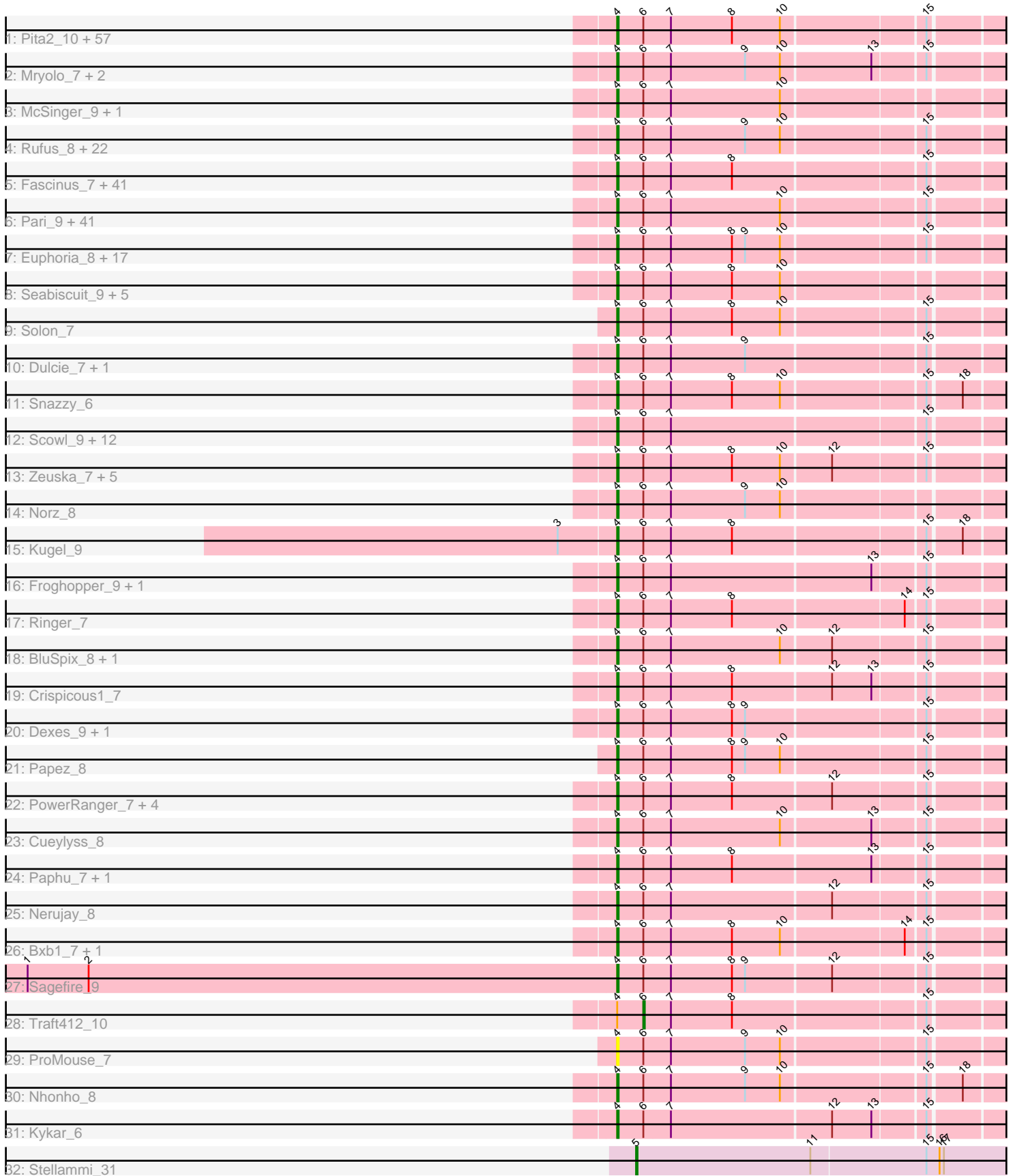


Pham 308013



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 308013 Report

This analysis was run 06/27/26 on database version 652.

Pham number 308013 has 245 members, 20 are drafts.

Phages represented in each track:

- Track 1 : Pita2_10, Doom_8, Hami1_8, Bigchungji_7, Alvin_9, Pippin_9, Marchy_7, Payneful_8, Swole_10, Applejack_8, Gachnar_8, Zeeculate_7, DrFeelGood_7, Altman_9, Slagathor_8, JackSparrow_8, GageAP_9, StewieG_7, Perseus_9, SwissCheese_8, Whitspit_8, Gwendoluna_8, Seanderson_9, Marge_8, Pelly_9, PhrostyMug_7, Trouble_8, Homines_8, TwoPeat_9, DD5_8, Monet_8, Museum_9, EnzoK_9, ShortQueendom_7, KBG_8, Smeagol_9, Moose_7, GrecoEtereo_9, PSullivan_10, Watermelon_10, Tote_10, JuliaChild_10, Sanya_7, Pepe_9, Kanely_9, Sunshine924_7, Anglerfish_8, Fushigi_8, Mule_7, HarryOW_9, Acme_9, Lamina13_8, Alsfro_12, QTRlifeCrisis_7, Aeneas_9, Forsytheast_7, Eyeball_8, Smairt_9
- Track 2 : Mryolo_7, Tripl3t_9, LunarLander_8
- Track 3 : McSinger_9, GMonster_7
- Track 4 : Rufus_8, Kenmech_9, Bruns_6, Paraselene_7, NEHalo_8, Parliament_7, Sumter_7, MrGordo_8, Lopton_9, Briton15_9, Fenn_8, HanShotFirst_8, Graduation_9, PinkPlastic_6, Marco3_8, Rohr_9, HermioneGrange_9, Puppet_8, Blesser_6, Naira_8, KSSJEB_7, Espresso_8, Tasp14_9
- Track 5 : Fascinus_7, Ashballer_6, Zephyr_8, Beatrix_7, DirtDevil_8, Bexan_7, BillKnuckles_8, LilBib_7, Sorpresa_8, Makemake_8, Phlippers_7, Francis47_8, CatBus_8, Niza_9, Noxious_9, Violet_7, Ciao_8, Carlyle_10, Greg_9, SpikeBT_8, KikiBouba_9, Sandaddy_7, Chanagan_7, Oogway_7, Barriga_8, PacerPaul_8, StrongArm_7, JC27_9, Treddle_8, Aldrich_8, MPlant7149_7, Big3_8, Magnar_8, Hermia_9, Fajezeel_9, Edtherson_8, CactusRose_7, Rubeus_8, Adahisdi_9, GroundGoblin_8, Rajelicia_7, Sibs6_9
- Track 6 : Pari_9, Raid_8, Jerm2_8, Topgun_8, AFIS_8, Bob3_7, Molly_9, PherrisBueller_9, Jorgensen_8, Licorice_10, Bones_8, Rutherford_9, Dreamboat_9, Agaliana_8, Gompeii16_8, BPBiabs31_9, PascalRango_7, Burton_8, Bircsak_8, Abrogate_90, KyMonks1A_10, Buttons_8, BigMau_9, Rhynn_8, Petp2012_10, Michley_8, Abbysshoes_9, ILeeKay_10, ConceptII_8, Dussy_9, ChristmasHams_8, Squee_7, Arcanine_8, Marsha_8, Gyzzlar_9, Ichabod_8, Wilkins_8, Blackflame_7, Peterson_10, Pinto_10, Turj99_7, MkhuseI_7
- Track 7 : Euphoria_8, Blue_8, Jasper_9, DreamCatcher_9, BaconJack_9, RidgeCB_8, Switzer_8, Manatee_8, Atkinbua_8, Arlo_7, Hope4ever_8, Lesedi_7, SarFire_8, U2_7, BK1_06, Thor_8, MilleFeuille_7, A6_06
- Track 8 : Seabiscuit_9, Target_9, Killigrew_6, Dynamix_8, McGuire_8, BeesKnees_8
- Track 9 : Solon_7
- Track 10 : Dulcie_7, PattyP_9

- Track 11 : Snazzy_6
- Track 12 : Scowl_9, Ajay_8, MetalQZJ_8, BarrowTuph_7, Lockley_8, Corvo_8, STLscum_9, Bethlehem_8, SkiPole_10, Ohno789_7, MaryBeth_8, Teodoridan_6, Marcell_8
- Track 13 : Zeuska_7, Wheeler_8, Levia_7, Bigfoot_7, Ruotula_7, PhineBark_6
- Track 14 : Norz_8
- Track 15 : Kugel_9
- Track 16 : FrogHopper_9, Petruccio_8
- Track 17 : Ringer_7
- Track 18 : BluSpix_8, IgnatiusPatJac_7
- Track 19 : Crispicous1_7
- Track 20 : Dexes_9, Maroc7_7
- Track 21 : Papez_8
- Track 22 : PowerRanger_7, CartmannCramer_7, Magnito_7, Inyanga_7, Iqorha_7
- Track 23 : Cueylyss_8
- Track 24 : Paphu_7, TheloniousMonk_8
- Track 25 : Nerujay_8
- Track 26 : Bxb1_7, BigPaolini_9
- Track 27 : Sagefire_9
- Track 28 : Traft412_10
- Track 29 : ProMouse_7
- Track 30 : Nhonho_8
- Track 31 : Kykar_6
- Track 32 : Stellammi_31

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 223 of the 225 non-draft genes in the pham.

Genes that call this "Most Annotated" start:

- A6_06, AFIS_8, Abbyshoes_9, Abrogate_90, Acme_9, Adahisdi_9, Aeneas_9, Agaliana_8, Ajay_8, Aldrich_8, Alsfro_12, Altman_9, Alvin_9, Anglerfish_8, Applejack_8, Arcanine_8, Arlo_7, Ashballer_6, Atkinbua_8, BK1_06, BPBiebs31_9, BaconJack_9, Barriga_8, BarrowTuph_7, Beatrix_7, BeesKnees_8, Bethlehem_8, Bexan_7, Big3_8, BigMau_9, BigPaolini_9, Bigchungu_7, Bigfoot_7, BillKnuckles_8, Bircsak_8, Blackflame_7, Blesser_6, BluSpix_8, Blue_8, Bob3_7, Bones_8, Briton15_9, Bruns_6, Burton_8, Buttons_8, Bxb1_7, CactusRose_7, Carlyle_10, CartmannCramer_7, CatBus_8, Chanagan_7, ChristmasHams_8, Ciao_8, ConceptII_8, Corvo_8, Crispicous1_7, Cueylyss_8, DD5_8, Dexes_9, DirtDevil_8, Doom_8, DrFeelGood_7, DreamCatcher_9, Dreamboat_9, Dulcie_7, Dussy_9, Dynamix_8, Edtherson_8, EnzoK_9, Espresso_8, Euphoria_8, Eyeball_8, Fajezeel_9, Fascinus_7, Fenn_8, Forsytheast_7, Francis47_8, FrogHopper_9, Fushigi_8, GMonster_7, Gachnar_8, GageAP_9, Gompeii16_8, Graduation_9, GrecoEtereo_9, Greg_9, GroundGoblin_8, Gwendoluna_8, Gyzlar_9, Hami1_8, HanShotFirst_8, HarryOW_9, Hermia_9, HermioneGrange_9, Homines_8, Hope4ever_8, ILeeKay_10, Ichabod_8, IgnatiusPatJac_7, Inyanga_7, Iqorha_7, JC27_9, JackSparrow_8, Jasper_9, Jerm2_8, Jorgensen_8, JuliaChild_10, KBG_8, KSSJEB_7, Kanely_9, Kenmech_9, KikiBouba_9, Killigrew_6, Kugel_9, KyMonks1A_10, Kykar_6, Lamina13_8, Lesedi_7, Levia_7, Licorice_10, LilBib_7, Lockley_8, Lopton_9,

LunarLander_8, MPlant7149_7, Magnar_8, Magnito_7, Makemake_8, Manatee_8, Marcell_8, Marchy_7, Marco3_8, Marge_8, Maroc7_7, Marsha_8, MaryBeth_8, McGuire_8, McSinger_9, MetalQZJ_8, Michley_8, MilleFeuille_7, Mkhuseleli_7, Molly_9, Monet_8, Moose_7, MrGordo_8, Mryolo_7, Mule_7, Museum_9, NEHalo_8, Naira_8, Nerujay_8, Nhonho_8, Niza_9, Norz_8, Noxious_9, Ohno789_7, Oogway_7, PSullivan_10, PacerPaul_8, Papez_8, Paphu_7, Paraselene_7, Pari_9, Parliament_7, PascalRango_7, PattyP_9, Payneful_8, Pelly_9, Pepe_9, Perseus_9, Peterson_10, Petp2012_10, Petruchio_8, PherrisBueller_9, PhineBark_6, Phlippers_7, PhrostyMug_7, PinkPlastic_6, Pinto_10, Pippin_9, Pita2_10, PowerRanger_7, ProMouse_7, Puppet_8, QTRlifeCrisis_7, Raid_8, Rajelicia_7, Rhynn_8, RidgeCB_8, Ringer_7, Rohr_9, Rubeus_8, Rufus_8, Ruotula_7, Rutherford_9, STLscum_9, Sagefire_9, Sandaddy_7, Sanya_7, SarFire_8, Scowl_9, Seabiscuit_9, Seanderson_9, ShortQueendom_7, Sibs6_9, SkiPole_10, Slagathor_8, Smairt_9, Smeagol_9, Snazzy_6, Solon_7, Sorpresa_8, SpikeBT_8, Squee_7, StewieG_7, StrongArm_7, Sumter_7, Sunshine924_7, SwissCheese_8, Switzer_8, Swole_10, Target_9, Tasp14_9, Teodoridan_6, TheloniousMonk_8, Thor_8, Topgun_8, Tote_10, Treddle_8, Tripl3t_9, Trouble_8, Turj99_7, TwoPeat_9, U2_7, Violet_7, Watermelon_10, Wheeler_8, Whitspit_8, Wilkins_8, Zeeculate_7, Zephyr_8, Zeuska_7,

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

- Traft412_10,

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

- Stellammi_31,

Summary by start number:

Start 4:

- Found in 244 of 245 (99.6%) of genes in pham
- Manual Annotations of this start: 223 of 225
- Called 99.6% of time when present
- Phage (with cluster) where this start called: A6_06 (A1), AFIS_8 (A1), Abbysshoes_9 (A1), Abrogate_90 (A1), Acme_9 (A1), Adahisdi_9 (A1), Aeneas_9 (A1), Agaliana_8 (A1), Ajay_8 (A1), Aldrich_8 (A1), Alsfro_12 (A1), Altman_9 (A1), Alvin_9 (A1), Anglerfish_8 (A1), Applejack_8 (A1), Arcanine_8 (A1), Arlo_7 (A1), Ashballer_6 (A1), Atkinbua_8 (A1), BK1_06 (A1), BPBiels31_9 (A1), BaconJack_9 (A1), Barriga_8 (A1), BarrowTuph_7 (A1), Beatrix_7 (A1), BeesKnees_8 (A1), Bethlehem_8 (A1), Bexan_7 (A1), Big3_8 (A1), BigMau_9 (A1), BigPaolini_9 (A1), Bigchungu_7 (A1), Bigfoot_7 (A1), BillKnuckles_8 (A1), Bircsak_8 (A1), Blackflame_7 (A1), Blessier_6 (A1), BluSpix_8 (A1), Blue_8 (A1), Bob3_7 (A1), Bones_8 (A1), Briton15_9 (A1), Bruns_6 (A1), Burton_8 (A1), Buttons_8 (A1), Bxb1_7 (A1), CactusRose_7 (A1), Carlyle_10 (A1), CartmannCramer_7 (A1), CatBus_8 (A1), Chanagan_7 (A1), ChristmasHams_8 (A1), Ciao_8 (A1), ConceptII_8 (A1), Corvo_8 (A1), Crispicous1_7 (A1), Cueylyss_8 (A1), DD5_8 (A1), Dexes_9 (A1), DirtDevil_8 (A1), Doom_8 (A1), DrFeelGood_7 (A1), DreamCatcher_9 (A1), Dreamboat_9 (A1), Dulcie_7 (A1), Dussy_9 (A1), Dynamix_8 (A1), Edtherson_8 (A1), EnzoK_9 (A1), Espresso_8 (A1), Euphoria_8 (A1), Eyeball_8 (A1), Fajezeel_9 (A1), Fascinus_7 (A1), Fenn_8 (A1), Forsytheast_7 (A1), Francis47_8 (A1), Froghopper_9 (A1), Fushigi_8 (A1), GMonster_7 (A1), Gachnar_8 (A1), GageAP_9 (A1), Gompeii16_8 (A1), Graduation_9 (A1), GrecoEtereo_9 (A1), Greg_9 (A1), GroundGoblin_8 (A1), Gwendoluna_8 (A1), Gyzlar_9 (A1), Hami1_8 (A1), HanShotFirst_8 (A1), HarryOW_9 (A1), Hermia_9 (A1), HermioneGrange_9 (A1), Homines_8 (A1), Hope4ever_8 (A1),

ILeeKay_10 (A1), Ichabod_8 (A1), IgnatiusPatJac_7 (A1), Inyanga_7 (A1), Iqorha_7 (A1), JC27_9 (A1), JackSparrow_8 (A1), Jasper_9 (A1), Jerm2_8 (A1), Jorgensen_8 (A1), JuliaChild_10 (A1), KBG_8 (A1), KSSJEB_7 (A1), Kanely_9 (A1), Kenmech_9 (A1), KikiBouba_9 (A1), Killigrew_6 (A1), Kugel_9 (A1), KyMonks1A_10 (A1), Kykar_6 (A1), Lamina13_8 (A1), Lesedi_7 (A1), Levia_7 (A1), Licorice_10 (A1), LilBib_7 (A1), Lockley_8 (A1), Lopton_9 (A1), LunarLander_8 (A1), MPlant7149_7 (A1), Magnar_8 (A1), Magnito_7 (A1), Makemake_8 (A1), Manatee_8 (A1), Marcell_8 (A1), Marchy_7 (A1), Marco3_8 (A1), Marge_8 (A1), Maroc7_7 (A1), Marsha_8 (A1), MaryBeth_8 (A1), McGuire_8 (A1), McSinger_9 (A1), MetalQZJ_8 (A1), Michley_8 (A1), MilleFeuille_7 (A1), Mkhuseli_7 (A1), Molly_9 (A1), Monet_8 (A1), Moose_7 (A1), MrGordo_8 (A1), Mryolo_7 (A1), Mule_7 (A1), Museum_9 (A1), NEHalo_8 (A1), Naira_8 (A1), Nerujay_8 (A1), Nhonho_8 (A1), Niza_9 (A1), Norz_8 (A1), Noxious_9 (A1), Ohno789_7 (A1), Oogway_7 (A1), PSullivan_10 (A1), PacerPaul_8 (A1), Papez_8 (A1), Paphu_7 (A1), Paraselene_7 (A1), Pari_9 (A1), Parliament_7 (A1), PascalRango_7 (A1), PattyP_9 (A1), Payneful_8 (A1), Pelly_9 (A1), Pepe_9 (A1), Perseus_9 (A1), Peterson_10 (A1), Petp2012_10 (A1), Petruccio_8 (A1), PherrisBueller_9 (A1), PhineBark_6 (A1), Phlippers_7 (A1), PhrostyMug_7 (A1), PinkPlastic_6 (A1), Pinto_10 (A1), Pippin_9 (A1), Pita2_10 (A1), PowerRanger_7 (A1), ProMouse_7 (A1), Puppet_8 (A1), QTRlifeCrisis_7 (A1), Raid_8 (A1), Rajelicia_7 (A1), Rhynn_8 (A1), RidgeCB_8 (A1), Ringer_7 (A1), Rohr_9 (A1), Rubeus_8 (A1), Rufus_8 (A1), Ruotula_7 (A1), Rutherferd_9 (A1), STLscum_9 (A1), Sagefire_9 (A1), Sandaddy_7 (A1), Sanya_7 (A1), SarFire_8 (A1), Scowl_9 (A1), Seabiscuit_9 (A1), Seanderson_9 (A1), ShortQueendom_7 (A1), Sibs6_9 (A1), SkiPole_10 (A1), Slagathor_8 (A1), Smairt_9 (A1), Smeagol_9 (A1), Snazzy_6 (A1), Solon_7 (A1), Sorpresa_8 (A1), SpikeBT_8 (A1), Squee_7 (A1), StewieG_7 (A1), StrongArm_7 (A1), Sumter_7 (A1), Sunshine924_7 (A1), SwissCheese_8 (A1), Switzer_8 (A1), Swole_10 (A1), Target_9 (A1), Tasp14_9 (A1), Teodoridan_6 (A1), TheloniousMonk_8 (A1), Thor_8 (A1), Topgun_8 (A1), Tote_10 (A1), Treddle_8 (A1), Tripl3t_9 (A1), Trouble_8 (A1), Turj99_7 (A1), TwoPeat_9 (A1), U2_7 (A1), Violet_7 (A1), Watermelon_10 (A1), Wheeler_8 (A1), Whitspit_8 (A1), Wilkins_8 (A1), Zeeculate_7 (A1), Zephyr_8 (A1), Zeuska_7 (A1),

Start 5:

- Found in 1 of 245 (0.4%) of genes in pham
- Manual Annotations of this start: 1 of 225
- Called 100.0% of time when present
- Phage (with cluster) where this start called: Stellammi_31 (UNK),

Start 6:

- Found in 244 of 245 (99.6%) of genes in pham
- Manual Annotations of this start: 1 of 225
- Called 0.4% of time when present
- Phage (with cluster) where this start called: Traft412_10 (A1),

Summary by clusters:

There are 2 clusters represented in this pham: A1, UNK,

Info for manual annotations of cluster A1:

- Start number 4 was manually annotated 223 times for cluster A1.
- Start number 6 was manually annotated 1 time for cluster A1.

Info for manual annotations of cluster UNK:

- Start number 5 was manually annotated 1 time for cluster UNK.

Gene Information:

Gene: A6_06 Start: 3913, Stop: 4170, Start Num: 4

Candidate Starts for A6_06:

(Start: 4 @3913 has 223 MA's), (Start: 6 @3931 has 1 MA's), (7, 3949), (8, 3991), (9, 4000), (10, 4024), (15, 4117),

Gene: AFIS_8 Start: 4271, Stop: 4528, Start Num: 4

Candidate Starts for AFIS_8:

(Start: 4 @4271 has 223 MA's), (Start: 6 @4289 has 1 MA's), (7, 4307), (10, 4382), (15, 4475),

Gene: Abbyshoes_9 Start: 4360, Stop: 4617, Start Num: 4

Candidate Starts for Abbyshoes_9:

(Start: 4 @4360 has 223 MA's), (Start: 6 @4378 has 1 MA's), (7, 4396), (10, 4471), (15, 4564),

Gene: Abrogate_90 Start: 4995, Stop: 5252, Start Num: 4

Candidate Starts for Abrogate_90:

(Start: 4 @4995 has 223 MA's), (Start: 6 @5013 has 1 MA's), (7, 5031), (10, 5106), (15, 5199),

Gene: Acme_9 Start: 4184, Stop: 4441, Start Num: 4

Candidate Starts for Acme_9:

(Start: 4 @4184 has 223 MA's), (Start: 6 @4202 has 1 MA's), (7, 4220), (8, 4262), (10, 4295), (15, 4388),

Gene: Adahisdi_9 Start: 4578, Stop: 4835, Start Num: 4

Candidate Starts for Adahisdi_9:

(Start: 4 @4578 has 223 MA's), (Start: 6 @4596 has 1 MA's), (7, 4614), (8, 4656), (15, 4782),

Gene: Aeneas_9 Start: 4463, Stop: 4720, Start Num: 4

Candidate Starts for Aeneas_9:

(Start: 4 @4463 has 223 MA's), (Start: 6 @4481 has 1 MA's), (7, 4499), (8, 4541), (10, 4574), (15, 4667),

Gene: Agaliana_8 Start: 4387, Stop: 4644, Start Num: 4

Candidate Starts for Agaliana_8:

(Start: 4 @4387 has 223 MA's), (Start: 6 @4405 has 1 MA's), (7, 4423), (10, 4498), (15, 4591),

Gene: Ajay_8 Start: 4404, Stop: 4661, Start Num: 4

Candidate Starts for Ajay_8:

(Start: 4 @4404 has 223 MA's), (Start: 6 @4422 has 1 MA's), (7, 4440), (15, 4608),

Gene: Aldrich_8 Start: 4334, Stop: 4591, Start Num: 4

Candidate Starts for Aldrich_8:

(Start: 4 @4334 has 223 MA's), (Start: 6 @4352 has 1 MA's), (7, 4370), (8, 4412), (15, 4538),

Gene: Alsfro_12 Start: 5088, Stop: 5345, Start Num: 4

Candidate Starts for Alsfro_12:

(Start: 4 @5088 has 223 MA's), (Start: 6 @5106 has 1 MA's), (7, 5124), (8, 5166), (10, 5199), (15, 5292),

Gene: Altman_9 Start: 4921, Stop: 5178, Start Num: 4

Candidate Starts for Altman_9:

(Start: 4 @4921 has 223 MA's), (Start: 6 @4939 has 1 MA's), (7, 4957), (8, 4999), (10, 5032), (15, 5125),

Gene: Alvin_9 Start: 4615, Stop: 4872, Start Num: 4

Candidate Starts for Alvin_9:

(Start: 4 @4615 has 223 MA's), (Start: 6 @4633 has 1 MA's), (7, 4651), (8, 4693), (10, 4726), (15, 4819),

Gene: Anglerfish_8 Start: 3955, Stop: 4212, Start Num: 4

Candidate Starts for Anglerfish_8:

(Start: 4 @3955 has 223 MA's), (Start: 6 @3973 has 1 MA's), (7, 3991), (8, 4033), (10, 4066), (15, 4159),

Gene: Applejack_8 Start: 4321, Stop: 4578, Start Num: 4

Candidate Starts for Applejack_8:

(Start: 4 @4321 has 223 MA's), (Start: 6 @4339 has 1 MA's), (7, 4357), (8, 4399), (10, 4432), (15, 4525),

Gene: Arcanine_8 Start: 3921, Stop: 4178, Start Num: 4

Candidate Starts for Arcanine_8:

(Start: 4 @3921 has 223 MA's), (Start: 6 @3939 has 1 MA's), (7, 3957), (10, 4032), (15, 4125),

Gene: Arlo_7 Start: 3946, Stop: 4203, Start Num: 4

Candidate Starts for Arlo_7:

(Start: 4 @3946 has 223 MA's), (Start: 6 @3964 has 1 MA's), (7, 3982), (8, 4024), (9, 4033), (10, 4057), (15, 4150),

Gene: Ashballe_6 Start: 3824, Stop: 4081, Start Num: 4

Candidate Starts for Ashballe_6:

(Start: 4 @3824 has 223 MA's), (Start: 6 @3842 has 1 MA's), (7, 3860), (8, 3902), (15, 4028),

Gene: Atkinbua_8 Start: 3968, Stop: 4225, Start Num: 4

Candidate Starts for Atkinbua_8:

(Start: 4 @3968 has 223 MA's), (Start: 6 @3986 has 1 MA's), (7, 4004), (8, 4046), (9, 4055), (10, 4079), (15, 4172),

Gene: BK1_06 Start: 3913, Stop: 4170, Start Num: 4

Candidate Starts for BK1_06:

(Start: 4 @3913 has 223 MA's), (Start: 6 @3931 has 1 MA's), (7, 3949), (8, 3991), (9, 4000), (10, 4024), (15, 4117),

Gene: BPBiabs31_9 Start: 4585, Stop: 4842, Start Num: 4

Candidate Starts for BPBiabs31_9:

(Start: 4 @4585 has 223 MA's), (Start: 6 @4603 has 1 MA's), (7, 4621), (10, 4696), (15, 4789),

Gene: BaconJack_9 Start: 4169, Stop: 4426, Start Num: 4

Candidate Starts for BaconJack_9:

(Start: 4 @4169 has 223 MA's), (Start: 6 @4187 has 1 MA's), (7, 4205), (8, 4247), (9, 4256), (10, 4280), (15, 4373),

Gene: Barriga_8 Start: 4201, Stop: 4458, Start Num: 4
Candidate Starts for Barriga_8:
(Start: 4 @4201 has 223 MA's), (Start: 6 @4219 has 1 MA's), (7, 4237), (8, 4279), (15, 4405),

Gene: BarrowTuph_7 Start: 4257, Stop: 4514, Start Num: 4
Candidate Starts for BarrowTuph_7:
(Start: 4 @4257 has 223 MA's), (Start: 6 @4275 has 1 MA's), (7, 4293), (15, 4461),

Gene: Beatrix_7 Start: 4006, Stop: 4263, Start Num: 4
Candidate Starts for Beatrix_7:
(Start: 4 @4006 has 223 MA's), (Start: 6 @4024 has 1 MA's), (7, 4042), (8, 4084), (15, 4210),

Gene: BeesKnees_8 Start: 4050, Stop: 4307, Start Num: 4
Candidate Starts for BeesKnees_8:
(Start: 4 @4050 has 223 MA's), (Start: 6 @4068 has 1 MA's), (7, 4086), (8, 4128), (10, 4161),

Gene: Bethlehem_8 Start: 4592, Stop: 4849, Start Num: 4
Candidate Starts for Bethlehem_8:
(Start: 4 @4592 has 223 MA's), (Start: 6 @4610 has 1 MA's), (7, 4628), (15, 4796),

Gene: Bexan_7 Start: 4006, Stop: 4263, Start Num: 4
Candidate Starts for Bexan_7:
(Start: 4 @4006 has 223 MA's), (Start: 6 @4024 has 1 MA's), (7, 4042), (8, 4084), (15, 4210),

Gene: Big3_8 Start: 3949, Stop: 4206, Start Num: 4
Candidate Starts for Big3_8:
(Start: 4 @3949 has 223 MA's), (Start: 6 @3967 has 1 MA's), (7, 3985), (8, 4027), (15, 4153),

Gene: BigMau_9 Start: 4053, Stop: 4310, Start Num: 4
Candidate Starts for BigMau_9:
(Start: 4 @4053 has 223 MA's), (Start: 6 @4071 has 1 MA's), (7, 4089), (10, 4164), (15, 4257),

Gene: BigPaolini_9 Start: 4978, Stop: 5235, Start Num: 4
Candidate Starts for BigPaolini_9:
(Start: 4 @4978 has 223 MA's), (Start: 6 @4996 has 1 MA's), (7, 5014), (8, 5056), (10, 5089), (14, 5170), (15, 5182),

Gene: Bigchungi_7 Start: 3846, Stop: 4103, Start Num: 4
Candidate Starts for Bigchungi_7:
(Start: 4 @3846 has 223 MA's), (Start: 6 @3864 has 1 MA's), (7, 3882), (8, 3924), (10, 3957), (15, 4050),

Gene: Bigfoot_7 Start: 4077, Stop: 4334, Start Num: 4
Candidate Starts for Bigfoot_7:
(Start: 4 @4077 has 223 MA's), (Start: 6 @4095 has 1 MA's), (7, 4113), (8, 4155), (10, 4188), (12, 4221), (15, 4281),

Gene: BillKnuckles_8 Start: 4452, Stop: 4709, Start Num: 4
Candidate Starts for BillKnuckles_8:
(Start: 4 @4452 has 223 MA's), (Start: 6 @4470 has 1 MA's), (7, 4488), (8, 4530), (15, 4656),

Gene: Bircsak_8 Start: 4538, Stop: 4795, Start Num: 4
Candidate Starts for Bircsak_8:

(Start: 4 @4538 has 223 MA's), (Start: 6 @4556 has 1 MA's), (7, 4574), (10, 4649), (15, 4742),

Gene: Blackflame_7 Start: 3855, Stop: 4112, Start Num: 4

Candidate Starts for Blackflame_7:

(Start: 4 @3855 has 223 MA's), (Start: 6 @3873 has 1 MA's), (7, 3891), (10, 3966), (15, 4059),

Gene: Blesser_6 Start: 3791, Stop: 4048, Start Num: 4

Candidate Starts for Blesser_6:

(Start: 4 @3791 has 223 MA's), (Start: 6 @3809 has 1 MA's), (7, 3827), (9, 3878), (10, 3902), (15, 3995),

Gene: BluSpix_8 Start: 4337, Stop: 4594, Start Num: 4

Candidate Starts for BluSpix_8:

(Start: 4 @4337 has 223 MA's), (Start: 6 @4355 has 1 MA's), (7, 4373), (10, 4448), (12, 4481), (15, 4541),

Gene: Blue_8 Start: 4446, Stop: 4703, Start Num: 4

Candidate Starts for Blue_8:

(Start: 4 @4446 has 223 MA's), (Start: 6 @4464 has 1 MA's), (7, 4482), (8, 4524), (9, 4533), (10, 4557), (15, 4650),

Gene: Bob3_7 Start: 3893, Stop: 4150, Start Num: 4

Candidate Starts for Bob3_7:

(Start: 4 @3893 has 223 MA's), (Start: 6 @3911 has 1 MA's), (7, 3929), (10, 4004), (15, 4097),

Gene: Bones_8 Start: 4088, Stop: 4345, Start Num: 4

Candidate Starts for Bones_8:

(Start: 4 @4088 has 223 MA's), (Start: 6 @4106 has 1 MA's), (7, 4124), (10, 4199), (15, 4292),

Gene: Briton15_9 Start: 4104, Stop: 4361, Start Num: 4

Candidate Starts for Briton15_9:

(Start: 4 @4104 has 223 MA's), (Start: 6 @4122 has 1 MA's), (7, 4140), (9, 4191), (10, 4215), (15, 4308),

Gene: Bruns_6 Start: 3756, Stop: 4013, Start Num: 4

Candidate Starts for Bruns_6:

(Start: 4 @3756 has 223 MA's), (Start: 6 @3774 has 1 MA's), (7, 3792), (9, 3843), (10, 3867), (15, 3960),

Gene: Burton_8 Start: 3954, Stop: 4211, Start Num: 4

Candidate Starts for Burton_8:

(Start: 4 @3954 has 223 MA's), (Start: 6 @3972 has 1 MA's), (7, 3990), (10, 4065), (15, 4158),

Gene: Buttons_8 Start: 3963, Stop: 4220, Start Num: 4

Candidate Starts for Buttons_8:

(Start: 4 @3963 has 223 MA's), (Start: 6 @3981 has 1 MA's), (7, 3999), (10, 4074), (15, 4167),

Gene: Bxb1_7 Start: 4363, Stop: 4620, Start Num: 4

Candidate Starts for Bxb1_7:

(Start: 4 @4363 has 223 MA's), (Start: 6 @4381 has 1 MA's), (7, 4399), (8, 4441), (10, 4474), (14, 4555), (15, 4567),

Gene: CactusRose_7 Start: 4076, Stop: 4333, Start Num: 4

Candidate Starts for CactusRose_7:

(Start: 4 @4076 has 223 MA's), (Start: 6 @4094 has 1 MA's), (7, 4112), (8, 4154), (15, 4280),

Gene: Carlyle_10 Start: 4926, Stop: 5183, Start Num: 4

Candidate Starts for Carlyle_10:

(Start: 4 @4926 has 223 MA's), (Start: 6 @4944 has 1 MA's), (7, 4962), (8, 5004), (15, 5130),

Gene: CartmannCramer_7 Start: 4291, Stop: 4548, Start Num: 4

Candidate Starts for CartmannCramer_7:

(Start: 4 @4291 has 223 MA's), (Start: 6 @4309 has 1 MA's), (7, 4327), (8, 4369), (12, 4435), (15, 4495),

Gene: CatBus_8 Start: 4526, Stop: 4783, Start Num: 4

Candidate Starts for CatBus_8:

(Start: 4 @4526 has 223 MA's), (Start: 6 @4544 has 1 MA's), (7, 4562), (8, 4604), (15, 4730),

Gene: Chanagan_7 Start: 3920, Stop: 4177, Start Num: 4

Candidate Starts for Chanagan_7:

(Start: 4 @3920 has 223 MA's), (Start: 6 @3938 has 1 MA's), (7, 3956), (8, 3998), (15, 4124),

Gene: ChristmasHams_8 Start: 4387, Stop: 4644, Start Num: 4

Candidate Starts for ChristmasHams_8:

(Start: 4 @4387 has 223 MA's), (Start: 6 @4405 has 1 MA's), (7, 4423), (10, 4498), (15, 4591),

Gene: Ciao_8 Start: 4308, Stop: 4565, Start Num: 4

Candidate Starts for Ciao_8:

(Start: 4 @4308 has 223 MA's), (Start: 6 @4326 has 1 MA's), (7, 4344), (8, 4386), (15, 4512),

Gene: ConceptII_8 Start: 4557, Stop: 4814, Start Num: 4

Candidate Starts for ConceptII_8:

(Start: 4 @4557 has 223 MA's), (Start: 6 @4575 has 1 MA's), (7, 4593), (10, 4668), (15, 4761),

Gene: Corvo_8 Start: 4503, Stop: 4760, Start Num: 4

Candidate Starts for Corvo_8:

(Start: 4 @4503 has 223 MA's), (Start: 6 @4521 has 1 MA's), (7, 4539), (15, 4707),

Gene: Crispicous1_7 Start: 3785, Stop: 4042, Start Num: 4

Candidate Starts for Crispicous1_7:

(Start: 4 @3785 has 223 MA's), (Start: 6 @3803 has 1 MA's), (7, 3821), (8, 3863), (12, 3929), (13, 3956), (15, 3989),

Gene: Cueylyss_8 Start: 4454, Stop: 4711, Start Num: 4

Candidate Starts for Cueylyss_8:

(Start: 4 @4454 has 223 MA's), (Start: 6 @4472 has 1 MA's), (7, 4490), (10, 4565), (13, 4625), (15, 4658),

Gene: DD5_8 Start: 4494, Stop: 4751, Start Num: 4

Candidate Starts for DD5_8:

(Start: 4 @4494 has 223 MA's), (Start: 6 @4512 has 1 MA's), (7, 4530), (8, 4572), (10, 4605), (15, 4698),

Gene: Dexes_9 Start: 4941, Stop: 5198, Start Num: 4

Candidate Starts for Dexes_9:

(Start: 4 @4941 has 223 MA's), (Start: 6 @4959 has 1 MA's), (7, 4977), (8, 5019), (9, 5028), (15, 5145),

Gene: DirtDevil_8 Start: 4334, Stop: 4591, Start Num: 4

Candidate Starts for DirtDevil_8:

(Start: 4 @4334 has 223 MA's), (Start: 6 @4352 has 1 MA's), (7, 4370), (8, 4412), (15, 4538),

Gene: Doom_8 Start: 4579, Stop: 4836, Start Num: 4

Candidate Starts for Doom_8:

(Start: 4 @4579 has 223 MA's), (Start: 6 @4597 has 1 MA's), (7, 4615), (8, 4657), (10, 4690), (15, 4783),

Gene: DrFeelGood_7 Start: 4103, Stop: 4360, Start Num: 4

Candidate Starts for DrFeelGood_7:

(Start: 4 @4103 has 223 MA's), (Start: 6 @4121 has 1 MA's), (7, 4139), (8, 4181), (10, 4214), (15, 4307),

Gene: DreamCatcher_9 Start: 4697, Stop: 4954, Start Num: 4

Candidate Starts for DreamCatcher_9:

(Start: 4 @4697 has 223 MA's), (Start: 6 @4715 has 1 MA's), (7, 4733), (8, 4775), (9, 4784), (10, 4808), (15, 4901),

Gene: Dreamboat_9 Start: 4195, Stop: 4452, Start Num: 4

Candidate Starts for Dreamboat_9:

(Start: 4 @4195 has 223 MA's), (Start: 6 @4213 has 1 MA's), (7, 4231), (10, 4306), (15, 4399),

Gene: Dulcie_7 Start: 3999, Stop: 4256, Start Num: 4

Candidate Starts for Dulcie_7:

(Start: 4 @3999 has 223 MA's), (Start: 6 @4017 has 1 MA's), (7, 4035), (9, 4086), (15, 4203),

Gene: Dussy_9 Start: 4360, Stop: 4617, Start Num: 4

Candidate Starts for Dussy_9:

(Start: 4 @4360 has 223 MA's), (Start: 6 @4378 has 1 MA's), (7, 4396), (10, 4471), (15, 4564),

Gene: Dynamix_8 Start: 4052, Stop: 4309, Start Num: 4

Candidate Starts for Dynamix_8:

(Start: 4 @4052 has 223 MA's), (Start: 6 @4070 has 1 MA's), (7, 4088), (8, 4130), (10, 4163),

Gene: Edtherson_8 Start: 4273, Stop: 4530, Start Num: 4

Candidate Starts for Edtherson_8:

(Start: 4 @4273 has 223 MA's), (Start: 6 @4291 has 1 MA's), (7, 4309), (8, 4351), (15, 4477),

Gene: EnzoK_9 Start: 4570, Stop: 4827, Start Num: 4

Candidate Starts for EnzoK_9:

(Start: 4 @4570 has 223 MA's), (Start: 6 @4588 has 1 MA's), (7, 4606), (8, 4648), (10, 4681), (15, 4774),

Gene: Espresso_8 Start: 4432, Stop: 4689, Start Num: 4

Candidate Starts for Espresso_8:

(Start: 4 @4432 has 223 MA's), (Start: 6 @4450 has 1 MA's), (7, 4468), (9, 4519), (10, 4543), (15, 4636),

Gene: Euphoria_8 Start: 4330, Stop: 4587, Start Num: 4

Candidate Starts for Euphoria_8:

(Start: 4 @4330 has 223 MA's), (Start: 6 @4348 has 1 MA's), (7, 4366), (8, 4408), (9, 4417), (10, 4441), (15, 4534),

Gene: Eyeball_8 Start: 4096, Stop: 4353, Start Num: 4

Candidate Starts for Eyeball_8:

(Start: 4 @4096 has 223 MA's), (Start: 6 @4114 has 1 MA's), (7, 4132), (8, 4174), (10, 4207), (15, 4300),

Gene: Fajezeel_9 Start: 4152, Stop: 4409, Start Num: 4

Candidate Starts for Fajezeel_9:

(Start: 4 @4152 has 223 MA's), (Start: 6 @4170 has 1 MA's), (7, 4188), (8, 4230), (15, 4356),

Gene: Fascinus_7 Start: 4078, Stop: 4335, Start Num: 4

Candidate Starts for Fascinus_7:

(Start: 4 @4078 has 223 MA's), (Start: 6 @4096 has 1 MA's), (7, 4114), (8, 4156), (15, 4282),

Gene: Fenn_8 Start: 4282, Stop: 4539, Start Num: 4

Candidate Starts for Fenn_8:

(Start: 4 @4282 has 223 MA's), (Start: 6 @4300 has 1 MA's), (7, 4318), (9, 4369), (10, 4393), (15, 4486),

Gene: Forsytheast_7 Start: 4342, Stop: 4599, Start Num: 4

Candidate Starts for Forsytheast_7:

(Start: 4 @4342 has 223 MA's), (Start: 6 @4360 has 1 MA's), (7, 4378), (8, 4420), (10, 4453), (15, 4546),

Gene: Francis47_8 Start: 4600, Stop: 4857, Start Num: 4

Candidate Starts for Francis47_8:

(Start: 4 @4600 has 223 MA's), (Start: 6 @4618 has 1 MA's), (7, 4636), (8, 4678), (15, 4804),

Gene: Froghopper_9 Start: 4021, Stop: 4278, Start Num: 4

Candidate Starts for Froghopper_9:

(Start: 4 @4021 has 223 MA's), (Start: 6 @4039 has 1 MA's), (7, 4057), (13, 4192), (15, 4225),

Gene: Fushigi_8 Start: 4241, Stop: 4498, Start Num: 4

Candidate Starts for Fushigi_8:

(Start: 4 @4241 has 223 MA's), (Start: 6 @4259 has 1 MA's), (7, 4277), (8, 4319), (10, 4352), (15, 4445),

Gene: GMonster_7 Start: 3947, Stop: 4204, Start Num: 4

Candidate Starts for GMonster_7:

(Start: 4 @3947 has 223 MA's), (Start: 6 @3965 has 1 MA's), (7, 3983), (10, 4058),

Gene: Gachnar_8 Start: 4362, Stop: 4619, Start Num: 4

Candidate Starts for Gachnar_8:

(Start: 4 @4362 has 223 MA's), (Start: 6 @4380 has 1 MA's), (7, 4398), (8, 4440), (10, 4473), (15, 4566),

Gene: GageAP_9 Start: 4566, Stop: 4823, Start Num: 4

Candidate Starts for GageAP_9:

(Start: 4 @4566 has 223 MA's), (Start: 6 @4584 has 1 MA's), (7, 4602), (8, 4644), (10, 4677), (15, 4770),

Gene: Gompeii16_8 Start: 4539, Stop: 4796, Start Num: 4

Candidate Starts for Gompeii16_8:

(Start: 4 @4539 has 223 MA's), (Start: 6 @4557 has 1 MA's), (7, 4575), (10, 4650), (15, 4743),

Gene: Graduation_9 Start: 4559, Stop: 4816, Start Num: 4

Candidate Starts for Graduation_9:

(Start: 4 @4559 has 223 MA's), (Start: 6 @4577 has 1 MA's), (7, 4595), (9, 4646), (10, 4670), (15, 4763),

Gene: GrecoEtereo_9 Start: 4645, Stop: 4902, Start Num: 4

Candidate Starts for GrecoEtereo_9:

(Start: 4 @4645 has 223 MA's), (Start: 6 @4663 has 1 MA's), (7, 4681), (8, 4723), (10, 4756), (15, 4849),

Gene: Greg_9 Start: 4152, Stop: 4409, Start Num: 4

Candidate Starts for Greg_9:

(Start: 4 @4152 has 223 MA's), (Start: 6 @4170 has 1 MA's), (7, 4188), (8, 4230), (15, 4356),

Gene: GroundGoblin_8 Start: 4334, Stop: 4591, Start Num: 4

Candidate Starts for GroundGoblin_8:

(Start: 4 @4334 has 223 MA's), (Start: 6 @4352 has 1 MA's), (7, 4370), (8, 4412), (15, 4538),

Gene: Gwendoluna_8 Start: 4443, Stop: 4700, Start Num: 4

Candidate Starts for Gwendoluna_8:

(Start: 4 @4443 has 223 MA's), (Start: 6 @4461 has 1 MA's), (7, 4479), (8, 4521), (10, 4554), (15, 4647),

Gene: Gyzlar_9 Start: 4780, Stop: 5037, Start Num: 4

Candidate Starts for Gyzlar_9:

(Start: 4 @4780 has 223 MA's), (Start: 6 @4798 has 1 MA's), (7, 4816), (10, 4891), (15, 4984),

Gene: Hami1_8 Start: 4340, Stop: 4597, Start Num: 4

Candidate Starts for Hami1_8:

(Start: 4 @4340 has 223 MA's), (Start: 6 @4358 has 1 MA's), (7, 4376), (8, 4418), (10, 4451), (15, 4544),

Gene: HanShotFirst_8 Start: 3945, Stop: 4202, Start Num: 4

Candidate Starts for HanShotFirst_8:

(Start: 4 @3945 has 223 MA's), (Start: 6 @3963 has 1 MA's), (7, 3981), (9, 4032), (10, 4056), (15, 4149),

Gene: HarryOW_9 Start: 4645, Stop: 4902, Start Num: 4

Candidate Starts for HarryOW_9:

(Start: 4 @4645 has 223 MA's), (Start: 6 @4663 has 1 MA's), (7, 4681), (8, 4723), (10, 4756), (15, 4849),

Gene: Hermia_9 Start: 4526, Stop: 4783, Start Num: 4

Candidate Starts for Hermia_9:

(Start: 4 @4526 has 223 MA's), (Start: 6 @4544 has 1 MA's), (7, 4562), (8, 4604), (15, 4730),

Gene: HermioneGrange_9 Start: 4054, Stop: 4311, Start Num: 4

Candidate Starts for HermioneGrange_9:

(Start: 4 @4054 has 223 MA's), (Start: 6 @4072 has 1 MA's), (7, 4090), (9, 4141), (10, 4165), (15, 4258),

Gene: Homines_8 Start: 4358, Stop: 4615, Start Num: 4

Candidate Starts for Homines_8:

(Start: 4 @4358 has 223 MA's), (Start: 6 @4376 has 1 MA's), (7, 4394), (8, 4436), (10, 4469), (15, 4562),

Gene: Hope4ever_8 Start: 4460, Stop: 4717, Start Num: 4

Candidate Starts for Hope4ever_8:

(Start: 4 @4460 has 223 MA's), (Start: 6 @4478 has 1 MA's), (7, 4496), (8, 4538), (9, 4547), (10, 4571), (15, 4664),

Gene: ILeeKay_10 Start: 4533, Stop: 4790, Start Num: 4

Candidate Starts for ILeeKay_10:

(Start: 4 @4533 has 223 MA's), (Start: 6 @4551 has 1 MA's), (7, 4569), (10, 4644), (15, 4737),

Gene: Ichabod_8 Start: 4069, Stop: 4326, Start Num: 4

Candidate Starts for Ichabod_8:

(Start: 4 @4069 has 223 MA's), (Start: 6 @4087 has 1 MA's), (7, 4105), (10, 4180), (15, 4273),

Gene: IgnatiusPatJac_7 Start: 4338, Stop: 4595, Start Num: 4

Candidate Starts for IgnatiusPatJac_7:

(Start: 4 @4338 has 223 MA's), (Start: 6 @4356 has 1 MA's), (7, 4374), (10, 4449), (12, 4482), (15, 4542),

Gene: Inyanga_7 Start: 4127, Stop: 4384, Start Num: 4

Candidate Starts for Inyanga_7:

(Start: 4 @4127 has 223 MA's), (Start: 6 @4145 has 1 MA's), (7, 4163), (8, 4205), (12, 4271), (15, 4331),

Gene: Iqorha_7 Start: 4127, Stop: 4384, Start Num: 4

Candidate Starts for Iqorha_7:

(Start: 4 @4127 has 223 MA's), (Start: 6 @4145 has 1 MA's), (7, 4163), (8, 4205), (12, 4271), (15, 4331),

Gene: JC27_9 Start: 4767, Stop: 5024, Start Num: 4

Candidate Starts for JC27_9:

(Start: 4 @4767 has 223 MA's), (Start: 6 @4785 has 1 MA's), (7, 4803), (8, 4845), (15, 4971),

Gene: JackSparrow_8 Start: 4334, Stop: 4591, Start Num: 4

Candidate Starts for JackSparrow_8:

(Start: 4 @4334 has 223 MA's), (Start: 6 @4352 has 1 MA's), (7, 4370), (8, 4412), (10, 4445), (15, 4538),

Gene: Jasper_9 Start: 4177, Stop: 4434, Start Num: 4

Candidate Starts for Jasper_9:

(Start: 4 @4177 has 223 MA's), (Start: 6 @4195 has 1 MA's), (7, 4213), (8, 4255), (9, 4264), (10, 4288), (15, 4381),

Gene: Jerm2_8 Start: 4053, Stop: 4310, Start Num: 4

Candidate Starts for Jerm2_8:

(Start: 4 @4053 has 223 MA's), (Start: 6 @4071 has 1 MA's), (7, 4089), (10, 4164), (15, 4257),

Gene: Jorgensen_8 Start: 4100, Stop: 4357, Start Num: 4

Candidate Starts for Jorgensen_8:

(Start: 4 @4100 has 223 MA's), (Start: 6 @4118 has 1 MA's), (7, 4136), (10, 4211), (15, 4304),

Gene: JuliaChild_10 Start: 4811, Stop: 5068, Start Num: 4

Candidate Starts for JuliaChild_10:

(Start: 4 @4811 has 223 MA's), (Start: 6 @4829 has 1 MA's), (7, 4847), (8, 4889), (10, 4922), (15, 5015),

Gene: KBG_8 Start: 4702, Stop: 4959, Start Num: 4

Candidate Starts for KBG_8:

(Start: 4 @4702 has 223 MA's), (Start: 6 @4720 has 1 MA's), (7, 4738), (8, 4780), (10, 4813), (15, 4906),

Gene: KSSJEB_7 Start: 3811, Stop: 4068, Start Num: 4

Candidate Starts for KSSJEB_7:

(Start: 4 @3811 has 223 MA's), (Start: 6 @3829 has 1 MA's), (7, 3847), (9, 3898), (10, 3922), (15, 4015),

Gene: Kanely_9 Start: 4921, Stop: 5178, Start Num: 4

Candidate Starts for Kanely_9:

(Start: 4 @4921 has 223 MA's), (Start: 6 @4939 has 1 MA's), (7, 4957), (8, 4999), (10, 5032), (15, 5125),

Gene: Kenmech_9 Start: 4360, Stop: 4617, Start Num: 4

Candidate Starts for Kenmech_9:

(Start: 4 @4360 has 223 MA's), (Start: 6 @4378 has 1 MA's), (7, 4396), (9, 4447), (10, 4471), (15, 4564),

Gene: KikiBouba_9 Start: 4335, Stop: 4592, Start Num: 4

Candidate Starts for KikiBouba_9:

(Start: 4 @4335 has 223 MA's), (Start: 6 @4353 has 1 MA's), (7, 4371), (8, 4413), (15, 4539),

Gene: Killigrew_6 Start: 3786, Stop: 4043, Start Num: 4

Candidate Starts for Killigrew_6:

(Start: 4 @3786 has 223 MA's), (Start: 6 @3804 has 1 MA's), (7, 3822), (8, 3864), (10, 3897),

Gene: Kugel_9 Start: 4399, Stop: 4656, Start Num: 4

Candidate Starts for Kugel_9:

(3, 4360), (Start: 4 @4399 has 223 MA's), (Start: 6 @4417 has 1 MA's), (7, 4435), (8, 4477), (15, 4603), (18, 4624),

Gene: KyMonks1A_10 Start: 4655, Stop: 4912, Start Num: 4

Candidate Starts for KyMonks1A_10:

(Start: 4 @4655 has 223 MA's), (Start: 6 @4673 has 1 MA's), (7, 4691), (10, 4766), (15, 4859),

Gene: Kykar_6 Start: 3875, Stop: 4132, Start Num: 4

Candidate Starts for Kykar_6:

(Start: 4 @3875 has 223 MA's), (Start: 6 @3893 has 1 MA's), (7, 3911), (12, 4019), (13, 4046), (15, 4079),

Gene: Lamina13_8 Start: 3931, Stop: 4188, Start Num: 4

Candidate Starts for Lamina13_8:

(Start: 4 @3931 has 223 MA's), (Start: 6 @3949 has 1 MA's), (7, 3967), (8, 4009), (10, 4042), (15, 4135),

Gene: Lesedi_7 Start: 4090, Stop: 4347, Start Num: 4

Candidate Starts for Lesedi_7:

(Start: 4 @4090 has 223 MA's), (Start: 6 @4108 has 1 MA's), (7, 4126), (8, 4168), (9, 4177), (10, 4201), (15, 4294),

Gene: Levia_7 Start: 3809, Stop: 4066, Start Num: 4

Candidate Starts for Levia_7:

(Start: 4 @3809 has 223 MA's), (Start: 6 @3827 has 1 MA's), (7, 3845), (8, 3887), (10, 3920), (12, 3953), (15, 4013),

Gene: Licorice_10 Start: 4949, Stop: 5206, Start Num: 4

Candidate Starts for Licorice_10:

(Start: 4 @4949 has 223 MA's), (Start: 6 @4967 has 1 MA's), (7, 4985), (10, 5060), (15, 5153),

Gene: LilBib_7 Start: 4124, Stop: 4381, Start Num: 4

Candidate Starts for LilBib_7:

(Start: 4 @4124 has 223 MA's), (Start: 6 @4142 has 1 MA's), (7, 4160), (8, 4202), (15, 4328),

Gene: Lockley_8 Start: 4271, Stop: 4528, Start Num: 4

Candidate Starts for Lockley_8:

(Start: 4 @4271 has 223 MA's), (Start: 6 @4289 has 1 MA's), (7, 4307), (15, 4475),

Gene: Lopton_9 Start: 4676, Stop: 4933, Start Num: 4

Candidate Starts for Lopton_9:

(Start: 4 @4676 has 223 MA's), (Start: 6 @4694 has 1 MA's), (7, 4712), (9, 4763), (10, 4787), (15, 4880),

Gene: LunarLander_8 Start: 4078, Stop: 4335, Start Num: 4

Candidate Starts for LunarLander_8:

(Start: 4 @4078 has 223 MA's), (Start: 6 @4096 has 1 MA's), (7, 4114), (9, 4165), (10, 4189), (13, 4249), (15, 4282),

Gene: MPlant7149_7 Start: 3909, Stop: 4166, Start Num: 4

Candidate Starts for MPlant7149_7:

(Start: 4 @3909 has 223 MA's), (Start: 6 @3927 has 1 MA's), (7, 3945), (8, 3987), (15, 4113),

Gene: Magnar_8 Start: 4061, Stop: 4318, Start Num: 4

Candidate Starts for Magnar_8:

(Start: 4 @4061 has 223 MA's), (Start: 6 @4079 has 1 MA's), (7, 4097), (8, 4139), (15, 4265),

Gene: Magnito_7 Start: 3806, Stop: 4063, Start Num: 4

Candidate Starts for Magnito_7:

(Start: 4 @3806 has 223 MA's), (Start: 6 @3824 has 1 MA's), (7, 3842), (8, 3884), (12, 3950), (15, 4010),

Gene: Makemake_8 Start: 4516, Stop: 4773, Start Num: 4

Candidate Starts for Makemake_8:

(Start: 4 @4516 has 223 MA's), (Start: 6 @4534 has 1 MA's), (7, 4552), (8, 4594), (15, 4720),

Gene: Manatee_8 Start: 4005, Stop: 4262, Start Num: 4

Candidate Starts for Manatee_8:

(Start: 4 @4005 has 223 MA's), (Start: 6 @4023 has 1 MA's), (7, 4041), (8, 4083), (9, 4092), (10, 4116), (15, 4209),

Gene: Marcell_8 Start: 4266, Stop: 4523, Start Num: 4

Candidate Starts for Marcell_8:

(Start: 4 @4266 has 223 MA's), (Start: 6 @4284 has 1 MA's), (7, 4302), (15, 4470),

Gene: Marchy_7 Start: 3893, Stop: 4150, Start Num: 4

Candidate Starts for Marchy_7:

(Start: 4 @3893 has 223 MA's), (Start: 6 @3911 has 1 MA's), (7, 3929), (8, 3971), (10, 4004), (15, 4097),

Gene: Marco3_8 Start: 4559, Stop: 4816, Start Num: 4

Candidate Starts for Marco3_8:

(Start: 4 @4559 has 223 MA's), (Start: 6 @4577 has 1 MA's), (7, 4595), (9, 4646), (10, 4670), (15, 4763),

Gene: Marge_8 Start: 4287, Stop: 4544, Start Num: 4

Candidate Starts for Marge_8:

(Start: 4 @4287 has 223 MA's), (Start: 6 @4305 has 1 MA's), (7, 4323), (8, 4365), (10, 4398), (15, 4491),

Gene: Maroc7_7 Start: 4079, Stop: 4336, Start Num: 4

Candidate Starts for Maroc7_7:

(Start: 4 @4079 has 223 MA's), (Start: 6 @4097 has 1 MA's), (7, 4115), (8, 4157), (9, 4166), (15, 4283),

Gene: Marsha_8 Start: 4525, Stop: 4782, Start Num: 4

Candidate Starts for Marsha_8:

(Start: 4 @4525 has 223 MA's), (Start: 6 @4543 has 1 MA's), (7, 4561), (10, 4636), (15, 4729),

Gene: MaryBeth_8 Start: 4503, Stop: 4760, Start Num: 4

Candidate Starts for MaryBeth_8:

(Start: 4 @4503 has 223 MA's), (Start: 6 @4521 has 1 MA's), (7, 4539), (15, 4707),

Gene: McGuire_8 Start: 4048, Stop: 4305, Start Num: 4

Candidate Starts for McGuire_8:

(Start: 4 @4048 has 223 MA's), (Start: 6 @4066 has 1 MA's), (7, 4084), (8, 4126), (10, 4159),

Gene: McSinger_9 Start: 4464, Stop: 4721, Start Num: 4

Candidate Starts for McSinger_9:

(Start: 4 @4464 has 223 MA's), (Start: 6 @4482 has 1 MA's), (7, 4500), (10, 4575),

Gene: MetalQZJ_8 Start: 4503, Stop: 4760, Start Num: 4

Candidate Starts for MetalQZJ_8:

(Start: 4 @4503 has 223 MA's), (Start: 6 @4521 has 1 MA's), (7, 4539), (15, 4707),

Gene: Michley_8 Start: 4249, Stop: 4506, Start Num: 4

Candidate Starts for Michley_8:

(Start: 4 @4249 has 223 MA's), (Start: 6 @4267 has 1 MA's), (7, 4285), (10, 4360), (15, 4453),

Gene: MilleFeuille_7 Start: 3819, Stop: 4076, Start Num: 4

Candidate Starts for MilleFeuille_7:

(Start: 4 @3819 has 223 MA's), (Start: 6 @3837 has 1 MA's), (7, 3855), (8, 3897), (9, 3906), (10, 3930), (15, 4023),

Gene: Mkhuseleli_7 Start: 3908, Stop: 4165, Start Num: 4

Candidate Starts for Mkhuseleli_7:

(Start: 4 @3908 has 223 MA's), (Start: 6 @3926 has 1 MA's), (7, 3944), (10, 4019), (15, 4112),

Gene: Molly_9 Start: 4109, Stop: 4366, Start Num: 4

Candidate Starts for Molly_9:

(Start: 4 @4109 has 223 MA's), (Start: 6 @4127 has 1 MA's), (7, 4145), (10, 4220), (15, 4313),

Gene: Monet_8 Start: 4241, Stop: 4498, Start Num: 4

Candidate Starts for Monet_8:

(Start: 4 @4241 has 223 MA's), (Start: 6 @4259 has 1 MA's), (7, 4277), (8, 4319), (10, 4352), (15, 4445),

Gene: Moose_7 Start: 4342, Stop: 4599, Start Num: 4

Candidate Starts for Moose_7:

(Start: 4 @4342 has 223 MA's), (Start: 6 @4360 has 1 MA's), (7, 4378), (8, 4420), (10, 4453), (15, 4546),

Gene: MrGordo_8 Start: 4082, Stop: 4339, Start Num: 4

Candidate Starts for MrGordo_8:

(Start: 4 @4082 has 223 MA's), (Start: 6 @4100 has 1 MA's), (7, 4118), (9, 4169), (10, 4193), (15, 4286),

Gene: Mryolo_7 Start: 4091, Stop: 4348, Start Num: 4

Candidate Starts for Mryolo_7:

(Start: 4 @4091 has 223 MA's), (Start: 6 @4109 has 1 MA's), (7, 4127), (9, 4178), (10, 4202), (13, 4262), (15, 4295),

Gene: Mule_7 Start: 4167, Stop: 4424, Start Num: 4

Candidate Starts for Mule_7:

(Start: 4 @4167 has 223 MA's), (Start: 6 @4185 has 1 MA's), (7, 4203), (8, 4245), (10, 4278), (15, 4371),

Gene: Museum_9 Start: 3893, Stop: 4150, Start Num: 4

Candidate Starts for Museum_9:

(Start: 4 @3893 has 223 MA's), (Start: 6 @3911 has 1 MA's), (7, 3929), (8, 3971), (10, 4004), (15, 4097),

Gene: NEHalo_8 Start: 3903, Stop: 4160, Start Num: 4

Candidate Starts for NEHalo_8:

(Start: 4 @3903 has 223 MA's), (Start: 6 @3921 has 1 MA's), (7, 3939), (9, 3990), (10, 4014), (15, 4107),

Gene: Naira_8 Start: 4282, Stop: 4539, Start Num: 4

Candidate Starts for Naira_8:

(Start: 4 @4282 has 223 MA's), (Start: 6 @4300 has 1 MA's), (7, 4318), (9, 4369), (10, 4393), (15, 4486),

Gene: Nerujay_8 Start: 4196, Stop: 4453, Start Num: 4
Candidate Starts for Nerujay_8:
(Start: 4 @4196 has 223 MA's), (Start: 6 @4214 has 1 MA's), (7, 4232), (12, 4340), (15, 4400),

Gene: Nhonho_8 Start: 4199, Stop: 4456, Start Num: 4
Candidate Starts for Nhonho_8:
(Start: 4 @4199 has 223 MA's), (Start: 6 @4217 has 1 MA's), (7, 4235), (9, 4286), (10, 4310), (15, 4403), (18, 4424),

Gene: Niza_9 Start: 4915, Stop: 5172, Start Num: 4
Candidate Starts for Niza_9:
(Start: 4 @4915 has 223 MA's), (Start: 6 @4933 has 1 MA's), (7, 4951), (8, 4993), (15, 5119),

Gene: Norz_8 Start: 4277, Stop: 4534, Start Num: 4
Candidate Starts for Norz_8:
(Start: 4 @4277 has 223 MA's), (Start: 6 @4295 has 1 MA's), (7, 4313), (9, 4364), (10, 4388),

Gene: Noxious_9 Start: 4526, Stop: 4783, Start Num: 4
Candidate Starts for Noxious_9:
(Start: 4 @4526 has 223 MA's), (Start: 6 @4544 has 1 MA's), (7, 4562), (8, 4604), (15, 4730),

Gene: Ohno789_7 Start: 3752, Stop: 4009, Start Num: 4
Candidate Starts for Ohno789_7:
(Start: 4 @3752 has 223 MA's), (Start: 6 @3770 has 1 MA's), (7, 3788), (15, 3956),

Gene: Oogway_7 Start: 4323, Stop: 4580, Start Num: 4
Candidate Starts for Oogway_7:
(Start: 4 @4323 has 223 MA's), (Start: 6 @4341 has 1 MA's), (7, 4359), (8, 4401), (15, 4527),

Gene: PSullivan_10 Start: 4811, Stop: 5068, Start Num: 4
Candidate Starts for PSullivan_10:
(Start: 4 @4811 has 223 MA's), (Start: 6 @4829 has 1 MA's), (7, 4847), (8, 4889), (10, 4922), (15, 5015),

Gene: PacerPaul_8 Start: 4600, Stop: 4857, Start Num: 4
Candidate Starts for PacerPaul_8:
(Start: 4 @4600 has 223 MA's), (Start: 6 @4618 has 1 MA's), (7, 4636), (8, 4678), (15, 4804),

Gene: Papez_8 Start: 5014, Stop: 5271, Start Num: 4
Candidate Starts for Papez_8:
(Start: 4 @5014 has 223 MA's), (Start: 6 @5032 has 1 MA's), (7, 5050), (8, 5092), (9, 5101), (10, 5125), (15, 5218),

Gene: Paphu_7 Start: 3789, Stop: 4046, Start Num: 4
Candidate Starts for Paphu_7:
(Start: 4 @3789 has 223 MA's), (Start: 6 @3807 has 1 MA's), (7, 3825), (8, 3867), (13, 3960), (15, 3993),

Gene: Paraselene_7 Start: 4082, Stop: 4339, Start Num: 4
Candidate Starts for Paraselene_7:
(Start: 4 @4082 has 223 MA's), (Start: 6 @4100 has 1 MA's), (7, 4118), (9, 4169), (10, 4193), (15, 4286),

Gene: Pari_9 Start: 4547, Stop: 4804, Start Num: 4
Candidate Starts for Pari_9:
(Start: 4 @4547 has 223 MA's), (Start: 6 @4565 has 1 MA's), (7, 4583), (10, 4658), (15, 4751),

Gene: Parliament_7 Start: 4150, Stop: 4407, Start Num: 4
Candidate Starts for Parliament_7:
(Start: 4 @4150 has 223 MA's), (Start: 6 @4168 has 1 MA's), (7, 4186), (9, 4237), (10, 4261), (15, 4354),

Gene: PascalRango_7 Start: 3946, Stop: 4203, Start Num: 4
Candidate Starts for PascalRango_7:
(Start: 4 @3946 has 223 MA's), (Start: 6 @3964 has 1 MA's), (7, 3982), (10, 4057), (15, 4150),

Gene: PattyP_9 Start: 4104, Stop: 4361, Start Num: 4
Candidate Starts for PattyP_9:
(Start: 4 @4104 has 223 MA's), (Start: 6 @4122 has 1 MA's), (7, 4140), (9, 4191), (15, 4308),

Gene: Payneful_8 Start: 3893, Stop: 4150, Start Num: 4
Candidate Starts for Payneful_8:
(Start: 4 @3893 has 223 MA's), (Start: 6 @3911 has 1 MA's), (7, 3929), (8, 3971), (10, 4004), (15, 4097),

Gene: Pelly_9 Start: 4743, Stop: 5000, Start Num: 4
Candidate Starts for Pelly_9:
(Start: 4 @4743 has 223 MA's), (Start: 6 @4761 has 1 MA's), (7, 4779), (8, 4821), (10, 4854), (15, 4947),

Gene: Pepe_9 Start: 4766, Stop: 5023, Start Num: 4
Candidate Starts for Pepe_9:
(Start: 4 @4766 has 223 MA's), (Start: 6 @4784 has 1 MA's), (7, 4802), (8, 4844), (10, 4877), (15, 4970),

Gene: Perseus_9 Start: 4463, Stop: 4720, Start Num: 4
Candidate Starts for Perseus_9:
(Start: 4 @4463 has 223 MA's), (Start: 6 @4481 has 1 MA's), (7, 4499), (8, 4541), (10, 4574), (15, 4667),

Gene: Peterson_10 Start: 5586, Stop: 5843, Start Num: 4
Candidate Starts for Peterson_10:
(Start: 4 @5586 has 223 MA's), (Start: 6 @5604 has 1 MA's), (7, 5622), (10, 5697), (15, 5790),

Gene: Petp2012_10 Start: 4255, Stop: 4512, Start Num: 4
Candidate Starts for Petp2012_10:
(Start: 4 @4255 has 223 MA's), (Start: 6 @4273 has 1 MA's), (7, 4291), (10, 4366), (15, 4459),

Gene: Petruccio_8 Start: 4021, Stop: 4278, Start Num: 4
Candidate Starts for Petruccio_8:
(Start: 4 @4021 has 223 MA's), (Start: 6 @4039 has 1 MA's), (7, 4057), (13, 4192), (15, 4225),

Gene: PherrisBueller_9 Start: 4195, Stop: 4452, Start Num: 4
Candidate Starts for PherrisBueller_9:
(Start: 4 @4195 has 223 MA's), (Start: 6 @4213 has 1 MA's), (7, 4231), (10, 4306), (15, 4399),

Gene: PhineBark_6 Start: 3809, Stop: 4066, Start Num: 4
Candidate Starts for PhineBark_6:
(Start: 4 @3809 has 223 MA's), (Start: 6 @3827 has 1 MA's), (7, 3845), (8, 3887), (10, 3920), (12, 3953), (15, 4013),

Gene: Phlippers_7 Start: 4280, Stop: 4537, Start Num: 4
Candidate Starts for Phlippers_7:
(Start: 4 @4280 has 223 MA's), (Start: 6 @4298 has 1 MA's), (7, 4316), (8, 4358), (15, 4484),

Gene: PhrostyMug_7 Start: 4167, Stop: 4424, Start Num: 4
Candidate Starts for PhrostyMug_7:
(Start: 4 @4167 has 223 MA's), (Start: 6 @4185 has 1 MA's), (7, 4203), (8, 4245), (10, 4278), (15, 4371),

Gene: PinkPlastic_6 Start: 3810, Stop: 4067, Start Num: 4
Candidate Starts for PinkPlastic_6:
(Start: 4 @3810 has 223 MA's), (Start: 6 @3828 has 1 MA's), (7, 3846), (9, 3897), (10, 3921), (15, 4014),

Gene: Pinto_10 Start: 4453, Stop: 4710, Start Num: 4
Candidate Starts for Pinto_10:
(Start: 4 @4453 has 223 MA's), (Start: 6 @4471 has 1 MA's), (7, 4489), (10, 4564), (15, 4657),

Gene: Pippin_9 Start: 4152, Stop: 4409, Start Num: 4
Candidate Starts for Pippin_9:
(Start: 4 @4152 has 223 MA's), (Start: 6 @4170 has 1 MA's), (7, 4188), (8, 4230), (10, 4263), (15, 4356),

Gene: Pita2_10 Start: 4811, Stop: 5068, Start Num: 4
Candidate Starts for Pita2_10:
(Start: 4 @4811 has 223 MA's), (Start: 6 @4829 has 1 MA's), (7, 4847), (8, 4889), (10, 4922), (15, 5015),

Gene: PowerRanger_7 Start: 4075, Stop: 4332, Start Num: 4
Candidate Starts for PowerRanger_7:
(Start: 4 @4075 has 223 MA's), (Start: 6 @4093 has 1 MA's), (7, 4111), (8, 4153), (12, 4219), (15, 4279),

Gene: ProMouse_7 Start: 4736, Stop: 4993, Start Num: 4
Candidate Starts for ProMouse_7:
(Start: 4 @4736 has 223 MA's), (Start: 6 @4754 has 1 MA's), (7, 4772), (9, 4823), (10, 4847), (15, 4940),

Gene: Puppet_8 Start: 4415, Stop: 4672, Start Num: 4
Candidate Starts for Puppet_8:
(Start: 4 @4415 has 223 MA's), (Start: 6 @4433 has 1 MA's), (7, 4451), (9, 4502), (10, 4526), (15, 4619),

Gene: QTRlifeCrisis_7 Start: 4237, Stop: 4494, Start Num: 4
Candidate Starts for QTRlifeCrisis_7:
(Start: 4 @4237 has 223 MA's), (Start: 6 @4255 has 1 MA's), (7, 4273), (8, 4315), (10, 4348), (15, 4441),

Gene: Raid_8 Start: 4082, Stop: 4339, Start Num: 4
Candidate Starts for Raid_8:
(Start: 4 @4082 has 223 MA's), (Start: 6 @4100 has 1 MA's), (7, 4118), (10, 4193), (15, 4286),

Gene: Rajelicia_7 Start: 3950, Stop: 4207, Start Num: 4
Candidate Starts for Rajelicia_7:
(Start: 4 @3950 has 223 MA's), (Start: 6 @3968 has 1 MA's), (7, 3986), (8, 4028), (15, 4154),

Gene: Rhynn_8 Start: 4380, Stop: 4637, Start Num: 4
Candidate Starts for Rhynn_8:
(Start: 4 @4380 has 223 MA's), (Start: 6 @4398 has 1 MA's), (7, 4416), (10, 4491), (15, 4584),

Gene: RidgeCB_8 Start: 3909, Stop: 4166, Start Num: 4
Candidate Starts for RidgeCB_8:
(Start: 4 @3909 has 223 MA's), (Start: 6 @3927 has 1 MA's), (7, 3945), (8, 3987), (9, 3996), (10, 4020), (15, 4113),

Gene: Ringer_7 Start: 4389, Stop: 4646, Start Num: 4
Candidate Starts for Ringer_7:
(Start: 4 @4389 has 223 MA's), (Start: 6 @4407 has 1 MA's), (7, 4425), (8, 4467), (14, 4581), (15, 4593),

Gene: Rohr_9 Start: 4588, Stop: 4845, Start Num: 4
Candidate Starts for Rohr_9:
(Start: 4 @4588 has 223 MA's), (Start: 6 @4606 has 1 MA's), (7, 4624), (9, 4675), (10, 4699), (15, 4792),

Gene: Rubeus_8 Start: 3910, Stop: 4167, Start Num: 4
Candidate Starts for Rubeus_8:
(Start: 4 @3910 has 223 MA's), (Start: 6 @3928 has 1 MA's), (7, 3946), (8, 3988), (15, 4114),

Gene: Rufus_8 Start: 3967, Stop: 4224, Start Num: 4
Candidate Starts for Rufus_8:
(Start: 4 @3967 has 223 MA's), (Start: 6 @3985 has 1 MA's), (7, 4003), (9, 4054), (10, 4078), (15, 4171),

Gene: Ruotula_7 Start: 4528, Stop: 4785, Start Num: 4
Candidate Starts for Ruotula_7:
(Start: 4 @4528 has 223 MA's), (Start: 6 @4546 has 1 MA's), (7, 4564), (8, 4606), (10, 4639), (12, 4672), (15, 4732),

Gene: Rutherferd_9 Start: 4428, Stop: 4685, Start Num: 4
Candidate Starts for Rutherferd_9:
(Start: 4 @4428 has 223 MA's), (Start: 6 @4446 has 1 MA's), (7, 4464), (10, 4539), (15, 4632),

Gene: STLscum_9 Start: 4520, Stop: 4777, Start Num: 4
Candidate Starts for STLscum_9:
(Start: 4 @4520 has 223 MA's), (Start: 6 @4538 has 1 MA's), (7, 4556), (15, 4724),

Gene: Sagefire_9 Start: 5181, Stop: 5438, Start Num: 4
Candidate Starts for Sagefire_9:
(1, 4776), (2, 4818), (Start: 4 @5181 has 223 MA's), (Start: 6 @5199 has 1 MA's), (7, 5217), (8, 5259), (9, 5268), (12, 5325), (15, 5385),

Gene: Sandaddy_7 Start: 4304, Stop: 4561, Start Num: 4

Candidate Starts for Sandaddy_7:

(Start: 4 @4304 has 223 MA's), (Start: 6 @4322 has 1 MA's), (7, 4340), (8, 4382), (15, 4508),

Gene: Sanya_7 Start: 4966, Stop: 5223, Start Num: 4

Candidate Starts for Sanya_7:

(Start: 4 @4966 has 223 MA's), (Start: 6 @4984 has 1 MA's), (7, 5002), (8, 5044), (10, 5077), (15, 5170),

Gene: SarFire_8 Start: 4165, Stop: 4422, Start Num: 4

Candidate Starts for SarFire_8:

(Start: 4 @4165 has 223 MA's), (Start: 6 @4183 has 1 MA's), (7, 4201), (8, 4243), (9, 4252), (10, 4276), (15, 4369),

Gene: Scowl_9 Start: 4857, Stop: 5114, Start Num: 4

Candidate Starts for Scowl_9:

(Start: 4 @4857 has 223 MA's), (Start: 6 @4875 has 1 MA's), (7, 4893), (15, 5061),

Gene: Seabiscuit_9 Start: 4048, Stop: 4305, Start Num: 4

Candidate Starts for Seabiscuit_9:

(Start: 4 @4048 has 223 MA's), (Start: 6 @4066 has 1 MA's), (7, 4084), (8, 4126), (10, 4159),

Gene: Seanderson_9 Start: 4836, Stop: 5093, Start Num: 4

Candidate Starts for Seanderson_9:

(Start: 4 @4836 has 223 MA's), (Start: 6 @4854 has 1 MA's), (7, 4872), (8, 4914), (10, 4947), (15, 5040),

Gene: ShortQueendom_7 Start: 3762, Stop: 4019, Start Num: 4

Candidate Starts for ShortQueendom_7:

(Start: 4 @3762 has 223 MA's), (Start: 6 @3780 has 1 MA's), (7, 3798), (8, 3840), (10, 3873), (15, 3966),

Gene: Sibs6_9 Start: 4103, Stop: 4360, Start Num: 4

Candidate Starts for Sibs6_9:

(Start: 4 @4103 has 223 MA's), (Start: 6 @4121 has 1 MA's), (7, 4139), (8, 4181), (15, 4307),

Gene: SkiPole_10 Start: 4500, Stop: 4757, Start Num: 4

Candidate Starts for SkiPole_10:

(Start: 4 @4500 has 223 MA's), (Start: 6 @4518 has 1 MA's), (7, 4536), (15, 4704),

Gene: Slagathor_8 Start: 3921, Stop: 4178, Start Num: 4

Candidate Starts for Slagathor_8:

(Start: 4 @3921 has 223 MA's), (Start: 6 @3939 has 1 MA's), (7, 3957), (8, 3999), (10, 4032), (15, 4125),

Gene: Smairt_9 Start: 4776, Stop: 5033, Start Num: 4

Candidate Starts for Smairt_9:

(Start: 4 @4776 has 223 MA's), (Start: 6 @4794 has 1 MA's), (7, 4812), (8, 4854), (10, 4887), (15, 4980),

Gene: Smeagol_9 Start: 5215, Stop: 5472, Start Num: 4

Candidate Starts for Smeagol_9:

(Start: 4 @5215 has 223 MA's), (Start: 6 @5233 has 1 MA's), (7, 5251), (8, 5293), (10, 5326), (15, 5419),

Gene: Snazzy_6 Start: 3807, Stop: 4064, Start Num: 4

Candidate Starts for Snazzy_6:

(Start: 4 @3807 has 223 MA's), (Start: 6 @3825 has 1 MA's), (7, 3843), (8, 3885), (10, 3918), (15, 4011), (18, 4032),

Gene: Solon_7 Start: 4396, Stop: 4653, Start Num: 4

Candidate Starts for Solon_7:

(Start: 4 @4396 has 223 MA's), (Start: 6 @4414 has 1 MA's), (7, 4432), (8, 4474), (10, 4507), (15, 4600),

Gene: Sorpresa_8 Start: 4304, Stop: 4561, Start Num: 4

Candidate Starts for Sorpresa_8:

(Start: 4 @4304 has 223 MA's), (Start: 6 @4322 has 1 MA's), (7, 4340), (8, 4382), (15, 4508),

Gene: SpikeBT_8 Start: 4176, Stop: 4433, Start Num: 4

Candidate Starts for SpikeBT_8:

(Start: 4 @4176 has 223 MA's), (Start: 6 @4194 has 1 MA's), (7, 4212), (8, 4254), (15, 4380),

Gene: Squee_7 Start: 3903, Stop: 4160, Start Num: 4

Candidate Starts for Squee_7:

(Start: 4 @3903 has 223 MA's), (Start: 6 @3921 has 1 MA's), (7, 3939), (10, 4014), (15, 4107),

Gene: Stellammi_31 Start: 25638, Stop: 25910, Start Num: 5

Candidate Starts for Stellammi_31:

(Start: 5 @25638 has 1 MA's), (11, 25758), (15, 25836), (16, 25845), (17, 25848),

Gene: StewieG_7 Start: 4175, Stop: 4432, Start Num: 4

Candidate Starts for StewieG_7:

(Start: 4 @4175 has 223 MA's), (Start: 6 @4193 has 1 MA's), (7, 4211), (8, 4253), (10, 4286), (15, 4379),

Gene: StrongArm_7 Start: 4006, Stop: 4263, Start Num: 4

Candidate Starts for StrongArm_7:

(Start: 4 @4006 has 223 MA's), (Start: 6 @4024 has 1 MA's), (7, 4042), (8, 4084), (15, 4210),

Gene: Sumter_7 Start: 3899, Stop: 4156, Start Num: 4

Candidate Starts for Sumter_7:

(Start: 4 @3899 has 223 MA's), (Start: 6 @3917 has 1 MA's), (7, 3935), (9, 3986), (10, 4010), (15, 4103),

Gene: Sunshine924_7 Start: 3880, Stop: 4137, Start Num: 4

Candidate Starts for Sunshine924_7:

(Start: 4 @3880 has 223 MA's), (Start: 6 @3898 has 1 MA's), (7, 3916), (8, 3958), (10, 3991), (15, 4084),

Gene: SwissCheese_8 Start: 4342, Stop: 4599, Start Num: 4

Candidate Starts for SwissCheese_8:

(Start: 4 @4342 has 223 MA's), (Start: 6 @4360 has 1 MA's), (7, 4378), (8, 4420), (10, 4453), (15, 4546),

Gene: Switzer_8 Start: 3927, Stop: 4184, Start Num: 4

Candidate Starts for Switzer_8:

(Start: 4 @3927 has 223 MA's), (Start: 6 @3945 has 1 MA's), (7, 3963), (8, 4005), (9, 4014), (10, 4038), (15, 4131),

Gene: Swole_10 Start: 4811, Stop: 5068, Start Num: 4

Candidate Starts for Swole_10:

(Start: 4 @4811 has 223 MA's), (Start: 6 @4829 has 1 MA's), (7, 4847), (8, 4889), (10, 4922), (15, 5015),

Gene: Target_9 Start: 4599, Stop: 4856, Start Num: 4

Candidate Starts for Target_9:

(Start: 4 @4599 has 223 MA's), (Start: 6 @4617 has 1 MA's), (7, 4635), (8, 4677), (10, 4710),

Gene: Tasp14_9 Start: 4582, Stop: 4839, Start Num: 4

Candidate Starts for Tasp14_9:

(Start: 4 @4582 has 223 MA's), (Start: 6 @4600 has 1 MA's), (7, 4618), (9, 4669), (10, 4693), (15, 4786),

Gene: Teodoridan_6 Start: 3734, Stop: 3991, Start Num: 4

Candidate Starts for Teodoridan_6:

(Start: 4 @3734 has 223 MA's), (Start: 6 @3752 has 1 MA's), (7, 3770), (15, 3938),

Gene: TheloniousMonk_8 Start: 4227, Stop: 4484, Start Num: 4

Candidate Starts for TheloniousMonk_8:

(Start: 4 @4227 has 223 MA's), (Start: 6 @4245 has 1 MA's), (7, 4263), (8, 4305), (13, 4398), (15, 4431),

Gene: Thor_8 Start: 4165, Stop: 4422, Start Num: 4

Candidate Starts for Thor_8:

(Start: 4 @4165 has 223 MA's), (Start: 6 @4183 has 1 MA's), (7, 4201), (8, 4243), (9, 4252), (10, 4276), (15, 4369),

Gene: Topgun_8 Start: 4091, Stop: 4348, Start Num: 4

Candidate Starts for Topgun_8:

(Start: 4 @4091 has 223 MA's), (Start: 6 @4109 has 1 MA's), (7, 4127), (10, 4202), (15, 4295),

Gene: Tote_10 Start: 4811, Stop: 5068, Start Num: 4

Candidate Starts for Tote_10:

(Start: 4 @4811 has 223 MA's), (Start: 6 @4829 has 1 MA's), (7, 4847), (8, 4889), (10, 4922), (15, 5015),

Gene: Traft412_10 Start: 5016, Stop: 5255, Start Num: 6

Candidate Starts for Traft412_10:

(Start: 4 @4998 has 223 MA's), (Start: 6 @5016 has 1 MA's), (7, 5034), (8, 5076), (15, 5202),

Gene: Treddle_8 Start: 4242, Stop: 4499, Start Num: 4

Candidate Starts for Treddle_8:

(Start: 4 @4242 has 223 MA's), (Start: 6 @4260 has 1 MA's), (7, 4278), (8, 4320), (15, 4446),

Gene: Tripl3t_9 Start: 4993, Stop: 5250, Start Num: 4

Candidate Starts for Tripl3t_9:

(Start: 4 @4993 has 223 MA's), (Start: 6 @5011 has 1 MA's), (7, 5029), (9, 5080), (10, 5104), (13, 5164), (15, 5197),

Gene: Trouble_8 Start: 4642, Stop: 4899, Start Num: 4

Candidate Starts for Trouble_8:

(Start: 4 @4642 has 223 MA's), (Start: 6 @4660 has 1 MA's), (7, 4678), (8, 4720), (10, 4753), (15, 4846),

Gene: Turj99_7 Start: 4086, Stop: 4343, Start Num: 4

Candidate Starts for Turj99_7:

(Start: 4 @4086 has 223 MA's), (Start: 6 @4104 has 1 MA's), (7, 4122), (10, 4197), (15, 4290),

Gene: TwoPeat_9 Start: 4604, Stop: 4861, Start Num: 4

Candidate Starts for TwoPeat_9:

(Start: 4 @4604 has 223 MA's), (Start: 6 @4622 has 1 MA's), (7, 4640), (8, 4682), (10, 4715), (15, 4808),

Gene: U2_7 Start: 3929, Stop: 4186, Start Num: 4

Candidate Starts for U2_7:

(Start: 4 @3929 has 223 MA's), (Start: 6 @3947 has 1 MA's), (7, 3965), (8, 4007), (9, 4016), (10, 4040), (15, 4133),

Gene: Violet_7 Start: 3899, Stop: 4156, Start Num: 4

Candidate Starts for Violet_7:

(Start: 4 @3899 has 223 MA's), (Start: 6 @3917 has 1 MA's), (7, 3935), (8, 3977), (15, 4103),

Gene: Watermelon_10 Start: 5193, Stop: 5450, Start Num: 4

Candidate Starts for Watermelon_10:

(Start: 4 @5193 has 223 MA's), (Start: 6 @5211 has 1 MA's), (7, 5229), (8, 5271), (10, 5304), (15, 5397),

Gene: Wheeler_8 Start: 4359, Stop: 4616, Start Num: 4

Candidate Starts for Wheeler_8:

(Start: 4 @4359 has 223 MA's), (Start: 6 @4377 has 1 MA's), (7, 4395), (8, 4437), (10, 4470), (12, 4503), (15, 4563),

Gene: Whitspit_8 Start: 4401, Stop: 4658, Start Num: 4

Candidate Starts for Whitspit_8:

(Start: 4 @4401 has 223 MA's), (Start: 6 @4419 has 1 MA's), (7, 4437), (8, 4479), (10, 4512), (15, 4605),

Gene: Wilkins_8 Start: 4091, Stop: 4348, Start Num: 4

Candidate Starts for Wilkins_8:

(Start: 4 @4091 has 223 MA's), (Start: 6 @4109 has 1 MA's), (7, 4127), (10, 4202), (15, 4295),

Gene: Zeeculate_7 Start: 4054, Stop: 4311, Start Num: 4

Candidate Starts for Zeeculate_7:

(Start: 4 @4054 has 223 MA's), (Start: 6 @4072 has 1 MA's), (7, 4090), (8, 4132), (10, 4165), (15, 4258),

Gene: Zephyr_8 Start: 4197, Stop: 4454, Start Num: 4

Candidate Starts for Zephyr_8:

(Start: 4 @4197 has 223 MA's), (Start: 6 @4215 has 1 MA's), (7, 4233), (8, 4275), (15, 4401),

Gene: Zeuska_7 Start: 4121, Stop: 4378, Start Num: 4

Candidate Starts for Zeuska_7:

(Start: 4 @4121 has 223 MA's), (Start: 6 @4139 has 1 MA's), (7, 4157), (8, 4199), (10, 4232), (12, 4265), (15, 4325),