), (Start: 4 @37746 has 1 MA's), (Start: 5 @37776 has 1 MA's), (7, 37833), (10, 37914), (11, 37938), (12, 37959), (13, 37971), (14, 37980), (15, 38019), (16, 38022), (17, 38049), (18, 38076), (19, 38088), (20, 38142), (22, 38178), (25, 38229), (26, 38277), (28, 38385), (29, 38424), (30, 38466), (31, 38505), (34, 38601), (35, 38607),

Gene: OrionPax_51 Start: 37179, Stop: 38060, Start Num: 2

Candidate Starts for OrionPax_51:

(Start: 2 @37179 has 121 MA's), (Start: 4 @37191 has 1 MA's), (Start: 5 @37221 has 1 MA's), (7, 37278), (10, 37359), (11, 37383), (12, 37404), (13, 37416), (14, 37425), (15, 37464), (16, 37467), (17, 37494), (18, 37521), (19, 37533), (20, 37587), (22, 37623), (25, 37674), (26, 37722), (28, 37830), (29, 37869), (30, 37911), (31, 37950), (34, 38046), (35, 38052),

Gene: Palpatine_55 Start: 38567, Stop: 39448, Start Num: 2

Candidate Starts for Palpatine_55:

(Start: 2 @38567 has 121 MA's), (Start: 4 @38579 has 1 MA's), (Start: 5 @38609 has 1 MA's), (7, 38666), (10, 38747), (11, 38771), (12, 38792), (13, 38804), (14, 38813), (15, 38852), (16, 38855), (17, 38882), (18, 38909), (19, 38921), (20, 38975), (22, 39011), (25, 39062), (26, 39110), (28, 39218), (29, 39257), (30, 39299), (31, 39338), (34, 39434), (35, 39440),

Gene: Paperbeatsrock_51 Start: 38102, Stop: 38983, Start Num: 2

Candidate Starts for Paperbeatsrock_51:

(Start: 2 @38102 has 121 MA's), (Start: 4 @38114 has 1 MA's), (Start: 5 @38144 has 1 MA's), (7, 38201), (10, 38282), (11, 38306), (12, 38327), (13, 38339), (14, 38348), (15, 38387), (16, 38390), (17, 38417), (18, 38444), (19, 38456), (20, 38510), (22, 38546), (25, 38597), (26, 38645), (28, 38753), (29, 38792), (30, 38834), (31, 38873), (34, 38969), (35, 38975),

Gene: Pat3_50 Start: 36332, Stop: 37213, Start Num: 2

Candidate Starts for Pat3_50:

(Start: 2 @36332 has 121 MA's), (Start: 4 @36344 has 1 MA's), (Start: 5 @36374 has 1 MA's), (7, 36431), (10, 36512), (11, 36536), (12, 36557), (13, 36569), (14, 36578), (15, 36617), (16, 36620), (17, 36647), (18, 36674), (19, 36686), (20, 36740), (22, 36776), (25, 36827), (26, 36875), (28, 36983), (29, 37022), (30, 37064), (31, 37103), (34, 37199), (35, 37205),

Gene: Petra64142_57 Start: 39031, Stop: 39912, Start Num: 2

Candidate Starts for Petra64142_57:

(Start: 2 @39031 has 121 MA's), (Start: 4 @39043 has 1 MA's), (Start: 5 @39073 has 1 MA's), (7, 39130), (10, 39211), (11, 39235), (12, 39256), (13, 39268), (14, 39277), (15, 39316), (16, 39319), (17, 39346), (18, 39373), (19, 39385), (20, 39439), (22, 39475), (25, 39526), (26, 39574), (28, 39682), (29, 39721), (30, 39763), (31, 39802), (34, 39898), (35, 39904),

Gene: Phaja_50 Start: 37928, Stop: 38809, Start Num: 2

Candidate Starts for Phaja_50:

(Start: 2 @37928 has 121 MA's), (Start: 4 @37940 has 1 MA's), (Start: 5 @37970 has 1 MA's), (7, 38027), (10, 38108), (11, 38132), (12, 38153), (13, 38165), (14, 38174), (15, 38213), (16, 38216), (17, 38243), (18, 38270), (19, 38282), (20, 38336), (22, 38372), (25, 38423), (26, 38471), (28, 38579), (29, 38618), (30, 38660), (31, 38699), (34, 38795), (35, 38801),

Gene: Pharsalus_50 Start: 37902, Stop: 38783, Start Num: 2

Candidate Starts for Pharsalus_50:

(Start: 2 @37902 has 121 MA's), (Start: 4 @37914 has 1 MA's), (Start: 5 @37944 has 1 MA's), (7, 38001), (10, 38082), (11, 38106), (12, 38127), (13, 38139), (14, 38148), (15, 38187), (16, 38190), (17, 38217), (18, 38244), (19, 38256), (20, 38310), (22, 38346), (25, 38397), (26, 38445), (28, 38553), (29, 38592), (30, 38634), (31, 38673), (34, 38769), (35, 38775),

Gene: PhatBacter_55 Start: 38581, Stop: 39462, Start Num: 2

Candidate Starts for PhatBacter_55:

(Start: 2 @38581 has 121 MA's), (Start: 4 @38593 has 1 MA's), (Start: 5 @38623 has 1 MA's), (7, 38680), (10, 38761), (11, 38785), (12, 38806), (13, 38818), (14, 38827), (15, 38866), (16, 38869), (17, 38896), (18, 38923), (19, 38935), (20, 38989), (22, 39025), (25, 39076), (26, 39124), (28, 39232), (29, 39271), (30, 39313), (31, 39352), (34, 39448), (35, 39454),

Gene: Phaux_54 Start: 38579, Stop: 39460, Start Num: 2

Candidate Starts for Phaux_54:

(Start: 2 @38579 has 121 MA's), (Start: 4 @38591 has 1 MA's), (Start: 5 @38621 has 1 MA's), (7, 38678), (10, 38759), (11, 38783), (12, 38804), (13, 38816), (14, 38825), (15, 38864), (16, 38867), (17, 38894), (18, 38921), (19, 38933), (20, 38987), (22, 39023), (25, 39074), (26, 39122), (28, 39230), (29, 39269), (30, 39311), (31, 39350), (34, 39446), (35, 39452),

Gene: Phrux_50 Start: 37172, Stop: 38053, Start Num: 2

Candidate Starts for Phrux_50:

(Start: 2 @37172 has 121 MA's), (Start: 4 @37184 has 1 MA's), (Start: 5 @37214 has 1 MA's), (7, 37271), (10, 37352), (11, 37376), (12, 37397), (13, 37409), (14, 37418), (15, 37457), (16, 37460), (17, 37487), (18, 37514), (19, 37526), (20, 37580), (22, 37616), (25, 37667), (26, 37715), (28, 37823), (29, 37862), (30, 37904), (31, 37943), (34, 38039), (35, 38045),

Gene: Policronamos_57 Start: 38579, Stop: 39460, Start Num: 2

Candidate Starts for Policronamos_57:

(Start: 2 @38579 has 121 MA's), (Start: 4 @38591 has 1 MA's), (Start: 5 @38621 has 1 MA's), (7, 38678), (10, 38759), (11, 38783), (12, 38804), (13, 38816), (14, 38825), (15, 38864), (16, 38867), (17, 38894), (18, 38921), (19, 38933), (20, 38987), (22, 39023), (25, 39074), (26, 39122), (28, 39230), (29, 39269), (30, 39311), (31, 39350), (34, 39446), (35, 39452),

Gene: Porky_51 Start: 37298, Stop: 38179, Start Num: 2

Candidate Starts for Porky_51:

(Start: 2 @37298 has 121 MA's), (Start: 4 @37310 has 1 MA's), (Start: 5 @37340 has 1 MA's), (7, 37397), (10, 37478), (11, 37502), (12, 37523), (13, 37535), (14, 37544), (15, 37583), (16, 37586), (17, 37613), (18, 37640), (19, 37652), (20, 37706), (22, 37742), (25, 37793), (26, 37841), (28, 37949), (29, 37988), (30, 38030), (31, 38069), (34, 38165), (35, 38171),

Gene: Pumpkin_54 Start: 38229, Stop: 39110, Start Num: 2

Candidate Starts for Pumpkin_54:

(Start: 2 @38229 has 121 MA's), (Start: 4 @38241 has 1 MA's), (Start: 5 @38271 has 1 MA's), (7, 38328), (10, 38409), (11, 38433), (12, 38454), (13, 38466), (14, 38475), (15, 38514), (16, 38517), (17, 38544), (18, 38571), (19, 38583), (20, 38637), (22, 38673), (25, 38724), (26, 38772), (28, 38880), (29, 38919), (30, 38961), (31, 39000), (34, 39096), (35, 39102),

Gene: Quallification_53 Start: 38217, Stop: 39098, Start Num: 2

Candidate Starts for Quallification_53:

(Start: 2 @38217 has 121 MA's), (Start: 4 @38229 has 1 MA's), (Start: 5 @38259 has 1 MA's), (7, 38316), (10, 38397), (11, 38421), (12, 38442), (13, 38454), (14, 38463), (15, 38502), (16, 38505), (17, 38532), (18, 38559), (19, 38571), (20, 38625), (22, 38661), (25, 38712), (26, 38760), (28, 38868), (29, 38907), (30, 38949), (31, 38988), (34, 39084), (35, 39090),

Gene: Rakim_54 Start: 37979, Stop: 38860, Start Num: 2

Candidate Starts for Rakim_54:

(Start: 2 @37979 has 121 MA's), (Start: 4 @37991 has 1 MA's), (Start: 5 @38021 has 1 MA's), (7, 38078), (10, 38159), (11, 38183), (12, 38204), (13, 38216), (14, 38225), (15, 38264), (16, 38267), (17, 38294), (18, 38321), (19, 38333), (20, 38387), (22, 38423), (25, 38474), (26, 38522), (28, 38630), (29, 38669), (30, 38711), (31, 38750), (34, 38846), (35, 38852),

Gene: Rimmer_53 Start: 37921, Stop: 38802, Start Num: 2

Candidate Starts for Rimmer_53:

(Start: 2 @37921 has 121 MA's), (Start: 4 @37933 has 1 MA's), (Start: 5 @37963 has 1 MA's), (7, 38020), (10, 38101), (11, 38125), (12, 38146), (13, 38158), (14, 38167), (15, 38206), (16, 38209), (17, 38236), (18, 38263), (19, 38275), (20, 38329), (22, 38365), (25, 38416), (26, 38464), (28, 38572), (29, 38611), (30, 38653), (31, 38692), (34, 38788), (35, 38794),

Gene: RiverMonster_53 Start: 37750, Stop: 38631, Start Num: 2

Candidate Starts for RiverMonster_53:

(Start: 2 @37750 has 121 MA's), (Start: 4 @37762 has 1 MA's), (Start: 5 @37792 has 1 MA's), (7, 37849), (10, 37930), (11, 37954), (12, 37975), (13, 37987), (14, 37996), (15, 38035), (16, 38038), (17, 38065), (18, 38092), (19, 38104), (20, 38158), (22, 38194), (25, 38245), (26, 38293), (28, 38401), (29, 38440), (30, 38482), (31, 38521), (34, 38617), (35, 38623),

Gene: Saints25_53 Start: 37462, Stop: 38343, Start Num: 2

Candidate Starts for Saints25_53:

(Start: 2 @37462 has 121 MA's), (Start: 4 @37474 has 1 MA's), (Start: 5 @37504 has 1 MA's), (7, 37561), (10, 37642), (11, 37666), (12, 37687), (13, 37699), (14, 37708), (15, 37747), (16, 37750), (17, 37777), (18, 37804), (19, 37816), (20, 37870), (22, 37906), (25, 37957), (26, 38005), (28, 38113), (29, 38152), (30, 38194), (31, 38233), (34, 38329), (35, 38335),

Gene: Sassay_46 Start: 35849, Stop: 36730, Start Num: 2

Candidate Starts for Sassay_46:

(Start: 2 @35849 has 121 MA's), (Start: 4 @35861 has 1 MA's), (Start: 5 @35891 has 1 MA's), (7, 35948), (10, 36029), (11, 36053), (12, 36074), (13, 36086), (14, 36095), (15, 36134), (16, 36137), (17, 36164), (18, 36191), (19, 36203), (20, 36257), (22, 36293), (25, 36344), (26, 36392), (28, 36500), (29, 36539), (30, 36581), (31, 36620), (34, 36716), (35, 36722),

Gene: ShamWow_52 Start: 38365, Stop: 39246, Start Num: 2

Candidate Starts for ShamWow_52:

(Start: 2 @38365 has 121 MA's), (Start: 4 @38377 has 1 MA's), (Start: 5 @38407 has 1 MA's), (7, 38464), (10, 38545), (11, 38569), (12, 38590), (13, 38602), (14, 38611), (15, 38650), (16, 38653), (17, 38680), (18, 38707), (19, 38719), (20, 38773), (22, 38809), (25, 38860), (26, 38908), (28, 39016), (29, 39055), (30, 39097), (31, 39136), (34, 39232), (35, 39238),

Gene: ShereKhan_50 Start: 38141, Stop: 39022, Start Num: 2

Candidate Starts for ShereKhan_50:

(Start: 2 @38141 has 121 MA's), (Start: 4 @38153 has 1 MA's), (Start: 5 @38183 has 1 MA's), (7, 38240), (10, 38321), (11, 38345), (12, 38366), (13, 38378), (14, 38387), (15, 38426), (16, 38429), (17, 38456), (18, 38483), (19, 38495), (20, 38549), (22, 38585), (25, 38636), (26, 38684), (28, 38792), (29, 38831), (30, 38873), (31, 38912), (34, 39008), (35, 39014),

Gene: Simpliphy_51 Start: 37446, Stop: 38327, Start Num: 2

Candidate Starts for Simpliphy_51:

(Start: 2 @37446 has 121 MA's), (Start: 4 @37458 has 1 MA's), (Start: 5 @37488 has 1 MA's), (7, 37545), (10, 37626), (11, 37650), (12, 37671), (13, 37683), (14, 37692), (15, 37731), (16, 37734), (17, 37761), (18, 37788), (19, 37800), (20, 37854), (22, 37890), (25, 37941), (26, 37989), (28, 38097), (29, 38136), (30, 38178), (31, 38217), (34, 38313), (35, 38319),

Gene: SirDuracell_51 Start: 36422, Stop: 37303, Start Num: 2

Candidate Starts for SirDuracell_51:

(Start: 2 @36422 has 121 MA's), (Start: 4 @36434 has 1 MA's), (Start: 5 @36464 has 1 MA's), (7, 36521), (10, 36602), (11, 36626), (12, 36647), (13, 36659), (14, 36668), (15, 36707), (16, 36710), (17, 36737), (18, 36764), (19, 36776), (20, 36830), (22, 36866), (25, 36917), (26, 36965), (28, 37073), (29, 37112), (30, 37154), (31, 37193), (34, 37289), (35, 37295),

Gene: SophKB_49 Start: 37121, Stop: 38002, Start Num: 2

Candidate Starts for SophKB_49:

(Start: 2 @37121 has 121 MA's), (Start: 4 @37133 has 1 MA's), (Start: 5 @37163 has 1 MA's), (7, 37220), (10, 37301), (11, 37325), (12, 37346), (13, 37358), (14, 37367), (15, 37406), (16, 37409), (17, 37436), (18, 37463), (19, 37475), (20, 37529), (22, 37565), (25, 37616), (26, 37664), (28, 37772), (29, 37811), (30, 37853), (31, 37892), (34, 37988), (35, 37994),

Gene: Sotrice96_53 Start: 37827, Stop: 38708, Start Num: 2

Candidate Starts for Sotrice96_53:

(Start: 2 @37827 has 121 MA's), (Start: 4 @37839 has 1 MA's), (Start: 5 @37869 has 1 MA's), (7, 37926), (10, 38007), (11, 38031), (12, 38052), (13, 38064), (14, 38073), (15, 38112), (16, 38115), (17, 38142), (18, 38169), (19, 38181), (20, 38235), (22, 38271), (25, 38322), (26, 38370), (28, 38478), (29, 38517), (30, 38559), (31, 38598), (34, 38694), (35, 38700),

Gene: Stank_56 Start: 38379, Stop: 39260, Start Num: 2

Candidate Starts for Stank_56:

(Start: 2 @38379 has 121 MA's), (Start: 4 @38391 has 1 MA's), (Start: 5 @38421 has 1 MA's), (7, 38478), (10, 38559), (11, 38583), (12, 38604), (13, 38616), (14, 38625), (15, 38664), (16, 38667), (17, 38694), (18, 38721), (19, 38733), (20, 38787), (22, 38823), (25, 38874), (26, 38922), (28, 39030), (29, 39069), (30, 39111), (31, 39150), (34, 39246), (35, 39252),

Gene: Stark_53 Start: 37634, Stop: 38515, Start Num: 2

Candidate Starts for Stark_53:

(Start: 2 @37634 has 121 MA's), (Start: 4 @37646 has 1 MA's), (Start: 5 @37676 has 1 MA's), (7, 37733), (10, 37814), (11, 37838), (12, 37859), (13, 37871), (14, 37880), (15, 37919), (16, 37922), (17, 37949), (18, 37976), (19, 37988), (20, 38042), (22, 38078), (25, 38129), (26, 38177), (28, 38285), (29, 38324), (30, 38366), (31, 38405), (34, 38501), (35, 38507),

Gene: StellaBean_50 Start: 37689, Stop: 38570, Start Num: 2

Candidate Starts for StellaBean_50:

(Start: 2 @37689 has 121 MA's), (Start: 4 @37701 has 1 MA's), (Start: 5 @37731 has 1 MA's), (7, 37788), (10, 37869), (11, 37893), (12, 37914), (13, 37926), (14, 37935), (15, 37974), (16, 37977), (17, 38004), (18, 38031), (19, 38043), (20, 38097), (22, 38133), (25, 38184), (26, 38232), (28, 38340), (29, 38379), (30, 38421), (31, 38460), (34, 38556), (35, 38562),

Gene: StolenFromERC_55 Start: 37863, Stop: 38744, Start Num: 2

Candidate Starts for StolenFromERC_55:

(Start: 2 @37863 has 121 MA's), (Start: 4 @37875 has 1 MA's), (Start: 5 @37905 has 1 MA's), (7, 37962), (10, 38043), (11, 38067), (12, 38088), (13, 38100), (14, 38109), (15, 38148), (16, 38151), (17, 38178), (18, 38205), (19, 38217), (20, 38271), (22, 38307), (25, 38358), (26, 38406), (28, 38514), (29, 38553), (30, 38595), (31, 38634), (34, 38730), (35, 38736),

Gene: TBrady12_55 Start: 37863, Stop: 38744, Start Num: 2

Candidate Starts for TBrady12_55:

(Start: 2 @37863 has 121 MA's), (Start: 4 @37875 has 1 MA's), (Start: 5 @37905 has 1 MA's), (7, 37962), (10, 38043), (11, 38067), (12, 38088), (13, 38100), (14, 38109), (15, 38148), (16, 38151), (17, 38178), (18, 38205), (19, 38217), (20, 38271), (22, 38307), (25, 38358), (26, 38406), (28, 38514), (29, 38553), (30, 38595), (31, 38634), (34, 38730), (35, 38736),

Gene: Tarkin_51 Start: 38111, Stop: 38992, Start Num: 2

Candidate Starts for Tarkin_51:

(Start: 2 @38111 has 121 MA's), (Start: 4 @38123 has 1 MA's), (Start: 5 @38153 has 1 MA's), (7, 38210), (10, 38291), (11, 38315), (12, 38336), (13, 38348), (14, 38357), (15, 38396), (16, 38399), (17, 38426), (18, 38453), (19, 38465), (20, 38519), (22, 38555), (25, 38606), (26, 38654), (28, 38762), (29, 38801), (30, 38843), (31, 38882), (34, 38978), (35, 38984),

Gene: TeardropMSU_48 Start: 37111, Stop: 37992, Start Num: 2

Candidate Starts for TeardropMSU_48:

(Start: 2 @37111 has 121 MA's), (Start: 4 @37123 has 1 MA's), (Start: 5 @37153 has 1 MA's), (7, 37210), (10, 37291), (11, 37315), (12, 37336), (13, 37348), (14, 37357), (15, 37396), (16, 37399), (17, 37426), (18, 37453), (19, 37465), (20, 37519), (22, 37555), (25, 37606), (26, 37654), (28, 37762), (29, 37801), (30, 37843), (31, 37882), (34, 37978), (35, 37984),

Gene: Teaspoon_53 Start: 38005, Stop: 38886, Start Num: 2

Candidate Starts for Teaspoon_53:

(Start: 2 @38005 has 121 MA's), (Start: 4 @38017 has 1 MA's), (Start: 5 @38047 has 1 MA's), (7, 38104), (10, 38185), (11, 38209), (12, 38230), (13, 38242), (14, 38251), (15, 38290), (16, 38293), (17, 38320), (18, 38347), (19, 38359), (20, 38413), (22, 38449), (25, 38500), (26, 38548), (28, 38656), (29, 38695), (30, 38737), (31, 38776), (34, 38872), (35, 38878),

Gene: Terminus_54 Start: 38602, Stop: 39483, Start Num: 2

Candidate Starts for Terminus_54:

(Start: 2 @38602 has 121 MA's), (Start: 4 @38614 has 1 MA's), (Start: 5 @38644 has 1 MA's), (7, 38701), (10, 38782), (11, 38806), (12, 38827), (13, 38839), (14, 38848), (15, 38887), (16, 38890), (17, 38917), (18, 38944), (19, 38956), (20, 39010), (22, 39046), (25, 39097), (26, 39145), (28, 39253), (29, 39292), (30, 39334), (31, 39373), (34, 39469), (35, 39475),

Gene: Thresher_55 Start: 38988, Stop: 39869, Start Num: 2

Candidate Starts for Thresher_55:

(Start: 2 @38988 has 121 MA's), (Start: 4 @39000 has 1 MA's), (Start: 5 @39030 has 1 MA's), (7, 39087), (10, 39168), (11, 39192), (12, 39213), (13, 39225), (14, 39234), (15, 39273), (16, 39276), (17, 39303), (18, 39330), (19, 39342), (20, 39396), (22, 39432), (25, 39483), (26, 39531), (28, 39639), (29, 39678), (30, 39720), (31, 39759), (34, 39855), (35, 39861),

Gene: Tomaszewski_48 Start: 36996, Stop: 37865, Start Num: 4

Candidate Starts for Tomaszewski_48:

(Start: 2 @36984 has 121 MA's), (Start: 4 @36996 has 1 MA's), (Start: 5 @37026 has 1 MA's), (7, 37083), (10, 37164), (11, 37188), (12, 37209), (13, 37221), (14, 37230), (15, 37269), (16, 37272), (17, 37299), (18, 37326), (19, 37338), (20, 37392), (22, 37428), (25, 37479), (26, 37527), (28, 37635), (29, 37674), (30, 37716), (31, 37755), (34, 37851), (35, 37857),

Gene: Toto_51 Start: 38365, Stop: 39246, Start Num: 2

Candidate Starts for Toto_51:

(Start: 2 @38365 has 121 MA's), (Start: 4 @38377 has 1 MA's), (Start: 5 @38407 has 1 MA's), (7, 38464), (10, 38545), (11, 38569), (12, 38590), (13, 38602), (14, 38611), (15, 38650), (16, 38653), (17, 38680), (18, 38707), (19, 38719), (20, 38773), (22, 38809), (25, 38860), (26, 38908), (28, 39016), (29, 39055), (30, 39097), (31, 39136), (34, 39232), (35, 39238),

Gene: Traaww1_48 Start: 37546, Stop: 38427, Start Num: 2

Candidate Starts for Traaww1_48:

(Start: 2 @37546 has 121 MA's), (Start: 4 @37558 has 1 MA's), (Start: 5 @37588 has 1 MA's), (7, 37645), (10, 37726), (11, 37750), (12, 37771), (13, 37783), (14, 37792), (15, 37831), (16, 37834), (17, 37861), (18, 37888), (19, 37900), (20, 37954), (22, 37990), (25, 38041), (26, 38089), (28, 38197), (29, 38236), (30, 38278), (31, 38317), (34, 38413), (35, 38419),

Gene: Tuco_53 Start: 38873, Stop: 39754, Start Num: 2

Candidate Starts for Tuco_53:

(Start: 2 @38873 has 121 MA's), (Start: 4 @38885 has 1 MA's), (Start: 5 @38915 has 1 MA's), (7, 38972), (10, 39053), (11, 39077), (12, 39098), (13, 39110), (14, 39119), (15, 39158), (16, 39161), (17, 39188), (18, 39215), (19, 39227), (20, 39281), (22, 39317), (25, 39368), (26, 39416), (28, 39524), (29, 39563), (30, 39605), (31, 39644), (34, 39740), (35, 39746),

Gene: Ukulele_49 Start: 37259, Stop: 38140, Start Num: 2

Candidate Starts for Ukulele_49:

(Start: 2 @37259 has 121 MA's), (Start: 4 @37271 has 1 MA's), (Start: 5 @37301 has 1 MA's), (7, 37358), (10, 37439), (11, 37463), (12, 37484), (13, 37496), (14, 37505), (15, 37544), (16, 37547), (17, 37574), (18, 37601), (19, 37613), (20, 37667), (22, 37703), (25, 37754), (26, 37802), (28, 37910), (29, 37949), (30, 37991), (31, 38030), (34, 38126), (35, 38132),

Gene: Wiggin_54 Start: 37947, Stop: 38828, Start Num: 2

Candidate Starts for Wiggin_54:

(Start: 2 @37947 has 121 MA's), (Start: 4 @37959 has 1 MA's), (Start: 5 @37989 has 1 MA's), (7, 38046), (10, 38127), (11, 38151), (12, 38172), (13, 38184), (14, 38193), (15, 38232), (16, 38235), (17, 38262), (18, 38289), (19, 38301), (20, 38355), (22, 38391), (25, 38442), (26, 38490), (28, 38598), (29, 38637), (30, 38679), (31, 38718), (34, 38814), (35, 38820),

Gene: Willez_46 Start: 35849, Stop: 36730, Start Num: 2

Candidate Starts for Willez_46:

(Start: 2 @35849 has 121 MA's), (Start: 4 @35861 has 1 MA's), (Start: 5 @35891 has 1 MA's), (7, 35948), (10, 36029), (11, 36053), (12, 36074), (13, 36086), (14, 36095), (15, 36134), (16, 36137), (17, 36164), (18, 36191), (19, 36203), (20, 36257), (22, 36293), (25, 36344), (26, 36392), (28, 36500), (29, 36539), (30, 36581), (31, 36620), (34, 36716), (35, 36722),

Gene: Xandras_52 Start: 37358, Stop: 38239, Start Num: 2

Candidate Starts for Xandras_52:

(Start: 2 @37358 has 121 MA's), (Start: 4 @37370 has 1 MA's), (Start: 5 @37400 has 1 MA's), (7, 37457), (10, 37538), (11, 37562), (12, 37583), (13, 37595), (14, 37604), (15, 37643), (16, 37646), (17, 37673), (18, 37700), (19, 37712), (20, 37766), (22, 37802), (25, 37853), (26, 37901), (28, 38009), (29, 38048), (30, 38090), (31, 38129), (34, 38225), (35, 38231),

Gene: YassJohnny_48 Start: 37024, Stop: 37905, Start Num: 2

Candidate Starts for YassJohnny_48:

(Start: 2 @37024 has 121 MA's), (Start: 4 @37036 has 1 MA's), (Start: 5 @37066 has 1 MA's), (7, 37123), (10, 37204), (11, 37228), (12, 37249), (13, 37261), (14, 37270), (15, 37309), (16, 37312), (17, 37339), (18, 37366), (19, 37378), (20, 37432), (22, 37468), (25, 37519), (26, 37567), (28, 37675), (29, 37714), (30, 37756), (31, 37795), (34, 37891), (35, 37897),

Gene: Youngblood_54 Start: 38532, Stop: 39413, Start Num: 2

Candidate Starts for Youngblood_54:

(Start: 2 @38532 has 121 MA's), (Start: 4 @38544 has 1 MA's), (Start: 5 @38574 has 1 MA's), (7, 38631), (10, 38712), (11, 38736), (12, 38757), (13, 38769), (14, 38778), (15, 38817), (16, 38820), (17, 38847), (18, 38874), (19, 38886), (20, 38940), (22, 38976), (25, 39027), (26, 39075), (28, 39183), (29, 39222), (30, 39264), (31, 39303), (34, 39399), (35, 39405),

Gene: xkcd_56 Start: 38722, Stop: 39603, Start Num: 2

Candidate Starts for xkcd_56:

(Start: 2 @38722 has 121 MA's), (Start: 4 @38734 has 1 MA's), (Start: 5 @38764 has 1 MA's), (7, 38821), (10, 38902), (11, 38926), (12, 38947), (13, 38959), (14, 38968), (15, 39007), (16, 39010), (17, 39037), (18, 39064), (19, 39076), (20, 39130), (22, 39166), (25, 39217), (26, 39265), (28, 39373), (29, 39412), (30, 39454), (31, 39493), (34, 39589), (35, 39595),