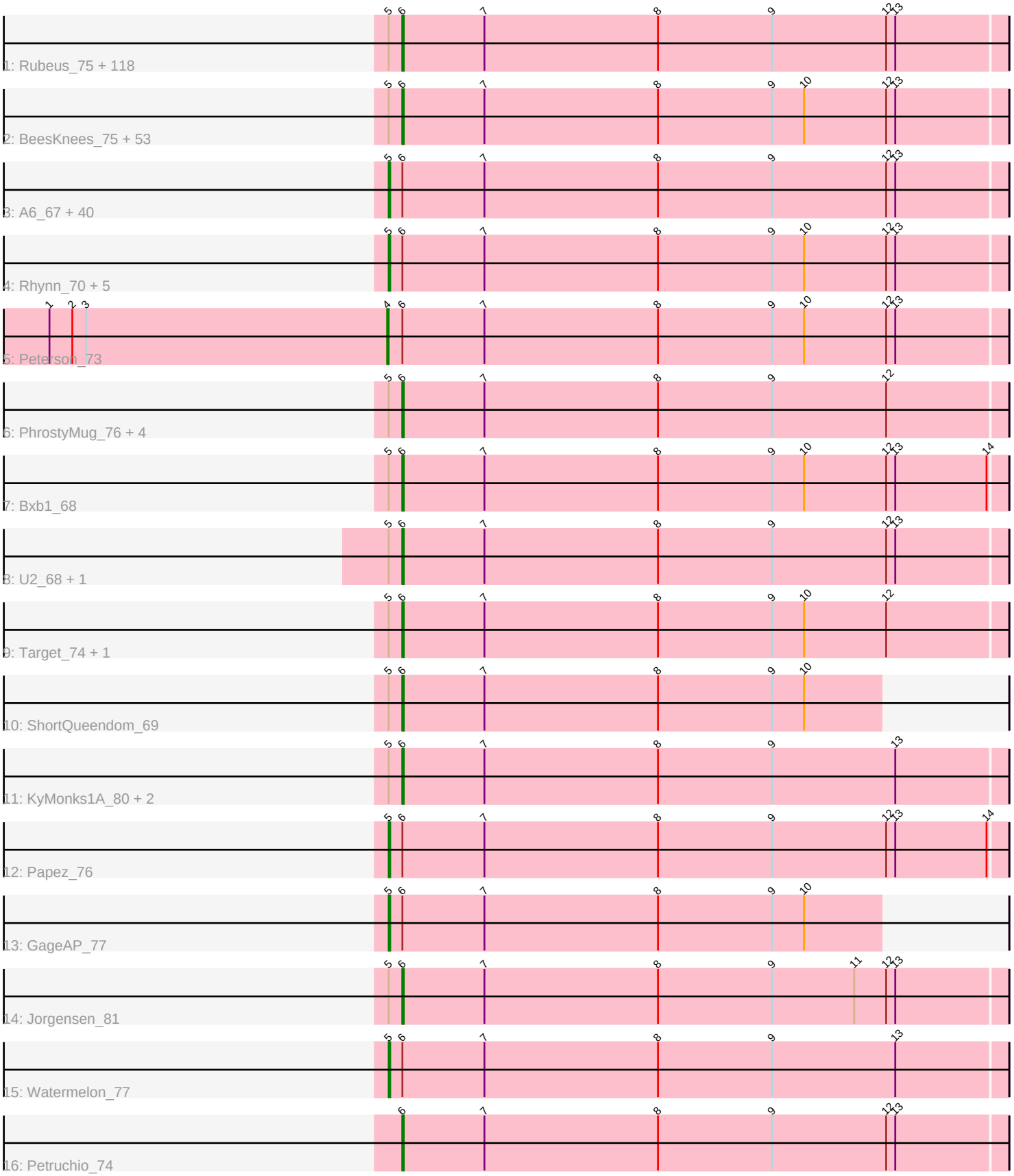
Pham 343608


1: Rubeus_75 + 118
2: BeesKnees_75 + 53
3: A6_67 + 40
4: Rhynn_70 + 5
5: Peterson_73
6: PhrostyMug_76 + 4
7: Bxb1_68
8: U2_68 + 1
9: Target_74 + 1
10: ShortQueendom_69
11: KyMonks1A_80 + 2
12: Papez_76
13: GageAP_77
14: Jorgensen_81
15: Watermelon_77
16: Petruchio_74

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 343608 Report

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

Pham number 343608 has 240 members, 13 are drafts.

Phages represented in each track:
• Track 1 : Rubeus_75, Alsfro_81, Tote_70, PattyP_74, Francis47_76, Gyzlar_67, Rufus_77, Traft412_74, Lockley_71, Ciao_71, Bircsak_75, Blackflame_70, Dreamboat_74, JackSparrow_75, Blesser_68, Seanderson_74, Lamina13_78, Pari_79, Hermia_69, MilleFeuille_74, Ohno789_77, Doom_67, Adahisdi_70, Ashballer_76, Barriga_81, Slagathor_75, Sibs6_74, TwoPeat_74, ChristmasHams_65, Gwendoluna_78, MPlant7149_74, PSullivan_72, Squee_75, NEHalo_70, Arlo_74, GMonster_72, Alvin_72, MrGordo_75, CatBus_66, Magnar_70, Trouble_74, Abbyshoes_74, HarryOW_75, StrongArm_70, AFIS_71, Dussy_73, Gompeii16_75, Turj99_70, Petp2012_75, Noxious_70, STLscum_80, Big3_75, Fascinus_70, Raid_71, Zeeculate_70, KikiBouba_70, BigMau_77, Museum_74, Sanya_73, Rajelicia_76, Hami1_67, Michley_75, Sorpresa_73, Zeuska_76, PascalRango_72, Bexan_69, LilBib_71, Licorice_75, Sunshine924_75, Corvo_76, Aldrich_68, GroundGoblin_68, SkiPole_83, Chanagan_71, Gandalf20_73, Lopton_73, SpikeBT_71, Ichabod_77, Crispicous1_69, Pita2_75, Agaliana_72, CactusRose_77, Snazzy_75, Tasp14_73, Bigchungi_75, Magnito_73, IgnatiusPatJac_74, Pepe_68, Paphu_69, Parliament_75, RidgeCB_71, Ruotula_78, Bob3_75, Sandaddy_72, Nhonho_70, JuliaChild_75, SwissCheese_78, Jerm2_76, Pippin_75, Applejack_73, Molly_74, EnzoK_75, Niza_74, Zephyr_76, PherrisBueller_73, Marge_71, Jasper_73, Abrogate_710, Smairt_78, Inyanga_66, Makemake_77, ConceptII_79, DD5_72, Rohr_77, Perseus_74, BaconJack_76, Bones_70, DirtDevil_68, Monet_78
• Track 2 : BeesKnees_75, Marco3_77, Wilkins_71, Paraselene_72, Topgun_70, BarrowTuph_77, Dexes_75, PinkPlastic_70, BPBiebs31_79, Smeagol_77, Whitspit_67, Briton15_77, JC27_75, Sumter_71, Levia_68, Forsytheast_76, Ajay_71, Treddle_76, Homines_62, Marcell_67, Wheeler_78, Moose_76, GrecoEtereo_78, Pelly_77, Blue_71, Acme_78, Ringer_74, Solon_70, Lesedi_71, Kugel_76, Edtherson_73, Eyeball_73, Mryolo_69, Marsha_74, StewieG_69, Thor_78, ThelониousMonk_76, Switzer_73, QTRlifeCrisis_73, MaryBeth_72, Kykar_74, Greg_77, KSSJEB_71, Graduation_77, HanShotFirst_72, CartmannCramer_70, Fajezeel_77, Teodoridan_71, BillKnuckles_68, SarFire_78, Buttons_71, PowerRanger_70, Marchy_66, PhineBark_70
• Track 3 : A6_67, McGuire_74, BK1_67, Rutherferd_76, Bruns_77, DreamCatcher_78, PacerPaul_79, Dulcie_75, Maroc7_76, BigPaolini_72, Phlippers_72, Fenn_77, Burton_75, Dynamix_74, Beatrix_71, Hope4ever_75, Atkinbua_80, BluSpix_72, Anglerfish_76, ProMouse_77, Pinto_74, Swole_75, Killigrew_71, McSinger_73, HermioneGrange_78, Euphoria_75, Fushigi_68, Mkhuseli_71, Kanely_76, Tripl3t_77, Bigfoot_69, Iqorha_66, Espresso_68, Naira_76, Aeneas_79, Arcanine_78, Kenmech_76, Bethlehem_77, KBG_72, Seabiscuit_74,

Altman_77
• Track 4 : Rhynn_70, Sagefire_71, Puppet_70, Manatee_72, MetalQZJ_71, DrFeelGood_70
• Track 5 : Peterson_73
• Track 6 : PhrostyMug_76, Oogway_73, Mule_73, Norz_70, Carlyle_75
• Track 7 : Bxb1_68
• Track 8 : U2_68, ILeeKay_72
• Track 9 : Target_74, Violet_69
• Track 10 : ShortQueendom_69
• Track 11 : KyMonks1A_80, Scowl_75, Nerujay_78
• Track 12 : Papez_76
• Track 13 : GageAP_77
• Track 14 : Jorgensen_81
• Track 15 : Watermelon_77
• Track 16 : Petruchio_74

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

The start number called the most often in the published annotations is 6, it was called in 179 of the 227 non-draft genes in the pham.

Genes that call this "Most Annotated" start:
• AFIS_71, Abbyshoes_74, Abrogate_710, Acme_78, Adahisdi_70, Agaliana_72, Ajay_71, Aldrich_68, Alsfro_81, Alvin_72, Applejack_73, Arlo_74, Ashballer_76, BPBiebs31_79, BaconJack_76, Barriga_81, BarrowTuph_77, BeesKnees_75, Bexan_69, Big3_75, BigMau_77, Bigchungi_75, BillKnuckles_68, Bircsak_75, Blackflame_70, Blesser_68, Blue_71, Bob3_75, Bones_70, Briton15_77, Buttons_71, Bxb1_68, CactusRose_77, Carlyle_75, CartmannCramer_70, CatBus_66, Chanagan_71, ChristmasHams_65, Ciao_71, ConceptII_79, Corvo_76, Crispicous1_69, DD5_72, Dexes_75, DirtDevil_68, Doom_67, Dreamboat_74, Dussy_73, Edtherson_73, EnzoK_75, Eyeball_73, Fajezeel_77, Fascinus_70, Forsytheast_76, Francis47_76, GMonster_72, Gandalf20_73, Gompeii16_75, Graduation_77, GrecoEtereo_78, Greg_77, GroundGoblin_68, Gwendoluna_78, Gyzlar_67, Hami1_67, HanShotFirst_72, HarryOW_75, Hermia_69, Homines_62, ILeeKay_72, Ichabod_77, IgnatiusPatJac_74, Inyanga_66, JC27_75, JackSparrow_75, Jasper_73, Jerm2_76, Jorgensen_81, JuliaChild_75, KSSJEB_71, KikiBouba_70, Kugel_76, KyMonks1A_80, Kykar_74, Lamina13_78, Lesedi_71, Levia_68, Licorice_75, LilBib_71, Lockley_71, Lopton_73, MPlant7149_74, Magnar_70, Magnito_73, Makemake_77, Marcell_67, Marchy_66, Marco3_77, Marge_71, Marsha_74, MaryBeth_72, Michley_75, MilleFeuille_74, Molly_74, Monet_78, Moose_76, MrGordo_75, Mryolo_69, Mule_73, Museum_74, NEHalo_70, Nerujay_78, Nhonho_70, Niza_74, Norz_70, Noxious_70, Ohno789_77, Oogway_73, PSullivan_72, Paphu_69, Paraselene_72, Pari_79, Parliament_75, PascalRango_72, PattyP_74, Pelly_77, Pepe_68, Perseus_74, Petp2012_75, Petruchio_74, PherrisBueller_73, PhineBark_70, PhrostyMug_76, PinkPlastic_70, Pippin_75, Pita2_75, PowerRanger_70, QTRlifeCrisis_73, Raid_71, Rajelicia_76, RidgeCB_71, Ringer_74, Rohr_77, Rubeus_75, Rufus_77, Ruotula_78, STLscum_80, Sandaddy_72, Sanya_73, SarFire_78, Scowl_75, Seanderson_74, ShortQueendom_69, Sibs6_74, SkiPole_83, Slagathor_75, Smairt_78, Smeagol_77, Snazzy_75, Solon_70, Sorpresa_73, SpikeBT_71, Squee_75, StewieG_69,

StrongArm_70, Sumter_71, Sunshine924_75, SwissCheese_78, Switzer_73, Target_74, Tasp14_73, Teodoridan_71, TheloniousMonk_76, Thor_78, Topgun_70, Tote_70, Traft412_74, Treddle_76, Trouble_74, Turj99_70, TwoPeat_74, U2_68, Violet_69, Wheeler_78, Whitspit_67, Wilkins_71, Zeeculate_70, Zephyr_76, Zeuska_76,

Genes that have the "Most Annotated" start but do not call it:
• A6_67, Aeneas_79, Altman_77, Anglerfish_76, Arcanine_78, Atkinbua_80, BK1_67, Beatrix_71, Bethlehem_77, BigPaolini_72, Bigfoot_69, BluSpix_72, Bruns_77, Burton_75, DrFeelGood_70, DreamCatcher_78, Dulcie_75, Dynamix_74, Espresso_68, Euphoria_75, Fenn_77, Fushigi_68, GageAP_77, HermioneGrange_78, Hope4ever_75, Iqorha_66, KBG_72, Kanely_76, Kenmech_76, Killigrew_71, Manatee_72, Maroc7_76, McGuire_74, McSinger_73, MetalQZJ_71, Mkhuseli_71, Naira_76, PacerPaul_79, Papez_76, Peterson_73, Phlippers_72, Pinto_74, ProMouse_77, Puppet_70, Rhynn_70, Rutherferd_76, Sagefire_71, Seabiscuit_74, Swole_75, Tripl3t_77, Watermelon_77,

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

Summary by start number:

Start 4:
• Found in 1 of 240 (0.4%) of genes in pham
• Manual Annotations of this start: 1 of 227
• Called 100.0% of time when present
• Phage (with cluster) where this start called: Peterson_73 (A1),

Start 5:
• Found in 238 of 240 (99.2%) of genes in pham
• Manual Annotations of this start: 47 of 227
• Called 21.0% of time when present
• Phage (with cluster) where this start called: A6_67 (A1), Aeneas_79 (A1), Altman_77 (A1), Anglerfish_76 (A1), Arcanine_78 (A1), Atkinbua_80 (A1), BK1_67 (A1), Beatrix_71 (A1), Bethlehem_77 (A1), BigPaolini_72 (A1), Bigfoot_69 (A1), BluSpix_72 (A1), Bruns_77 (A1), Burton_75 (A1), DrFeelGood_70 (A1), DreamCatcher_78 (A1), Dulcie_75 (A1), Dynamix_74 (A1), Espresso_68 (A1), Euphoria_75 (A1), Fenn_77 (A1), Fushigi_68 (A1), GageAP_77 (A1), HermioneGrange_78 (A1), Hope4ever_75 (A1), Iqorha_66 (A1), KBG_72 (A1), Kanely_76 (A1), Kenmech_76 (A1), Killigrew_71 (A1), Manatee_72 (A1), Maroc7_76 (A1), McGuire_74 (A1), McSinger_73 (A1), MetalQZJ_71 (A1), Mkhuseli_71 (A1), Naira_76 (A1), PacerPaul_79 (A1), Papez_76 (A1), Phlippers_72 (A1), Pinto_74 (A1), ProMouse_77 (A1), Puppet_70 (A1), Rhynn_70 (A1), Rutherferd_76 (A1), Sagefire_71 (A1), Seabiscuit_74 (A1), Swole_75 (A1), Tripl3t_77 (A1), Watermelon_77 (A1),

Start 6:
• Found in 240 of 240 (100.0%) of genes in pham
• Manual Annotations of this start: 179 of 227
• Called 78.8% of time when present
• Phage (with cluster) where this start called: AFIS_71 (A1), Abbyshoes_74 (A1), Abrogate_710 (A1), Acme_78 (A1), Adahisdi_70 (A1), Agaliana_72 (A1), Ajay_71 (A1), Aldrich_68 (A1), Alsfro_81 (A1), Alvin_72 (A1), Applejack_73 (A1), Arlo_74 (A1), Ashballer_76 (A1), BPBiebs31_79 (A1), BaconJack_76 (A1), Barriga_81 (A1),

BarrowTuph_77 (A1), BeesKnees_75 (A1), Bexan_69 (A1), Big3_75 (A1), BigMau_77 (A1), Bigchungi_75 (A1), BillKnuckles_68 (A1), Bircsak_75 (A1), Blackflame_70 (A1), Blesser_68 (A1), Blue_71 (A1), Bob3_75 (A1), Bones_70 (A1), Briton15_77 (A1), Buttons_71 (A1), Bxb1_68 (A1), CactusRose_77 (A1), Carlyle_75 (A1), CartmannCramer_70 (A1), CatBus_66 (A1), Chanagan_71 (A1), ChristmasHams_65 (A1), Ciao_71 (A1), ConceptII_79 (A1), Corvo_76 (A1), Crispicous1_69 (A1), DD5_72 (A1), Dexes_75 (A1), DirtDevil_68 (A1), Doom_67 (A1), Dreamboat_74 (A1), Dussy_73 (A1), Edtherson_73 (A1), EnzoK_75 (A1), Eyeball_73 (A1), Fajezeel_77 (A1), Fascinus_70 (A1), Forsytheast_76 (A1), Francis47_76 (A1), GMonster_72 (A1), Gandalf20_73 (A1), Gompeii16_75 (A1), Graduation_77 (A1), GrecoEtereo_78 (A1), Greg_77 (A1), GroundGoblin_68 (A1), Gwendoluna_78 (A1), Gyzlar_67 (A1), Hami1_67 (A1), HanShotFirst_72 (A1), HarryOW_75 (A1), Hermia_69 (A1), Homines_62 (A1), ILeeKay_72 (A1), Ichabod_77 (A1), IgnatiusPatJac_74 (A1), Inyanga_66 (A1), JC27_75 (A1), JackSparrow_75 (A1), Jasper_73 (A1), Jerm2_76 (A1), Jorgensen_81 (A1), JuliaChild_75 (A1), KSSJEB_71 (A1), KikiBouba_70 (A1), Kugel_76 (A1), KyMonks1A_80 (A1), Kykar_74 (A1), Lamina13_78 (A1), Lesedi_71 (A1), Levia_68 (A1), Licorice_75 (A1), LilBib_71 (A1), Lockley_71 (A1), Lopton_73 (A1), MPlant7149_74 (A1), Magnar_70 (A1), Magnito_73 (A1), Makemake_77 (A1), Marcell_67 (A1), Marchy_66 (A1), Marco3_77 (A1), Marge_71 (A1), Marsha_74 (A1), MaryBeth_72 (A1), Michley_75 (A1), MilleFeuille_74 (A1), Molly_74 (A1), Monet_78 (A1), Moose_76 (A1), MrGordo_75 (A1), Mryolo_69 (A1), Mule_73 (A1), Museum_74 (A1), NEHalo_70 (A1), Nerujay_78 (A1), Nhonho_70 (A1), Niza_74 (A1), Norz_70 (A1), Noxious_70 (A1), Ohno789_77 (A1), Oogway_73 (A1), PSullivan_72 (A1), Paphu_69 (A1), Paraselene_72 (A1), Pari_79 (A1), Parliament_75 (A1), PascalRango_72 (A1), PattyP_74 (A1), Pelly_77 (A1), Pepe_68 (A1), Perseus_74 (A1), Petp2012_75 (A1), Petruchio_74 (A1), PherrisBueller_73 (A1), PhineBark_70 (A1), PhrostyMug_76 (A1), PinkPlastic_70 (A1), Pippin_75 (A1), Pita2_75 (A1), PowerRanger_70 (A1), QTRlifeCrisis_73 (A1), Raid_71 (A1), Rajelicia_76 (A1), RidgeCB_71 (A1), Ringer_74 (A1), Rohr_77 (A1), Rubeus_75 (A1), Rufus_77 (A1), Ruotula_78 (A1), STLscum_80 (A1), Sandaddy_72 (A1), Sanya_73 (A1), SarFire_78 (A1), Scowl_75 (A1), Seanderson_74 (A1), ShortQueendom_69 (A1), Sibs6_74 (A1), SkiPole_83 (A1), Slagathor_75 (A1), Smairt_78 (A1), Smeagol_77 (A1), Snazzy_75 (A1), Solon_70 (A1), Sorpresa_73 (A1), SpikeBT_71 (A1), Squee_75 (A1), StewieG_69 (A1), StrongArm_70 (A1), Sumter_71 (A1), Sunshine924_75 (A1), SwissCheese_78 (A1), Switzer_73 (A1), Target_74 (A1), Tasp14_73 (A1), Teodoridan_71 (A1), TheloniousMonk_76 (A1), Thor_78 (A1), Topgun_70 (A1), Tote_70 (A1), Traft412_74 (A1), Treddle_76 (A1), Trouble_74 (A1), Turj99_70 (A1), TwoPeat_74 (A1), U2_68 (A1), Violet_69 (A1), Wheeler_78 (A1), Whitspit_67 (A1), Wilkins_71 (A1), Zeeculate_70 (A1), Zephyr_76 (A1), Zeuska_76 (A1),

Summary by clusters:

There is one cluster represented in this pham: A1

Info for manual annotations of cluster A1:
•Start number 4 was manually annotated 1 time for cluster A1.
•Start number 5 was manually annotated 47 times for cluster A1.
•Start number 6 was manually annotated 179 times for cluster A1.

Gene Information:

Gene: A6_67 Start: 43399, Stop: 42995, Start Num: 5
Candidate Starts for A6_67:
(Start: 5 @43399 has 47 MA's), (Start: 6 @43390 has 179 MA's), (7, 43336), (8, 43222), (9, 43147), (12, 43072), (13, 43066),

Gene: AFIS_71 Start: 46400, Stop: 46005, Start Num: 6
Candidate Starts for AFIS_71:
(Start: 5 @46409 has 47 MA's), (Start: 6 @46400 has 179 MA's), (7, 46346), (8, 46232), (9, 46157), (12, 46082), (13, 46076),

Gene: Abbyshoes_74 Start: 45653, Stop: 45258, Start Num: 6
Candidate Starts for Abbyshoes_74:
(Start: 5 @45662 has 47 MA's), (Start: 6 @45653 has 179 MA's), (7, 45599), (8, 45485), (9, 45410), (12, 45335), (13, 45329),

Gene: Abrogate_710 Start: 46267, Stop: 45872, Start Num: 6
Candidate Starts for Abrogate_710:
(Start: 5 @46276 has 47 MA's), (Start: 6 @46267 has 179 MA's), (7, 46213), (8, 46099), (9, 46024), (12, 45949), (13, 45943),

Gene: Acme_78 Start: 47724, Stop: 47329, Start Num: 6
Candidate Starts for Acme_78:
(Start: 5 @47733 has 47 MA's), (Start: 6 @47724 has 179 MA's), (7, 47670), (8, 47556), (9, 47481), (10, 47460), (12, 47406), (13, 47400),

Gene: Adahisdi_70 Start: 45723, Stop: 45328, Start Num: 6
Candidate Starts for Adahisdi_70:
(Start: 5 @45732 has 47 MA's), (Start: 6 @45723 has 179 MA's), (7, 45669), (8, 45555), (9, 45480), (12, 45405), (13, 45399),

Gene: Aeneas_79 Start: 48021, Stop: 47617, Start Num: 5
Candidate Starts for Aeneas_79:
(Start: 5 @48021 has 47 MA's), (Start: 6 @48012 has 179 MA's), (7, 47958), (8, 47844), (9, 47769), (12, 47694), (13, 47688),

Gene: Agaliana_72 Start: 44541, Stop: 44146, Start Num: 6
Candidate Starts for Agaliana_72:
(Start: 5 @44550 has 47 MA's), (Start: 6 @44541 has 179 MA's), (7, 44487), (8, 44373), (9, 44298), (12, 44223), (13, 44217),

Gene: Ajay_71 Start: 44924, Stop: 44529, Start Num: 6
Candidate Starts for Ajay_71:
(Start: 5 @44933 has 47 MA's), (Start: 6 @44924 has 179 MA's), (7, 44870), (8, 44756), (9, 44681), (10, 44660), (12, 44606), (13, 44600),

Gene: Aldrich_68 Start: 44225, Stop: 43830, Start Num: 6
Candidate Starts for Aldrich_68:
(Start: 5 @44234 has 47 MA's), (Start: 6 @44225 has 179 MA's), (7, 44171), (8, 44057), (9, 43982), (12, 43907), (13, 43901),

Gene: Alsfro_81 Start: 46287, Stop: 45892, Start Num: 6
Candidate Starts for Alsfro_81:

(Start: 5 @46296 has 47 MA's), (Start: 6 @46287 has 179 MA's), (7, 46233), (8, 46119), (9, 46044), (12, 45969), (13, 45963),

Gene: Altman_77 Start: 46741, Stop: 46337, Start Num: 5
Candidate Starts for Altman_77:
(Start: 5 @46741 has 47 MA's), (Start: 6 @46732 has 179 MA's), (7, 46678), (8, 46564), (9, 46489), (12, 46414), (13, 46408),

Gene: Alvin_72 Start: 45144, Stop: 44749, Start Num: 6
Candidate Starts for Alvin_72:
(Start: 5 @45153 has 47 MA's), (Start: 6 @45144 has 179 MA's), (7, 45090), (8, 44976), (9, 44901), (12, 44826), (13, 44820),

Gene: Anglerfish_76 Start: 47064, Stop: 46660, Start Num: 5
Candidate Starts for Anglerfish_76:
(Start: 5 @47064 has 47 MA's), (Start: 6 @47055 has 179 MA's), (7, 47001), (8, 46887), (9, 46812), (12, 46737), (13, 46731),

Gene: Applejack_73 Start: 43905, Stop: 43510, Start Num: 6
Candidate Starts for Applejack_73:
(Start: 5 @43914 has 47 MA's), (Start: 6 @43905 has 179 MA's), (7, 43851), (8, 43737), (9, 43662), (12, 43587), (13, 43581),

Gene: Arcanine_78 Start: 47666, Stop: 47262, Start Num: 5
Candidate Starts for Arcanine_78:
(Start: 5 @47666 has 47 MA's), (Start: 6 @47657 has 179 MA's), (7, 47603), (8, 47489), (9, 47414), (12, 47339), (13, 47333),

Gene: Arlo_74 Start: 46447, Stop: 46052, Start Num: 6
Candidate Starts for Arlo_74:
(Start: 5 @46456 has 47 MA's), (Start: 6 @46447 has 179 MA's), (7, 46393), (8, 46279), (9, 46204), (12, 46129), (13, 46123),

Gene: Ashballer_76 Start: 46500, Stop: 46105, Start Num: 6
Candidate Starts for Ashballer_76:
(Start: 5 @46509 has 47 MA's), (Start: 6 @46500 has 179 MA's), (7, 46446), (8, 46332), (9, 46257), (12, 46182), (13, 46176),

Gene: Atkinbua_80 Start: 47068, Stop: 46664, Start Num: 5
Candidate Starts for Atkinbua_80:
(Start: 5 @47068 has 47 MA's), (Start: 6 @47059 has 179 MA's), (7, 47005), (8, 46891), (9, 46816), (12, 46741), (13, 46735),

Gene: BK1_67 Start: 43399, Stop: 42995, Start Num: 5
Candidate Starts for BK1_67:
(Start: 5 @43399 has 47 MA's), (Start: 6 @43390 has 179 MA's), (7, 43336), (8, 43222), (9, 43147), (12, 43072), (13, 43066),

Gene: BPBiebs31_79 Start: 47559, Stop: 47164, Start Num: 6
Candidate Starts for BPBiebs31_79:
(Start: 5 @47568 has 47 MA's), (Start: 6 @47559 has 179 MA's), (7, 47505), (8, 47391), (9, 47316), (10, 47295), (12, 47241), (13, 47235),

Gene: BaconJack_76 Start: 47714, Stop: 47319, Start Num: 6
Candidate Starts for BaconJack_76:
(Start: 5 @47723 has 47 MA's), (Start: 6 @47714 has 179 MA's), (7, 47660), (8, 47546), (9, 47471), (12, 47396), (13, 47390),

Gene: Barriga_81 Start: 46454, Stop: 46059, Start Num: 6
Candidate Starts for Barriga_81:
(Start: 5 @46463 has 47 MA's), (Start: 6 @46454 has 179 MA's), (7, 46400), (8, 46286), (9, 46211), (12, 46136), (13, 46130),

Gene: BarrowTuph_77 Start: 46760, Stop: 46365, Start Num: 6
Candidate Starts for BarrowTuph_77:
(Start: 5 @46769 has 47 MA's), (Start: 6 @46760 has 179 MA's), (7, 46706), (8, 46592), (9, 46517), (10, 46496), (12, 46442), (13, 46436),

Gene: Beatrix_71 Start: 45728, Stop: 45324, Start Num: 5
Candidate Starts for Beatrix_71:
(Start: 5 @45728 has 47 MA's), (Start: 6 @45719 has 179 MA's), (7, 45665), (8, 45551), (9, 45476), (12, 45401), (13, 45395),

Gene: BeesKnees_75 Start: 44822, Stop: 44427, Start Num: 6
Candidate Starts for BeesKnees_75:
(Start: 5 @44831 has 47 MA's), (Start: 6 @44822 has 179 MA's), (7, 44768), (8, 44654), (9, 44579), (10, 44558), (12, 44504), (13, 44498),

Gene: Bethlehem_77 Start: 48604, Stop: 48200, Start Num: 5
Candidate Starts for Bethlehem_77:
(Start: 5 @48604 has 47 MA's), (Start: 6 @48595 has 179 MA's), (7, 48541), (8, 48427), (9, 48352), (12, 48277), (13, 48271),

Gene: Bexan_69 Start: 45493, Stop: 45098, Start Num: 6
Candidate Starts for Bexan_69:
(Start: 5 @45502 has 47 MA's), (Start: 6 @45493 has 179 MA's), (7, 45439), (8, 45325), (9, 45250), (12, 45175), (13, 45169),

Gene: Big3_75 Start: 47526, Stop: 47131, Start Num: 6
Candidate Starts for Big3_75:
(Start: 5 @47535 has 47 MA's), (Start: 6 @47526 has 179 MA's), (7, 47472), (8, 47358), (9, 47283), (12, 47208), (13, 47202),

Gene: BigMau_77 Start: 47308, Stop: 46913, Start Num: 6
Candidate Starts for BigMau_77:
(Start: 5 @47317 has 47 MA's), (Start: 6 @47308 has 179 MA's), (7, 47254), (8, 47140), (9, 47065), (12, 46990), (13, 46984),

Gene: BigPaolini_72 Start: 44700, Stop: 44296, Start Num: 5
Candidate Starts for BigPaolini_72:
(Start: 5 @44700 has 47 MA's), (Start: 6 @44691 has 179 MA's), (7, 44637), (8, 44523), (9, 44448), (12, 44373), (13, 44367),

Gene: Bigchungi_75 Start: 47134, Stop: 46739, Start Num: 6
Candidate Starts for Bigchungi_75:

(Start: 5 @47143 has 47 MA's), (Start: 6 @47134 has 179 MA's), (7, 47080), (8, 46966), (9, 46891), (12, 46816), (13, 46810),

Gene: Bigfoot_69 Start: 45797, Stop: 45393, Start Num: 5
Candidate Starts for Bigfoot_69:
(Start: 5 @45797 has 47 MA's), (Start: 6 @45788 has 179 MA's), (7, 45734), (8, 45620), (9, 45545), (12, 45470), (13, 45464),

Gene: BillKnuckles_68 Start: 45696, Stop: 45301, Start Num: 6
Candidate Starts for BillKnuckles_68:
(Start: 5 @45705 has 47 MA's), (Start: 6 @45696 has 179 MA's), (7, 45642), (8, 45528), (9, 45453), (10, 45432), (12, 45378), (13, 45372),

Gene: Bircsak_75 Start: 48384, Stop: 47989, Start Num: 6
Candidate Starts for Bircsak_75:
(Start: 5 @48393 has 47 MA's), (Start: 6 @48384 has 179 MA's), (7, 48330), (8, 48216), (9, 48141), (12, 48066), (13, 48060),

Gene: Blackflame_70 Start: 45932, Stop: 45537, Start Num: 6
Candidate Starts for Blackflame_70:
(Start: 5 @45941 has 47 MA's), (Start: 6 @45932 has 179 MA's), (7, 45878), (8, 45764), (9, 45689), (12, 45614), (13, 45608),

Gene: Blesser_68 Start: 44045, Stop: 43650, Start Num: 6
Candidate Starts for Blesser_68:
(Start: 5 @44054 has 47 MA's), (Start: 6 @44045 has 179 MA's), (7, 43991), (8, 43877), (9, 43802), (12, 43727), (13, 43721),

Gene: BluSpix_72 Start: 41257, Stop: 40853, Start Num: 5
Candidate Starts for BluSpix_72:
(Start: 5 @41257 has 47 MA's), (Start: 6 @41248 has 179 MA's), (7, 41194), (8, 41080), (9, 41005), (12, 40930), (13, 40924),

Gene: Blue_71 Start: 45600, Stop: 45205, Start Num: 6
Candidate Starts for Blue_71:
(Start: 5 @45609 has 47 MA's), (Start: 6 @45600 has 179 MA's), (7, 45546), (8, 45432), (9, 45357), (10, 45336), (12, 45282), (13, 45276),

Gene: Bob3_75 Start: 46576, Stop: 46181, Start Num: 6
Candidate Starts for Bob3_75:
(Start: 5 @46585 has 47 MA's), (Start: 6 @46576 has 179 MA's), (7, 46522), (8, 46408), (9, 46333), (12, 46258), (13, 46252),

Gene: Bones_70 Start: 45882, Stop: 45487, Start Num: 6
Candidate Starts for Bones_70:
(Start: 5 @45891 has 47 MA's), (Start: 6 @45882 has 179 MA's), (7, 45828), (8, 45714), (9, 45639), (12, 45564), (13, 45558),

Gene: Briton15_77 Start: 46962, Stop: 46567, Start Num: 6
Candidate Starts for Briton15_77:
(Start: 5 @46971 has 47 MA's), (Start: 6 @46962 has 179 MA's), (7, 46908), (8, 46794), (9, 46719), (10, 46698), (12, 46644), (13, 46638),

Gene: Bruns_77 Start: 45834, Stop: 45430, Start Num: 5
Candidate Starts for Bruns_77:
(Start: 5 @45834 has 47 MA's), (Start: 6 @45825 has 179 MA's), (7, 45771), (8, 45657), (9, 45582), (12, 45507), (13, 45501),

Gene: Burton_75 Start: 48000, Stop: 47596, Start Num: 5
Candidate Starts for Burton_75:
(Start: 5 @48000 has 47 MA's), (Start: 6 @47991 has 179 MA's), (7, 47937), (8, 47823), (9, 47748), (12, 47673), (13, 47667),

Gene: Buttons_71 Start: 44092, Stop: 43697, Start Num: 6
Candidate Starts for Buttons_71:
(Start: 5 @44101 has 47 MA's), (Start: 6 @44092 has 179 MA's), (7, 44038), (8, 43924), (9, 43849), (10, 43828), (12, 43774), (13, 43768),

Gene: Bxb1_68 Start: 44208, Stop: 43813, Start Num: 6
Candidate Starts for Bxb1_68:
(Start: 5 @44217 has 47 MA's), (Start: 6 @44208 has 179 MA's), (7, 44154), (8, 44040), (9, 43965), (10, 43944), (12, 43890), (13, 43884), (14, 43824),

Gene: CactusRose_77 Start: 46806, Stop: 46411, Start Num: 6
Candidate Starts for CactusRose_77:
(Start: 5 @46815 has 47 MA's), (Start: 6 @46806 has 179 MA's), (7, 46752), (8, 46638), (9, 46563), (12, 46488), (13, 46482),

Gene: Carlyle_75 Start: 45280, Stop: 44885, Start Num: 6
Candidate Starts for Carlyle_75:
(Start: 5 @45289 has 47 MA's), (Start: 6 @45280 has 179 MA's), (7, 45226), (8, 45112), (9, 45037), (12, 44962),

Gene: CartmannCramer_70 Start: 46735, Stop: 46340, Start Num: 6
Candidate Starts for CartmannCramer_70:
(Start: 5 @46744 has 47 MA's), (Start: 6 @46735 has 179 MA's), (7, 46681), (8, 46567), (9, 46492), (10, 46471), (12, 46417), (13, 46411),

Gene: CatBus_66 Start: 44417, Stop: 44022, Start Num: 6
Candidate Starts for CatBus_66:
(Start: 5 @44426 has 47 MA's), (Start: 6 @44417 has 179 MA's), (7, 44363), (8, 44249), (9, 44174), (12, 44099), (13, 44093),

Gene: Chanagan_71 Start: 44241, Stop: 43846, Start Num: 6
Candidate Starts for Chanagan_71:
(Start: 5 @44250 has 47 MA's), (Start: 6 @44241 has 179 MA's), (7, 44187), (8, 44073), (9, 43998), (12, 43923), (13, 43917),

Gene: ChristmasHams_65 Start: 42437, Stop: 42042, Start Num: 6
Candidate Starts for ChristmasHams_65:
(Start: 5 @42446 has 47 MA's), (Start: 6 @42437 has 179 MA's), (7, 42383), (8, 42269), (9, 42194), (12, 42119), (13, 42113),

Gene: Ciao_71 Start: 44401, Stop: 44006, Start Num: 6
Candidate Starts for Ciao_71:

(Start: 5 @44410 has 47 MA's), (Start: 6 @44401 has 179 MA's), (7, 44347), (8, 44233), (9, 44158), (12, 44083), (13, 44077),

Gene: ConceptII_79 Start: 47833, Stop: 47438, Start Num: 6
Candidate Starts for ConceptII_79:
(Start: 5 @47842 has 47 MA's), (Start: 6 @47833 has 179 MA's), (7, 47779), (8, 47665), (9, 47590), (12, 47515), (13, 47509),

Gene: Corvo_76 Start: 47482, Stop: 47087, Start Num: 6
Candidate Starts for Corvo_76:
(Start: 5 @47491 has 47 MA's), (Start: 6 @47482 has 179 MA's), (7, 47428), (8, 47314), (9, 47239), (12, 47164), (13, 47158),

Gene: Crispicous1_69 Start: 43923, Stop: 43528, Start Num: 6
Candidate Starts for Crispicous1_69:
(Start: 5 @43932 has 47 MA's), (Start: 6 @43923 has 179 MA's), (7, 43869), (8, 43755), (9, 43680), (12, 43605), (13, 43599),

Gene: DD5_72 Start: 46008, Stop: 45613, Start Num: 6
Candidate Starts for DD5_72:
(Start: 5 @46017 has 47 MA's), (Start: 6 @46008 has 179 MA's), (7, 45954), (8, 45840), (9, 45765), (12, 45690), (13, 45684),

Gene: Dexes_75 Start: 48424, Stop: 48029, Start Num: 6
Candidate Starts for Dexes_75:
(Start: 5 @48433 has 47 MA's), (Start: 6 @48424 has 179 MA's), (7, 48370), (8, 48256), (9, 48181), (10, 48160), (12, 48106), (13, 48100),

Gene: DirtDevil_68 Start: 44225, Stop: 43830, Start Num: 6
Candidate Starts for DirtDevil_68:
(Start: 5 @44234 has 47 MA's), (Start: 6 @44225 has 179 MA's), (7, 44171), (8, 44057), (9, 43982), (12, 43907), (13, 43901),

Gene: Doom_67 Start: 44635, Stop: 44240, Start Num: 6
Candidate Starts for Doom_67:
(Start: 5 @44644 has 47 MA's), (Start: 6 @44635 has 179 MA's), (7, 44581), (8, 44467), (9, 44392), (12, 44317), (13, 44311),

Gene: DrFeelGood_70 Start: 44020, Stop: 43616, Start Num: 5
Candidate Starts for DrFeelGood_70:
(Start: 5 @44020 has 47 MA's), (Start: 6 @44011 has 179 MA's), (7, 43957), (8, 43843), (9, 43768), (10, 43747), (12, 43693), (13, 43687),

Gene: DreamCatcher_78 Start: 46821, Stop: 46417, Start Num: 5
Candidate Starts for DreamCatcher_78:
(Start: 5 @46821 has 47 MA's), (Start: 6 @46812 has 179 MA's), (7, 46758), (8, 46644), (9, 46569), (12, 46494), (13, 46488),

Gene: Dreamboat_74 Start: 44294, Stop: 43899, Start Num: 6
Candidate Starts for Dreamboat_74:
(Start: 5 @44303 has 47 MA's), (Start: 6 @44294 has 179 MA's), (7, 44240), (8, 44126), (9, 44051), (12, 43976), (13, 43970),

Gene: Dulcie_75 Start: 48097, Stop: 47693, Start Num: 5
Candidate Starts for Dulcie_75:
(Start: 5 @48097 has 47 MA's), (Start: 6 @48088 has 179 MA's), (7, 48034), (8, 47920), (9, 47845), (12, 47770), (13, 47764),

Gene: Dussy_73 Start: 45673, Stop: 45278, Start Num: 6
Candidate Starts for Dussy_73:
(Start: 5 @45682 has 47 MA's), (Start: 6 @45673 has 179 MA's), (7, 45619), (8, 45505), (9, 45430), (12, 45355), (13, 45349),

Gene: Dynamix_74 Start: 44737, Stop: 44333, Start Num: 5
Candidate Starts for Dynamix_74:
(Start: 5 @44737 has 47 MA's), (Start: 6 @44728 has 179 MA's), (7, 44674), (8, 44560), (9, 44485), (12, 44410), (13, 44404),

Gene: Edtherson_73 Start: 45904, Stop: 45509, Start Num: 6
Candidate Starts for Edtherson_73:
(Start: 5 @45913 has 47 MA's), (Start: 6 @45904 has 179 MA's), (7, 45850), (8, 45736), (9, 45661), (10, 45640), (12, 45586), (13, 45580),

Gene: EnzoK_75 Start: 44014, Stop: 43619, Start Num: 6
Candidate Starts for EnzoK_75:
(Start: 5 @44023 has 47 MA's), (Start: 6 @44014 has 179 MA's), (7, 43960), (8, 43846), (9, 43771), (12, 43696), (13, 43690),

Gene: Espresso_68 Start: 44585, Stop: 44181, Start Num: 5
Candidate Starts for Espresso_68:
(Start: 5 @44585 has 47 MA's), (Start: 6 @44576 has 179 MA's), (7, 44522), (8, 44408), (9, 44333), (12, 44258), (13, 44252),

Gene: Euphoria_75 Start: 46502, Stop: 46098, Start Num: 5
Candidate Starts for Euphoria_75:
(Start: 5 @46502 has 47 MA's), (Start: 6 @46493 has 179 MA's), (7, 46439), (8, 46325), (9, 46250), (12, 46175), (13, 46169),

Gene: Eyeball_73 Start: 45778, Stop: 45383, Start Num: 6
Candidate Starts for Eyeball_73:
(Start: 5 @45787 has 47 MA's), (Start: 6 @45778 has 179 MA's), (7, 45724), (8, 45610), (9, 45535), (10, 45514), (12, 45460), (13, 45454),

Gene: Fajezeel_77 Start: 47014, Stop: 46619, Start Num: 6
Candidate Starts for Fajezeel_77:
(Start: 5 @47023 has 47 MA's), (Start: 6 @47014 has 179 MA's), (7, 46960), (8, 46846), (9, 46771), (10, 46750), (12, 46696), (13, 46690),

Gene: Fascinus_70 Start: 46302, Stop: 45907, Start Num: 6
Candidate Starts for Fascinus_70:
(Start: 5 @46311 has 47 MA's), (Start: 6 @46302 has 179 MA's), (7, 46248), (8, 46134), (9, 46059), (12, 45984), (13, 45978),

Gene: Fenn_77 Start: 46842, Stop: 46438, Start Num: 5
Candidate Starts for Fenn_77:

(Start: 5 @46842 has 47 MA's), (Start: 6 @46833 has 179 MA's), (7, 46779), (8, 46665), (9, 46590), (12, 46515), (13, 46509),

Gene: Forsytheast_76 Start: 46516, Stop: 46121, Start Num: 6
Candidate Starts for Forsytheast_76:
(Start: 5 @46525 has 47 MA's), (Start: 6 @46516 has 179 MA's), (7, 46462), (8, 46348), (9, 46273), (10, 46252), (12, 46198), (13, 46192),

Gene: Francis47_76 Start: 48385, Stop: 47990, Start Num: 6
Candidate Starts for Francis47_76:
(Start: 5 @48394 has 47 MA's), (Start: 6 @48385 has 179 MA's), (7, 48331), (8, 48217), (9, 48142), (12, 48067), (13, 48061),

Gene: Fushigi_68 Start: 42843, Stop: 42439, Start Num: 5
Candidate Starts for Fushigi_68:
(Start: 5 @42843 has 47 MA's), (Start: 6 @42834 has 179 MA's), (7, 42780), (8, 42666), (9, 42591), (12, 42516), (13, 42510),

Gene: GMonster_72 Start: 45680, Stop: 45285, Start Num: 6
Candidate Starts for GMonster_72:
(Start: 5 @45689 has 47 MA's), (Start: 6 @45680 has 179 MA's), (7, 45626), (8, 45512), (9, 45437), (12, 45362), (13, 45356),

Gene: GageAP_77 Start: 47747, Stop: 47424, Start Num: 5
Candidate Starts for GageAP_77:
(Start: 5 @47747 has 47 MA's), (Start: 6 @47738 has 179 MA's), (7, 47684), (8, 47570), (9, 47495), (10, 47474),

Gene: Gandalf20_73 Start: 45861, Stop: 45466, Start Num: 6
Candidate Starts for Gandalf20_73:
(Start: 5 @45870 has 47 MA's), (Start: 6 @45861 has 179 MA's), (7, 45807), (8, 45693), (9, 45618), (12, 45543), (13, 45537),

Gene: Gompeii16_75 Start: 48385, Stop: 47990, Start Num: 6
Candidate Starts for Gompeii16_75:
(Start: 5 @48394 has 47 MA's), (Start: 6 @48385 has 179 MA's), (7, 48331), (8, 48217), (9, 48142), (12, 48067), (13, 48061),

Gene: Graduation_77 Start: 46361, Stop: 45966, Start Num: 6
Candidate Starts for Graduation_77:
(Start: 5 @46370 has 47 MA's), (Start: 6 @46361 has 179 MA's), (7, 46307), (8, 46193), (9, 46118), (10, 46097), (12, 46043), (13, 46037),

Gene: GrecoEtereo_78 Start: 47490, Stop: 47095, Start Num: 6
Candidate Starts for GrecoEtereo_78:
(Start: 5 @47499 has 47 MA's), (Start: 6 @47490 has 179 MA's), (7, 47436), (8, 47322), (9, 47247), (10, 47226), (12, 47172), (13, 47166),

Gene: Greg_77 Start: 47014, Stop: 46619, Start Num: 6
Candidate Starts for Greg_77:
(Start: 5 @47023 has 47 MA's), (Start: 6 @47014 has 179 MA's), (7, 46960), (8, 46846), (9, 46771), (10, 46750), (12, 46696), (13, 46690),

Gene: GroundGoblin_68 Start: 44367, Stop: 43972, Start Num: 6
Candidate Starts for GroundGoblin_68:
(Start: 5 @44376 has 47 MA's), (Start: 6 @44367 has 179 MA's), (7, 44313), (8, 44199), (9, 44124), (12, 44049), (13, 44043),

Gene: Gwendoluna_78 Start: 47327, Stop: 46932, Start Num: 6
Candidate Starts for Gwendoluna_78:
(Start: 5 @47336 has 47 MA's), (Start: 6 @47327 has 179 MA's), (7, 47273), (8, 47159), (9, 47084), (12, 47009), (13, 47003),

Gene: Gyzlar_67 Start: 42698, Stop: 42303, Start Num: 6
Candidate Starts for Gyzlar_67:
(Start: 5 @42707 has 47 MA's), (Start: 6 @42698 has 179 MA's), (7, 42644), (8, 42530), (9, 42455), (12, 42380), (13, 42374),

Gene: Hami1_67 Start: 40727, Stop: 40332, Start Num: 6
Candidate Starts for Hami1_67:
(Start: 5 @40736 has 47 MA's), (Start: 6 @40727 has 179 MA's), (7, 40673), (8, 40559), (9, 40484), (12, 40409), (13, 40403),

Gene: HanShotFirst_72 Start: 46292, Stop: 45897, Start Num: 6
Candidate Starts for HanShotFirst_72:
(Start: 5 @46301 has 47 MA's), (Start: 6 @46292 has 179 MA's), (7, 46238), (8, 46124), (9, 46049), (10, 46028), (12, 45974), (13, 45968),

Gene: HarryOW_75 Start: 47538, Stop: 47143, Start Num: 6
Candidate Starts for HarryOW_75:
(Start: 5 @47547 has 47 MA's), (Start: 6 @47538 has 179 MA's), (7, 47484), (8, 47370), (9, 47295), (12, 47220), (13, 47214),

Gene: Hermia_69 Start: 44417, Stop: 44022, Start Num: 6
Candidate Starts for Hermia_69:
(Start: 5 @44426 has 47 MA's), (Start: 6 @44417 has 179 MA's), (7, 44363), (8, 44249), (9, 44174), (12, 44099), (13, 44093),

Gene: HermioneGrange_78 Start: 47811, Stop: 47407, Start Num: 5
Candidate Starts for HermioneGrange_78:
(Start: 5 @47811 has 47 MA's), (Start: 6 @47802 has 179 MA's), (7, 47748), (8, 47634), (9, 47559), (12, 47484), (13, 47478),

Gene: Homines_62 Start: 40747, Stop: 40352, Start Num: 6
Candidate Starts for Homines_62:
(Start: 5 @40756 has 47 MA's), (Start: 6 @40747 has 179 MA's), (7, 40693), (8, 40579), (9, 40504), (10, 40483), (12, 40429), (13, 40423),

Gene: Hope4ever_75 Start: 46027, Stop: 45623, Start Num: 5
Candidate Starts for Hope4ever_75:
(Start: 5 @46027 has 47 MA's), (Start: 6 @46018 has 179 MA's), (7, 45964), (8, 45850), (9, 45775), (12, 45700), (13, 45694),

Gene: ILeeKay_72 Start: 44327, Stop: 43932, Start Num: 6
Candidate Starts for ILeeKay_72:

(Start: 5 @44336 has 47 MA's), (Start: 6 @44327 has 179 MA's), (7, 44273), (8, 44159), (9, 44084), (12, 44009), (13, 44003),

Gene: Ichabod_77 Start: 46575, Stop: 46180, Start Num: 6
Candidate Starts for Ichabod_77:
(Start: 5 @46584 has 47 MA's), (Start: 6 @46575 has 179 MA's), (7, 46521), (8, 46407), (9, 46332), (12, 46257), (13, 46251),

Gene: IgnatiusPatJac_74 Start: 45193, Stop: 44798, Start Num: 6
Candidate Starts for IgnatiusPatJac_74:
(Start: 5 @45202 has 47 MA's), (Start: 6 @45193 has 179 MA's), (7, 45139), (8, 45025), (9, 44950), (12, 44875), (13, 44869),

Gene: Inyanga_66 Start: 44521, Stop: 44126, Start Num: 6
Candidate Starts for Inyanga_66:
(Start: 5 @44530 has 47 MA's), (Start: 6 @44521 has 179 MA's), (7, 44467), (8, 44353), (9, 44278), (12, 44203), (13, 44197),

Gene: Iqorha_66 Start: 44529, Stop: 44125, Start Num: 5
Candidate Starts for Iqorha_66:
(Start: 5 @44529 has 47 MA's), (Start: 6 @44520 has 179 MA's), (7, 44466), (8, 44352), (9, 44277), (12, 44202), (13, 44196),

Gene: JC27_75 Start: 45603, Stop: 45208, Start Num: 6
Candidate Starts for JC27_75:
(Start: 5 @45612 has 47 MA's), (Start: 6 @45603 has 179 MA's), (7, 45549), (8, 45435), (9, 45360), (10, 45339), (12, 45285), (13, 45279),

Gene: JackSparrow_75 Start: 45428, Stop: 45033, Start Num: 6
Candidate Starts for JackSparrow_75:
(Start: 5 @45437 has 47 MA's), (Start: 6 @45428 has 179 MA's), (7, 45374), (8, 45260), (9, 45185), (12, 45110), (13, 45104),

Gene: Jasper_73 Start: 44180, Stop: 43785, Start Num: 6
Candidate Starts for Jasper_73:
(Start: 5 @44189 has 47 MA's), (Start: 6 @44180 has 179 MA's), (7, 44126), (8, 44012), (9, 43937), (12, 43862), (13, 43856),

Gene: Jerm2_76 Start: 47872, Stop: 47477, Start Num: 6
Candidate Starts for Jerm2_76:
(Start: 5 @47881 has 47 MA's), (Start: 6 @47872 has 179 MA's), (7, 47818), (8, 47704), (9, 47629), (12, 47554), (13, 47548),

Gene: Jorgensen_81 Start: 47462, Stop: 47067, Start Num: 6
Candidate Starts for Jorgensen_81:
(Start: 5 @47471 has 47 MA's), (Start: 6 @47462 has 179 MA's), (7, 47408), (8, 47294), (9, 47219), (11, 47165), (12, 47144), (13, 47138),

Gene: JuliaChild_75 Start: 46421, Stop: 46026, Start Num: 6
Candidate Starts for JuliaChild_75:
(Start: 5 @46430 has 47 MA's), (Start: 6 @46421 has 179 MA's), (7, 46367), (8, 46253), (9, 46178), (12, 46103), (13, 46097),

Gene: KBG_72 Start: 46777, Stop: 46373, Start Num: 5
Candidate Starts for KBG_72:
(Start: 5 @46777 has 47 MA's), (Start: 6 @46768 has 179 MA's), (7, 46714), (8, 46600), (9, 46525), (12, 46450), (13, 46444),

Gene: KSSJEB_71 Start: 44653, Stop: 44258, Start Num: 6
Candidate Starts for KSSJEB_71:
(Start: 5 @44662 has 47 MA's), (Start: 6 @44653 has 179 MA's), (7, 44599), (8, 44485), (9, 44410), (10, 44389), (12, 44335), (13, 44329),

Gene: Kanely_76 Start: 46518, Stop: 46114, Start Num: 5
Candidate Starts for Kanely_76:
(Start: 5 @46518 has 47 MA's), (Start: 6 @46509 has 179 MA's), (7, 46455), (8, 46341), (9, 46266), (12, 46191), (13, 46185),

Gene: Kenmech_76 Start: 46808, Stop: 46404, Start Num: 5
Candidate Starts for Kenmech_76:
(Start: 5 @46808 has 47 MA's), (Start: 6 @46799 has 179 MA's), (7, 46745), (8, 46631), (9, 46556), (12, 46481), (13, 46475),

Gene: KikiBouba_70 Start: 44226, Stop: 43831, Start Num: 6
Candidate Starts for KikiBouba_70:
(Start: 5 @44235 has 47 MA's), (Start: 6 @44226 has 179 MA's), (7, 44172), (8, 44058), (9, 43983), (12, 43908), (13, 43902),

Gene: Killigrew_71 Start: 45027, Stop: 44623, Start Num: 5
Candidate Starts for Killigrew_71:
(Start: 5 @45027 has 47 MA's), (Start: 6 @45018 has 179 MA's), (7, 44964), (8, 44850), (9, 44775), (12, 44700), (13, 44694),

Gene: Kugel_76 Start: 46661, Stop: 46266, Start Num: 6
Candidate Starts for Kugel_76:
(Start: 5 @46670 has 47 MA's), (Start: 6 @46661 has 179 MA's), (7, 46607), (8, 46493), (9, 46418), (10, 46397), (12, 46343), (13, 46337),

Gene: KyMonks1A_80 Start: 47130, Stop: 46735, Start Num: 6
Candidate Starts for KyMonks1A_80:
(Start: 5 @47139 has 47 MA's), (Start: 6 @47130 has 179 MA's), (7, 47076), (8, 46962), (9, 46887), (13, 46806),

Gene: Kykar_74 Start: 45707, Stop: 45312, Start Num: 6
Candidate Starts for Kykar_74:
(Start: 5 @45716 has 47 MA's), (Start: 6 @45707 has 179 MA's), (7, 45653), (8, 45539), (9, 45464), (10, 45443), (12, 45389), (13, 45383),

Gene: Lamina13_78 Start: 48153, Stop: 47758, Start Num: 6
Candidate Starts for Lamina13_78:
(Start: 5 @48162 has 47 MA's), (Start: 6 @48153 has 179 MA's), (7, 48099), (8, 47985), (9, 47910), (12, 47835), (13, 47829),

Gene: Lesedi_71 Start: 44287, Stop: 43892, Start Num: 6
Candidate Starts for Lesedi_71:

(Start: 5 @44296 has 47 MA's), (Start: 6 @44287 has 179 MA's), (7, 44233), (8, 44119), (9, 44044), (10, 44023), (12, 43969), (13, 43963),

Gene: Levia_68 Start: 43825, Stop: 43430, Start Num: 6
Candidate Starts for Levia_68:
(Start: 5 @43834 has 47 MA's), (Start: 6 @43825 has 179 MA's), (7, 43771), (8, 43657), (9, 43582), (10, 43561), (12, 43507), (13, 43501),

Gene: Licorice_75 Start: 47810, Stop: 47415, Start Num: 6
Candidate Starts for Licorice_75:
(Start: 5 @47819 has 47 MA's), (Start: 6 @47810 has 179 MA's), (7, 47756), (8, 47642), (9, 47567), (12, 47492), (13, 47486),

Gene: LilBib_71 Start: 46040, Stop: 45645, Start Num: 6
Candidate Starts for LilBib_71:
(Start: 5 @46049 has 47 MA's), (Start: 6 @46040 has 179 MA's), (7, 45986), (8, 45872), (9, 45797), (12, 45722), (13, 45716),

Gene: Lockley_71 Start: 45170, Stop: 44775, Start Num: 6
Candidate Starts for Lockley_71:
(Start: 5 @45179 has 47 MA's), (Start: 6 @45170 has 179 MA's), (7, 45116), (8, 45002), (9, 44927), (12, 44852), (13, 44846),

Gene: Lopton_73 Start: 47132, Stop: 46737, Start Num: 6
Candidate Starts for Lopton_73:
(Start: 5 @47141 has 47 MA's), (Start: 6 @47132 has 179 MA's), (7, 47078), (8, 46964), (9, 46889), (12, 46814), (13, 46808),

Gene: MPlant7149_74 Start: 45686, Stop: 45291, Start Num: 6
Candidate Starts for MPlant7149_74:
(Start: 5 @45695 has 47 MA's), (Start: 6 @45686 has 179 MA's), (7, 45632), (8, 45518), (9, 45443), (12, 45368), (13, 45362),

Gene: Magnar_70 Start: 44814, Stop: 44419, Start Num: 6
Candidate Starts for Magnar_70:
(Start: 5 @44823 has 47 MA's), (Start: 6 @44814 has 179 MA's), (7, 44760), (8, 44646), (9, 44571), (12, 44496), (13, 44490),

Gene: Magnito_73 Start: 45127, Stop: 44732, Start Num: 6
Candidate Starts for Magnito_73:
(Start: 5 @45136 has 47 MA's), (Start: 6 @45127 has 179 MA's), (7, 45073), (8, 44959), (9, 44884), (12, 44809), (13, 44803),

Gene: Makemake_77 Start: 46737, Stop: 46342, Start Num: 6
Candidate Starts for Makemake_77:
(Start: 5 @46746 has 47 MA's), (Start: 6 @46737 has 179 MA's), (7, 46683), (8, 46569), (9, 46494), (12, 46419), (13, 46413),

Gene: Manatee_72 Start: 44676, Stop: 44272, Start Num: 5
Candidate Starts for Manatee_72:
(Start: 5 @44676 has 47 MA's), (Start: 6 @44667 has 179 MA's), (7, 44613), (8, 44499), (9, 44424), (10, 44403), (12, 44349), (13, 44343),

Gene: Marcell_67 Start: 43434, Stop: 43039, Start Num: 6
Candidate Starts for Marcell_67:
(Start: 5 @43443 has 47 MA's), (Start: 6 @43434 has 179 MA's), (7, 43380), (8, 43266), (9, 43191), (10, 43170), (12, 43116), (13, 43110),

Gene: Marchy_66 Start: 42238, Stop: 41843, Start Num: 6
Candidate Starts for Marchy_66:
(Start: 5 @42247 has 47 MA's), (Start: 6 @42238 has 179 MA's), (7, 42184), (8, 42070), (9, 41995), (10, 41974), (12, 41920), (13, 41914),

Gene: Marco3_77 Start: 47388, Stop: 46993, Start Num: 6
Candidate Starts for Marco3_77:
(Start: 5 @47397 has 47 MA's), (Start: 6 @47388 has 179 MA's), (7, 47334), (8, 47220), (9, 47145), (10, 47124), (12, 47070), (13, 47064),

Gene: Marge_71 Start: 44931, Stop: 44536, Start Num: 6
Candidate Starts for Marge_71:
(Start: 5 @44940 has 47 MA's), (Start: 6 @44931 has 179 MA's), (7, 44877), (8, 44763), (9, 44688), (12, 44613), (13, 44607),

Gene: Maroc7_76 Start: 47739, Stop: 47335, Start Num: 5
Candidate Starts for Maroc7_76:
(Start: 5 @47739 has 47 MA's), (Start: 6 @47730 has 179 MA's), (7, 47676), (8, 47562), (9, 47487), (12, 47412), (13, 47406),

Gene: Marsha_74 Start: 47373, Stop: 46978, Start Num: 6
Candidate Starts for Marsha_74:
(Start: 5 @47382 has 47 MA's), (Start: 6 @47373 has 179 MA's), (7, 47319), (8, 47205), (9, 47130), (10, 47109), (12, 47055), (13, 47049),

Gene: MaryBeth_72 Start: 45956, Stop: 45561, Start Num: 6
Candidate Starts for MaryBeth_72:
(Start: 5 @45965 has 47 MA's), (Start: 6 @45956 has 179 MA's), (7, 45902), (8, 45788), (9, 45713), (10, 45692), (12, 45638), (13, 45632),

Gene: McGuire_74 Start: 44979, Stop: 44575, Start Num: 5
Candidate Starts for McGuire_74:
(Start: 5 @44979 has 47 MA's), (Start: 6 @44970 has 179 MA's), (7, 44916), (8, 44802), (9, 44727), (12, 44652), (13, 44646),

Gene: McSinger_73 Start: 46109, Stop: 45705, Start Num: 5
Candidate Starts for McSinger_73:
(Start: 5 @46109 has 47 MA's), (Start: 6 @46100 has 179 MA's), (7, 46046), (8, 45932), (9, 45857), (12, 45782), (13, 45776),

Gene: MetalQZJ_71 Start: 45965, Stop: 45561, Start Num: 5
Candidate Starts for MetalQZJ_71:
(Start: 5 @45965 has 47 MA's), (Start: 6 @45956 has 179 MA's), (7, 45902), (8, 45788), (9, 45713), (10, 45692), (12, 45638), (13, 45632),

Gene: Michley_75 Start: 45698, Stop: 45303, Start Num: 6
Candidate Starts for Michley_75:

(Start: 5 @45707 has 47 MA's), (Start: 6 @45698 has 179 MA's), (7, 45644), (8, 45530), (9, 45455), (12, 45380), (13, 45374),

Gene: MilleFeuille_74 Start: 44721, Stop: 44326, Start Num: 6
Candidate Starts for MilleFeuille_74:
(Start: 5 @44730 has 47 MA's), (Start: 6 @44721 has 179 MA's), (7, 44667), (8, 44553), (9, 44478), (12, 44403), (13, 44397),

Gene: Mkhuseli_71 Start: 43710, Stop: 43306, Start Num: 5
Candidate Starts for Mkhuseli_71:
(Start: 5 @43710 has 47 MA's), (Start: 6 @43701 has 179 MA's), (7, 43647), (8, 43533), (9, 43458), (12, 43383), (13, 43377),

Gene: Molly_74 Start: 45343, Stop: 44948, Start Num: 6
Candidate Starts for Molly_74:
(Start: 5 @45352 has 47 MA's), (Start: 6 @45343 has 179 MA's), (7, 45289), (8, 45175), (9, 45100), (12, 45025), (13, 45019),

Gene: Monet_78 Start: 47380, Stop: 46985, Start Num: 6
Candidate Starts for Monet_78:
(Start: 5 @47389 has 47 MA's), (Start: 6 @47380 has 179 MA's), (7, 47326), (8, 47212), (9, 47137), (12, 47062), (13, 47056),

Gene: Moose_76 Start: 46516, Stop: 46121, Start Num: 6
Candidate Starts for Moose_76:
(Start: 5 @46525 has 47 MA's), (Start: 6 @46516 has 179 MA's), (7, 46462), (8, 46348), (9, 46273), (10, 46252), (12, 46198), (13, 46192),

Gene: MrGordo_75 Start: 45272, Stop: 44877, Start Num: 6
Candidate Starts for MrGordo_75:
(Start: 5 @45281 has 47 MA's), (Start: 6 @45272 has 179 MA's), (7, 45218), (8, 45104), (9, 45029), (12, 44954), (13, 44948),

Gene: Mryolo_69 Start: 44301, Stop: 43906, Start Num: 6
Candidate Starts for Mryolo_69:
(Start: 5 @44310 has 47 MA's), (Start: 6 @44301 has 179 MA's), (7, 44247), (8, 44133), (9, 44058), (10, 44037), (12, 43983), (13, 43977),

Gene: Mule_73 Start: 45370, Stop: 44975, Start Num: 6
Candidate Starts for Mule_73:
(Start: 5 @45379 has 47 MA's), (Start: 6 @45370 has 179 MA's), (7, 45316), (8, 45202), (9, 45127), (12, 45052),

Gene: Museum_74 Start: 46406, Stop: 46011, Start Num: 6
Candidate Starts for Museum_74:
(Start: 5 @46415 has 47 MA's), (Start: 6 @46406 has 179 MA's), (7, 46352), (8, 46238), (9, 46163), (12, 46088), (13, 46082),

Gene: NEHalo_70 Start: 45216, Stop: 44821, Start Num: 6
Candidate Starts for NEHalo_70:
(Start: 5 @45225 has 47 MA's), (Start: 6 @45216 has 179 MA's), (7, 45162), (8, 45048), (9, 44973), (12, 44898), (13, 44892),

Gene: Naira_76 Start: 46898, Stop: 46494, Start Num: 5
Candidate Starts for Naira_76:
(Start: 5 @46898 has 47 MA's), (Start: 6 @46889 has 179 MA's), (7, 46835), (8, 46721), (9, 46646), (12, 46571), (13, 46565),

Gene: Nerujay_78 Start: 47658, Stop: 47263, Start Num: 6
Candidate Starts for Nerujay_78:
(Start: 5 @47667 has 47 MA's), (Start: 6 @47658 has 179 MA's), (7, 47604), (8, 47490), (9, 47415), (13, 47334),

Gene: Nhonho_70 Start: 45379, Stop: 44984, Start Num: 6
Candidate Starts for Nhonho_70:
(Start: 5 @45388 has 47 MA's), (Start: 6 @45379 has 179 MA's), (7, 45325), (8, 45211), (9, 45136), (12, 45061), (13, 45055),

Gene: Niza_74 Start: 46689, Stop: 46294, Start Num: 6
Candidate Starts for Niza_74:
(Start: 5 @46698 has 47 MA's), (Start: 6 @46689 has 179 MA's), (7, 46635), (8, 46521), (9, 46446), (12, 46371), (13, 46365),

Gene: Norz_70 Start: 46879, Stop: 46484, Start Num: 6
Candidate Starts for Norz_70:
(Start: 5 @46888 has 47 MA's), (Start: 6 @46879 has 179 MA's), (7, 46825), (8, 46711), (9, 46636), (12, 46561),

Gene: Noxious_70 Start: 44417, Stop: 44022, Start Num: 6
Candidate Starts for Noxious_70:
(Start: 5 @44426 has 47 MA's), (Start: 6 @44417 has 179 MA's), (7, 44363), (8, 44249), (9, 44174), (12, 44099), (13, 44093),

Gene: Ohno789_77 Start: 47439, Stop: 47044, Start Num: 6
Candidate Starts for Ohno789_77:
(Start: 5 @47448 has 47 MA's), (Start: 6 @47439 has 179 MA's), (7, 47385), (8, 47271), (9, 47196), (12, 47121), (13, 47115),

Gene: Oogway_73 Start: 46270, Stop: 45875, Start Num: 6
Candidate Starts for Oogway_73:
(Start: 5 @46279 has 47 MA's), (Start: 6 @46270 has 179 MA's), (7, 46216), (8, 46102), (9, 46027), (12, 45952),

Gene: PSullivan_72 Start: 44488, Stop: 44093, Start Num: 6
Candidate Starts for PSullivan_72:
(Start: 5 @44497 has 47 MA's), (Start: 6 @44488 has 179 MA's), (7, 44434), (8, 44320), (9, 44245), (12, 44170), (13, 44164),

Gene: PacerPaul_79 Start: 47761, Stop: 47357, Start Num: 5
Candidate Starts for PacerPaul_79:
(Start: 5 @47761 has 47 MA's), (Start: 6 @47752 has 179 MA's), (7, 47698), (8, 47584), (9, 47509), (12, 47434), (13, 47428),

Gene: Papez_76 Start: 46889, Stop: 46485, Start Num: 5
Candidate Starts for Papez_76:

(Start: 5 @46889 has 47 MA's), (Start: 6 @46880 has 179 MA's), (7, 46826), (8, 46712), (9, 46637), (12, 46562), (13, 46556), (14, 46496),

Gene: Paphu_69 Start: 44914, Stop: 44519, Start Num: 6
Candidate Starts for Paphu_69:
(Start: 5 @44923 has 47 MA's), (Start: 6 @44914 has 179 MA's), (7, 44860), (8, 44746), (9, 44671), (12, 44596), (13, 44590),

Gene: Paraselene_72 Start: 45563, Stop: 45168, Start Num: 6
Candidate Starts for Paraselene_72:
(Start: 5 @45572 has 47 MA's), (Start: 6 @45563 has 179 MA's), (7, 45509), (8, 45395), (9, 45320), (10, 45299), (12, 45245), (13, 45239),

Gene: Pari_79 Start: 46283, Stop: 45888, Start Num: 6
Candidate Starts for Pari_79:
(Start: 5 @46292 has 47 MA's), (Start: 6 @46283 has 179 MA's), (7, 46229), (8, 46115), (9, 46040), (12, 45965), (13, 45959),

Gene: Parliament_75 Start: 48464, Stop: 48069, Start Num: 6
Candidate Starts for Parliament_75:
(Start: 5 @48473 has 47 MA's), (Start: 6 @48464 has 179 MA's), (7, 48410), (8, 48296), (9, 48221), (12, 48146), (13, 48140),

Gene: PascalRango_72 Start: 45558, Stop: 45163, Start Num: 6
Candidate Starts for PascalRango_72:
(Start: 5 @45567 has 47 MA's), (Start: 6 @45558 has 179 MA's), (7, 45504), (8, 45390), (9, 45315), (12, 45240), (13, 45234),

Gene: PattyP_74 Start: 46112, Stop: 45717, Start Num: 6
Candidate Starts for PattyP_74:
(Start: 5 @46121 has 47 MA's), (Start: 6 @46112 has 179 MA's), (7, 46058), (8, 45944), (9, 45869), (12, 45794), (13, 45788),

Gene: Pelly_77 Start: 48645, Stop: 48250, Start Num: 6
Candidate Starts for Pelly_77:
(Start: 5 @48654 has 47 MA's), (Start: 6 @48645 has 179 MA's), (7, 48591), (8, 48477), (9, 48402), (10, 48381), (12, 48327), (13, 48321),

Gene: Pepe_68 Start: 43566, Stop: 43171, Start Num: 6
Candidate Starts for Pepe_68:
(Start: 5 @43575 has 47 MA's), (Start: 6 @43566 has 179 MA's), (7, 43512), (8, 43398), (9, 43323), (12, 43248), (13, 43242),

Gene: Perseus_74 Start: 47545, Stop: 47150, Start Num: 6
Candidate Starts for Perseus_74:
(Start: 5 @47554 has 47 MA's), (Start: 6 @47545 has 179 MA's), (7, 47491), (8, 47377), (9, 47302), (12, 47227), (13, 47221),

Gene: Peterson_73 Start: 46721, Stop: 46317, Start Num: 4
Candidate Starts for Peterson_73:
(1, 46943), (2, 46928), (3, 46919), (Start: 4 @46721 has 1 MA's), (Start: 6 @46712 has 179 MA's), (7, 46658), (8, 46544), (9, 46469), (10, 46448), (12, 46394), (13, 46388),

Gene: Petp2012_75 Start: 46893, Stop: 46498, Start Num: 6
Candidate Starts for Petp2012_75:
(Start: 5 @46902 has 47 MA's), (Start: 6 @46893 has 179 MA's), (7, 46839), (8, 46725), (9, 46650), (12, 46575), (13, 46569),

Gene: Petruchio_74 Start: 44972, Stop: 44577, Start Num: 6
Candidate Starts for Petruchio_74:
(Start: 6 @44972 has 179 MA's), (7, 44918), (8, 44804), (9, 44729), (12, 44654), (13, 44648),

Gene: PherrisBueller_73 Start: 43831, Stop: 43436, Start Num: 6
Candidate Starts for PherrisBueller_73:
(Start: 5 @43840 has 47 MA's), (Start: 6 @43831 has 179 MA's), (7, 43777), (8, 43663), (9, 43588), (12, 43513), (13, 43507),

Gene: PhineBark_70 Start: 44843, Stop: 44448, Start Num: 6
Candidate Starts for PhineBark_70:
(Start: 5 @44852 has 47 MA's), (Start: 6 @44843 has 179 MA's), (7, 44789), (8, 44675), (9, 44600), (10, 44579), (12, 44525), (13, 44519),

Gene: Phlippers_72 Start: 47203, Stop: 46799, Start Num: 5
Candidate Starts for Phlippers_72:
(Start: 5 @47203 has 47 MA's), (Start: 6 @47194 has 179 MA's), (7, 47140), (8, 47026), (9, 46951), (12, 46876), (13, 46870),

Gene: PhrostyMug_76 Start: 47544, Stop: 47149, Start Num: 6
Candidate Starts for PhrostyMug_76:
(Start: 5 @47553 has 47 MA's), (Start: 6 @47544 has 179 MA's), (7, 47490), (8, 47376), (9, 47301), (12, 47226),

Gene: PinkPlastic_70 Start: 44479, Stop: 44084, Start Num: 6
Candidate Starts for PinkPlastic_70:
(Start: 5 @44488 has 47 MA's), (Start: 6 @44479 has 179 MA's), (7, 44425), (8, 44311), (9, 44236), (10, 44215), (12, 44161), (13, 44155),

Gene: Pinto_74 Start: 46351, Stop: 45947, Start Num: 5
Candidate Starts for Pinto_74:
(Start: 5 @46351 has 47 MA's), (Start: 6 @46342 has 179 MA's), (7, 46288), (8, 46174), (9, 46099), (12, 46024), (13, 46018),

Gene: Pippin_75 Start: 45984, Stop: 45589, Start Num: 6
Candidate Starts for Pippin_75:
(Start: 5 @45993 has 47 MA's), (Start: 6 @45984 has 179 MA's), (7, 45930), (8, 45816), (9, 45741), (12, 45666), (13, 45660),

Gene: Pita2_75 Start: 45985, Stop: 45590, Start Num: 6
Candidate Starts for Pita2_75:
(Start: 5 @45994 has 47 MA's), (Start: 6 @45985 has 179 MA's), (7, 45931), (8, 45817), (9, 45742), (12, 45667), (13, 45661),

Gene: PowerRanger_70 Start: 45917, Stop: 45522, Start Num: 6
Candidate Starts for PowerRanger_70:
(Start: 5 @45926 has 47 MA's), (Start: 6 @45917 has 179 MA's), (7, 45863), (8, 45749), (9, 45674), (10, 45653), (12, 45599), (13, 45593),

Gene: ProMouse_77 Start: 45495, Stop: 45091, Start Num: 5
Candidate Starts for ProMouse_77:
(Start: 5 @45495 has 47 MA's), (Start: 6 @45486 has 179 MA's), (7, 45432), (8, 45318), (9, 45243), (12, 45168), (13, 45162),

Gene: Puppet_70 Start: 46211, Stop: 45807, Start Num: 5
Candidate Starts for Puppet_70:
(Start: 5 @46211 has 47 MA's), (Start: 6 @46202 has 179 MA's), (7, 46148), (8, 46034), (9, 45959), (10, 45938), (12, 45884), (13, 45878),

Gene: QTRlifeCrisis_73 Start: 45327, Stop: 44935, Start Num: 6
Candidate Starts for QTRlifeCrisis_73:
(Start: 5 @45336 has 47 MA's), (Start: 6 @45327 has 179 MA's), (7, 45273), (8, 45159), (9, 45084), (10, 45063), (12, 45009), (13, 45003),

Gene: Raid_71 Start: 45229, Stop: 44834, Start Num: 6
Candidate Starts for Raid_71:
(Start: 5 @45238 has 47 MA's), (Start: 6 @45229 has 179 MA's), (7, 45175), (8, 45061), (9, 44986), (12, 44911), (13, 44905),

Gene: Rajelicia_76 Start: 48165, Stop: 47770, Start Num: 6
Candidate Starts for Rajelicia_76:
(Start: 5 @48174 has 47 MA's), (Start: 6 @48165 has 179 MA's), (7, 48111), (8, 47997), (9, 47922), (12, 47847), (13, 47841),

Gene: Rhynn_70 Start: 45762, Stop: 45358, Start Num: 5
Candidate Starts for Rhynn_70:
(Start: 5 @45762 has 47 MA's), (Start: 6 @45753 has 179 MA's), (7, 45699), (8, 45585), (9, 45510), (10, 45489), (12, 45435), (13, 45429),

Gene: RidgeCB_71 Start: 44750, Stop: 44355, Start Num: 6
Candidate Starts for RidgeCB_71:
(Start: 5 @44759 has 47 MA's), (Start: 6 @44750 has 179 MA's), (7, 44696), (8, 44582), (9, 44507), (12, 44432), (13, 44426),

Gene: Ringer_74 Start: 46697, Stop: 46302, Start Num: 6
Candidate Starts for Ringer_74:
(Start: 5 @46706 has 47 MA's), (Start: 6 @46697 has 179 MA's), (7, 46643), (8, 46529), (9, 46454), (10, 46433), (12, 46379), (13, 46373),

Gene: Rohr_77 Start: 47948, Stop: 47553, Start Num: 6
Candidate Starts for Rohr_77:
(Start: 5 @47957 has 47 MA's), (Start: 6 @47948 has 179 MA's), (7, 47894), (8, 47780), (9, 47705), (12, 47630), (13, 47624),

Gene: Rubeus_75 Start: 44448, Stop: 44053, Start Num: 6
Candidate Starts for Rubeus_75:
(Start: 5 @44457 has 47 MA's), (Start: 6 @44448 has 179 MA's), (7, 44394), (8, 44280), (9, 44205), (12, 44130), (13, 44124),

Gene: Rufus_77 Start: 47137, Stop: 46742, Start Num: 6
Candidate Starts for Rufus_77:

(Start: 5 @47146 has 47 MA's), (Start: 6 @47137 has 179 MA's), (7, 47083), (8, 46969), (9, 46894), (12, 46819), (13, 46813),

Gene: Ruotula_78 Start: 47550, Stop: 47155, Start Num: 6
Candidate Starts for Ruotula_78:
(Start: 5 @47559 has 47 MA's), (Start: 6 @47550 has 179 MA's), (7, 47496), (8, 47382), (9, 47307), (12, 47232), (13, 47226),

Gene: Rutherferd_76 Start: 46726, Stop: 46322, Start Num: 5
Candidate Starts for Rutherferd_76:
(Start: 5 @46726 has 47 MA's), (Start: 6 @46717 has 179 MA's), (7, 46663), (8, 46549), (9, 46474), (12, 46399), (13, 46393),

Gene: STLscum_80 Start: 46759, Stop: 46364, Start Num: 6
Candidate Starts for STLscum_80:
(Start: 5 @46768 has 47 MA's), (Start: 6 @46759 has 179 MA's), (7, 46705), (8, 46591), (9, 46516), (12, 46441), (13, 46435),

Gene: Sagefire_71 Start: 45816, Stop: 45412, Start Num: 5
Candidate Starts for Sagefire_71:
(Start: 5 @45816 has 47 MA's), (Start: 6 @45807 has 179 MA's), (7, 45753), (8, 45639), (9, 45564), (10, 45543), (12, 45489), (13, 45483),

Gene: Sandaddy_72 Start: 46139, Stop: 45744, Start Num: 6
Candidate Starts for Sandaddy_72:
(Start: 5 @46148 has 47 MA's), (Start: 6 @46139 has 179 MA's), (7, 46085), (8, 45971), (9, 45896), (12, 45821), (13, 45815),

Gene: Sanya_73 Start: 46444, Stop: 46049, Start Num: 6
Candidate Starts for Sanya_73:
(Start: 5 @46453 has 47 MA's), (Start: 6 @46444 has 179 MA's), (7, 46390), (8, 46276), (9, 46201), (12, 46126), (13, 46120),

Gene: SarFire_78 Start: 47781, Stop: 47386, Start Num: 6
Candidate Starts for SarFire_78:
(Start: 5 @47790 has 47 MA's), (Start: 6 @47781 has 179 MA's), (7, 47727), (8, 47613), (9, 47538), (10, 47517), (12, 47463), (13, 47457),

Gene: Scowl_75 Start: 46104, Stop: 45709, Start Num: 6
Candidate Starts for Scowl_75:
(Start: 5 @46113 has 47 MA's), (Start: 6 @46104 has 179 MA's), (7, 46050), (8, 45936), (9, 45861), (13, 45780),

Gene: Seabiscuit_74 Start: 44622, Stop: 44215, Start Num: 5
Candidate Starts for Seabiscuit_74:
(Start: 5 @44622 has 47 MA's), (Start: 6 @44613 has 179 MA's), (7, 44559), (8, 44445), (9, 44370), (12, 44295), (13, 44289),

Gene: Seanderson_74 Start: 47508, Stop: 47113, Start Num: 6
Candidate Starts for Seanderson_74:
(Start: 5 @47517 has 47 MA's), (Start: 6 @47508 has 179 MA's), (7, 47454), (8, 47340), (9, 47265), (12, 47190), (13, 47184),

Gene: ShortQueendom_69 Start: 43813, Stop: 43499, Start Num: 6
Candidate Starts for ShortQueendom_69:
(Start: 5 @43822 has 47 MA's), (Start: 6 @43813 has 179 MA's), (7, 43759), (8, 43645), (9, 43570), (10, 43549),

Gene: Sibs6_74 Start: 43453, Stop: 43058, Start Num: 6
Candidate Starts for Sibs6_74:
(Start: 5 @43462 has 47 MA's), (Start: 6 @43453 has 179 MA's), (7, 43399), (8, 43285), (9, 43210), (12, 43135), (13, 43129),

Gene: SkiPole_83 Start: 47109, Stop: 46714, Start Num: 6
Candidate Starts for SkiPole_83:
(Start: 5 @47118 has 47 MA's), (Start: 6 @47109 has 179 MA's), (7, 47055), (8, 46941), (9, 46866), (12, 46791), (13, 46785),

Gene: Slagathor_75 Start: 46965, Stop: 46570, Start Num: 6
Candidate Starts for Slagathor_75:
(Start: 5 @46974 has 47 MA's), (Start: 6 @46965 has 179 MA's), (7, 46911), (8, 46797), (9, 46722), (12, 46647), (13, 46641),

Gene: Smairt_78 Start: 48556, Stop: 48161, Start Num: 6
Candidate Starts for Smairt_78:
(Start: 5 @48565 has 47 MA's), (Start: 6 @48556 has 179 MA's), (7, 48502), (8, 48388), (9, 48313), (12, 48238), (13, 48232),

Gene: Smeagol_77 Start: 48173, Stop: 47778, Start Num: 6
Candidate Starts for Smeagol_77:
(Start: 5 @48182 has 47 MA's), (Start: 6 @48173 has 179 MA's), (7, 48119), (8, 48005), (9, 47930), (10, 47909), (12, 47855), (13, 47849),

Gene: Snazzy_75 Start: 46616, Stop: 46221, Start Num: 6
Candidate Starts for Snazzy_75:
(Start: 5 @46625 has 47 MA's), (Start: 6 @46616 has 179 MA's), (7, 46562), (8, 46448), (9, 46373), (12, 46298), (13, 46292),

Gene: Solon_70 Start: 44251, Stop: 43856, Start Num: 6
Candidate Starts for Solon_70:
(Start: 5 @44260 has 47 MA's), (Start: 6 @44251 has 179 MA's), (7, 44197), (8, 44083), (9, 44008), (10, 43987), (12, 43933), (13, 43927),

Gene: Sorpresa_73 Start: 46145, Stop: 45750, Start Num: 6
Candidate Starts for Sorpresa_73:
(Start: 5 @46154 has 47 MA's), (Start: 6 @46145 has 179 MA's), (7, 46091), (8, 45977), (9, 45902), (12, 45827), (13, 45821),

Gene: SpikeBT_71 Start: 45073, Stop: 44678, Start Num: 6
Candidate Starts for SpikeBT_71:
(Start: 5 @45082 has 47 MA's), (Start: 6 @45073 has 179 MA's), (7, 45019), (8, 44905), (9, 44830), (12, 44755), (13, 44749),

Gene: Squee_75 Start: 45689, Stop: 45294, Start Num: 6
Candidate Starts for Squee_75:

(Start: 5 @45698 has 47 MA's), (Start: 6 @45689 has 179 MA's), (7, 45635), (8, 45521), (9, 45446), (12, 45371), (13, 45365),

Gene: StewieG_69 Start: 43222, Stop: 42827, Start Num: 6
Candidate Starts for StewieG_69:
(Start: 5 @43231 has 47 MA's), (Start: 6 @43222 has 179 MA's), (7, 43168), (8, 43054), (9, 42979), (10, 42958), (12, 42904), (13, 42898),

Gene: StrongArm_70 Start: 45621, Stop: 45226, Start Num: 6
Candidate Starts for StrongArm_70:
(Start: 5 @45630 has 47 MA's), (Start: 6 @45621 has 179 MA's), (7, 45567), (8, 45453), (9, 45378), (12, 45303), (13, 45297),

Gene: Sumter_71 Start: 46614, Stop: 46219, Start Num: 6
Candidate Starts for Sumter_71:
(Start: 5 @46623 has 47 MA's), (Start: 6 @46614 has 179 MA's), (7, 46560), (8, 46446), (9, 46371), (10, 46350), (12, 46296), (13, 46290),

Gene: Sunshine924_75 Start: 45136, Stop: 44741, Start Num: 6
Candidate Starts for Sunshine924_75:
(Start: 5 @45145 has 47 MA's), (Start: 6 @45136 has 179 MA's), (7, 45082), (8, 44968), (9, 44893), (12, 44818), (13, 44812),

Gene: SwissCheese_78 Start: 46136, Stop: 45741, Start Num: 6
Candidate Starts for SwissCheese_78:
(Start: 5 @46145 has 47 MA's), (Start: 6 @46136 has 179 MA's), (7, 46082), (8, 45968), (9, 45893), (12, 45818), (13, 45812),

Gene: Switzer_73 Start: 46080, Stop: 45685, Start Num: 6
Candidate Starts for Switzer_73:
(Start: 5 @46089 has 47 MA's), (Start: 6 @46080 has 179 MA's), (7, 46026), (8, 45912), (9, 45837), (10, 45816), (12, 45762), (13, 45756),

Gene: Swole_75 Start: 45904, Stop: 45500, Start Num: 5
Candidate Starts for Swole_75:
(Start: 5 @45904 has 47 MA's), (Start: 6 @45895 has 179 MA's), (7, 45841), (8, 45727), (9, 45652), (12, 45577), (13, 45571),

Gene: Target_74 Start: 44713, Stop: 44318, Start Num: 6
Candidate Starts for Target_74:
(Start: 5 @44722 has 47 MA's), (Start: 6 @44713 has 179 MA's), (7, 44659), (8, 44545), (9, 44470), (10, 44449), (12, 44395),

Gene: Tasp14_73 Start: 46183, Stop: 45788, Start Num: 6
Candidate Starts for Tasp14_73:
(Start: 5 @46192 has 47 MA's), (Start: 6 @46183 has 179 MA's), (7, 46129), (8, 46015), (9, 45940), (12, 45865), (13, 45859),

Gene: Teodoridan_71 Start: 44020, Stop: 43625, Start Num: 6
Candidate Starts for Teodoridan_71:
(Start: 5 @44029 has 47 MA's), (Start: 6 @44020 has 179 MA's), (7, 43966), (8, 43852), (9, 43777), (10, 43756), (12, 43702), (13, 43696),

Gene: TheloniousMonk_76 Start: 47405, Stop: 47010, Start Num: 6
Candidate Starts for TheloniousMonk_76:
(Start: 5 @47414 has 47 MA's), (Start: 6 @47405 has 179 MA's), (7, 47351), (8, 47237), (9, 47162), (10, 47141), (12, 47087), (13, 47081),

Gene: Thor_78 Start: 47139, Stop: 46744, Start Num: 6
Candidate Starts for Thor_78:
(Start: 5 @47148 has 47 MA's), (Start: 6 @47139 has 179 MA's), (7, 47085), (8, 46971), (9, 46896), (10, 46875), (12, 46821), (13, 46815),

Gene: Topgun_70 Start: 44357, Stop: 43962, Start Num: 6
Candidate Starts for Topgun_70:
(Start: 5 @44366 has 47 MA's), (Start: 6 @44357 has 179 MA's), (7, 44303), (8, 44189), (9, 44114), (10, 44093), (12, 44039), (13, 44033),

Gene: Tote_70 Start: 43162, Stop: 42767, Start Num: 6
Candidate Starts for Tote_70:
(Start: 5 @43171 has 47 MA's), (Start: 6 @43162 has 179 MA's), (7, 43108), (8, 42994), (9, 42919), (12, 42844), (13, 42838),

Gene: Traft412_74 Start: 46438, Stop: 46043, Start Num: 6
Candidate Starts for Traft412_74:
(Start: 5 @46447 has 47 MA's), (Start: 6 @46438 has 179 MA's), (7, 46384), (8, 46270), (9, 46195), (12, 46120), (13, 46114),

Gene: Treddle_76 Start: 47168, Stop: 46773, Start Num: 6
Candidate Starts for Treddle_76:
(Start: 5 @47177 has 47 MA's), (Start: 6 @47168 has 179 MA's), (7, 47114), (8, 47000), (9, 46925), (10, 46904), (12, 46850), (13, 46844),

Gene: Tripl3t_77 Start: 48729, Stop: 48325, Start Num: 5
Candidate Starts for Tripl3t_77:
(Start: 5 @48729 has 47 MA's), (Start: 6 @48720 has 179 MA's), (7, 48666), (8, 48552), (9, 48477), (12, 48402), (13, 48396),

Gene: Trouble_74 Start: 46247, Stop: 45852, Start Num: 6
Candidate Starts for Trouble_74:
(Start: 5 @46256 has 47 MA's), (Start: 6 @46247 has 179 MA's), (7, 46193), (8, 46079), (9, 46004), (12, 45929), (13, 45923),

Gene: Turj99_70 Start: 45738, Stop: 45343, Start Num: 6
Candidate Starts for Turj99_70:
(Start: 5 @45747 has 47 MA's), (Start: 6 @45738 has 179 MA's), (7, 45684), (8, 45570), (9, 45495), (12, 45420), (13, 45414),

Gene: TwoPeat_74 Start: 45700, Stop: 45305, Start Num: 6
Candidate Starts for TwoPeat_74:
(Start: 5 @45709 has 47 MA's), (Start: 6 @45700 has 179 MA's), (7, 45646), (8, 45532), (9, 45457), (12, 45382), (13, 45376),

Gene: U2_68 Start: 45936, Stop: 45541, Start Num: 6
Candidate Starts for U2_68:

(Start: 5 @45945 has 47 MA's), (Start: 6 @45936 has 179 MA's), (7, 45882), (8, 45768), (9, 45693), (12, 45618), (13, 45612),

Gene: Violet_69 Start: 46332, Stop: 45937, Start Num: 6
Candidate Starts for Violet_69:
(Start: 5 @46341 has 47 MA's), (Start: 6 @46332 has 179 MA's), (7, 46278), (8, 46164), (9, 46089), (10, 46068), (12, 46014),

Gene: Watermelon_77 Start: 47251, Stop: 46847, Start Num: 5
Candidate Starts for Watermelon_77:
(Start: 5 @47251 has 47 MA's), (Start: 6 @47242 has 179 MA's), (7, 47188), (8, 47074), (9, 46999), (13, 46918),

Gene: Wheeler_78 Start: 47361, Stop: 46966, Start Num: 6
Candidate Starts for Wheeler_78:
(Start: 5 @47370 has 47 MA's), (Start: 6 @47361 has 179 MA's), (7, 47307), (8, 47193), (9, 47118), (10, 47097), (12, 47043), (13, 47037),

Gene: Whitspit_67 Start: 43064, Stop: 42669, Start Num: 6
Candidate Starts for Whitspit_67:
(Start: 5 @43073 has 47 MA's), (Start: 6 @43064 has 179 MA's), (7, 43010), (8, 42896), (9, 42821), (10, 42800), (12, 42746), (13, 42740),

Gene: Wilkins_71 Start: 44287, Stop: 43892, Start Num: 6
Candidate Starts for Wilkins_71:
(Start: 5 @44296 has 47 MA's), (Start: 6 @44287 has 179 MA's), (7, 44233), (8, 44119), (9, 44044), (10, 44023), (12, 43969), (13, 43963),

Gene: Zeeculate_70 Start: 46060, Stop: 45665, Start Num: 6
Candidate Starts for Zeeculate_70:
(Start: 5 @46069 has 47 MA's), (Start: 6 @46060 has 179 MA's), (7, 46006), (8, 45892), (9, 45817), (12, 45742), (13, 45736),

Gene: Zephyr_76 Start: 46332, Stop: 45937, Start Num: 6
Candidate Starts for Zephyr_76:
(Start: 5 @46341 has 47 MA's), (Start: 6 @46332 has 179 MA's), (7, 46278), (8, 46164), (9, 46089), (12, 46014), (13, 46008),

Gene: Zeuska_76 Start: 47297, Stop: 46902, Start Num: 6
Candidate Starts for Zeuska_76:
(Start: 5 @47306 has 47 MA's), (Start: 6 @47297 has 179 MA's), (7, 47243), (8, 47129), (9, 47054), (12, 46979), (13, 46973),