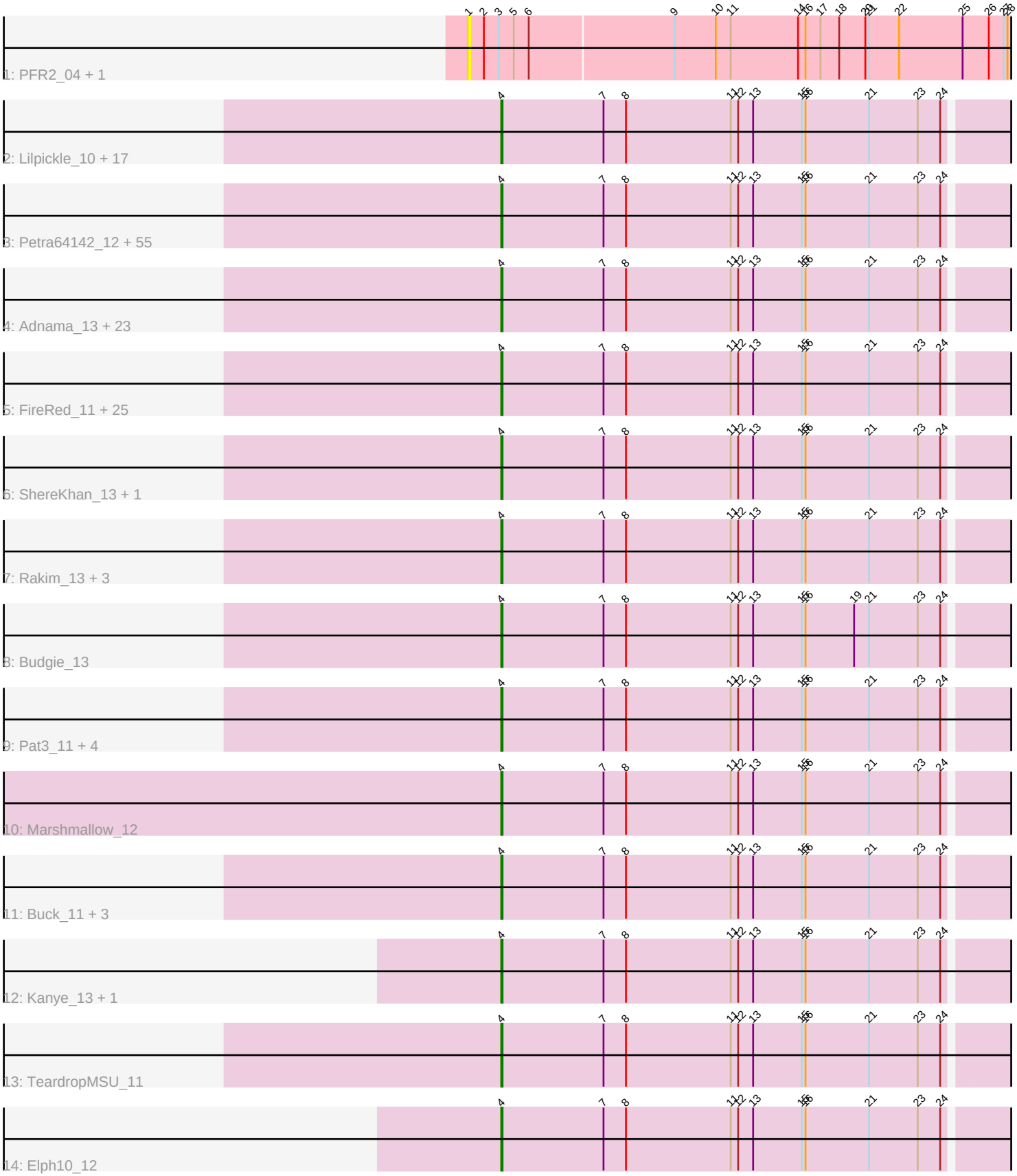
Zoomed Pham 332576



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 332576 Report

This analysis was run 11/14/26 on database version 672.

Pham number 332576 has 147 members, 13 are drafts.

Phages represented in each track:
• Track 1 : PFR2_04, PFR1_04
• Track 2 : Lilpickle_10, GoldenSpark_13, Hopey_12, Hoonter_13, Ukulele_11, ChosenOne_10, TBrady12_13, GooberAzure_13, Teaspoon_11, Emmina_11, Goldilocks_13, StolenFromERC_13, Elite2014_10, PaddyBaddy_12, JeTaime_13, Porky_10, Amao_12, Gage_13
• Track 3 : Petra64142_12, DoctorDiddles_12, BigBubba_11, IHOP_11, ChotaBhai_11, Bask21_11, HanKaySha_12, Quallification_13, Dusk_11, Bench_13, Balomoji_11, StellaBean_12, Thimble_12, Gator_10, CrystalP_12, Tomaszewski_11, Myrale_12, Harella_10, Icee_11, Becksu_11, YassJohnny_12, Cookies_12, ShamWow_12, Sotrice96_12, Simpliphy_12, SophKB_12, Pumpkin_12, Czyszczon1_12, Kostya_12, Livelaughbron_11, Cactus_13, Phaja_11, Henry_12, Greep_12, ABCat_11, OrionPax_12, Nimrod_11, SirDuracell_11, Youngblood_11, BilboSwaggins_12, Tuco_12, Holt_13, MadamMonkfish_11, Brewer_11, Murphy_11, Inca_11, Barbarian_11, Asriel_11, Traaww1_10, Daikon_10, Flypotenuse_10, Toto_12, Moldemort_12, Glexan_10, BadStone_11, NoSleep_12
• Track 4 : Adnama_13, Filch_12, FairyPath_12, Easy2Say_12, AmericanBeauty_13, Miniwave_12, Stark_12, 244_12, Manda_11, Cjw1_11, Pharsalus_12, Command613_13, Thresher_12, NelitzaMV_12, Stank_13, RiverMonster_11, Argent26_13, Xandras_13, Wiggin_13, Paperbeatsrock_13, Gemini_13, Tarkin_13, NonchalantPear_11, Kimchi_13
• Track 5 : FireRed_11, Palpatine_11, Bruin_11, Lilizi_13, MISSy_11, Terminus_11, Maxxinista_12, Mosby_11, MPhalcon_11, Misfit_11, Rimmer_11, Highbury_12, DrDrey_12, Willez_11, Contagion_11, BugsBunny_9, Sassay_11, Murica_10, Policronamos_11, PhatBacter_11, Dumbo_11, Phaux_10, HufflyPuff_10, FoghornLeghorn_11, Saints25_12, Nala_11
• Track 6 : ShereKhan_13, Ptowny_11
• Track 7 : Rakim_13, Mindy_12, Lilac_13, xkcd_12
• Track 8 : Budgie_13
• Track 9 : Pat3_11, BaboJay_11, Goku_12, Eureka_11, Bogg_12
• Track 10 : Marshmallow_12
• Track 11 : Buck_11, StormChicken_12, TeamEdward_12, MollyToe_12
• Track 12 : Kanye_13, Phrux_11
• Track 13 : TeardropMSU_11
• Track 14 : Elph10_12

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

The start number called the most often in the published annotations is 4, it was called in 134 of the 134 non-draft genes in the pham.

Genes that call this "Most Annotated" start:
• 244_12, ABCat_11, Adnama_13, Amao_12, AmericanBeauty_13, Argent26_13, Asriel_11, BaboJay_11, BadStone_11, Balomoji_11, Barbarian_11, Bask21_11, Becksu_11, Bench_13, BigBubba_11, BilboSwaggins_12, Bogg_12, Brewer_11, Bruin_11, Buck_11, Budgie_13, BugsBunny_9, Cactus_13, ChosenOne_10, ChotaBhai_11, Cjw1_11, Command613_13, Contagion_11, Cookies_12, CrystalP_12, Czyszczon1_12, Daikon_10, DoctorDiddles_12, DrDrey_12, Dumbo_11, Dusk_11, Easy2Say_12, Elite2014_10, Elph10_12, Emmina_11, Eureka_11, FairyPath_12, Filch_12, FireRed_11, Flypotenuse_10, FoghornLeghorn_11, Gage_13, Gator_10, Gemini_13, Glexan_10, Goku_12, GoldenSpark_13, Goldilocks_13, GooberAzure_13, Greep_12, HanKaySha_12, Harella_10, Henry_12, Highbury_12, Holt_13, Hoonter_13, Hopey_12, HufflyPuff_10, IHOP_11, Icee_11, Inca_11, JeTaime_13, Kanye_13, Kimchi_13, Kostya_12, Lilac_13, Lilizi_13, Lilpickle_10, Livelaughbron_11, MISSy_11, MPhalcon_11, MadamMonkfish_11, Manda_11, Marshmallow_12, Maxxinista_12, Mindy_12, Miniwave_12, Misfit_11, Moldemort_12, MollyToe_12, Mosby_11, Murica_10, Murphy_11, Myrale_12, Nala_11, NelitzaMV_12, Nimrod_11, NoSleep_12, NonchalantPear_11, OrionPax_12, PaddyBaddy_12, Palpatine_11, Paperbeatsrock_13, Pat3_11, Petra64142_12, Phaja_11, Pharsalus_12, PhatBacter_11, Phaux_10, Phrux_11, Policronamos_11, Porky_10, Ptowny_11, Pumpkin_12, Quallification_13, Rakim_13, Rimmer_11, RiverMonster_11, Saints25_12, Sassay_11, ShamWow_12, ShereKhan_13, Simpliphy_12, SirDuracell_11, SophKB_12, Sotrice96_12, Stank_13, Stark_12, StellaBean_12, StolenFromERC_13, StormChicken_12, TBrady12_13, Tarkin_13, TeamEdward_12, TeardropMSU_11, Teaspoon_11, Terminus_11, Thimble_12, Thresher_12, Tomaszewski_11, Toto_12, Traaww1_10, Tuco_12, Ukulele_11, Wiggin_13, Willez_11, Xandras_13, YassJohnny_12, Youngblood_11, xkcd_12,

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

Genes that do not have the "Most Annotated" start:
• PFR1_04, PFR2_04,

Summary by start number:

Start 1:
• Found in 2 of 147 (1.4%) of genes in pham
• No Manual Annotations of this start.
• Called 100.0% of time when present
• Phage (with cluster) where this start called: PFR1_04 (BX), PFR2_04 (BX),

Start 4:
• Found in 145 of 147 (98.6%) of genes in pham
• Manual Annotations of this start: 134 of 134
• Called 100.0% of time when present

• Phage (with cluster) where this start called: 244_12 (E), ABCat_11 (E), Adnama_13 (E), Amao_12 (E), AmericanBeauty_13 (E), Argent26_13 (E), Asriel_11 (E), BaboJay_11 (E), BadStone_11 (E), Balomoji_11 (E), Barbarian_11 (E), Bask21_11 (E), Becksu_11 (E), Bench_13 (E), BigBubba_11 (E), BilboSwaggins_12 (E), Bogg_12 (E), Brewer_11 (E), Bruin_11 (E), Buck_11 (E), Budgie_13 (E), BugsBunny_9 (E), Cactus_13 (E), ChosenOne_10 (E), ChotaBhai_11 (E), Cjw1_11 (E), Command613_13 (E), Contagion_11 (E), Cookies_12 (E), CrystalP_12 (E), Czyszczon1_12 (E), Daikon_10 (E), DoctorDiddles_12 (E), DrDrey_12 (E), Dumbo_11 (E), Dusk_11 (E), Easy2Say_12 (E), Elite2014_10 (E), Elph10_12 (E), Emmina_11 (E), Eureka_11 (E), FairyPath_12 (E), Filch_12 (E), FireRed_11 (E), Flypotenuse_10 (E), FoghornLeghorn_11 (E), Gage_13 (E), Gator_10 (E), Gemini_13 (E), Glexan_10 (E), Goku_12 (E), GoldenSpark_13 (E), Goldilocks_13 (E), GooberAzure_13 (E), Greep_12 (E), HanKaySha_12 (E), Harella_10 (E), Henry_12 (E), Highbury_12 (E), Holt_13 (E), Hoonter_13 (E), Hopey_12 (E), HufflyPuff_10 (E), IHOP_11 (E), Icee_11 (E), Inca_11 (E), JeTaime_13 (E), Kanye_13 (E), Kimchi_13 (E), Kostya_12 (E), Lilac_13 (E), Lilizi_13 (E), Lilpickle_10 (E), Livelaughbron_11 (E), MISSy_11 (E), MPhalcon_11 (E), MadamMonkfish_11 (E), Manda_11 (E), Marshmallow_12 (E), Maxxinista_12 (E), Mindy_12 (E), Miniwave_12 (E), Misfit_11 (E), Moldemort_12 (E), MollyToe_12 (E), Mosby_11 (E), Murica_10 (E), Murphy_11 (E), Myrale_12 (E), Nala_11 (E), NelitzaMV_12 (E), Nimrod_11 (E), NoSleep_12 (E), NonchalantPear_11 (E), OrionPax_12 (E), PaddyBaddy_12 (E), Palpatine_11 (E), Paperbeatsrock_13 (E), Pat3_11 (E), Petra64142_12 (E), Phaja_11 (E), Pharsalus_12 (E), PhatBacter_11 (E), Phaux_10 (E), Phrux_11 (E), Policronamos_11 (E), Porky_10 (E), Ptowny_11 (E), Pumpkin_12 (E), Quallification_13 (E), Rakim_13 (E), Rimmer_11 (E), RiverMonster_11 (E), Saints25_12 (E), Sassay_11 (E), ShamWow_12 (E), ShereKhan_13 (E), Simpliphy_12 (E), SirDuracell_11 (E), SophKB_12 (E), Sotrice96_12 (E), Stank_13 (E), Stark_12 (E), StellaBean_12 (E), StolenFromERC_13 (E), StormChicken_12 (E), TBrady12_13 (E), Tarkin_13 (E), TeamEdward_12 (E), TeardropMSU_11 (E), Teaspoon_11 (E), Terminus_11 (E), Thimble_12 (E), Thresher_12 (E), Tomaszewski_11 (E), Toto_12 (E), Traaww1_10 (E), Tuco_12 (E), Ukulele_11 (E), Wiggin_13 (E), Willez_11 (E), Xandras_13 (E), YassJohnny_12 (E), Youngblood_11 (E), xkcd_12 (E),

Summary by clusters:

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

Info for manual annotations of cluster E:
•Start number 4 was manually annotated 134 times for cluster E.

Gene Information:

Gene: 244_12 Start: 5726, Stop: 7018, Start Num: 4
Candidate Starts for 244_12:
(Start: 4 @5726 has 134 MA's), (7, 5807), (8, 5825), (11, 5909), (12, 5915), (13, 5927), (15, 5966), (16, 5969), (21, 6020), (23, 6059), (24, 6077), (29, 6149), (41, 6524), (42, 6575), (43, 6650), (44, 6677), (45, 6686), (46, 6743), (47, 6941), (48, 6944), (49, 6983),

Gene: ABCat_11 Start: 6745, Stop: 7839, Start Num: 4
Candidate Starts for ABCat_11:

(Start: 4 @6745 has 134 MA's), (7, 6826), (8, 6844), (11, 6928), (12, 6934), (13, 6946), (15, 6985), (16, 6988), (21, 7039), (23, 7078), (24, 7096), (33, 7264), (35, 7318), (46, 7564), (47, 7762), (48, 7765), (49, 7804),

Gene: Adnama_13 Start: 5958, Stop: 7250, Start Num: 4
Candidate Starts for Adnama_13:
(Start: 4 @5958 has 134 MA's), (7, 6039), (8, 6057), (11, 6141), (12, 6147), (13, 6159), (15, 6198), (16, 6201), (21, 6252), (23, 6291), (24, 6309), (29, 6381), (41, 6756), (42, 6807), (43, 6882), (44, 6909), (45, 6918), (46, 6975), (47, 7173), (48, 7176), (49, 7215),

Gene: Amao_12 Start: 5752, Stop: 7044, Start Num: 4
Candidate Starts for Amao_12:
(Start: 4 @5752 has 134 MA's), (7, 5833), (8, 5851), (11, 5935), (12, 5941), (13, 5953), (15, 5992), (16, 5995), (21, 6046), (23, 6085), (24, 6103), (29, 6175), (35, 6232), (41, 6550), (42, 6601), (43, 6676), (44, 6703), (45, 6712), (46, 6769), (47, 6967), (48, 6970), (49, 7009),

Gene: AmericanBeauty_13 Start: 5955, Stop: 7247, Start Num: 4
Candidate Starts for AmericanBeauty_13:
(Start: 4 @5955 has 134 MA's), (7, 6036), (8, 6054), (11, 6138), (12, 6144), (13, 6156), (15, 6195), (16, 6198), (21, 6249), (23, 6288), (24, 6306), (29, 6378), (41, 6753), (42, 6804), (43, 6879), (44, 6906), (45, 6915), (46, 6972), (47, 7170), (48, 7173), (49, 7212),

Gene: Argent26_13 Start: 5958, Stop: 7250, Start Num: 4
Candidate Starts for Argent26_13:
(Start: 4 @5958 has 134 MA's), (7, 6039), (8, 6057), (11, 6141), (12, 6147), (13, 6159), (15, 6198), (16, 6201), (21, 6252), (23, 6291), (24, 6309), (29, 6381), (41, 6756), (42, 6807), (43, 6882), (44, 6909), (45, 6918), (46, 6975), (47, 7173), (48, 7176), (49, 7215),

Gene: Asriel_11 Start: 5617, Stop: 6711, Start Num: 4
Candidate Starts for Asriel_11:
(Start: 4 @5617 has 134 MA's), (7, 5698), (8, 5716), (11, 5800), (12, 5806), (13, 5818), (15, 5857), (16, 5860), (21, 5911), (23, 5950), (24, 5968), (33, 6136), (35, 6190), (46, 6436), (47, 6634), (48, 6637), (49, 6676),

Gene: BaboJay_11 Start: 6276, Stop: 7370, Start Num: 4
Candidate Starts for BaboJay_11:
(Start: 4 @6276 has 134 MA's), (7, 6357), (8, 6375), (11, 6459), (12, 6465), (13, 6477), (15, 6516), (16, 6519), (21, 6570), (23, 6609), (24, 6627), (29, 6699), (33, 6795), (34, 6828), (35, 6849), (46, 7095), (47, 7293), (48, 7296), (49, 7335),

Gene: BadStone_11 Start: 6745, Stop: 7839, Start Num: 4
Candidate Starts for BadStone_11:
(Start: 4 @6745 has 134 MA's), (7, 6826), (8, 6844), (11, 6928), (12, 6934), (13, 6946), (15, 6985), (16, 6988), (21, 7039), (23, 7078), (24, 7096), (33, 7264), (35, 7318), (46, 7564), (47, 7762), (48, 7765), (49, 7804),

Gene: Balomoji_11 Start: 6479, Stop: 7573, Start Num: 4
Candidate Starts for Balomoji_11:
(Start: 4 @6479 has 134 MA's), (7, 6560), (8, 6578), (11, 6662), (12, 6668), (13, 6680), (15, 6719), (16, 6722), (21, 6773), (23, 6812), (24, 6830), (33, 6998), (35, 7052), (46, 7298), (47, 7496), (48, 7499), (49, 7538),

Gene: Barbarian_11 Start: 5617, Stop: 6711, Start Num: 4

Candidate Starts for Barbarian_11:
(Start: 4 @5617 has 134 MA's), (7, 5698), (8, 5716), (11, 5800), (12, 5806), (13, 5818), (15, 5857), (16, 5860), (21, 5911), (23, 5950), (24, 5968), (33, 6136), (35, 6190), (46, 6436), (47, 6634), (48, 6637), (49, 6676),

Gene: Bask21_11 Start: 5412, Stop: 6506, Start Num: 4
Candidate Starts for Bask21_11:
(Start: 4 @5412 has 134 MA's), (7, 5493), (8, 5511), (11, 5595), (12, 5601), (13, 5613), (15, 5652), (16, 5655), (21, 5706), (23, 5745), (24, 5763), (33, 5931), (35, 5985), (46, 6231), (47, 6429), (48, 6432), (49, 6471),

Gene: Becksu_11 Start: 6346, Stop: 7437, Start Num: 4
Candidate Starts for Becksu_11:
(Start: 4 @6346 has 134 MA's), (7, 6427), (8, 6445), (11, 6529), (12, 6535), (13, 6547), (15, 6586), (16, 6589), (21, 6640), (23, 6679), (24, 6697), (33, 6865), (35, 6919), (46, 7162), (47, 7360), (48, 7363), (49, 7402),

Gene: Bench_13 Start: 6032, Stop: 7123, Start Num: 4
Candidate Starts for Bench_13:
(Start: 4 @6032 has 134 MA's), (7, 6113), (8, 6131), (11, 6215), (12, 6221), (13, 6233), (15, 6272), (16, 6275), (21, 6326), (23, 6365), (24, 6383), (33, 6551), (35, 6605), (46, 6848), (47, 7046), (48, 7049), (49, 7088),

Gene: BigBubba_11 Start: 5412, Stop: 6506, Start Num: 4
Candidate Starts for BigBubba_11:
(Start: 4 @5412 has 134 MA's), (7, 5493), (8, 5511), (11, 5595), (12, 5601), (13, 5613), (15, 5652), (16, 5655), (21, 5706), (23, 5745), (24, 5763), (33, 5931), (35, 5985), (46, 6231), (47, 6429), (48, 6432), (49, 6471),

Gene: BilboSwaggins_12 Start: 6745, Stop: 7839, Start Num: 4
Candidate Starts for BilboSwaggins_12:
(Start: 4 @6745 has 134 MA's), (7, 6826), (8, 6844), (11, 6928), (12, 6934), (13, 6946), (15, 6985), (16, 6988), (21, 7039), (23, 7078), (24, 7096), (33, 7264), (35, 7318), (46, 7564), (47, 7762), (48, 7765), (49, 7804),

Gene: Bogg_12 Start: 5626, Stop: 6720, Start Num: 4
Candidate Starts for Bogg_12:
(Start: 4 @5626 has 134 MA's), (7, 5707), (8, 5725), (11, 5809), (12, 5815), (13, 5827), (15, 5866), (16, 5869), (21, 5920), (23, 5959), (24, 5977), (29, 6049), (33, 6145), (34, 6178), (35, 6199), (46, 6445), (47, 6643), (48, 6646), (49, 6685),

Gene: Brewer_11 Start: 6411, Stop: 7505, Start Num: 4
Candidate Starts for Brewer_11:
(Start: 4 @6411 has 134 MA's), (7, 6492), (8, 6510), (11, 6594), (12, 6600), (13, 6612), (15, 6651), (16, 6654), (21, 6705), (23, 6744), (24, 6762), (33, 6930), (35, 6984), (46, 7230), (47, 7428), (48, 7431), (49, 7470),

Gene: Bruin_11 Start: 6346, Stop: 7347, Start Num: 4
Candidate Starts for Bruin_11:
(Start: 4 @6346 has 134 MA's), (7, 6427), (8, 6445), (11, 6529), (12, 6535), (13, 6547), (15, 6586), (16, 6589), (21, 6640), (23, 6679), (24, 6697), (29, 6769), (35, 6826), (46, 7072), (47, 7270), (48, 7273), (49, 7312),

Gene: Buck_11 Start: 6411, Stop: 7796, Start Num: 4
Candidate Starts for Buck_11:
(Start: 4 @6411 has 134 MA's), (7, 6492), (8, 6510), (11, 6594), (12, 6600), (13, 6612), (15, 6651), (16, 6654), (21, 6705), (23, 6744), (24, 6762), (33, 6930), (35, 6984), (41, 7302), (42, 7353), (43, 7428), (44, 7455), (45, 7464), (46, 7521), (47, 7719), (48, 7722), (49, 7761),

Gene: Budgie_13 Start: 6041, Stop: 7132, Start Num: 4
Candidate Starts for Budgie_13:
(Start: 4 @6041 has 134 MA's), (7, 6122), (8, 6140), (11, 6224), (12, 6230), (13, 6242), (15, 6281), (16, 6284), (19, 6323), (21, 6335), (23, 6374), (24, 6392), (33, 6560), (35, 6614), (46, 6857), (47, 7055), (48, 7058), (49, 7097),

Gene: BugsBunny_9 Start: 5912, Stop: 6913, Start Num: 4
Candidate Starts for BugsBunny_9:
(Start: 4 @5912 has 134 MA's), (7, 5993), (8, 6011), (11, 6095), (12, 6101), (13, 6113), (15, 6152), (16, 6155), (21, 6206), (23, 6245), (24, 6263), (29, 6335), (35, 6392), (46, 6638), (47, 6836), (48, 6839), (49, 6878),

Gene: Cactus_13 Start: 5958, Stop: 7052, Start Num: 4
Candidate Starts for Cactus_13:
(Start: 4 @5958 has 134 MA's), (7, 6039), (8, 6057), (11, 6141), (12, 6147), (13, 6159), (15, 6198), (16, 6201), (21, 6252), (23, 6291), (24, 6309), (33, 6477), (35, 6531), (46, 6777), (47, 6975), (48, 6978), (49, 7017),

Gene: ChosenOne_10 Start: 5178, Stop: 6470, Start Num: 4
Candidate Starts for ChosenOne_10:
(Start: 4 @5178 has 134 MA's), (7, 5259), (8, 5277), (11, 5361), (12, 5367), (13, 5379), (15, 5418), (16, 5421), (21, 5472), (23, 5511), (24, 5529), (29, 5601), (35, 5658), (41, 5976), (42, 6027), (43, 6102), (44, 6129), (45, 6138), (46, 6195), (47, 6393), (48, 6396), (49, 6435),

Gene: ChotaBhai_11 Start: 5412, Stop: 6506, Start Num: 4
Candidate Starts for ChotaBhai_11:
(Start: 4 @5412 has 134 MA's), (7, 5493), (8, 5511), (11, 5595), (12, 5601), (13, 5613), (15, 5652), (16, 5655), (21, 5706), (23, 5745), (24, 5763), (33, 5931), (35, 5985), (46, 6231), (47, 6429), (48, 6432), (49, 6471),

Gene: Cjw1_11 Start: 6728, Stop: 8020, Start Num: 4
Candidate Starts for Cjw1_11:
(Start: 4 @6728 has 134 MA's), (7, 6809), (8, 6827), (11, 6911), (12, 6917), (13, 6929), (15, 6968), (16, 6971), (21, 7022), (23, 7061), (24, 7079), (29, 7151), (41, 7526), (42, 7577), (43, 7652), (44, 7679), (45, 7688), (46, 7745), (47, 7943), (48, 7946), (49, 7985),

Gene: Command613_13 Start: 6816, Stop: 8108, Start Num: 4
Candidate Starts for Command613_13:
(Start: 4 @6816 has 134 MA's), (7, 6897), (8, 6915), (11, 6999), (12, 7005), (13, 7017), (15, 7056), (16, 7059), (21, 7110), (23, 7149), (24, 7167), (29, 7239), (41, 7614), (42, 7665), (43, 7740), (44, 7767), (45, 7776), (46, 7833), (47, 8031), (48, 8034), (49, 8073),

Gene: Contagion_11 Start: 6346, Stop: 7347, Start Num: 4
Candidate Starts for Contagion_11:
(Start: 4 @6346 has 134 MA's), (7, 6427), (8, 6445), (11, 6529), (12, 6535), (13, 6547), (15, 6586), (16, 6589), (21, 6640), (23, 6679), (24, 6697), (29, 6769), (35, 6826), (46, 7072), (47, 7270), (48, 7273), (49, 7312),

Gene: Cookies_12 Start: 6618, Stop: 7712, Start Num: 4
Candidate Starts for Cookies_12:
(Start: 4 @6618 has 134 MA's), (7, 6699), (8, 6717), (11, 6801), (12, 6807), (13, 6819), (15, 6858), (16, 6861), (21, 6912), (23, 6951), (24, 6969), (33, 7137), (35, 7191), (46, 7437), (47, 7635), (48, 7638), (49, 7677),

Gene: CrystalP_12 Start: 6745, Stop: 7839, Start Num: 4
Candidate Starts for CrystalP_12:
(Start: 4 @6745 has 134 MA's), (7, 6826), (8, 6844), (11, 6928), (12, 6934), (13, 6946), (15, 6985), (16, 6988), (21, 7039), (23, 7078), (24, 7096), (33, 7264), (35, 7318), (46, 7564), (47, 7762), (48, 7765), (49, 7804),

Gene: Czyszczon1_12 Start: 5914, Stop: 7005, Start Num: 4
Candidate Starts for Czyszczon1_12:
(Start: 4 @5914 has 134 MA's), (7, 5995), (8, 6013), (11, 6097), (12, 6103), (13, 6115), (15, 6154), (16, 6157), (21, 6208), (23, 6247), (24, 6265), (33, 6433), (35, 6487), (46, 6730), (47, 6928), (48, 6931), (49, 6970),

Gene: Daikon_10 Start: 6479, Stop: 7573, Start Num: 4
Candidate Starts for Daikon_10:
(Start: 4 @6479 has 134 MA's), (7, 6560), (8, 6578), (11, 6662), (12, 6668), (13, 6680), (15, 6719), (16, 6722), (21, 6773), (23, 6812), (24, 6830), (33, 6998), (35, 7052), (46, 7298), (47, 7496), (48, 7499), (49, 7538),

Gene: DoctorDiddles_12 Start: 5911, Stop: 7005, Start Num: 4
Candidate Starts for DoctorDiddles_12:
(Start: 4 @5911 has 134 MA's), (7, 5992), (8, 6010), (11, 6094), (12, 6100), (13, 6112), (15, 6151), (16, 6154), (21, 6205), (23, 6244), (24, 6262), (33, 6430), (35, 6484), (46, 6730), (47, 6928), (48, 6931), (49, 6970),

Gene: DrDrey_12 Start: 6745, Stop: 7746, Start Num: 4
Candidate Starts for DrDrey_12:
(Start: 4 @6745 has 134 MA's), (7, 6826), (8, 6844), (11, 6928), (12, 6934), (13, 6946), (15, 6985), (16, 6988), (21, 7039), (23, 7078), (24, 7096), (29, 7168), (35, 7225), (46, 7471), (47, 7669), (48, 7672), (49, 7711),

Gene: Dumbo_11 Start: 5726, Stop: 6727, Start Num: 4
Candidate Starts for Dumbo_11:
(Start: 4 @5726 has 134 MA's), (7, 5807), (8, 5825), (11, 5909), (12, 5915), (13, 5927), (15, 5966), (16, 5969), (21, 6020), (23, 6059), (24, 6077), (29, 6149), (35, 6206), (46, 6452), (47, 6650), (48, 6653), (49, 6692),

Gene: Dusk_11 Start: 6405, Stop: 7499, Start Num: 4
Candidate Starts for Dusk_11:
(Start: 4 @6405 has 134 MA's), (7, 6486), (8, 6504), (11, 6588), (12, 6594), (13, 6606), (15, 6645), (16, 6648), (21, 6699), (23, 6738), (24, 6756), (33, 6924), (35, 6978), (46, 7224), (47, 7422), (48, 7425), (49, 7464),

Gene: Easy2Say_12 Start: 6701, Stop: 7993, Start Num: 4
Candidate Starts for Easy2Say_12:
(Start: 4 @6701 has 134 MA's), (7, 6782), (8, 6800), (11, 6884), (12, 6890), (13, 6902), (15, 6941), (16, 6944), (21, 6995), (23, 7034), (24, 7052), (29, 7124), (41, 7499), (42, 7550), (43, 7625), (44, 7652), (45,

7661), (46, 7718), (47, 7916), (48, 7919), (49, 7958),

Gene: Elite2014_10 Start: 5178, Stop: 6470, Start Num: 4
Candidate Starts for Elite2014_10:
(Start: 4 @5178 has 134 MA's), (7, 5259), (8, 5277), (11, 5361), (12, 5367), (13, 5379), (15, 5418), (16, 5421), (21, 5472), (23, 5511), (24, 5529), (29, 5601), (35, 5658), (41, 5976), (42, 6027), (43, 6102), (44, 6129), (45, 6138), (46, 6195), (47, 6393), (48, 6396), (49, 6435),

Gene: Elph10_12 Start: 5729, Stop: 6730, Start Num: 4
Candidate Starts for Elph10_12:
(Start: 4 @5729 has 134 MA's), (7, 5810), (8, 5828), (11, 5912), (12, 5918), (13, 5930), (15, 5969), (16, 5972), (21, 6023), (23, 6062), (24, 6080), (29, 6152), (35, 6209), (46, 6455), (47, 6653), (48, 6656), (49, 6695),

Gene: Emmina_11 Start: 5283, Stop: 6575, Start Num: 4
Candidate Starts for Emmina_11:
(Start: 4 @5283 has 134 MA's), (7, 5364), (8, 5382), (11, 5466), (12, 5472), (13, 5484), (15, 5523), (16, 5526), (21, 5577), (23, 5616), (24, 5634), (29, 5706), (35, 5763), (41, 6081), (42, 6132), (43, 6207), (44, 6234), (45, 6243), (46, 6300), (47, 6498), (48, 6501), (49, 6540),

Gene: Eureka_11 Start: 6449, Stop: 7543, Start Num: 4
Candidate Starts for Eureka_11:
(Start: 4 @6449 has 134 MA's), (7, 6530), (8, 6548), (11, 6632), (12, 6638), (13, 6650), (15, 6689), (16, 6692), (21, 6743), (23, 6782), (24, 6800), (29, 6872), (33, 6968), (34, 7001), (35, 7022), (46, 7268), (47, 7466), (48, 7469), (49, 7508),

Gene: FairyPath_12 Start: 6745, Stop: 8037, Start Num: 4
Candidate Starts for FairyPath_12:
(Start: 4 @6745 has 134 MA's), (7, 6826), (8, 6844), (11, 6928), (12, 6934), (13, 6946), (15, 6985), (16, 6988), (21, 7039), (23, 7078), (24, 7096), (29, 7168), (41, 7543), (42, 7594), (43, 7669), (44, 7696), (45, 7705), (46, 7762), (47, 7960), (48, 7963), (49, 8002),

Gene: Filch_12 Start: 5723, Stop: 7015, Start Num: 4
Candidate Starts for Filch_12:
(Start: 4 @5723 has 134 MA's), (7, 5804), (8, 5822), (11, 5906), (12, 5912), (13, 5924), (15, 5963), (16, 5966), (21, 6017), (23, 6056), (24, 6074), (29, 6146), (41, 6521), (42, 6572), (43, 6647), (44, 6674), (45, 6683), (46, 6740), (47, 6938), (48, 6941), (49, 6980),

Gene: FireRed_11 Start: 6346, Stop: 7347, Start Num: 4
Candidate Starts for FireRed_11:
(Start: 4 @6346 has 134 MA's), (7, 6427), (8, 6445), (11, 6529), (12, 6535), (13, 6547), (15, 6586), (16, 6589), (21, 6640), (23, 6679), (24, 6697), (29, 6769), (35, 6826), (46, 7072), (47, 7270), (48, 7273), (49, 7312),

Gene: Flypotenuse_10 Start: 6361, Stop: 7455, Start Num: 4
Candidate Starts for Flypotenuse_10:
(Start: 4 @6361 has 134 MA's), (7, 6442), (8, 6460), (11, 6544), (12, 6550), (13, 6562), (15, 6601), (16, 6604), (21, 6655), (23, 6694), (24, 6712), (33, 6880), (35, 6934), (46, 7180), (47, 7378), (48, 7381), (49, 7420),

Gene: FoghornLeghorn_11 Start: 6343, Stop: 7344, Start Num: 4
Candidate Starts for FoghornLeghorn_11:

(Start: 4 @6343 has 134 MA's), (7, 6424), (8, 6442), (11, 6526), (12, 6532), (13, 6544), (15, 6583), (16, 6586), (21, 6637), (23, 6676), (24, 6694), (29, 6766), (35, 6823), (46, 7069), (47, 7267), (48, 7270), (49, 7309),

Gene: Gage_13 Start: 5958, Stop: 7250, Start Num: 4
Candidate Starts for Gage_13:
(Start: 4 @5958 has 134 MA's), (7, 6039), (8, 6057), (11, 6141), (12, 6147), (13, 6159), (15, 6198), (16, 6201), (21, 6252), (23, 6291), (24, 6309), (29, 6381), (35, 6438), (41, 6756), (42, 6807), (43, 6882), (44, 6909), (45, 6918), (46, 6975), (47, 7173), (48, 7176), (49, 7215),

Gene: Gator_10 Start: 6361, Stop: 7455, Start Num: 4
Candidate Starts for Gator_10:
(Start: 4 @6361 has 134 MA's), (7, 6442), (8, 6460), (11, 6544), (12, 6550), (13, 6562), (15, 6601), (16, 6604), (21, 6655), (23, 6694), (24, 6712), (33, 6880), (35, 6934), (46, 7180), (47, 7378), (48, 7381), (49, 7420),

Gene: Gemini_13 Start: 5958, Stop: 7250, Start Num: 4
Candidate Starts for Gemini_13:
(Start: 4 @5958 has 134 MA's), (7, 6039), (8, 6057), (11, 6141), (12, 6147), (13, 6159), (15, 6198), (16, 6201), (21, 6252), (23, 6291), (24, 6309), (29, 6381), (41, 6756), (42, 6807), (43, 6882), (44, 6909), (45, 6918), (46, 6975), (47, 7173), (48, 7176), (49, 7215),

Gene: Glexan_10 Start: 6361, Stop: 7455, Start Num: 4
Candidate Starts for Glexan_10:
(Start: 4 @6361 has 134 MA's), (7, 6442), (8, 6460), (11, 6544), (12, 6550), (13, 6562), (15, 6601), (16, 6604), (21, 6655), (23, 6694), (24, 6712), (33, 6880), (35, 6934), (46, 7180), (47, 7378), (48, 7381), (49, 7420),

Gene: Goku_12 Start: 6449, Stop: 7543, Start Num: 4
Candidate Starts for Goku_12:
(Start: 4 @6449 has 134 MA's), (7, 6530), (8, 6548), (11, 6632), (12, 6638), (13, 6650), (15, 6689), (16, 6692), (21, 6743), (23, 6782), (24, 6800), (29, 6872), (33, 6968), (34, 7001), (35, 7022), (46, 7268), (47, 7466), (48, 7469), (49, 7508),

Gene: GoldenSpark_13 Start: 5958, Stop: 7250, Start Num: 4
Candidate Starts for GoldenSpark_13:
(Start: 4 @5958 has 134 MA's), (7, 6039), (8, 6057), (11, 6141), (12, 6147), (13, 6159), (15, 6198), (16, 6201), (21, 6252), (23, 6291), (24, 6309), (29, 6381), (35, 6438), (41, 6756), (42, 6807), (43, 6882), (44, 6909), (45, 6918), (46, 6975), (47, 7173), (48, 7176), (49, 7215),

Gene: Goldilocks_13 Start: 5958, Stop: 7250, Start Num: 4
Candidate Starts for Goldilocks_13:
(Start: 4 @5958 has 134 MA's), (7, 6039), (8, 6057), (11, 6141), (12, 6147), (13, 6159), (15, 6198), (16, 6201), (21, 6252), (23, 6291), (24, 6309), (29, 6381), (35, 6438), (41, 6756), (42, 6807), (43, 6882), (44, 6909), (45, 6918), (46, 6975), (47, 7173), (48, 7176), (49, 7215),

Gene: GooberAzure_13 Start: 5958, Stop: 7250, Start Num: 4
Candidate Starts for GooberAzure_13:
(Start: 4 @5958 has 134 MA's), (7, 6039), (8, 6057), (11, 6141), (12, 6147), (13, 6159), (15, 6198), (16, 6201), (21, 6252), (23, 6291), (24, 6309), (29, 6381), (35, 6438), (41, 6756), (42, 6807), (43, 6882), (44, 6909), (45, 6918), (46, 6975), (47, 7173), (48, 7176), (49, 7215),

Gene: Greep_12 Start: 6489, Stop: 7580, Start Num: 4

Candidate Starts for Greep_12:
(Start: 4 @6489 has 134 MA's), (7, 6570), (8, 6588), (11, 6672), (12, 6678), (13, 6690), (15, 6729), (16, 6732), (21, 6783), (23, 6822), (24, 6840), (33, 7008), (35, 7062), (46, 7305), (47, 7503), (48, 7506), (49, 7545),

Gene: HanKaySha_12 Start: 5914, Stop: 7005, Start Num: 4
Candidate Starts for HanKaySha_12:
(Start: 4 @5914 has 134 MA's), (7, 5995), (8, 6013), (11, 6097), (12, 6103), (13, 6115), (15, 6154), (16, 6157), (21, 6208), (23, 6247), (24, 6265), (33, 6433), (35, 6487), (46, 6730), (47, 6928), (48, 6931), (49, 6970),

Gene: Harella_10 Start: 6361, Stop: 7455, Start Num: 4
Candidate Starts for Harella_10:
(Start: 4 @6361 has 134 MA's), (7, 6442), (8, 6460), (11, 6544), (12, 6550), (13, 6562), (15, 6601), (16, 6604), (21, 6655), (23, 6694), (24, 6712), (33, 6880), (35, 6934), (46, 7180), (47, 7378), (48, 7381), (49, 7420),

Gene: Henry_12 Start: 6745, Stop: 7839, Start Num: 4
Candidate Starts for Henry_12:
(Start: 4 @6745 has 134 MA's), (7, 6826), (8, 6844), (11, 6928), (12, 6934), (13, 6946), (15, 6985), (16, 6988), (21, 7039), (23, 7078), (24, 7096), (33, 7264), (35, 7318), (46, 7564), (47, 7762), (48, 7765), (49, 7804),

Gene: Highbury_12 Start: 5923, Stop: 6924, Start Num: 4
Candidate Starts for Highbury_12:
(Start: 4 @5923 has 134 MA's), (7, 6004), (8, 6022), (11, 6106), (12, 6112), (13, 6124), (15, 6163), (16, 6166), (21, 6217), (23, 6256), (24, 6274), (29, 6346), (35, 6403), (46, 6649), (47, 6847), (48, 6850), (49, 6889),

Gene: Holt_13 Start: 6029, Stop: 7123, Start Num: 4
Candidate Starts for Holt_13:
(Start: 4 @6029 has 134 MA's), (7, 6110), (8, 6128), (11, 6212), (12, 6218), (13, 6230), (15, 6269), (16, 6272), (21, 6323), (23, 6362), (24, 6380), (33, 6548), (35, 6602), (46, 6848), (47, 7046), (48, 7049), (49, 7088),

Gene: Hoonter_13 Start: 5958, Stop: 7250, Start Num: 4
Candidate Starts for Hoonter_13:
(Start: 4 @5958 has 134 MA's), (7, 6039), (8, 6057), (11, 6141), (12, 6147), (13, 6159), (15, 6198), (16, 6201), (21, 6252), (23, 6291), (24, 6309), (29, 6381), (35, 6438), (41, 6756), (42, 6807), (43, 6882), (44, 6909), (45, 6918), (46, 6975), (47, 7173), (48, 7176), (49, 7215),

Gene: Hopey_12 Start: 5723, Stop: 7015, Start Num: 4
Candidate Starts for Hopey_12:
(Start: 4 @5723 has 134 MA's), (7, 5804), (8, 5822), (11, 5906), (12, 5912), (13, 5924), (15, 5963), (16, 5966), (21, 6017), (23, 6056), (24, 6074), (29, 6146), (35, 6203), (41, 6521), (42, 6572), (43, 6647), (44, 6674), (45, 6683), (46, 6740), (47, 6938), (48, 6941), (49, 6980),

Gene: HufflyPuff_10 Start: 6302, Stop: 7303, Start Num: 4
Candidate Starts for HufflyPuff_10:
(Start: 4 @6302 has 134 MA's), (7, 6383), (8, 6401), (11, 6485), (12, 6491), (13, 6503), (15, 6542), (16, 6545), (21, 6596), (23, 6635), (24, 6653), (29, 6725), (35, 6782), (46, 7028), (47, 7226), (48, 7229), (49, 7268),

Gene: IHOP_11 Start: 6405, Stop: 7499, Start Num: 4
Candidate Starts for IHOP_11:
(Start: 4 @6405 has 134 MA's), (7, 6486), (8, 6504), (11, 6588), (12, 6594), (13, 6606), (15, 6645), (16, 6648), (21, 6699), (23, 6738), (24, 6756), (33, 6924), (35, 6978), (46, 7224), (47, 7422), (48, 7425), (49, 7464),

Gene: Icee_11 Start: 6405, Stop: 7499, Start Num: 4
Candidate Starts for Icee_11:
(Start: 4 @6405 has 134 MA's), (7, 6486), (8, 6504), (11, 6588), (12, 6594), (13, 6606), (15, 6645), (16, 6648), (21, 6699), (23, 6738), (24, 6756), (33, 6924), (35, 6978), (46, 7224), (47, 7422), (48, 7425), (49, 7464),

Gene: Inca_11 Start: 5425, Stop: 6519, Start Num: 4
Candidate Starts for Inca_11:
(Start: 4 @5425 has 134 MA's), (7, 5506), (8, 5524), (11, 5608), (12, 5614), (13, 5626), (15, 5665), (16, 5668), (21, 5719), (23, 5758), (24, 5776), (33, 5944), (35, 5998), (46, 6244), (47, 6442), (48, 6445), (49, 6484),

Gene: JeTaime_13 Start: 6763, Stop: 8055, Start Num: 4
Candidate Starts for JeTaime_13:
(Start: 4 @6763 has 134 MA's), (7, 6844), (8, 6862), (11, 6946), (12, 6952), (13, 6964), (15, 7003), (16, 7006), (21, 7057), (23, 7096), (24, 7114), (29, 7186), (35, 7243), (41, 7561), (42, 7612), (43, 7687), (44, 7714), (45, 7723), (46, 7780), (47, 7978), (48, 7981), (49, 8020),

Gene: Kanye_13 Start: 6951, Stop: 8243, Start Num: 4
Candidate Starts for Kanye_13:
(Start: 4 @6951 has 134 MA's), (7, 7032), (8, 7050), (11, 7134), (12, 7140), (13, 7152), (15, 7191), (16, 7194), (21, 7245), (23, 7284), (24, 7302), (29, 7374), (41, 7749), (42, 7800), (43, 7875), (44, 7902), (45, 7911), (46, 7968), (47, 8166), (48, 8169), (49, 8208),

Gene: Kimchi_13 Start: 5958, Stop: 7250, Start Num: 4
Candidate Starts for Kimchi_13:
(Start: 4 @5958 has 134 MA's), (7, 6039), (8, 6057), (11, 6141), (12, 6147), (13, 6159), (15, 6198), (16, 6201), (21, 6252), (23, 6291), (24, 6309), (29, 6381), (41, 6756), (42, 6807), (43, 6882), (44, 6909), (45, 6918), (46, 6975), (47, 7173), (48, 7176), (49, 7215),

Gene: Kostya_12 Start: 6745, Stop: 7839, Start Num: 4
Candidate Starts for Kostya_12:
(Start: 4 @6745 has 134 MA's), (7, 6826), (8, 6844), (11, 6928), (12, 6934), (13, 6946), (15, 6985), (16, 6988), (21, 7039), (23, 7078), (24, 7096), (33, 7264), (35, 7318), (46, 7564), (47, 7762), (48, 7765), (49, 7804),

Gene: Lilac_13 Start: 5750, Stop: 6751, Start Num: 4
Candidate Starts for Lilac_13:
(Start: 4 @5750 has 134 MA's), (7, 5831), (8, 5849), (11, 5933), (12, 5939), (13, 5951), (15, 5990), (16, 5993), (21, 6044), (23, 6083), (24, 6101), (29, 6173), (46, 6476), (47, 6674), (48, 6677), (49, 6716),

Gene: Lilizi_13 Start: 5961, Stop: 6962, Start Num: 4
Candidate Starts for Lilizi_13:
(Start: 4 @5961 has 134 MA's), (7, 6042), (8, 6060), (11, 6144), (12, 6150), (13, 6162), (15, 6201), (16, 6204), (21, 6255), (23, 6294), (24, 6312), (29, 6384), (35, 6441), (46, 6687), (47, 6885), (48, 6888), (49, 6927),

Gene: Lilpickle_10 Start: 5178, Stop: 6470, Start Num: 4
Candidate Starts for Lilpickle_10:
(Start: 4 @5178 has 134 MA's), (7, 5259), (8, 5277), (11, 5361), (12, 5367), (13, 5379), (15, 5418), (16, 5421), (21, 5472), (23, 5511), (24, 5529), (29, 5601), (35, 5658), (41, 5976), (42, 6027), (43, 6102), (44, 6129), (45, 6138), (46, 6195), (47, 6393), (48, 6396), (49, 6435),

Gene: Livelaughbron_11 Start: 6346, Stop: 7437, Start Num: 4
Candidate Starts for Livelaughbron_11:
(Start: 4 @6346 has 134 MA's), (7, 6427), (8, 6445), (11, 6529), (12, 6535), (13, 6547), (15, 6586), (16, 6589), (21, 6640), (23, 6679), (24, 6697), (33, 6865), (35, 6919), (46, 7162), (47, 7360), (48, 7363), (49, 7402),

Gene: MISSy_11 Start: 6346, Stop: 7347, Start Num: 4
Candidate Starts for MISSy_11:
(Start: 4 @6346 has 134 MA's), (7, 6427), (8, 6445), (11, 6529), (12, 6535), (13, 6547), (15, 6586), (16, 6589), (21, 6640), (23, 6679), (24, 6697), (29, 6769), (35, 6826), (46, 7072), (47, 7270), (48, 7273), (49, 7312),

Gene: MPhalcon_11 Start: 6346, Stop: 7347, Start Num: 4
Candidate Starts for MPhalcon_11:
(Start: 4 @6346 has 134 MA's), (7, 6427), (8, 6445), (11, 6529), (12, 6535), (13, 6547), (15, 6586), (16, 6589), (21, 6640), (23, 6679), (24, 6697), (29, 6769), (35, 6826), (46, 7072), (47, 7270), (48, 7273), (49, 7312),

Gene: MadamMonkfish_11 Start: 5590, Stop: 6681, Start Num: 4
Candidate Starts for MadamMonkfish_11:
(Start: 4 @5590 has 134 MA's), (7, 5671), (8, 5689), (11, 5773), (12, 5779), (13, 5791), (15, 5830), (16, 5833), (21, 5884), (23, 5923), (24, 5941), (33, 6109), (35, 6163), (46, 6406), (47, 6604), (48, 6607), (49, 6646),

Gene: Manda_11 Start: 6241, Stop: 7533, Start Num: 4
Candidate Starts for Manda_11:
(Start: 4 @6241 has 134 MA's), (7, 6322), (8, 6340), (11, 6424), (12, 6430), (13, 6442), (15, 6481), (16, 6484), (21, 6535), (23, 6574), (24, 6592), (29, 6664), (41, 7039), (42, 7090), (43, 7165), (44, 7192), (45, 7201), (46, 7258), (47, 7456), (48, 7459), (49, 7498),

Gene: Marshmallow_12 Start: 6745, Stop: 7839, Start Num: 4
Candidate Starts for Marshmallow_12:
(Start: 4 @6745 has 134 MA's), (7, 6826), (8, 6844), (11, 6928), (12, 6934), (13, 6946), (15, 6985), (16, 6988), (21, 7039), (23, 7078), (24, 7096), (33, 7264), (35, 7318), (46, 7564), (47, 7762), (48, 7765), (49, 7804),

Gene: Maxxinista_12 Start: 5729, Stop: 6730, Start Num: 4
Candidate Starts for Maxxinista_12:
(Start: 4 @5729 has 134 MA's), (7, 5810), (8, 5828), (11, 5912), (12, 5918), (13, 5930), (15, 5969), (16, 5972), (21, 6023), (23, 6062), (24, 6080), (29, 6152), (35, 6209), (46, 6455), (47, 6653), (48, 6656), (49, 6695),

Gene: Mindy_12 Start: 6616, Stop: 7617, Start Num: 4
Candidate Starts for Mindy_12:
(Start: 4 @6616 has 134 MA's), (7, 6697), (8, 6715), (11, 6799), (12, 6805), (13, 6817), (15, 6856), (16, 6859), (21, 6910), (23, 6949), (24, 6967), (29, 7039), (46, 7342), (47, 7540), (48, 7543), (49, 7582),

Gene: Miniwave_12 Start: 6745, Stop: 8037, Start Num: 4
Candidate Starts for Miniwave_12:
(Start: 4 @6745 has 134 MA's), (7, 6826), (8, 6844), (11, 6928), (12, 6934), (13, 6946), (15, 6985), (16, 6988), (21, 7039), (23, 7078), (24, 7096), (29, 7168), (41, 7543), (42, 7594), (43, 7669), (44, 7696), (45, 7705), (46, 7762), (47, 7960), (48, 7963), (49, 8002),

Gene: Misfit_11 Start: 6346, Stop: 7347, Start Num: 4
Candidate Starts for Misfit_11:
(Start: 4 @6346 has 134 MA's), (7, 6427), (8, 6445), (11, 6529), (12, 6535), (13, 6547), (15, 6586), (16, 6589), (21, 6640), (23, 6679), (24, 6697), (29, 6769), (35, 6826), (46, 7072), (47, 7270), (48, 7273), (49, 7312),

Gene: Moldemort_12 Start: 5914, Stop: 7005, Start Num: 4
Candidate Starts for Moldemort_12:
(Start: 4 @5914 has 134 MA's), (7, 5995), (8, 6013), (11, 6097), (12, 6103), (13, 6115), (15, 6154), (16, 6157), (21, 6208), (23, 6247), (24, 6265), (33, 6433), (35, 6487), (46, 6730), (47, 6928), (48, 6931), (49, 6970),

Gene: MollyToe_12 Start: 6624, Stop: 8009, Start Num: 4
Candidate Starts for MollyToe_12:
(Start: 4 @6624 has 134 MA's), (7, 6705), (8, 6723), (11, 6807), (12, 6813), (13, 6825), (15, 6864), (16, 6867), (21, 6918), (23, 6957), (24, 6975), (33, 7143), (35, 7197), (41, 7515), (42, 7566), (43, 7641), (44, 7668), (45, 7677), (46, 7734), (47, 7932), (48, 7935), (49, 7974),

Gene: Mosby_11 Start: 6346, Stop: 7347, Start Num: 4
Candidate Starts for Mosby_11:
(Start: 4 @6346 has 134 MA's), (7, 6427), (8, 6445), (11, 6529), (12, 6535), (13, 6547), (15, 6586), (16, 6589), (21, 6640), (23, 6679), (24, 6697), (29, 6769), (35, 6826), (46, 7072), (47, 7270), (48, 7273), (49, 7312),

Gene: Murica_10 Start: 6302, Stop: 7303, Start Num: 4
Candidate Starts for Murica_10:
(Start: 4 @6302 has 134 MA's), (7, 6383), (8, 6401), (11, 6485), (12, 6491), (13, 6503), (15, 6542), (16, 6545), (21, 6596), (23, 6635), (24, 6653), (29, 6725), (35, 6782), (46, 7028), (47, 7226), (48, 7229), (49, 7268),

Gene: Murphy_11 Start: 5631, Stop: 6722, Start Num: 4
Candidate Starts for Murphy_11:
(Start: 4 @5631 has 134 MA's), (7, 5712), (8, 5730), (11, 5814), (12, 5820), (13, 5832), (15, 5871), (16, 5874), (21, 5925), (23, 5964), (24, 5982), (33, 6150), (35, 6204), (46, 6447), (47, 6645), (48, 6648), (49, 6687),

Gene: Myrale_12 Start: 6616, Stop: 7710, Start Num: 4
Candidate Starts for Myrale_12:
(Start: 4 @6616 has 134 MA's), (7, 6697), (8, 6715), (11, 6799), (12, 6805), (13, 6817), (15, 6856), (16, 6859), (21, 6910), (23, 6949), (24, 6967), (33, 7135), (35, 7189), (46, 7435), (47, 7633), (48, 7636), (49, 7675),

Gene: Nala_11 Start: 6346, Stop: 7347, Start Num: 4
Candidate Starts for Nala_11:
(Start: 4 @6346 has 134 MA's), (7, 6427), (8, 6445), (11, 6529), (12, 6535), (13, 6547), (15, 6586), (16, 6589), (21, 6640), (23, 6679), (24, 6697), (29, 6769), (35, 6826), (46, 7072), (47, 7270), (48, 7273), (49, 7312),

Gene: NelitzaMV_12 Start: 6616, Stop: 7908, Start Num: 4
Candidate Starts for NelitzaMV_12:
(Start: 4 @6616 has 134 MA's), (7, 6697), (8, 6715), (11, 6799), (12, 6805), (13, 6817), (15, 6856), (16, 6859), (21, 6910), (23, 6949), (24, 6967), (29, 7039), (41, 7414), (42, 7465), (43, 7540), (44, 7567), (45, 7576), (46, 7633), (47, 7831), (48, 7834), (49, 7873),

Gene: Nimrod_11 Start: 6411, Stop: 7502, Start Num: 4
Candidate Starts for Nimrod_11:
(Start: 4 @6411 has 134 MA's), (7, 6492), (8, 6510), (11, 6594), (12, 6600), (13, 6612), (15, 6651), (16, 6654), (21, 6705), (23, 6744), (24, 6762), (33, 6930), (35, 6984), (46, 7227), (47, 7425), (48, 7428), (49, 7467),

Gene: NoSleep_12 Start: 5911, Stop: 7002, Start Num: 4
Candidate Starts for NoSleep_12:
(Start: 4 @5911 has 134 MA's), (7, 5992), (8, 6010), (11, 6094), (12, 6100), (13, 6112), (15, 6151), (16, 6154), (21, 6205), (23, 6244), (24, 6262), (33, 6430), (35, 6484), (46, 6727), (47, 6925), (48, 6928), (49, 6967),

Gene: NonchalantPear_11 Start: 5663, Stop: 6955, Start Num: 4
Candidate Starts for NonchalantPear_11:
(Start: 4 @5663 has 134 MA's), (7, 5744), (8, 5762), (11, 5846), (12, 5852), (13, 5864), (15, 5903), (16, 5906), (21, 5957), (23, 5996), (24, 6014), (29, 6086), (41, 6461), (42, 6512), (43, 6587), (44, 6614), (45, 6623), (46, 6680), (47, 6878), (48, 6881), (49, 6920),

Gene: OrionPax_12 Start: 5914, Stop: 7005, Start Num: 4
Candidate Starts for OrionPax_12:
(Start: 4 @5914 has 134 MA's), (7, 5995), (8, 6013), (11, 6097), (12, 6103), (13, 6115), (15, 6154), (16, 6157), (21, 6208), (23, 6247), (24, 6265), (33, 6433), (35, 6487), (46, 6730), (47, 6928), (48, 6931), (49, 6970),

Gene: PFR1_04 Start: 4171, Stop: 4992, Start Num: 1
Candidate Starts for PFR1_04:
(1, 4171), (2, 4183), (3, 4195), (5, 4207), (6, 4219), (9, 4333), (10, 4366), (11, 4378), (14, 4432), (16, 4438), (17, 4450), (18, 4465), (20, 4486), (21, 4489), (22, 4513), (25, 4564), (26, 4585), (27, 4597), (28, 4600), (30, 4639), (31, 4648), (32, 4696), (36, 4798), (37, 4840), (38, 4855), (39, 4906), (40, 4909),

Gene: PFR2_04 Start: 4171, Stop: 4992, Start Num: 1
Candidate Starts for PFR2_04:
(1, 4171), (2, 4183), (3, 4195), (5, 4207), (6, 4219), (9, 4333), (10, 4366), (11, 4378), (14, 4432), (16, 4438), (17, 4450), (18, 4465), (20, 4486), (21, 4489), (22, 4513), (25, 4564), (26, 4585), (27, 4597), (28, 4600), (30, 4639), (31, 4648), (32, 4696), (36, 4798), (37, 4840), (38, 4855), (39, 4906), (40, 4909),

Gene: PaddyBaddy_12 Start: 5723, Stop: 7015, Start Num: 4
Candidate Starts for PaddyBaddy_12:
(Start: 4 @5723 has 134 MA's), (7, 5804), (8, 5822), (11, 5906), (12, 5912), (13, 5924), (15, 5963), (16, 5966), (21, 6017), (23, 6056), (24, 6074), (29, 6146), (35, 6203), (41, 6521), (42, 6572), (43, 6647), (44, 6674), (45, 6683), (46, 6740), (47, 6938), (48, 6941), (49, 6980),

Gene: Palpatine_11 Start: 6343, Stop: 7344, Start Num: 4
Candidate Starts for Palpatine_11:
(Start: 4 @6343 has 134 MA's), (7, 6424), (8, 6442), (11, 6526), (12, 6532), (13, 6544), (15, 6583), (16, 6586), (21, 6637), (23, 6676), (24, 6694), (29, 6766), (35, 6823), (46, 7069), (47, 7267), (48, 7270), (49,

7309),

Gene: Paperbeatsrock_13 Start: 6945, Stop: 8237, Start Num: 4
Candidate Starts for Paperbeatsrock_13:
(Start: 4 @6945 has 134 MA's), (7, 7026), (8, 7044), (11, 7128), (12, 7134), (13, 7146), (15, 7185), (16, 7188), (21, 7239), (23, 7278), (24, 7296), (29, 7368), (41, 7743), (42, 7794), (43, 7869), (44, 7896), (45, 7905), (46, 7962), (47, 8160), (48, 8163), (49, 8202),

Gene: Pat3_11 Start: 5452, Stop: 6546, Start Num: 4
Candidate Starts for Pat3_11:
(Start: 4 @5452 has 134 MA's), (7, 5533), (8, 5551), (11, 5635), (12, 5641), (13, 5653), (15, 5692), (16, 5695), (21, 5746), (23, 5785), (24, 5803), (29, 5875), (33, 5971), (34, 6004), (35, 6025), (46, 6271), (47, 6469), (48, 6472), (49, 6511),

Gene: Petra64142_12 Start: 6627, Stop: 7718, Start Num: 4
Candidate Starts for Petra64142_12:
(Start: 4 @6627 has 134 MA's), (7, 6708), (8, 6726), (11, 6810), (12, 6816), (13, 6828), (15, 6867), (16, 6870), (21, 6921), (23, 6960), (24, 6978), (33, 7146), (35, 7200), (46, 7443), (47, 7641), (48, 7644), (49, 7683),

Gene: Phaja_11 Start: 6405, Stop: 7499, Start Num: 4
Candidate Starts for Phaja_11:
(Start: 4 @6405 has 134 MA's), (7, 6486), (8, 6504), (11, 6588), (12, 6594), (13, 6606), (15, 6645), (16, 6648), (21, 6699), (23, 6738), (24, 6756), (33, 6924), (35, 6978), (46, 7224), (47, 7422), (48, 7425), (49, 7464),

Gene: Pharsalus_12 Start: 6745, Stop: 8037, Start Num: 4
Candidate Starts for Pharsalus_12:
(Start: 4 @6745 has 134 MA's), (7, 6826), (8, 6844), (11, 6928), (12, 6934), (13, 6946), (15, 6985), (16, 6988), (21, 7039), (23, 7078), (24, 7096), (29, 7168), (41, 7543), (42, 7594), (43, 7669), (44, 7696), (45, 7705), (46, 7762), (47, 7960), (48, 7963), (49, 8002),

Gene: PhatBacter_11 Start: 6346, Stop: 7347, Start Num: 4
Candidate Starts for PhatBacter_11:
(Start: 4 @6346 has 134 MA's), (7, 6427), (8, 6445), (11, 6529), (12, 6535), (13, 6547), (15, 6586), (16, 6589), (21, 6640), (23, 6679), (24, 6697), (29, 6769), (35, 6826), (46, 7072), (47, 7270), (48, 7273), (49, 7312),

Gene: Phaux_10 Start: 6346, Stop: 7347, Start Num: 4
Candidate Starts for Phaux_10:
(Start: 4 @6346 has 134 MA's), (7, 6427), (8, 6445), (11, 6529), (12, 6535), (13, 6547), (15, 6586), (16, 6589), (21, 6640), (23, 6679), (24, 6697), (29, 6769), (35, 6826), (46, 7072), (47, 7270), (48, 7273), (49, 7312),

Gene: Phrux_11 Start: 5709, Stop: 7001, Start Num: 4
Candidate Starts for Phrux_11:
(Start: 4 @5709 has 134 MA's), (7, 5790), (8, 5808), (11, 5892), (12, 5898), (13, 5910), (15, 5949), (16, 5952), (21, 6003), (23, 6042), (24, 6060), (29, 6132), (41, 6507), (42, 6558), (43, 6633), (44, 6660), (45, 6669), (46, 6726), (47, 6924), (48, 6927), (49, 6966),

Gene: Policronamos_11 Start: 6346, Stop: 7347, Start Num: 4
Candidate Starts for Policronamos_11:

(Start: 4 @6346 has 134 MA's), (7, 6427), (8, 6445), (11, 6529), (12, 6535), (13, 6547), (15, 6586), (16, 6589), (21, 6640), (23, 6679), (24, 6697), (29, 6769), (35, 6826), (46, 7072), (47, 7270), (48, 7273), (49, 7312),

Gene: Porky_10 Start: 5283, Stop: 6575, Start Num: 4
Candidate Starts for Porky_10:
(Start: 4 @5283 has 134 MA's), (7, 5364), (8, 5382), (11, 5466), (12, 5472), (13, 5484), (15, 5523), (16, 5526), (21, 5577), (23, 5616), (24, 5634), (29, 5706), (35, 5763), (41, 6081), (42, 6132), (43, 6207), (44, 6234), (45, 6243), (46, 6300), (47, 6498), (48, 6501), (49, 6540),

Gene: Ptowny_11 Start: 5350, Stop: 6642, Start Num: 4
Candidate Starts for Ptowny_11:
(Start: 4 @5350 has 134 MA's), (7, 5431), (8, 5449), (11, 5533), (12, 5539), (13, 5551), (15, 5590), (16, 5593), (21, 5644), (23, 5683), (24, 5701), (29, 5773), (35, 5830), (41, 6148), (42, 6199), (43, 6274), (44, 6301), (45, 6310), (46, 6367), (47, 6565), (49, 6607),

Gene: Pumpkin_12 Start: 5727, Stop: 6818, Start Num: 4
Candidate Starts for Pumpkin_12:
(Start: 4 @5727 has 134 MA's), (7, 5808), (8, 5826), (11, 5910), (12, 5916), (13, 5928), (15, 5967), (16, 5970), (21, 6021), (23, 6060), (24, 6078), (33, 6246), (35, 6300), (46, 6543), (47, 6741), (48, 6744), (49, 6783),

Gene: Quallification_13 Start: 6951, Stop: 8045, Start Num: 4
Candidate Starts for Quallification_13:
(Start: 4 @6951 has 134 MA's), (7, 7032), (8, 7050), (11, 7134), (12, 7140), (13, 7152), (15, 7191), (16, 7194), (21, 7245), (23, 7284), (24, 7302), (33, 7470), (35, 7524), (46, 7770), (47, 7968), (48, 7971), (49, 8010),

Gene: Rakim_13 Start: 6951, Stop: 7952, Start Num: 4
Candidate Starts for Rakim_13:
(Start: 4 @6951 has 134 MA's), (7, 7032), (8, 7050), (11, 7134), (12, 7140), (13, 7152), (15, 7191), (16, 7194), (21, 7245), (23, 7284), (24, 7302), (29, 7374), (46, 7677), (47, 7875), (48, 7878), (49, 7917),

Gene: Rimmer_11 Start: 6405, Stop: 7406, Start Num: 4
Candidate Starts for Rimmer_11:
(Start: 4 @6405 has 134 MA's), (7, 6486), (8, 6504), (11, 6588), (12, 6594), (13, 6606), (15, 6645), (16, 6648), (21, 6699), (23, 6738), (24, 6756), (29, 6828), (35, 6885), (46, 7131), (47, 7329), (48, 7332), (49, 7371),

Gene: RiverMonster_11 Start: 5723, Stop: 7015, Start Num: 4
Candidate Starts for RiverMonster_11:
(Start: 4 @5723 has 134 MA's), (7, 5804), (8, 5822), (11, 5906), (12, 5912), (13, 5924), (15, 5963), (16, 5966), (21, 6017), (23, 6056), (24, 6074), (29, 6146), (41, 6521), (42, 6572), (43, 6647), (44, 6674), (45, 6683), (46, 6740), (47, 6938), (48, 6941), (49, 6980),

Gene: Saints25_12 Start: 5923, Stop: 6924, Start Num: 4
Candidate Starts for Saints25_12:
(Start: 4 @5923 has 134 MA's), (7, 6004), (8, 6022), (11, 6106), (12, 6112), (13, 6124), (15, 6163), (16, 6166), (21, 6217), (23, 6256), (24, 6274), (29, 6346), (35, 6403), (46, 6649), (47, 6847), (48, 6850), (49, 6889),

Gene: Sassay_11 Start: 6346, Stop: 7347, Start Num: 4
Candidate Starts for Sassay_11:

(Start: 4 @6346 has 134 MA's), (7, 6427), (8, 6445), (11, 6529), (12, 6535), (13, 6547), (15, 6586), (16, 6589), (21, 6640), (23, 6679), (24, 6697), (29, 6769), (35, 6826), (46, 7072), (47, 7270), (48, 7273), (49, 7312),

Gene: ShamWow_12 Start: 6745, Stop: 7839, Start Num: 4
Candidate Starts for ShamWow_12:
(Start: 4 @6745 has 134 MA's), (7, 6826), (8, 6844), (11, 6928), (12, 6934), (13, 6946), (15, 6985), (16, 6988), (21, 7039), (23, 7078), (24, 7096), (33, 7264), (35, 7318), (46, 7564), (47, 7762), (48, 7765), (49, 7804),

Gene: ShereKhan_13 Start: 6951, Stop: 8243, Start Num: 4
Candidate Starts for ShereKhan_13:
(Start: 4 @6951 has 134 MA's), (7, 7032), (8, 7050), (11, 7134), (12, 7140), (13, 7152), (15, 7191), (16, 7194), (21, 7245), (23, 7284), (24, 7302), (29, 7374), (35, 7431), (41, 7749), (42, 7800), (43, 7875), (44, 7902), (45, 7911), (46, 7968), (47, 8166), (49, 8208),

Gene: Simpliphy_12 Start: 5914, Stop: 7005, Start Num: 4
Candidate Starts for Simpliphy_12:
(Start: 4 @5914 has 134 MA's), (7, 5995), (8, 6013), (11, 6097), (12, 6103), (13, 6115), (15, 6154), (16, 6157), (21, 6208), (23, 6247), (24, 6265), (33, 6433), (35, 6487), (46, 6730), (47, 6928), (48, 6931), (49, 6970),

Gene: SirDuracell_11 Start: 5412, Stop: 6506, Start Num: 4
Candidate Starts for SirDuracell_11:
(Start: 4 @5412 has 134 MA's), (7, 5493), (8, 5511), (11, 5595), (12, 5601), (13, 5613), (15, 5652), (16, 5655), (21, 5706), (23, 5745), (24, 5763), (33, 5931), (35, 5985), (46, 6231), (47, 6429), (48, 6432), (49, 6471),

Gene: SophKB_12 Start: 6745, Stop: 7839, Start Num: 4
Candidate Starts for SophKB_12:
(Start: 4 @6745 has 134 MA's), (7, 6826), (8, 6844), (11, 6928), (12, 6934), (13, 6946), (15, 6985), (16, 6988), (21, 7039), (23, 7078), (24, 7096), (33, 7264), (35, 7318), (46, 7564), (47, 7762), (48, 7765), (49, 7804),

Gene: Sotrice96_12 Start: 6701, Stop: 7795, Start Num: 4
Candidate Starts for Sotrice96_12:
(Start: 4 @6701 has 134 MA's), (7, 6782), (8, 6800), (11, 6884), (12, 6890), (13, 6902), (15, 6941), (16, 6944), (21, 6995), (23, 7034), (24, 7052), (33, 7220), (35, 7274), (46, 7520), (47, 7718), (48, 7721), (49, 7760),

Gene: Stank_13 Start: 5958, Stop: 7250, Start Num: 4
Candidate Starts for Stank_13:
(Start: 4 @5958 has 134 MA's), (7, 6039), (8, 6057), (11, 6141), (12, 6147), (13, 6159), (15, 6198), (16, 6201), (21, 6252), (23, 6291), (24, 6309), (29, 6381), (41, 6756), (42, 6807), (43, 6882), (44, 6909), (45, 6918), (46, 6975), (47, 7173), (48, 7176), (49, 7215),

Gene: Stark_12 Start: 5726, Stop: 7018, Start Num: 4
Candidate Starts for Stark_12:
(Start: 4 @5726 has 134 MA's), (7, 5807), (8, 5825), (11, 5909), (12, 5915), (13, 5927), (15, 5966), (16, 5969), (21, 6020), (23, 6059), (24, 6077), (29, 6149), (41, 6524), (42, 6575), (43, 6650), (44, 6677), (45, 6686), (46, 6743), (47, 6941), (48, 6944), (49, 6983),

Gene: StellaBean_12 Start: 6745, Stop: 7839, Start Num: 4

Candidate Starts for StellaBean_12:
(Start: 4 @6745 has 134 MA's), (7, 6826), (8, 6844), (11, 6928), (12, 6934), (13, 6946), (15, 6985), (16, 6988), (21, 7039), (23, 7078), (24, 7096), (33, 7264), (35, 7318), (46, 7564), (47, 7762), (48, 7765), (49, 7804),

Gene: StolenFromERC_13 Start: 5958, Stop: 7250, Start Num: 4
Candidate Starts for StolenFromERC_13:
(Start: 4 @5958 has 134 MA's), (7, 6039), (8, 6057), (11, 6141), (12, 6147), (13, 6159), (15, 6198), (16, 6201), (21, 6252), (23, 6291), (24, 6309), (29, 6381), (35, 6438), (41, 6756), (42, 6807), (43, 6882), (44, 6909), (45, 6918), (46, 6975), (47, 7173), (48, 7176), (49, 7215),

Gene: StormChicken_12 Start: 6627, Stop: 8012, Start Num: 4
Candidate Starts for StormChicken_12:
(Start: 4 @6627 has 134 MA's), (7, 6708), (8, 6726), (11, 6810), (12, 6816), (13, 6828), (15, 6867), (16, 6870), (21, 6921), (23, 6960), (24, 6978), (33, 7146), (35, 7200), (41, 7518), (42, 7569), (43, 7644), (44, 7671), (45, 7680), (46, 7737), (47, 7935), (48, 7938), (49, 7977),

Gene: TBrady12_13 Start: 5958, Stop: 7247, Start Num: 4
Candidate Starts for TBrady12_13:
(Start: 4 @5958 has 134 MA's), (7, 6039), (8, 6057), (11, 6141), (12, 6147), (13, 6159), (15, 6198), (16, 6201), (21, 6252), (23, 6291), (24, 6309), (29, 6381), (35, 6438), (41, 6753), (42, 6804), (43, 6879), (44, 6906), (45, 6915), (46, 6972), (47, 7170), (48, 7173), (49, 7212),

Gene: Tarkin_13 Start: 6954, Stop: 8246, Start Num: 4
Candidate Starts for Tarkin_13:
(Start: 4 @6954 has 134 MA's), (7, 7035), (8, 7053), (11, 7137), (12, 7143), (13, 7155), (15, 7194), (16, 7197), (21, 7248), (23, 7287), (24, 7305), (29, 7377), (41, 7752), (42, 7803), (43, 7878), (44, 7905), (45, 7914), (46, 7971), (47, 8169), (48, 8172), (49, 8211),

Gene: TeamEdward_12 Start: 6624, Stop: 8009, Start Num: 4
Candidate Starts for TeamEdward_12:
(Start: 4 @6624 has 134 MA's), (7, 6705), (8, 6723), (11, 6807), (12, 6813), (13, 6825), (15, 6864), (16, 6867), (21, 6918), (23, 6957), (24, 6975), (33, 7143), (35, 7197), (41, 7515), (42, 7566), (43, 7641), (44, 7668), (45, 7677), (46, 7734), (47, 7932), (48, 7935), (49, 7974),

Gene: TeardropMSU_11 Start: 6745, Stop: 7746, Start Num: 4
Candidate Starts for TeardropMSU_11:
(Start: 4 @6745 has 134 MA's), (7, 6826), (8, 6844), (11, 6928), (12, 6934), (13, 6946), (15, 6985), (16, 6988), (21, 7039), (23, 7078), (24, 7096), (46, 7471), (47, 7669), (48, 7672), (49, 7711),

Gene: Teaspoon_11 Start: 5452, Stop: 6744, Start Num: 4
Candidate Starts for Teaspoon_11:
(Start: 4 @5452 has 134 MA's), (7, 5533), (8, 5551), (11, 5635), (12, 5641), (13, 5653), (15, 5692), (16, 5695), (21, 5746), (23, 5785), (24, 5803), (29, 5875), (35, 5932), (41, 6250), (42, 6301), (43, 6376), (44, 6403), (45, 6412), (46, 6469), (47, 6667), (48, 6670), (49, 6709),

Gene: Terminus_11 Start: 6346, Stop: 7347, Start Num: 4
Candidate Starts for Terminus_11:
(Start: 4 @6346 has 134 MA's), (7, 6427), (8, 6445), (11, 6529), (12, 6535), (13, 6547), (15, 6586), (16, 6589), (21, 6640), (23, 6679), (24, 6697), (29, 6769), (35, 6826), (46, 7072), (47, 7270), (48, 7273), (49, 7312),

Gene: Thimble_12 Start: 5705, Stop: 6796, Start Num: 4

Candidate Starts for Thimble_12:
(Start: 4 @5705 has 134 MA's), (7, 5786), (8, 5804), (11, 5888), (12, 5894), (13, 5906), (15, 5945), (16, 5948), (21, 5999), (23, 6038), (24, 6056), (33, 6224), (35, 6278), (46, 6521), (47, 6719), (48, 6722), (49, 6761),

Gene: Thresher_12 Start: 6716, Stop: 8008, Start Num: 4
Candidate Starts for Thresher_12:
(Start: 4 @6716 has 134 MA's), (7, 6797), (8, 6815), (11, 6899), (12, 6905), (13, 6917), (15, 6956), (16, 6959), (21, 7010), (23, 7049), (24, 7067), (29, 7139), (41, 7514), (42, 7565), (43, 7640), (44, 7667), (45, 7676), (46, 7733), (47, 7931), (48, 7934), (49, 7973),

Gene: Tomaszewski_11 Start: 6346, Stop: 7440, Start Num: 4
Candidate Starts for Tomaszewski_11:
(Start: 4 @6346 has 134 MA's), (7, 6427), (8, 6445), (11, 6529), (12, 6535), (13, 6547), (15, 6586), (16, 6589), (21, 6640), (23, 6679), (24, 6697), (33, 6865), (35, 6919), (46, 7165), (47, 7363), (48, 7366), (49, 7405),

Gene: Toto_12 Start: 6745, Stop: 7839, Start Num: 4
Candidate Starts for Toto_12:
(Start: 4 @6745 has 134 MA's), (7, 6826), (8, 6844), (11, 6928), (12, 6934), (13, 6946), (15, 6985), (16, 6988), (21, 7039), (23, 7078), (24, 7096), (33, 7264), (35, 7318), (46, 7564), (47, 7762), (48, 7765), (49, 7804),

Gene: Traaww1_10 Start: 6391, Stop: 7485, Start Num: 4
Candidate Starts for Traaww1_10:
(Start: 4 @6391 has 134 MA's), (7, 6472), (8, 6490), (11, 6574), (12, 6580), (13, 6592), (15, 6631), (16, 6634), (21, 6685), (23, 6724), (24, 6742), (33, 6910), (35, 6964), (46, 7210), (47, 7408), (48, 7411), (49, 7450),

Gene: Tuco_12 Start: 6745, Stop: 7839, Start Num: 4
Candidate Starts for Tuco_12:
(Start: 4 @6745 has 134 MA's), (7, 6826), (8, 6844), (11, 6928), (12, 6934), (13, 6946), (15, 6985), (16, 6988), (21, 7039), (23, 7078), (24, 7096), (33, 7264), (35, 7318), (46, 7564), (47, 7762), (48, 7765), (49, 7804),

Gene: Ukulele_11 Start: 5726, Stop: 7018, Start Num: 4
Candidate Starts for Ukulele_11:
(Start: 4 @5726 has 134 MA's), (7, 5807), (8, 5825), (11, 5909), (12, 5915), (13, 5927), (15, 5966), (16, 5969), (21, 6020), (23, 6059), (24, 6077), (29, 6149), (35, 6206), (41, 6524), (42, 6575), (43, 6650), (44, 6677), (45, 6686), (46, 6743), (47, 6941), (48, 6944), (49, 6983),

Gene: Wiggin_13 Start: 5958, Stop: 7250, Start Num: 4
Candidate Starts for Wiggin_13:
(Start: 4 @5958 has 134 MA's), (7, 6039), (8, 6057), (11, 6141), (12, 6147), (13, 6159), (15, 6198), (16, 6201), (21, 6252), (23, 6291), (24, 6309), (29, 6381), (41, 6756), (42, 6807), (43, 6882), (44, 6909), (45, 6918), (46, 6975), (47, 7173), (48, 7176), (49, 7215),

Gene: Willez_11 Start: 6346, Stop: 7347, Start Num: 4
Candidate Starts for Willez_11:
(Start: 4 @6346 has 134 MA's), (7, 6427), (8, 6445), (11, 6529), (12, 6535), (13, 6547), (15, 6586), (16, 6589), (21, 6640), (23, 6679), (24, 6697), (29, 6769), (35, 6826), (46, 7072), (47, 7270), (48, 7273), (49, 7312),

Gene: Xandras_13 Start: 5958, Stop: 7250, Start Num: 4
Candidate Starts for Xandras_13:
(Start: 4 @5958 has 134 MA's), (7, 6039), (8, 6057), (11, 6141), (12, 6147), (13, 6159), (15, 6198), (16, 6201), (21, 6252), (23, 6291), (24, 6309), (29, 6381), (41, 6756), (42, 6807), (43, 6882), (44, 6909), (45, 6918), (46, 6975), (47, 7173), (48, 7176), (49, 7215),

Gene: YassJohnny_12 Start: 6745, Stop: 7839, Start Num: 4
Candidate Starts for YassJohnny_12:
(Start: 4 @6745 has 134 MA's), (7, 6826), (8, 6844), (11, 6928), (12, 6934), (13, 6946), (15, 6985), (16, 6988), (21, 7039), (23, 7078), (24, 7096), (33, 7264), (35, 7318), (46, 7564), (47, 7762), (48, 7765), (49, 7804),

Gene: Youngblood_11 Start: 6337, Stop: 7428, Start Num: 4
Candidate Starts for Youngblood_11:
(Start: 4 @6337 has 134 MA's), (7, 6418), (8, 6436), (11, 6520), (12, 6526), (13, 6538), (15, 6577), (16, 6580), (21, 6631), (23, 6670), (24, 6688), (33, 6856), (35, 6910), (46, 7153), (47, 7351), (48, 7354), (49, 7393),

Gene: xkcd_12 Start: 6498, Stop: 7499, Start Num: 4
Candidate Starts for xkcd_12:
(Start: 4 @6498 has 134 MA's), (7, 6579), (8, 6597), (11, 6681), (12, 6687), (13, 6699), (15, 6738), (16, 6741), (21, 6792), (23, 6831), (24, 6849), (29, 6921), (46, 7224), (47, 7422), (48, 7425), (49, 7464),