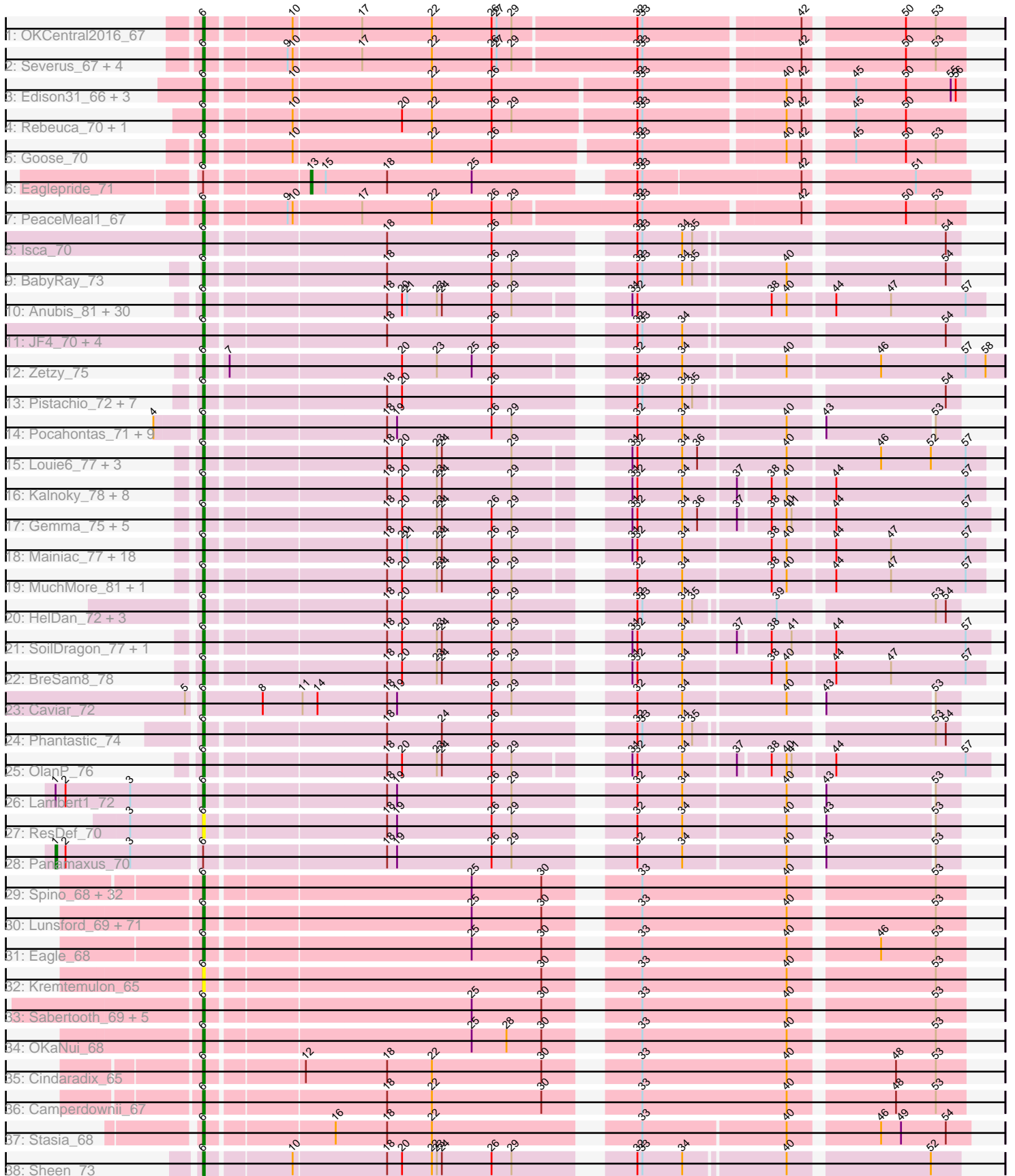


Pham 166427



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 166427 Report

This analysis was run 07/09/24 on database version 566.

Pham number 166427 has 243 members, 7 are drafts.

Phages represented in each track:

- Track 1 : OKCentral2016_67
- Track 2 : Severus_67, Poompha_66, Chupacabra_67, Drake94_67, KittenMittens_66
- Track 3 : Edison31_66, WalterMcMickey_68, Twister_68, Topanga_66
- Track 4 : Rebeuca_70, Kristoff_68
- Track 5 : Goose_70
- Track 6 : Eaglepride_71
- Track 7 : PeaceMeal1_67
- Track 8 : Isca_70
- Track 9 : BabyRay_73
- Track 10 : Anubis_81, Marie_76, JenCasNa_79, SoYo_75, Cullens_78, Ollie_78, Penny1_78, Soshari_80, Beauxregard13_77, MoneyMay_77, Hercules11_78, HashRod_79, Grif_76, Sabinator_76, Fernando_78, LugYA_81, Bxz2_73, AgronaGT15_75, EpicPhail_79, GinkgoMaracino_78, PotatoSplit_79, Phoxy_78, Farber_78, Grum1_77, Tiffany_77, Rummer_77, Spike509_78, Phoebe_79, P28Green_78, Taurus_79, Methuselah_71
- Track 11 : JF4_70, MA5_72, B1_64, Rockstar_71, JF2_70
- Track 12 : Zetzy_75
- Track 13 : Pistachio_72, SaturnRing_72, Idleandcovert_73, BlueBird_75, Bugatti_72, Puppy_73, TNguyen7_73, Giroux_71
- Track 14 : Pocahontas_71, Veracruz_69, QuinnKiro_71, Popcicle_72, Noella_72, Texage_70, Margo_72, Norbert_68, Hookmount_72, Todacoro_72
- Track 15 : Louie6_77, BuzzBuzz_72, KADY_75, Wooldri_80
- Track 16 : Kalnoky_78, JeppNRM_78, Pawn_76, Groupthink_78, Marius_78, Kalb97_78, ACFishhook_75, Heliosoles_75, PurpleHaze_77
- Track 17 : Gemma_75, HaveUMetTed_78, PhishRPhriends_74, Reba_73, Phranny_74, Manu_77
- Track 18 : Mainiac_77, Grub_76, Daishi_77, Pembroke_78, MarQuardt_78, StepMih_77, Sabia_76, Stagni_75, Microwolf_74, Vix_74, Watson_77, LarryKay_78, PGHhamlin_80, GtownJaz_78, Malinsilva_80, DaHudson_77, LBerry_79, Aglet_79, Dieselweasel_78
- Track 19 : MuchMore_81, AugsMagnumOpus_81
- Track 20 : HelDan_72, Scout_71, Heathen_72, Fred313_70
- Track 21 : SoilDragon_77, Jobu08_74
- Track 22 : BreSam8_78
- Track 23 : Caviar_72
- Track 24 : Phantastic_74

- Track 25 : OlanP_76
- Track 26 : Lambert1_72
- Track 27 : ResDef_70
- Track 28 : Panamaxus_70
- Track 29 : Spino_68, Eris_68, Maverick_68, Funston_68, Phacado_69, LochMonster_70, DirtyDunning_68, Iracema64_69, Houdini22_68, PeterPeter_69, Avle17_69, Kratak_68, Mazhar510_69, JoongJeon_68, Wander_69, Happiness_68, MeeZee_68, BangNhom_67, LHTSCC_71, Kyee_69, NotAPhaseMom_68, Cerulean_70, Palestino_68, JetBlade_69, SheldonCooper_69, Cocoaberry_69, Nemo27_68, ChampagnePapi_71, Gadost_69, Phighter1804_69, Obama12_70, Ulysses_68, Tinybot_68
- Track 30 : Lunsford_69, Kingmustik0402_69, Medusa_69, Kampy_68, Phontbonne_69, Blackmoor_68, Lorenzo_69, Skipitt_68, Eros_69, Shaka_67, Iceman_68, Clarenza_68, Morrow_70, Burger_67, NorthStar_67, Pumbaa_69, Baby16_69, Ohfah_70, BubbleTrouble_68, Citius_69, Felipe_70, Deano_66, Abdiel_69, Cintron_69, Bruiser_68, Taquarus_68, Alberto7_70, Roosevelt_67, TroyPia_70, Peaches_67, KFPoly_68, TinaFeyge_67, Nyxis_68, Connomayer_69, LeoAvram_68, Commander_67, Polymorphads_69, Melvin_71, Eapen_69, Ruin_69, Jaykayelowell_66, Koreni_68, Scamp_69, Florean_69, LappelDuVide_65, ICleared_68, Dhanush_69, Wilbur_69, Bombshell_69, LittleB_69, Millski_68, Relief_68, Flux_69, Romney_68, Annyong_68, Arturo_66, Maxo_70, CentreCat_69, Druantia_68, Caelakin_68, Albee_69, TygerBlood_69, LittleGuy_69, Holli_68, Eurydice_70, BellusTerra_70, Bartimeaus_69, Nebs_70, Thanksgivukkah_68, Chaph_69, Lemur_69, TiroTheta9_68
- Track 31 : Eagle_68
- Track 32 : Kremtemulon_65
- Track 33 : Sabertooth_69, HamSlice_65, Broseidon_69, YoSam321_69, Pipcraft_66, Sparxx_70
- Track 34 : OKaNui_68
- Track 35 : Cindaradix_65
- Track 36 : Camperdownii_67
- Track 37 : Stasia_68
- Track 38 : Sheen_73

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 234 of the 236 non-draft genes in the pham.

Genes that call this "Most Annotated" start:

- ACFishhook_75, Abdiel_69, Aglet_79, AgronaGT15_75, Albee_69, Alberto7_70, Annyong_68, Anubis_81, Arturo_66, AugsMagnumOpus_81, Avle17_69, B1_64, Baby16_69, BabyRay_73, BangNhom_67, Bartimeaus_69, Beauxregard13_77, BellusTerra_70, Blackmoor_68, BlueBird_75, Bombshell_69, BreSam8_78, Broseidon_69, Bruiser_68, BubbleTrouble_68, Bugatti_72, Burger_67, BuzzBuzz_72, Bxz2_73, Caelakin_68, Camperdownii_67, Caviar_72, CentreCat_69, Cerulean_70, ChampagnePapi_71, Chaph_69, Chupacabra_67, Cindaradix_65, Cintron_69, Citius_69, Clarenza_68, Cocoaberry_69, Commander_67, Connomayer_69, Cullens_78, DaHudson_77, Daishi_77, Deano_66, Dhanush_69, Dieselweasel_78, DirtyDunning_68, Drake94_67, Druantia_68, Eagle_68, Eapen_69, Edison31_66,

EpicPhail_79, Eris_68, Eros_69, Eurydice_70, Farber_78, Fernando_78, Florean_69, Flux_69, Fred313_70, Funston_68, Gadost_69, Gemma_75, GingkoMaracino_78, Giroux_71, Goose_70, Grif_76, Groupthink_78, Grub_76, Grum1_77, GtownJaz_78, HamSlice_65, Happiness_68, HashRod_79, HaveUMetTed_78, Heathen_72, HelDan_72, Heliosoles_75, Hercules11_78, Holli_68, Hookmount_72, Houdini22_68, ICleared_68, Iceman_68, Idleandcovert_73, Iracema64_69, Isca_70, JF2_70, JF4_70, Jaykayelowell_66, JenCasNa_79, JeppNRM_78, JetBlade_69, Jobu08_74, JoongJeon_68, KADY_75, KFPoly_68, Kalb97_78, Kalnoky_78, Kampy_68, Kingmustik0402_69, KittenMittens_66, Koreni_68, Kratark_68, Kremtemulon_65, Kristoff_68, Kyee_69, LBerry_79, LHTSCC_71, Lambert1_72, LappelDuVide_65, LarryKay_78, Lemur_69, LeoAvram_68, LittleB_69, LittleGuy_69, LochMonster_70, Lorenzo_69, Louie6_77, LugYA_81, Lunsford_69, MA5_72, Mainiac_77, Malinsilva_80, Manu_77, MarQuardt_78, Margo_72, Marie_76, Marius_78, Maverick_68, Maxo_70, Mazhar510_69, Medusa_69, MeeZee_68, Melvin_71, Methuselah_71, Microwolf_74, Millski_68, MoneyMay_77, Morrow_70, MuchMore_81, Nebs_70, Nemo27_68, Noella_72, Norbert_68, NorthStar_67, NotAPhaseMom_68, Nyxis_68, OKCentral2016_67, OKaNui_68, Obama12_70, Ohfah_70, OlanP_76, Ollie_78, P28Green_78, PGHhamlin_80, Palestino_68, Pawn_76, PeaceMeal1_67, Peaches_67, Pembroke_78, Penny1_78, PeterPeter_69, Phacado_69, Phantastic_74, Felipe_70, Phighter1804_69, PhishRPhriends_74, Phoebe_79, Phontbonne_69, Phoxy_78, Phranny_74, Pipcraft_66, Pistachio_72, Pocahontas_71, Polymorphads_69, Poompha_66, Popcicle_72, PotatoSplit_79, Pumbaa_69, Puppy_73, PurpleHaze_77, QuinnKiro_71, Reba_73, Rebeuca_70, Relief_68, ResDef_70, Rockstar_71, Romney_68, Roosevelt_67, Ruin_69, Rummer_77, Sabertooth_69, Sabia_76, Sabinator_76, SaturnRing_72, Scamp_69, Scout_71, Severus_67, Shaka_67, Sheen_73, SheldonCooper_69, Skipitt_68, SoYo_75, SoilDragon_77, Soshari_80, Sparxx_70, Spike509_78, Spino_68, Stagni_75, Stasia_68, StepMih_77, TNguyen7_73, Taquarus_68, Taurus_79, Texage_70, Thanksgivukkah_68, Tiffany_77, TinaFeyge_67, Tinybot_68, TiroTheta9_68, Todacoro_72, Topanga_66, TroyPia_70, Twister_68, TygerBlood_69, Ulysses_68, Veracruz_69, Vix_74, WalterMcMickey_68, Wander_69, Watson_77, Wilbur_69, Wooldri_80, YoSam321_69, Zetzy_75,

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

- Eaglepride_71, Panamaxus_70,

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

-

Summary by start number:

Start 1:

- Found in 2 of 243 (0.8%) of genes in pham
- Manual Annotations of this start: 1 of 236
- Called 50.0% of time when present
- Phage (with cluster) where this start called: Panamaxus_70 (A3),

Start 6:

- Found in 243 of 243 (100.0%) of genes in pham
- Manual Annotations of this start: 234 of 236
- Called 99.2% of time when present
- Phage (with cluster) where this start called: ACFishhook_75 (A3), Abdiel_69 (A4), Aglet_79 (A3), AgronaGT15_75 (A3), Albee_69 (A4), Alberto7_70 (A4), Annyong_68

(A4), Anubis_81 (A3), Arturo_66 (A4), AugsMagnumOpus_81 (A3), Avle17_69 (A4), B1_64 (A3), Baby16_69 (A4), BabyRay_73 (A3), BangNhom_67 (A4), Bartimeaus_69 (A4), Beauxregard13_77 (A3), BellusTerra_70 (A4), Blackmoor_68 (A4), BlueBird_75 (A3), Bombshell_69 (A4), BreSam8_78 (A3), Broseidon_69 (A4), Bruiser_68 (A4), BubbleTrouble_68 (A4), Bugatti_72 (A3), Burger_67 (A4), BuzzBuzz_72 (A3), Bxz2_73 (A3), Caelakin_68 (A4), Camperdownii_67 (A4), Caviar_72 (A3), CentreCat_69 (A4), Cerulean_70 (A4), ChampagnePapi_71 (A4), Chaph_69 (A4), Chupacabra_67 (A10), Cindaradix_65 (A4), Cintron_69 (A4), Citius_69 (A4), Clarenza_68 (A4), Cocoaberry_69 (A4), Commander_67 (A4), Connomayer_69 (A4), Cullens_78 (A3), DaHudson_77 (A3), Daishi_77 (A3), Deano_66 (A4), Dhanush_69 (A4), Dieselweasel_78 (A3), DirtyDunning_68 (A4), Drake94_67 (A10), Druantia_68 (A4), Eagle_68 (A4), Eapen_69 (A4), Edison31_66 (A10), EpicPhail_79 (A3), Eris_68 (A4), Eros_69 (A4), Eurydice_70 (A4), Farber_78 (A3), Fernando_78 (A3), Florean_69 (A4), Flux_69 (A4), Fred313_70 (A3), Funston_68 (A4), Gadost_69 (A4), Gemma_75 (A3), GingkoMaracino_78 (A3), Giroux_71 (A3), Goose_70 (A10), Grif_76 (A3), Groupthink_78 (A3), Grub_76 (A3), Grum1_77 (A3), GtownJaz_78 (A3), HamSlice_65 (A4), Happiness_68 (A4), HashRod_79 (A3), HaveUMetTed_78 (A3), Heathen_72 (A3), HelDan_72 (A3), Heliosoles_75 (A3), Hercules11_78 (A3), Holli_68 (A4), Hookmount_72 (A3), Houdini22_68 (A4), ICleared_68 (A4), Iceman_68 (A4), Idleandcovert_73 (A3), Iracema64_69 (A4), Isca_70 (A3), JF2_70 (A3), JF4_70 (A3), Jaykayelowell_66 (A4), JenCasNa_79 (A3), JeppNRM_78 (A3), JetBlade_69 (A4), Jobu08_74 (A3), JoongJeon_68 (A4), KADY_75 (A3), KFPoly_68 (A4), Kalb97_78 (A3), Kalnoky_78 (A3), Kampy_68 (A4), Kingmustik0402_69 (A4), KittenMittens_66 (A10), Koreni_68 (A4), Kratak_68 (A4), Kremtemulon_65 (A4), Kristoff_68 (A10), Kyee_69 (A4), LBerry_79 (A3), LHTSCC_71 (A4), Lambert1_72 (A3), LappelDuVide_65 (A4), LarryKay_78 (A3), Lemur_69 (A4), LeoAvram_68 (A4), LittleB_69 (A4), LittleGuy_69 (A4), LochMonster_70 (A4), Lorenzo_69 (A4), Louie6_77 (A3), LugYA_81 (A3), Lunsford_69 (A4), MA5_72 (A3), Mainiac_77 (A3), Malinsilva_80 (A3), Manu_77 (A3), MarQuardt_78 (A3), Margo_72 (A3), Marie_76 (A3), Marius_78 (A3), Maverick_68 (A4), Maxo_70 (A4), Mazhar510_69 (A4), Medusa_69 (A4), MeeZee_68 (A4), Melvin_71 (A4), Methuselah_71 (A3), Microwolf_74 (A3), Millski_68 (A4), MoneyMay_77 (A3), Morrow_70 (A4), MuchMore_81 (A3), Nebs_70 (A4), Nemo27_68 (A4), Noella_72 (A3), Norbert_68 (A3), NorthStar_67 (A4), NotAPhaseMom_68 (A4), Nyxis_68 (A4), OKCentral2016_67 (A10), OKaNui_68 (A4), Obama12_70 (A4), Ohfah_70 (A4), OlanP_76 (A3), Ollie_78 (A3), P28Green_78 (A3), PGHhamlin_80 (A3), Palestino_68 (A4), Pawn_76 (A3), PeaceMeal1_67 (A10), Peaches_67 (A4), Pembroke_78 (A3), Penny1_78 (A3), PeterPeter_69 (A4), Phacado_69 (A4), Phantastic_74 (A3), Phelipe_70 (A4), Phighter1804_69 (A4), PhishRPhriends_74 (A3), Phoebe_79 (A3), Phontbonne_69 (A4), Phoxy_78 (A3), Phranny_74 (A3), Pipcraft_66 (A4), Pistachio_72 (A3), Pocahontas_71 (A3), Polymorphads_69 (A4), Poompha_66 (A10), Popcicle_72 (A3), PotatoSplit_79 (A3), Pumbaa_69 (A4), Puppy_73 (A3), PurpleHaze_77 (A3), QuinnKiro_71 (A3), Reba_73 (A3), Rebeuca_70 (A10), Relief_68 (A4), ResDef_70 (A3), Rockstar_71 (A3), Romney_68 (A4), Roosevelt_67 (A4), Ruin_69 (A4), Rummer_77 (A3), Sabertooth_69 (A4), Sabia_76 (A3), Sabinator_76 (A3), SaturnRing_72 (A3), Scamp_69 (A4), Scout_71 (A3), Severus_67 (A10), Shaka_67 (A4), Sheen_73 (A7), SheldonCooper_69 (A4), Skipitt_68 (A4), SoYo_75 (A3), SoilDragon_77 (A3), Soshari_80 (A3), Sparxx_70 (A4), Spike509_78 (A3), Spino_68 (A4), Stagni_75 (A3), Stasia_68 (A4), StepMih_77 (A3), TNguyen7_73 (A3), Taquarus_68 (A4), Taurus_79 (A3), Texage_70 (A3), Thanksgivukkah_68 (A4), Tiffany_77 (A3), TinaFeyge_67 (A4), Tinybot_68 (A4), TiroTheta9_68 (A4), Todacoro_72 (A3), Topanga_66 (A10), TroyPia_70 (A4), Twister_68 (A10), TygerBlood_69 (A4), Ulysses_68 (A4), Veracruz_69 (A3), Vix_74

(A3), WalterMcMickey_68 (A10), Wander_69 (A4), Watson_77 (A3), Wilbur_69 (A4), Wooldri_80 (A3), YoSam321_69 (A4), Zetzy_75 (A3),

Start 13:

- Found in 1 of 243 (0.4%) of genes in pham
- Manual Annotations of this start: 1 of 236
- Called 100.0% of time when present
- Phage (with cluster) where this start called: Eaglepride_71 (A10),

Summary by clusters:

There are 4 clusters represented in this pham: A3, A10, A7, A4,

Info for manual annotations of cluster A10:

- Start number 6 was manually annotated 14 times for cluster A10.
- Start number 13 was manually annotated 1 time for cluster A10.

Info for manual annotations of cluster A3:

- Start number 1 was manually annotated 1 time for cluster A3.
- Start number 6 was manually annotated 104 times for cluster A3.

Info for manual annotations of cluster A4:

- Start number 6 was manually annotated 115 times for cluster A4.

Info for manual annotations of cluster A7:

- Start number 6 was manually annotated 1 time for cluster A7.

Gene Information:

Gene: ACFishhook_75 Start: 44366, Stop: 43935, Start Num: 6

Candidate Starts for ACFishhook_75:

(Start: 6 @44366 has 234 MA's), (18, 44264), (20, 44255), (23, 44234), (24, 44231), (29, 44189), (31, 44138), (32, 44135), (34, 44108), (37, 44078), (38, 44060), (40, 44051), (44, 44024), (57, 43946),

Gene: Abdiel_69 Start: 43590, Stop: 43168, Start Num: 6

Candidate Starts for Abdiel_69:

(Start: 6 @43590 has 234 MA's), (25, 43437), (30, 43395), (33, 43353), (40, 43266), (53, 43185),

Gene: Aglet_79 Start: 44481, Stop: 44047, Start Num: 6

Candidate Starts for Aglet_79:

(Start: 6 @44481 has 234 MA's), (18, 44379), (20, 44370), (21, 44367), (23, 44349), (24, 44346), (26, 44316), (29, 44304), (31, 44253), (32, 44250), (34, 44223), (38, 44172), (40, 44163), (44, 44136), (47, 44103), (57, 44058),

Gene: AgronaGT15_75 Start: 44329, Stop: 43895, Start Num: 6

Candidate Starts for AgronaGT15_75:

(Start: 6 @44329 has 234 MA's), (18, 44227), (20, 44218), (21, 44215), (23, 44197), (24, 44194), (26, 44164), (29, 44152), (31, 44101), (32, 44098), (38, 44020), (40, 44011), (44, 43984), (47, 43951), (57, 43906),

Gene: Albee_69 Start: 43577, Stop: 43155, Start Num: 6

Candidate Starts for Albee_69:

(Start: 6 @43577 has 234 MA's), (25, 43424), (30, 43382), (33, 43340), (40, 43253), (53, 43172),

Gene: Alberto7_70 Start: 43914, Stop: 43492, Start Num: 6

Candidate Starts for Alberto7_70:

(Start: 6 @43914 has 234 MA's), (25, 43761), (30, 43719), (33, 43677), (40, 43590), (53, 43509),

Gene: Annyong_68 Start: 43622, Stop: 43200, Start Num: 6

Candidate Starts for Annyong_68:

(Start: 6 @43622 has 234 MA's), (25, 43469), (30, 43427), (33, 43385), (40, 43298), (53, 43217),

Gene: Anubis_81 Start: 44367, Stop: 43933, Start Num: 6

Candidate Starts for Anubis_81:

(Start: 6 @44367 has 234 MA's), (18, 44265), (20, 44256), (21, 44253), (23, 44235), (24, 44232), (26, 44202), (29, 44190), (31, 44139), (32, 44136), (38, 44058), (40, 44049), (44, 44022), (47, 43989), (57, 43944),

Gene: Arturo_66 Start: 43704, Stop: 43282, Start Num: 6

Candidate Starts for Arturo_66:

(Start: 6 @43704 has 234 MA's), (25, 43551), (30, 43509), (33, 43467), (40, 43380), (53, 43299),

Gene: AugsMagnumOpus_81 Start: 44472, Stop: 44038, Start Num: 6

Candidate Starts for AugsMagnumOpus_81:

(Start: 6 @44472 has 234 MA's), (18, 44370), (20, 44361), (23, 44340), (24, 44337), (26, 44307), (29, 44295), (32, 44241), (34, 44214), (38, 44163), (40, 44154), (44, 44127), (47, 44094), (57, 44049),

Gene: Avle17_69 Start: 43574, Stop: 43152, Start Num: 6

Candidate Starts for Avle17_69:

(Start: 6 @43574 has 234 MA's), (25, 43421), (30, 43379), (33, 43337), (40, 43250), (53, 43169),

Gene: B1_64 Start: 42264, Stop: 41851, Start Num: 6

Candidate Starts for B1_64:

(Start: 6 @42264 has 234 MA's), (18, 42162), (26, 42099), (32, 42030), (33, 42027), (34, 42003), (54, 41859),

Gene: Baby16_69 Start: 43588, Stop: 43166, Start Num: 6

Candidate Starts for Baby16_69:

(Start: 6 @43588 has 234 MA's), (25, 43435), (30, 43393), (33, 43351), (40, 43264), (53, 43183),

Gene: BabyRay_73 Start: 44020, Stop: 43607, Start Num: 6

Candidate Starts for BabyRay_73:

(Start: 6 @44020 has 234 MA's), (18, 43918), (26, 43855), (29, 43843), (32, 43786), (33, 43783), (34, 43759), (35, 43753), (40, 43702), (54, 43615),

Gene: BangNhom_67 Start: 44016, Stop: 43594, Start Num: 6

Candidate Starts for BangNhom_67:

(Start: 6 @44016 has 234 MA's), (25, 43863), (30, 43821), (33, 43779), (40, 43692), (53, 43611),

Gene: Bartimeaus_69 Start: 43579, Stop: 43157, Start Num: 6

Candidate Starts for Bartimeaus_69:

(Start: 6 @43579 has 234 MA's), (25, 43426), (30, 43384), (33, 43342), (40, 43255), (53, 43174),

Gene: Beauxregard13_77 Start: 44484, Stop: 44050, Start Num: 6

Candidate Starts for Beauxregard13_77:

(Start: 6 @44484 has 234 MA's), (18, 44382), (20, 44373), (21, 44370), (23, 44352), (24, 44349), (26, 44319), (29, 44307), (31, 44256), (32, 44253), (38, 44175), (40, 44166), (44, 44139), (47, 44106), (57, 44061),

Gene: BellusTerra_70 Start: 43617, Stop: 43195, Start Num: 6

Candidate Starts for BellusTerra_70:

(Start: 6 @43617 has 234 MA's), (25, 43464), (30, 43422), (33, 43380), (40, 43293), (53, 43212),

Gene: Blackmoor_68 Start: 43579, Stop: 43157, Start Num: 6

Candidate Starts for Blackmoor_68:

(Start: 6 @43579 has 234 MA's), (25, 43426), (30, 43384), (33, 43342), (40, 43255), (53, 43174),

Gene: BlueBird_75 Start: 44091, Stop: 43678, Start Num: 6

Candidate Starts for BlueBird_75:

(Start: 6 @44091 has 234 MA's), (18, 43989), (20, 43980), (26, 43926), (32, 43857), (33, 43854), (34, 43830), (35, 43824), (54, 43686),

Gene: Bombshell_69 Start: 43574, Stop: 43152, Start Num: 6

Candidate Starts for Bombshell_69:

(Start: 6 @43574 has 234 MA's), (25, 43421), (30, 43379), (33, 43337), (40, 43250), (53, 43169),

Gene: BreSam8_78 Start: 44474, Stop: 44040, Start Num: 6

Candidate Starts for BreSam8_78:

(Start: 6 @44474 has 234 MA's), (18, 44372), (20, 44363), (23, 44342), (24, 44339), (26, 44309), (29, 44297), (31, 44246), (32, 44243), (34, 44216), (38, 44165), (40, 44156), (44, 44129), (47, 44096), (57, 44051),

Gene: Broseidon_69 Start: 43579, Stop: 43157, Start Num: 6

Candidate Starts for Broseidon_69:

(Start: 6 @43579 has 234 MA's), (25, 43426), (30, 43384), (33, 43342), (40, 43255), (53, 43174),

Gene: Bruiser_68 Start: 43577, Stop: 43155, Start Num: 6

Candidate Starts for Bruiser_68:

(Start: 6 @43577 has 234 MA's), (25, 43424), (30, 43382), (33, 43340), (40, 43253), (53, 43172),

Gene: BubbleTrouble_68 Start: 43604, Stop: 43182, Start Num: 6

Candidate Starts for BubbleTrouble_68:

(Start: 6 @43604 has 234 MA's), (25, 43451), (30, 43409), (33, 43367), (40, 43280), (53, 43199),

Gene: Bugatti_72 Start: 44091, Stop: 43678, Start Num: 6

Candidate Starts for Bugatti_72:

(Start: 6 @44091 has 234 MA's), (18, 43989), (20, 43980), (26, 43926), (32, 43857), (33, 43854), (34, 43830), (35, 43824), (54, 43686),

Gene: Burger_67 Start: 43577, Stop: 43155, Start Num: 6

Candidate Starts for Burger_67:

(Start: 6 @43577 has 234 MA's), (25, 43424), (30, 43382), (33, 43340), (40, 43253), (53, 43172),

Gene: BuzzBuzz_72 Start: 44508, Stop: 44074, Start Num: 6

Candidate Starts for BuzzBuzz_72:

(Start: 6 @44508 has 234 MA's), (18, 44406), (20, 44397), (23, 44376), (24, 44373), (29, 44331), (31, 44280), (32, 44277), (34, 44250), (36, 44241), (40, 44190), (46, 44136), (52, 44106), (57, 44085),

Gene: Bxz2_73 Start: 44515, Stop: 44081, Start Num: 6

Candidate Starts for Bxz2_73:

(Start: 6 @44515 has 234 MA's), (18, 44413), (20, 44404), (21, 44401), (23, 44383), (24, 44380), (26, 44350), (29, 44338), (31, 44287), (32, 44284), (38, 44206), (40, 44197), (44, 44170), (47, 44137), (57, 44092),

Gene: Caelakin_68 Start: 43577, Stop: 43155, Start Num: 6

Candidate Starts for Caelakin_68:

(Start: 6 @43577 has 234 MA's), (25, 43424), (30, 43382), (33, 43340), (40, 43253), (53, 43172),

Gene: Camperdownii_67 Start: 43251, Stop: 42829, Start Num: 6

Candidate Starts for Camperdownii_67:

(Start: 6 @43251 has 234 MA's), (18, 43149), (22, 43122), (30, 43056), (33, 43014), (40, 42927), (48, 42870), (53, 42846),

Gene: Caviar_72 Start: 44057, Stop: 43635, Start Num: 6

Candidate Starts for Caviar_72:

(5, 44063), (Start: 6 @44057 has 234 MA's), (8, 44021), (11, 43997), (14, 43988), (18, 43946), (19, 43940), (26, 43883), (29, 43871), (32, 43814), (34, 43787), (40, 43727), (43, 43712), (53, 43649),

Gene: CentreCat_69 Start: 43616, Stop: 43194, Start Num: 6

Candidate Starts for CentreCat_69:

(Start: 6 @43616 has 234 MA's), (25, 43463), (30, 43421), (33, 43379), (40, 43292), (53, 43211),

Gene: Cerulean_70 Start: 44017, Stop: 43595, Start Num: 6

Candidate Starts for Cerulean_70:

(Start: 6 @44017 has 234 MA's), (25, 43864), (30, 43822), (33, 43780), (40, 43693), (53, 43612),

Gene: ChampagnePapi_71 Start: 44016, Stop: 43594, Start Num: 6

Candidate Starts for ChampagnePapi_71:

(Start: 6 @44016 has 234 MA's), (25, 43863), (30, 43821), (33, 43779), (40, 43692), (53, 43611),

Gene: Chaph_69 Start: 43588, Stop: 43166, Start Num: 6

Candidate Starts for Chaph_69:

(Start: 6 @43588 has 234 MA's), (25, 43435), (30, 43393), (33, 43351), (40, 43264), (53, 43183),

Gene: Chupacabra_67 Start: 43379, Stop: 42948, Start Num: 6

Candidate Starts for Chupacabra_67:

(Start: 6 @43379 has 234 MA's), (9, 43334), (10, 43331), (17, 43292), (22, 43250), (26, 43214), (27, 43211), (29, 43202), (32, 43130), (33, 43127), (42, 43037), (50, 42983), (53, 42965),

Gene: Cindaradix_65 Start: 43479, Stop: 43057, Start Num: 6

Candidate Starts for Cindaradix_65:

(Start: 6 @43479 has 234 MA's), (12, 43425), (18, 43377), (22, 43350), (30, 43284), (33, 43242), (40, 43155), (48, 43098), (53, 43074),

Gene: Cintron_69 Start: 43727, Stop: 43305, Start Num: 6

Candidate Starts for Cintron_69:

(Start: 6 @43727 has 234 MA's), (25, 43574), (30, 43532), (33, 43490), (40, 43403), (53, 43322),

Gene: Citius_69 Start: 43598, Stop: 43176, Start Num: 6

Candidate Starts for Citius_69:

(Start: 6 @43598 has 234 MA's), (25, 43445), (30, 43403), (33, 43361), (40, 43274), (53, 43193),

Gene: Clarenza_68 Start: 43574, Stop: 43152, Start Num: 6

Candidate Starts for Clarenza_68:

(Start: 6 @43574 has 234 MA's), (25, 43421), (30, 43379), (33, 43337), (40, 43250), (53, 43169),

Gene: Cocoaberry_69 Start: 43581, Stop: 43159, Start Num: 6

Candidate Starts for Cocoaberry_69:

(Start: 6 @43581 has 234 MA's), (25, 43428), (30, 43386), (33, 43344), (40, 43257), (53, 43176),

Gene: Commander_67 Start: 43576, Stop: 43154, Start Num: 6

Candidate Starts for Commander_67:

(Start: 6 @43576 has 234 MA's), (25, 43423), (30, 43381), (33, 43339), (40, 43252), (53, 43171),

Gene: Connomayer_69 Start: 43577, Stop: 43155, Start Num: 6

Candidate Starts for Connomayer_69:

(Start: 6 @43577 has 234 MA's), (25, 43424), (30, 43382), (33, 43340), (40, 43253), (53, 43172),

Gene: Cullens_78 Start: 44483, Stop: 44046, Start Num: 6

Candidate Starts for Cullens_78:

(Start: 6 @44483 has 234 MA's), (18, 44381), (20, 44372), (21, 44369), (23, 44351), (24, 44348), (26, 44318), (29, 44306), (31, 44252), (32, 44249), (38, 44171), (40, 44162), (44, 44135), (47, 44102), (57, 44057),

Gene: DaHudson_77 Start: 44473, Stop: 44039, Start Num: 6

Candidate Starts for DaHudson_77:

(Start: 6 @44473 has 234 MA's), (18, 44371), (20, 44362), (21, 44359), (23, 44341), (24, 44338), (26, 44308), (29, 44296), (31, 44245), (32, 44242), (34, 44215), (38, 44164), (40, 44155), (44, 44128), (47, 44095), (57, 44050),

Gene: Daishi_77 Start: 43348, Stop: 42914, Start Num: 6

Candidate Starts for Daishi_77:

(Start: 6 @43348 has 234 MA's), (18, 43246), (20, 43237), (21, 43234), (23, 43216), (24, 43213), (26, 43183), (29, 43171), (31, 43120), (32, 43117), (34, 43090), (38, 43039), (40, 43030), (44, 43003), (47, 42970), (57, 42925),

Gene: Deano_66 Start: 43585, Stop: 43163, Start Num: 6

Candidate Starts for Deano_66:

(Start: 6 @43585 has 234 MA's), (25, 43432), (30, 43390), (33, 43348), (40, 43261), (53, 43180),

Gene: Dhanush_69 Start: 43580, Stop: 43158, Start Num: 6

Candidate Starts for Dhanush_69:

(Start: 6 @43580 has 234 MA's), (25, 43427), (30, 43385), (33, 43343), (40, 43256), (53, 43175),

Gene: Dieselweasel_78 Start: 44482, Stop: 44048, Start Num: 6

Candidate Starts for Dieselweasel_78:

(Start: 6 @44482 has 234 MA's), (18, 44380), (20, 44371), (21, 44368), (23, 44350), (24, 44347), (26, 44317), (29, 44305), (31, 44254), (32, 44251), (34, 44224), (38, 44173), (40, 44164), (44, 44137), (47, 44104), (57, 44059),

Gene: DirtyDunning_68 Start: 43592, Stop: 43170, Start Num: 6

Candidate Starts for DirtyDunning_68:

(Start: 6 @43592 has 234 MA's), (25, 43439), (30, 43397), (33, 43355), (40, 43268), (53, 43187),

Gene: Drake94_67 Start: 42510, Stop: 42079, Start Num: 6

Candidate Starts for Drake94_67:

(Start: 6 @42510 has 234 MA's), (9, 42465), (10, 42462), (17, 42423), (22, 42381), (26, 42345), (27, 42342), (29, 42333), (32, 42261), (33, 42258), (42, 42168), (50, 42114), (53, 42096),

Gene: Druantia_68 Start: 43580, Stop: 43158, Start Num: 6

Candidate Starts for Druantia_68:

(Start: 6 @43580 has 234 MA's), (25, 43427), (30, 43385), (33, 43343), (40, 43256), (53, 43175),

Gene: Eagle_68 Start: 43638, Stop: 43216, Start Num: 6

Candidate Starts for Eagle_68:

(Start: 6 @43638 has 234 MA's), (25, 43485), (30, 43443), (33, 43401), (40, 43314), (46, 43266), (53, 43233),

Gene: Eaglepride_71 Start: 43434, Stop: 43069, Start Num: 13

Candidate Starts for Eaglepride_71:

(Start: 6 @43491 has 234 MA's), (Start: 13 @43434 has 1 MA's), (15, 43425), (18, 43389), (25, 43338), (32, 43257), (33, 43254), (42, 43161), (51, 43101),

Gene: Eapen_69 Start: 43572, Stop: 43150, Start Num: 6

Candidate Starts for Eapen_69:

(Start: 6 @43572 has 234 MA's), (25, 43419), (30, 43377), (33, 43335), (40, 43248), (53, 43167),

Gene: Edison31_66 Start: 43243, Stop: 42812, Start Num: 6

Candidate Starts for Edison31_66:

(Start: 6 @43243 has 234 MA's), (10, 43195), (22, 43114), (26, 43078), (32, 42994), (33, 42991), (40, 42910), (42, 42901), (45, 42877), (50, 42847), (55, 42820), (56, 42817),

Gene: EpicPhail_79 Start: 44484, Stop: 44050, Start Num: 6

Candidate Starts for EpicPhail_79:

(Start: 6 @44484 has 234 MA's), (18, 44382), (20, 44373), (21, 44370), (23, 44352), (24, 44349), (26, 44319), (29, 44307), (31, 44256), (32, 44253), (38, 44175), (40, 44166), (44, 44139), (47, 44106), (57, 44061),

Gene: Eris_68 Start: 43592, Stop: 43170, Start Num: 6

Candidate Starts for Eris_68:

(Start: 6 @43592 has 234 MA's), (25, 43439), (30, 43397), (33, 43355), (40, 43268), (53, 43187),

Gene: Eros_69 Start: 43579, Stop: 43157, Start Num: 6

Candidate Starts for Eros_69:

(Start: 6 @43579 has 234 MA's), (25, 43426), (30, 43384), (33, 43342), (40, 43255), (53, 43174),

Gene: Eurydice_70 Start: 43613, Stop: 43191, Start Num: 6

Candidate Starts for Eurydice_70:

(Start: 6 @43613 has 234 MA's), (25, 43460), (30, 43418), (33, 43376), (40, 43289), (53, 43208),

Gene: Farber_78 Start: 44470, Stop: 44036, Start Num: 6

Candidate Starts for Farber_78:

(Start: 6 @44470 has 234 MA's), (18, 44368), (20, 44359), (21, 44356), (23, 44338), (24, 44335), (26, 44305), (29, 44293), (31, 44242), (32, 44239), (38, 44161), (40, 44152), (44, 44125), (47, 44092), (57, 44047),

Gene: Fernando_78 Start: 44483, Stop: 44046, Start Num: 6

Candidate Starts for Fernando_78:

(Start: 6 @44483 has 234 MA's), (18, 44381), (20, 44372), (21, 44369), (23, 44351), (24, 44348), (26, 44318), (29, 44306), (31, 44252), (32, 44249), (38, 44171), (40, 44162), (44, 44135), (47, 44102), (57, 44057),

Gene: Florean_69 Start: 43576, Stop: 43154, Start Num: 6

Candidate Starts for Florean_69:

(Start: 6 @43576 has 234 MA's), (25, 43423), (30, 43381), (33, 43339), (40, 43252), (53, 43171),

Gene: Flux_69 Start: 43576, Stop: 43154, Start Num: 6

Candidate Starts for Flux_69:

(Start: 6 @43576 has 234 MA's), (25, 43423), (30, 43381), (33, 43339), (40, 43252), (53, 43171),

Gene: Fred313_70 Start: 43703, Stop: 43290, Start Num: 6

Candidate Starts for Fred313_70:

(Start: 6 @43703 has 234 MA's), (18, 43601), (20, 43592), (26, 43538), (29, 43526), (32, 43469), (33, 43466), (34, 43442), (35, 43436), (39, 43391), (53, 43304), (54, 43298),

Gene: Funston_68 Start: 43577, Stop: 43155, Start Num: 6

Candidate Starts for Funston_68:

(Start: 6 @43577 has 234 MA's), (25, 43424), (30, 43382), (33, 43340), (40, 43253), (53, 43172),

Gene: Gadost_69 Start: 43581, Stop: 43159, Start Num: 6

Candidate Starts for Gadost_69:

(Start: 6 @43581 has 234 MA's), (25, 43428), (30, 43386), (33, 43344), (40, 43257), (53, 43176),

Gene: Gemma_75 Start: 44293, Stop: 43859, Start Num: 6

Candidate Starts for Gemma_75:

(Start: 6 @44293 has 234 MA's), (18, 44191), (20, 44182), (23, 44161), (24, 44158), (26, 44128), (29, 44116), (31, 44065), (32, 44062), (34, 44035), (36, 44026), (37, 44005), (38, 43987), (40, 43978), (41, 43975), (44, 43951), (57, 43873),

Gene: GingkoMaracino_78 Start: 44366, Stop: 43932, Start Num: 6

Candidate Starts for GingkoMaracino_78:

(Start: 6 @44366 has 234 MA's), (18, 44264), (20, 44255), (21, 44252), (23, 44234), (24, 44231), (26, 44201), (29, 44189), (31, 44138), (32, 44135), (38, 44057), (40, 44048), (44, 44021), (47, 43988), (57, 43943),

Gene: Giroux_71 Start: 44090, Stop: 43677, Start Num: 6

Candidate Starts for Giroux_71:

(Start: 6 @44090 has 234 MA's), (18, 43988), (20, 43979), (26, 43925), (32, 43856), (33, 43853), (34, 43829), (35, 43823), (54, 43685),

Gene: Goose_70 Start: 43189, Stop: 42761, Start Num: 6

Candidate Starts for Goose_70:

(Start: 6 @43189 has 234 MA's), (10, 43141), (22, 43060), (26, 43024), (32, 42943), (33, 42940), (40, 42859), (42, 42850), (45, 42826), (50, 42796), (53, 42778),

Gene: Grif_76 Start: 44557, Stop: 44120, Start Num: 6

Candidate Starts for Grif_76:

(Start: 6 @44557 has 234 MA's), (18, 44455), (20, 44446), (21, 44443), (23, 44425), (24, 44422), (26, 44392), (29, 44380), (31, 44326), (32, 44323), (38, 44245), (40, 44236), (44, 44209), (47, 44176), (57,

44131),

Gene: Groupthink_78 Start: 44294, Stop: 43863, Start Num: 6

Candidate Starts for Groupthink_78:

(Start: 6 @44294 has 234 MA's), (18, 44192), (20, 44183), (23, 44162), (24, 44159), (29, 44117), (31, 44066), (32, 44063), (34, 44036), (37, 44006), (38, 43988), (40, 43979), (44, 43952), (57, 43874),

Gene: Grub_76 Start: 44472, Stop: 44038, Start Num: 6

Candidate Starts for Grub_76:

(Start: 6 @44472 has 234 MA's), (18, 44370), (20, 44361), (21, 44358), (23, 44340), (24, 44337), (26, 44307), (29, 44295), (31, 44244), (32, 44241), (34, 44214), (38, 44163), (40, 44154), (44, 44127), (47, 44094), (57, 44049),

Gene: Grum1_77 Start: 44483, Stop: 44046, Start Num: 6

Candidate Starts for Grum1_77:

(Start: 6 @44483 has 234 MA's), (18, 44381), (20, 44372), (21, 44369), (23, 44351), (24, 44348), (26, 44318), (29, 44306), (31, 44252), (32, 44249), (38, 44171), (40, 44162), (44, 44135), (47, 44102), (57, 44057),

Gene: GtownJaz_78 Start: 44481, Stop: 44047, Start Num: 6

Candidate Starts for GtownJaz_78:

(Start: 6 @44481 has 234 MA's), (18, 44379), (20, 44370), (21, 44367), (23, 44349), (24, 44346), (26, 44316), (29, 44304), (31, 44253), (32, 44250), (34, 44223), (38, 44172), (40, 44163), (44, 44136), (47, 44103), (57, 44058),

Gene: HamSlice_65 Start: 43575, Stop: 43153, Start Num: 6

Candidate Starts for HamSlice_65:

(Start: 6 @43575 has 234 MA's), (25, 43422), (30, 43380), (33, 43338), (40, 43251), (53, 43170),

Gene: Happiness_68 Start: 43599, Stop: 43177, Start Num: 6

Candidate Starts for Happiness_68:

(Start: 6 @43599 has 234 MA's), (25, 43446), (30, 43404), (33, 43362), (40, 43275), (53, 43194),

Gene: HashRod_79 Start: 44508, Stop: 44074, Start Num: 6

Candidate Starts for HashRod_79:

(Start: 6 @44508 has 234 MA's), (18, 44406), (20, 44397), (21, 44394), (23, 44376), (24, 44373), (26, 44343), (29, 44331), (31, 44280), (32, 44277), (38, 44199), (40, 44190), (44, 44163), (47, 44130), (57, 44085),

Gene: HaveUMetTed_78 Start: 44282, Stop: 43848, Start Num: 6

Candidate Starts for HaveUMetTed_78:

(Start: 6 @44282 has 234 MA's), (18, 44180), (20, 44171), (23, 44150), (24, 44147), (26, 44117), (29, 44105), (31, 44054), (32, 44051), (34, 44024), (36, 44015), (37, 43994), (38, 43976), (40, 43967), (41, 43964), (44, 43940), (57, 43862),

Gene: Heathen_72 Start: 43798, Stop: 43385, Start Num: 6

Candidate Starts for Heathen_72:

(Start: 6 @43798 has 234 MA's), (18, 43696), (20, 43687), (26, 43633), (29, 43621), (32, 43564), (33, 43561), (34, 43537), (35, 43531), (39, 43486), (53, 43399), (54, 43393),

Gene: HelDan_72 Start: 44014, Stop: 43601, Start Num: 6

Candidate Starts for HelDan_72:

(Start: 6 @44014 has 234 MA's), (18, 43912), (20, 43903), (26, 43849), (29, 43837), (32, 43780), (33, 43777), (34, 43753), (35, 43747), (39, 43702), (53, 43615), (54, 43609),

Gene: Heliosoles_75 Start: 44297, Stop: 43866, Start Num: 6

Candidate Starts for Heliosoles_75:

(Start: 6 @44297 has 234 MA's), (18, 44195), (20, 44186), (23, 44165), (24, 44162), (29, 44120), (31, 44069), (32, 44066), (34, 44039), (37, 44009), (38, 43991), (40, 43982), (44, 43955), (57, 43877),

Gene: Hercules11_78 Start: 44492, Stop: 44055, Start Num: 6

Candidate Starts for Hercules11_78:

(Start: 6 @44492 has 234 MA's), (18, 44390), (20, 44381), (21, 44378), (23, 44360), (24, 44357), (26, 44327), (29, 44315), (31, 44261), (32, 44258), (38, 44180), (40, 44171), (44, 44144), (47, 44111), (57, 44066),

Gene: Holli_68 Start: 43367, Stop: 42945, Start Num: 6

Candidate Starts for Holli_68:

(Start: 6 @43367 has 234 MA's), (25, 43214), (30, 43172), (33, 43130), (40, 43043), (53, 42962),

Gene: Hookmount_72 Start: 44049, Stop: 43636, Start Num: 6

Candidate Starts for Hookmount_72:

(4, 44073), (Start: 6 @44049 has 234 MA's), (18, 43947), (19, 43941), (26, 43884), (29, 43872), (32, 43815), (34, 43788), (40, 43728), (43, 43713), (53, 43650),

Gene: Houdini22_68 Start: 43581, Stop: 43159, Start Num: 6

Candidate Starts for Houdini22_68:

(Start: 6 @43581 has 234 MA's), (25, 43428), (30, 43386), (33, 43344), (40, 43257), (53, 43176),

Gene: ICleared_68 Start: 43645, Stop: 43223, Start Num: 6

Candidate Starts for ICleared_68:

(Start: 6 @43645 has 234 MA's), (25, 43492), (30, 43450), (33, 43408), (40, 43321), (53, 43240),

Gene: Iceman_68 Start: 43866, Stop: 43444, Start Num: 6

Candidate Starts for Iceman_68:

(Start: 6 @43866 has 234 MA's), (25, 43713), (30, 43671), (33, 43629), (40, 43542), (53, 43461),

Gene: Idleandcovert_73 Start: 44091, Stop: 43678, Start Num: 6

Candidate Starts for Idleandcovert_73:

(Start: 6 @44091 has 234 MA's), (18, 43989), (20, 43980), (26, 43926), (32, 43857), (33, 43854), (34, 43830), (35, 43824), (54, 43686),

Gene: Iracema64_69 Start: 43844, Stop: 43422, Start Num: 6

Candidate Starts for Iracema64_69:

(Start: 6 @43844 has 234 MA's), (25, 43691), (30, 43649), (33, 43607), (40, 43520), (53, 43439),

Gene: Isca_70 Start: 43569, Stop: 43156, Start Num: 6

Candidate Starts for Isca_70:

(Start: 6 @43569 has 234 MA's), (18, 43467), (26, 43404), (32, 43335), (33, 43332), (34, 43308), (35, 43302), (54, 43164),

Gene: JF2_70 Start: 42264, Stop: 41851, Start Num: 6

Candidate Starts for JF2_70:

(Start: 6 @42264 has 234 MA's), (18, 42162), (26, 42099), (32, 42030), (33, 42027), (34, 42003), (54, 41859),

Gene: JF4_70 Start: 42264, Stop: 41851, Start Num: 6

Candidate Starts for JF4_70:

(Start: 6 @42264 has 234 MA's), (18, 42162), (26, 42099), (32, 42030), (33, 42027), (34, 42003), (54, 41859),

Gene: Jaykayelowell_66 Start: 43570, Stop: 43148, Start Num: 6

Candidate Starts for Jaykayelowell_66:

(Start: 6 @43570 has 234 MA's), (25, 43417), (30, 43375), (33, 43333), (40, 43246), (53, 43165),

Gene: JenCasNa_79 Start: 44483, Stop: 44046, Start Num: 6

Candidate Starts for JenCasNa_79:

(Start: 6 @44483 has 234 MA's), (18, 44381), (20, 44372), (21, 44369), (23, 44351), (24, 44348), (26, 44318), (29, 44306), (31, 44252), (32, 44249), (38, 44171), (40, 44162), (44, 44135), (47, 44102), (57, 44057),

Gene: JeppNRM_78 Start: 44295, Stop: 43864, Start Num: 6

Candidate Starts for JeppNRM_78:

(Start: 6 @44295 has 234 MA's), (18, 44193), (20, 44184), (23, 44163), (24, 44160), (29, 44118), (31, 44067), (32, 44064), (34, 44037), (37, 44007), (38, 43989), (40, 43980), (44, 43953), (57, 43875),

Gene: JetBlade_69 Start: 43607, Stop: 43185, Start Num: 6

Candidate Starts for JetBlade_69:

(Start: 6 @43607 has 234 MA's), (25, 43454), (30, 43412), (33, 43370), (40, 43283), (53, 43202),

Gene: Jobu08_74 Start: 44311, Stop: 43877, Start Num: 6

Candidate Starts for Jobu08_74:

(Start: 6 @44311 has 234 MA's), (18, 44209), (20, 44200), (23, 44179), (24, 44176), (26, 44146), (29, 44134), (31, 44083), (32, 44080), (34, 44053), (37, 44023), (38, 44005), (41, 43993), (44, 43969), (57, 43891),

Gene: JoongJeon_68 Start: 43574, Stop: 43152, Start Num: 6

Candidate Starts for JoongJeon_68:

(Start: 6 @43574 has 234 MA's), (25, 43421), (30, 43379), (33, 43337), (40, 43250), (53, 43169),

Gene: KADY_75 Start: 44508, Stop: 44074, Start Num: 6

Candidate Starts for KADY_75:

(Start: 6 @44508 has 234 MA's), (18, 44406), (20, 44397), (23, 44376), (24, 44373), (29, 44331), (31, 44280), (32, 44277), (34, 44250), (36, 44241), (40, 44190), (46, 44136), (52, 44106), (57, 44085),

Gene: KFPoly_68 Start: 43571, Stop: 43149, Start Num: 6

Candidate Starts for KFPoly_68:

(Start: 6 @43571 has 234 MA's), (25, 43418), (30, 43376), (33, 43334), (40, 43247), (53, 43166),

Gene: Kalb97_78 Start: 44293, Stop: 43862, Start Num: 6

Candidate Starts for Kalb97_78:

(Start: 6 @44293 has 234 MA's), (18, 44191), (20, 44182), (23, 44161), (24, 44158), (29, 44116), (31, 44065), (32, 44062), (34, 44035), (37, 44005), (38, 43987), (40, 43978), (44, 43951), (57, 43873),

Gene: Kalnoky_78 Start: 44291, Stop: 43860, Start Num: 6

Candidate Starts for Kalnoky_78:

(Start: 6 @44291 has 234 MA's), (18, 44189), (20, 44180), (23, 44159), (24, 44156), (29, 44114), (31, 44063), (32, 44060), (34, 44033), (37, 44003), (38, 43985), (40, 43976), (44, 43949), (57, 43871),

Gene: Kamy_68 Start: 43579, Stop: 43157, Start Num: 6

Candidate Starts for Kamy_68:

(Start: 6 @43579 has 234 MA's), (25, 43426), (30, 43384), (33, 43342), (40, 43255), (53, 43174),

Gene: Kingmustik0402_69 Start: 43566, Stop: 43144, Start Num: 6

Candidate Starts for Kingmustik0402_69:

(Start: 6 @43566 has 234 MA's), (25, 43413), (30, 43371), (33, 43329), (40, 43242), (53, 43161),

Gene: KittenMittens_66 Start: 42518, Stop: 42087, Start Num: 6

Candidate Starts for KittenMittens_66:

(Start: 6 @42518 has 234 MA's), (9, 42473), (10, 42470), (17, 42431), (22, 42389), (26, 42353), (27, 42350), (29, 42341), (32, 42269), (33, 42266), (42, 42176), (50, 42122), (53, 42104),

Gene: Koreni_68 Start: 43258, Stop: 42836, Start Num: 6

Candidate Starts for Koreni_68:

(Start: 6 @43258 has 234 MA's), (25, 43105), (30, 43063), (33, 43021), (40, 42934), (53, 42853),

Gene: Kratak_68 Start: 43614, Stop: 43192, Start Num: 6

Candidate Starts for Kratak_68:

(Start: 6 @43614 has 234 MA's), (25, 43461), (30, 43419), (33, 43377), (40, 43290), (53, 43209),

Gene: Kremtemulon_65 Start: 43710, Stop: 43288, Start Num: 6

Candidate Starts for Kremtemulon_65:

(Start: 6 @43710 has 234 MA's), (30, 43515), (33, 43473), (40, 43386), (53, 43305),

Gene: Kristoff_68 Start: 43820, Stop: 43389, Start Num: 6

Candidate Starts for Kristoff_68:

(Start: 6 @43820 has 234 MA's), (10, 43772), (20, 43709), (22, 43691), (26, 43655), (29, 43643), (32, 43571), (33, 43568), (40, 43487), (42, 43478), (45, 43454), (50, 43424),

Gene: Kyee_69 Start: 43575, Stop: 43153, Start Num: 6

Candidate Starts for Kyee_69:

(Start: 6 @43575 has 234 MA's), (25, 43422), (30, 43380), (33, 43338), (40, 43251), (53, 43170),

Gene: LBerry_79 Start: 44484, Stop: 44050, Start Num: 6

Candidate Starts for LBerry_79:

(Start: 6 @44484 has 234 MA's), (18, 44382), (20, 44373), (21, 44370), (23, 44352), (24, 44349), (26, 44319), (29, 44307), (31, 44256), (32, 44253), (34, 44226), (38, 44175), (40, 44166), (44, 44139), (47, 44106), (57, 44061),

Gene: LHTSCC_71 Start: 44016, Stop: 43594, Start Num: 6

Candidate Starts for LHTSCC_71:

(Start: 6 @44016 has 234 MA's), (25, 43863), (30, 43821), (33, 43779), (40, 43692), (53, 43611),

Gene: Lambert1_72 Start: 44048, Stop: 43635, Start Num: 6

Candidate Starts for Lambert1_72:

(Start: 1 @44132 has 1 MA's), (2, 44126), (3, 44087), (Start: 6 @44048 has 234 MA's), (18, 43946), (19, 43940), (26, 43883), (29, 43871), (32, 43814), (34, 43787), (40, 43727), (43, 43712), (53, 43649),

Gene: LappelDuVide_65 Start: 43576, Stop: 43154, Start Num: 6

Candidate Starts for LappelDuVide_65:

(Start: 6 @43576 has 234 MA's), (25, 43423), (30, 43381), (33, 43339), (40, 43252), (53, 43171),

Gene: LarryKay_78 Start: 44512, Stop: 44075, Start Num: 6

Candidate Starts for LarryKay_78:

(Start: 6 @44512 has 234 MA's), (18, 44410), (20, 44401), (21, 44398), (23, 44380), (24, 44377), (26, 44347), (29, 44335), (31, 44284), (32, 44281), (34, 44254), (38, 44203), (40, 44194), (44, 44164), (47, 44131), (57, 44086),

Gene: Lemur_69 Start: 43574, Stop: 43152, Start Num: 6

Candidate Starts for Lemur_69:

(Start: 6 @43574 has 234 MA's), (25, 43421), (30, 43379), (33, 43337), (40, 43250), (53, 43169),

Gene: LeoAvram_68 Start: 43607, Stop: 43185, Start Num: 6

Candidate Starts for LeoAvram_68:

(Start: 6 @43607 has 234 MA's), (25, 43454), (30, 43412), (33, 43370), (40, 43283), (53, 43202),

Gene: LittleB_69 Start: 43578, Stop: 43156, Start Num: 6

Candidate Starts for LittleB_69:

(Start: 6 @43578 has 234 MA's), (25, 43425), (30, 43383), (33, 43341), (40, 43254), (53, 43173),

Gene: LittleGuy_69 Start: 43473, Stop: 43051, Start Num: 6

Candidate Starts for LittleGuy_69:

(Start: 6 @43473 has 234 MA's), (25, 43320), (30, 43278), (33, 43236), (40, 43149), (53, 43068),

Gene: LochMonster_70 Start: 43816, Stop: 43394, Start Num: 6

Candidate Starts for LochMonster_70:

(Start: 6 @43816 has 234 MA's), (25, 43663), (30, 43621), (33, 43579), (40, 43492), (53, 43411),

Gene: Lorenzo_69 Start: 43577, Stop: 43155, Start Num: 6

Candidate Starts for Lorenzo_69:

(Start: 6 @43577 has 234 MA's), (25, 43424), (30, 43382), (33, 43340), (40, 43253), (53, 43172),

Gene: Louie6_77 Start: 44510, Stop: 44076, Start Num: 6

Candidate Starts for Louie6_77:

(Start: 6 @44510 has 234 MA's), (18, 44408), (20, 44399), (23, 44378), (24, 44375), (29, 44333), (31, 44282), (32, 44279), (34, 44252), (36, 44243), (40, 44192), (46, 44138), (52, 44108), (57, 44087),

Gene: LugYA_81 Start: 44484, Stop: 44047, Start Num: 6

Candidate Starts for LugYA_81:

(Start: 6 @44484 has 234 MA's), (18, 44382), (20, 44373), (21, 44370), (23, 44352), (24, 44349), (26, 44319), (29, 44307), (31, 44253), (32, 44250), (38, 44172), (40, 44163), (44, 44136), (47, 44103), (57, 44058),

Gene: Lunsford_69 Start: 43571, Stop: 43149, Start Num: 6

Candidate Starts for Lunsford_69:

(Start: 6 @43571 has 234 MA's), (25, 43418), (30, 43376), (33, 43334), (40, 43247), (53, 43166),

Gene: MA5_72 Start: 43473, Stop: 43060, Start Num: 6

Candidate Starts for MA5_72:

(Start: 6 @43473 has 234 MA's), (18, 43371), (26, 43308), (32, 43239), (33, 43236), (34, 43212), (54, 43068),

Gene: Mainiac_77 Start: 44473, Stop: 44039, Start Num: 6

Candidate Starts for Mainiac_77:

(Start: 6 @44473 has 234 MA's), (18, 44371), (20, 44362), (21, 44359), (23, 44341), (24, 44338), (26, 44308), (29, 44296), (31, 44245), (32, 44242), (34, 44215), (38, 44164), (40, 44155), (44, 44128), (47, 44095), (57, 44050),

Gene: Malinsilva_80 Start: 44472, Stop: 44038, Start Num: 6

Candidate Starts for Malinsilva_80:

(Start: 6 @44472 has 234 MA's), (18, 44370), (20, 44361), (21, 44358), (23, 44340), (24, 44337), (26, 44307), (29, 44295), (31, 44244), (32, 44241), (34, 44214), (38, 44163), (40, 44154), (44, 44127), (47, 44094), (57, 44049),

Gene: Manu_77 Start: 44297, Stop: 43863, Start Num: 6

Candidate Starts for Manu_77:

(Start: 6 @44297 has 234 MA's), (18, 44195), (20, 44186), (23, 44165), (24, 44162), (26, 44132), (29, 44120), (31, 44069), (32, 44066), (34, 44039), (36, 44030), (37, 44009), (38, 43991), (40, 43982), (41, 43979), (44, 43955), (57, 43877),

Gene: MarQuardt_78 Start: 44482, Stop: 44048, Start Num: 6

Candidate Starts for MarQuardt_78:

(Start: 6 @44482 has 234 MA's), (18, 44380), (20, 44371), (21, 44368), (23, 44350), (24, 44347), (26, 44317), (29, 44305), (31, 44254), (32, 44251), (34, 44224), (38, 44173), (40, 44164), (44, 44137), (47, 44104), (57, 44059),

Gene: Margo_72 Start: 44074, Stop: 43661, Start Num: 6

Candidate Starts for Margo_72:

(4, 44098), (Start: 6 @44074 has 234 MA's), (18, 43972), (19, 43966), (26, 43909), (29, 43897), (32, 43840), (34, 43813), (40, 43753), (43, 43738), (53, 43675),

Gene: Marie_76 Start: 44483, Stop: 44046, Start Num: 6

Candidate Starts for Marie_76:

(Start: 6 @44483 has 234 MA's), (18, 44381), (20, 44372), (21, 44369), (23, 44351), (24, 44348), (26, 44318), (29, 44306), (31, 44252), (32, 44249), (38, 44171), (40, 44162), (44, 44135), (47, 44102), (57, 44057),

Gene: Marius_78 Start: 44291, Stop: 43860, Start Num: 6

Candidate Starts for Marius_78:

(Start: 6 @44291 has 234 MA's), (18, 44189), (20, 44180), (23, 44159), (24, 44156), (29, 44114), (31, 44063), (32, 44060), (34, 44033), (37, 44003), (38, 43985), (40, 43976), (44, 43949), (57, 43871),

Gene: Maverick_68 Start: 43577, Stop: 43155, Start Num: 6

Candidate Starts for Maverick_68:

(Start: 6 @43577 has 234 MA's), (25, 43424), (30, 43382), (33, 43340), (40, 43253), (53, 43172),

Gene: Maxo_70 Start: 43579, Stop: 43157, Start Num: 6

Candidate Starts for Maxo_70:

(Start: 6 @43579 has 234 MA's), (25, 43426), (30, 43384), (33, 43342), (40, 43255), (53, 43174),

Gene: Mazhar510_69 Start: 43578, Stop: 43156, Start Num: 6

Candidate Starts for Mazhar510_69:

(Start: 6 @43578 has 234 MA's), (25, 43425), (30, 43383), (33, 43341), (40, 43254), (53, 43173),

Gene: Medusa_69 Start: 43591, Stop: 43169, Start Num: 6

Candidate Starts for Medusa_69:

(Start: 6 @43591 has 234 MA's), (25, 43438), (30, 43396), (33, 43354), (40, 43267), (53, 43186),

Gene: MeeZee_68 Start: 43574, Stop: 43152, Start Num: 6

Candidate Starts for MeeZee_68:

(Start: 6 @43574 has 234 MA's), (25, 43421), (30, 43379), (33, 43337), (40, 43250), (53, 43169),

Gene: Melvin_71 Start: 43572, Stop: 43150, Start Num: 6

Candidate Starts for Melvin_71:

(Start: 6 @43572 has 234 MA's), (25, 43419), (30, 43377), (33, 43335), (40, 43248), (53, 43167),

Gene: Methuselah_71 Start: 44504, Stop: 44070, Start Num: 6

Candidate Starts for Methuselah_71:

(Start: 6 @44504 has 234 MA's), (18, 44402), (20, 44393), (21, 44390), (23, 44372), (24, 44369), (26, 44339), (29, 44327), (31, 44276), (32, 44273), (38, 44195), (40, 44186), (44, 44159), (47, 44126), (57, 44081),

Gene: Microwolf_74 Start: 44496, Stop: 44062, Start Num: 6

Candidate Starts for Microwolf_74:

(Start: 6 @44496 has 234 MA's), (18, 44394), (20, 44385), (21, 44382), (23, 44364), (24, 44361), (26, 44331), (29, 44319), (31, 44268), (32, 44265), (34, 44238), (38, 44187), (40, 44178), (44, 44151), (47, 44118), (57, 44073),

Gene: Millski_68 Start: 43578, Stop: 43156, Start Num: 6

Candidate Starts for Millski_68:

(Start: 6 @43578 has 234 MA's), (25, 43425), (30, 43383), (33, 43341), (40, 43254), (53, 43173),

Gene: MoneyMay_77 Start: 44483, Stop: 44046, Start Num: 6

Candidate Starts for MoneyMay_77:

(Start: 6 @44483 has 234 MA's), (18, 44381), (20, 44372), (21, 44369), (23, 44351), (24, 44348), (26, 44318), (29, 44306), (31, 44252), (32, 44249), (38, 44171), (40, 44162), (44, 44135), (47, 44102), (57, 44057),

Gene: Morrow_70 Start: 43619, Stop: 43197, Start Num: 6

Candidate Starts for Morrow_70:

(Start: 6 @43619 has 234 MA's), (25, 43466), (30, 43424), (33, 43382), (40, 43295), (53, 43214),

Gene: MuchMore_81 Start: 44472, Stop: 44038, Start Num: 6

Candidate Starts for MuchMore_81:

(Start: 6 @44472 has 234 MA's), (18, 44370), (20, 44361), (23, 44340), (24, 44337), (26, 44307), (29, 44295), (32, 44241), (34, 44214), (38, 44163), (40, 44154), (44, 44127), (47, 44094), (57, 44049),

Gene: Nebs_70 Start: 43616, Stop: 43194, Start Num: 6

Candidate Starts for Nebs_70:

(Start: 6 @43616 has 234 MA's), (25, 43463), (30, 43421), (33, 43379), (40, 43292), (53, 43211),

Gene: Nemo27_68 Start: 43576, Stop: 43154, Start Num: 6

Candidate Starts for Nemo27_68:

(Start: 6 @43576 has 234 MA's), (25, 43423), (30, 43381), (33, 43339), (40, 43252), (53, 43171),

Gene: Noella_72 Start: 44049, Stop: 43636, Start Num: 6

Candidate Starts for Noella_72:

(4, 44073), (Start: 6 @44049 has 234 MA's), (18, 43947), (19, 43941), (26, 43884), (29, 43872), (32, 43815), (34, 43788), (40, 43728), (43, 43713), (53, 43650),

Gene: Norbert_68 Start: 44047, Stop: 43634, Start Num: 6

Candidate Starts for Norbert_68:

(4, 44071), (Start: 6 @44047 has 234 MA's), (18, 43945), (19, 43939), (26, 43882), (29, 43870), (32, 43813), (34, 43786), (40, 43726), (43, 43711), (53, 43648),

Gene: NorthStar_67 Start: 43577, Stop: 43155, Start Num: 6

Candidate Starts for NorthStar_67:

(Start: 6 @43577 has 234 MA's), (25, 43424), (30, 43382), (33, 43340), (40, 43253), (53, 43172),

Gene: NotAPhaseMom_68 Start: 43581, Stop: 43159, Start Num: 6

Candidate Starts for NotAPhaseMom_68:

(Start: 6 @43581 has 234 MA's), (25, 43428), (30, 43386), (33, 43344), (40, 43257), (53, 43176),

Gene: Nyxis_68 Start: 43467, Stop: 43045, Start Num: 6

Candidate Starts for Nyxis_68:

(Start: 6 @43467 has 234 MA's), (25, 43314), (30, 43272), (33, 43230), (40, 43143), (53, 43062),

Gene: OKCentral2016_67 Start: 42617, Stop: 42186, Start Num: 6

Candidate Starts for OKCentral2016_67:

(Start: 6 @42617 has 234 MA's), (10, 42569), (17, 42530), (22, 42488), (26, 42452), (27, 42449), (29, 42440), (32, 42368), (33, 42365), (42, 42275), (50, 42221), (53, 42203),

Gene: OKaNui_68 Start: 43627, Stop: 43205, Start Num: 6

Candidate Starts for OKaNui_68:

(Start: 6 @43627 has 234 MA's), (25, 43474), (28, 43453), (30, 43432), (33, 43390), (40, 43303), (53, 43222),

Gene: Obama12_70 Start: 44000, Stop: 43578, Start Num: 6

Candidate Starts for Obama12_70:

(Start: 6 @44000 has 234 MA's), (25, 43847), (30, 43805), (33, 43763), (40, 43676), (53, 43595),

Gene: Ohfah_70 Start: 43616, Stop: 43194, Start Num: 6

Candidate Starts for Ohfah_70:

(Start: 6 @43616 has 234 MA's), (25, 43463), (30, 43421), (33, 43379), (40, 43292), (53, 43211),

Gene: OlanP_76 Start: 44470, Stop: 44036, Start Num: 6

Candidate Starts for OlanP_76:

(Start: 6 @44470 has 234 MA's), (18, 44368), (20, 44359), (23, 44338), (24, 44335), (26, 44305), (29, 44293), (31, 44242), (32, 44239), (34, 44212), (37, 44182), (38, 44164), (40, 44155), (41, 44152), (44, 44128), (57, 44050),

Gene: Ollie_78 Start: 44351, Stop: 43917, Start Num: 6

Candidate Starts for Ollie_78:

(Start: 6 @44351 has 234 MA's), (18, 44249), (20, 44240), (21, 44237), (23, 44219), (24, 44216), (26, 44186), (29, 44174), (31, 44123), (32, 44120), (38, 44042), (40, 44033), (44, 44006), (47, 43973), (57, 43928),

Gene: P28Green_78 Start: 44486, Stop: 44049, Start Num: 6

Candidate Starts for P28Green_78:

(Start: 6 @44486 has 234 MA's), (18, 44384), (20, 44375), (21, 44372), (23, 44354), (24, 44351), (26, 44321), (29, 44309), (31, 44255), (32, 44252), (38, 44174), (40, 44165), (44, 44138), (47, 44105), (57, 44060),

Gene: PGHhamlin_80 Start: 44472, Stop: 44038, Start Num: 6

Candidate Starts for PGHhamlin_80:

(Start: 6 @44472 has 234 MA's), (18, 44370), (20, 44361), (21, 44358), (23, 44340), (24, 44337), (26, 44307), (29, 44295), (31, 44244), (32, 44241), (34, 44214), (38, 44163), (40, 44154), (44, 44127), (47, 44094), (57, 44049),

Gene: Palestino_68 Start: 43577, Stop: 43155, Start Num: 6

Candidate Starts for Palestino_68:

(Start: 6 @43577 has 234 MA's), (25, 43424), (30, 43382), (33, 43340), (40, 43253), (53, 43172),

Gene: Panamaxus_70 Start: 44132, Stop: 43635, Start Num: 1

Candidate Starts for Panamaxus_70:

(Start: 1 @44132 has 1 MA's), (2, 44126), (3, 44087), (Start: 6 @44048 has 234 MA's), (18, 43946), (19, 43940), (26, 43883), (29, 43871), (32, 43814), (34, 43787), (40, 43727), (43, 43712), (53, 43649),

Gene: Pawn_76 Start: 44298, Stop: 43867, Start Num: 6

Candidate Starts for Pawn_76:

(Start: 6 @44298 has 234 MA's), (18, 44196), (20, 44187), (23, 44166), (24, 44163), (29, 44121), (31, 44070), (32, 44067), (34, 44040), (37, 44010), (38, 43992), (40, 43983), (44, 43956), (57, 43878),

Gene: PeaceMeal1_67 Start: 42519, Stop: 42088, Start Num: 6

Candidate Starts for PeaceMeal1_67:

(Start: 6 @42519 has 234 MA's), (9, 42474), (10, 42471), (17, 42432), (22, 42390), (26, 42354), (29, 42342), (32, 42270), (33, 42267), (42, 42177), (50, 42123), (53, 42105),

Gene: Peaches_67 Start: 43576, Stop: 43154, Start Num: 6

Candidate Starts for Peaches_67:

(Start: 6 @43576 has 234 MA's), (25, 43423), (30, 43381), (33, 43339), (40, 43252), (53, 43171),

Gene: Pembroke_78 Start: 44481, Stop: 44047, Start Num: 6

Candidate Starts for Pembroke_78:

(Start: 6 @44481 has 234 MA's), (18, 44379), (20, 44370), (21, 44367), (23, 44349), (24, 44346), (26, 44316), (29, 44304), (31, 44253), (32, 44250), (34, 44223), (38, 44172), (40, 44163), (44, 44136), (47, 44103), (57, 44058),

Gene: Penny1_78 Start: 44484, Stop: 44050, Start Num: 6

Candidate Starts for Penny1_78:

(Start: 6 @44484 has 234 MA's), (18, 44382), (20, 44373), (21, 44370), (23, 44352), (24, 44349), (26, 44319), (29, 44307), (31, 44256), (32, 44253), (38, 44175), (40, 44166), (44, 44139), (47, 44106), (57, 44061),

Gene: PeterPeter_69 Start: 43574, Stop: 43152, Start Num: 6

Candidate Starts for PeterPeter_69:

(Start: 6 @43574 has 234 MA's), (25, 43421), (30, 43379), (33, 43337), (40, 43250), (53, 43169),

Gene: Phacado_69 Start: 43576, Stop: 43154, Start Num: 6

Candidate Starts for Phacado_69:

(Start: 6 @43576 has 234 MA's), (25, 43423), (30, 43381), (33, 43339), (40, 43252), (53, 43171),

Gene: Phantastic_74 Start: 43731, Stop: 43318, Start Num: 6

Candidate Starts for Phantastic_74:

(Start: 6 @43731 has 234 MA's), (18, 43629), (24, 43596), (26, 43566), (32, 43497), (33, 43494), (34, 43470), (35, 43464), (53, 43332), (54, 43326),

Gene: Phelipe_70 Start: 43616, Stop: 43194, Start Num: 6

Candidate Starts for Phelipe_70:

(Start: 6 @43616 has 234 MA's), (25, 43463), (30, 43421), (33, 43379), (40, 43292), (53, 43211),

Gene: Phighter1804_69 Start: 43641, Stop: 43219, Start Num: 6

Candidate Starts for Phighter1804_69:

(Start: 6 @43641 has 234 MA's), (25, 43488), (30, 43446), (33, 43404), (40, 43317), (53, 43236),

Gene: PhishRPhriends_74 Start: 43478, Stop: 43044, Start Num: 6

Candidate Starts for PhishRPhriends_74:

(Start: 6 @43478 has 234 MA's), (18, 43376), (20, 43367), (23, 43346), (24, 43343), (26, 43313), (29, 43301), (31, 43250), (32, 43247), (34, 43220), (36, 43211), (37, 43190), (38, 43172), (40, 43163), (41, 43160), (44, 43136), (57, 43058),

Gene: Phoebe_79 Start: 44476, Stop: 44039, Start Num: 6

Candidate Starts for Phoebe_79:

(Start: 6 @44476 has 234 MA's), (18, 44374), (20, 44365), (21, 44362), (23, 44344), (24, 44341), (26, 44311), (29, 44299), (31, 44245), (32, 44242), (38, 44164), (40, 44155), (44, 44128), (47, 44095), (57, 44050),

Gene: Phontbonne_69 Start: 43483, Stop: 43061, Start Num: 6

Candidate Starts for Phontbonne_69:

(Start: 6 @43483 has 234 MA's), (25, 43330), (30, 43288), (33, 43246), (40, 43159), (53, 43078),

Gene: Phoxy_78 Start: 44505, Stop: 44071, Start Num: 6

Candidate Starts for Phoxy_78:

(Start: 6 @44505 has 234 MA's), (18, 44403), (20, 44394), (21, 44391), (23, 44373), (24, 44370), (26, 44340), (29, 44328), (31, 44277), (32, 44274), (38, 44196), (40, 44187), (44, 44160), (47, 44127), (57, 44082),

Gene: Phranny_74 Start: 43461, Stop: 43027, Start Num: 6

Candidate Starts for Phranny_74:

(Start: 6 @43461 has 234 MA's), (18, 43359), (20, 43350), (23, 43329), (24, 43326), (26, 43296), (29, 43284), (31, 43233), (32, 43230), (34, 43203), (36, 43194), (37, 43173), (38, 43155), (40, 43146), (41, 43143), (44, 43119), (57, 43041),

Gene: Pipcraft_66 Start: 43577, Stop: 43155, Start Num: 6

Candidate Starts for Pipcraft_66:

(Start: 6 @43577 has 234 MA's), (25, 43424), (30, 43382), (33, 43340), (40, 43253), (53, 43172),

Gene: Pistachio_72 Start: 43638, Stop: 43225, Start Num: 6

Candidate Starts for Pistachio_72:

(Start: 6 @43638 has 234 MA's), (18, 43536), (20, 43527), (26, 43473), (32, 43404), (33, 43401), (34, 43377), (35, 43371), (54, 43233),

Gene: Pocahontas_71 Start: 44045, Stop: 43632, Start Num: 6

Candidate Starts for Pocahontas_71:

(4, 44069), (Start: 6 @44045 has 234 MA's), (18, 43943), (19, 43937), (26, 43880), (29, 43868), (32, 43811), (34, 43784), (40, 43724), (43, 43709), (53, 43646),

Gene: Polymorphads_69 Start: 43597, Stop: 43175, Start Num: 6

Candidate Starts for Polymorphads_69:

(Start: 6 @43597 has 234 MA's), (25, 43444), (30, 43402), (33, 43360), (40, 43273), (53, 43192),

Gene: Poompha_66 Start: 42517, Stop: 42086, Start Num: 6

Candidate Starts for Poompha_66:

(Start: 6 @42517 has 234 MA's), (9, 42472), (10, 42469), (17, 42430), (22, 42388), (26, 42352), (27, 42349), (29, 42340), (32, 42268), (33, 42265), (42, 42175), (50, 42121), (53, 42103),

Gene: Popcicle_72 Start: 44045, Stop: 43632, Start Num: 6

Candidate Starts for Popcicle_72:

(4, 44069), (Start: 6 @44045 has 234 MA's), (18, 43943), (19, 43937), (26, 43880), (29, 43868), (32, 43811), (34, 43784), (40, 43724), (43, 43709), (53, 43646),

Gene: PotatoSplit_79 Start: 44484, Stop: 44050, Start Num: 6

Candidate Starts for PotatoSplit_79:

(Start: 6 @44484 has 234 MA's), (18, 44382), (20, 44373), (21, 44370), (23, 44352), (24, 44349), (26, 44319), (29, 44307), (31, 44256), (32, 44253), (38, 44175), (40, 44166), (44, 44139), (47, 44106), (57, 44061),

Gene: Pumbaa_69 Start: 43522, Stop: 43100, Start Num: 6

Candidate Starts for Pumbaa_69:

(Start: 6 @43522 has 234 MA's), (25, 43369), (30, 43327), (33, 43285), (40, 43198), (53, 43117),

Gene: Puppy_73 Start: 43710, Stop: 43297, Start Num: 6

Candidate Starts for Puppy_73:

(Start: 6 @43710 has 234 MA's), (18, 43608), (20, 43599), (26, 43545), (32, 43476), (33, 43473), (34, 43449), (35, 43443), (54, 43305),

Gene: PurpleHaze_77 Start: 44293, Stop: 43862, Start Num: 6

Candidate Starts for PurpleHaze_77:

(Start: 6 @44293 has 234 MA's), (18, 44191), (20, 44182), (23, 44161), (24, 44158), (29, 44116), (31, 44065), (32, 44062), (34, 44035), (37, 44005), (38, 43987), (40, 43978), (44, 43951), (57, 43873),

Gene: QuinnKiro_71 Start: 44048, Stop: 43635, Start Num: 6

Candidate Starts for QuinnKiro_71:

(4, 44072), (Start: 6 @44048 has 234 MA's), (18, 43946), (19, 43940), (26, 43883), (29, 43871), (32, 43814), (34, 43787), (40, 43727), (43, 43712), (53, 43649),

Gene: Reba_73 Start: 43134, Stop: 42700, Start Num: 6

Candidate Starts for Reba_73:

(Start: 6 @43134 has 234 MA's), (18, 43032), (20, 43023), (23, 43002), (24, 42999), (26, 42969), (29, 42957), (31, 42906), (32, 42903), (34, 42876), (36, 42867), (37, 42846), (38, 42828), (40, 42819), (41, 42816), (44, 42792), (57, 42714),

Gene: Rebeuca_70 Start: 43821, Stop: 43390, Start Num: 6

Candidate Starts for Rebeuca_70:

(Start: 6 @43821 has 234 MA's), (10, 43773), (20, 43710), (22, 43692), (26, 43656), (29, 43644), (32, 43572), (33, 43569), (40, 43488), (42, 43479), (45, 43455), (50, 43425),

Gene: Relief_68 Start: 43574, Stop: 43152, Start Num: 6

Candidate Starts for Relief_68:

(Start: 6 @43574 has 234 MA's), (25, 43421), (30, 43379), (33, 43337), (40, 43250), (53, 43169),

Gene: ResDef_70 Start: 44048, Stop: 43635, Start Num: 6

Candidate Starts for ResDef_70:

(3, 44087), (Start: 6 @44048 has 234 MA's), (18, 43946), (19, 43940), (26, 43883), (29, 43871), (32, 43814), (34, 43787), (40, 43727), (43, 43712), (53, 43649),

Gene: Rockstar_71 Start: 43557, Stop: 43144, Start Num: 6

Candidate Starts for Rockstar_71:

(Start: 6 @43557 has 234 MA's), (18, 43455), (26, 43392), (32, 43323), (33, 43320), (34, 43296), (54, 43152),

Gene: Romney_68 Start: 43574, Stop: 43152, Start Num: 6

Candidate Starts for Romney_68:

(Start: 6 @43574 has 234 MA's), (25, 43421), (30, 43379), (33, 43337), (40, 43250), (53, 43169),

Gene: Roosevelt_67 Start: 43579, Stop: 43157, Start Num: 6

Candidate Starts for Roosevelt_67:

(Start: 6 @43579 has 234 MA's), (25, 43426), (30, 43384), (33, 43342), (40, 43255), (53, 43174),

Gene: Ruin_69 Start: 43570, Stop: 43148, Start Num: 6

Candidate Starts for Ruin_69:

(Start: 6 @43570 has 234 MA's), (25, 43417), (30, 43375), (33, 43333), (40, 43246), (53, 43165),

Gene: Rummer_77 Start: 44508, Stop: 44074, Start Num: 6

Candidate Starts for Rummer_77:

(Start: 6 @44508 has 234 MA's), (18, 44406), (20, 44397), (21, 44394), (23, 44376), (24, 44373), (26, 44343), (29, 44331), (31, 44280), (32, 44277), (38, 44199), (40, 44190), (44, 44163), (47, 44130), (57, 44085),

Gene: Sabertooth_69 Start: 43579, Stop: 43157, Start Num: 6

Candidate Starts for Sabertooth_69:

(Start: 6 @43579 has 234 MA's), (25, 43426), (30, 43384), (33, 43342), (40, 43255), (53, 43174),

Gene: Sabia_76 Start: 44488, Stop: 44054, Start Num: 6

Candidate Starts for Sabia_76:

(Start: 6 @44488 has 234 MA's), (18, 44386), (20, 44377), (21, 44374), (23, 44356), (24, 44353), (26, 44323), (29, 44311), (31, 44260), (32, 44257), (34, 44230), (38, 44179), (40, 44170), (44, 44143), (47, 44110), (57, 44065),

Gene: Sabinator_76 Start: 44482, Stop: 44045, Start Num: 6

Candidate Starts for Sabinator_76:

(Start: 6 @44482 has 234 MA's), (18, 44380), (20, 44371), (21, 44368), (23, 44350), (24, 44347), (26, 44317), (29, 44305), (31, 44251), (32, 44248), (38, 44170), (40, 44161), (44, 44134), (47, 44101), (57, 44056),

Gene: SaturnRing_72 Start: 44091, Stop: 43678, Start Num: 6

Candidate Starts for SaturnRing_72:

(Start: 6 @44091 has 234 MA's), (18, 43989), (20, 43980), (26, 43926), (32, 43857), (33, 43854), (34, 43830), (35, 43824), (54, 43686),

Gene: Scamp_69 Start: 43579, Stop: 43157, Start Num: 6

Candidate Starts for Scamp_69:

(Start: 6 @43579 has 234 MA's), (25, 43426), (30, 43384), (33, 43342), (40, 43255), (53, 43174),

Gene: Scout_71 Start: 43261, Stop: 42848, Start Num: 6

Candidate Starts for Scout_71:

(Start: 6 @43261 has 234 MA's), (18, 43159), (20, 43150), (26, 43096), (29, 43084), (32, 43027), (33, 43024), (34, 43000), (35, 42994), (39, 42949), (53, 42862), (54, 42856),

Gene: Severus_67 Start: 42517, Stop: 42086, Start Num: 6

Candidate Starts for Severus_67:

(Start: 6 @42517 has 234 MA's), (9, 42472), (10, 42469), (17, 42430), (22, 42388), (26, 42352), (27, 42349), (29, 42340), (32, 42268), (33, 42265), (42, 42175), (50, 42121), (53, 42103),

Gene: Shaka_67 Start: 43574, Stop: 43152, Start Num: 6

Candidate Starts for Shaka_67:

(Start: 6 @43574 has 234 MA's), (25, 43421), (30, 43379), (33, 43337), (40, 43250), (53, 43169),

Gene: Sheen_73 Start: 47483, Stop: 47070, Start Num: 6

Candidate Starts for Sheen_73:

(Start: 6 @47483 has 234 MA's), (10, 47435), (18, 47381), (20, 47372), (22, 47354), (23, 47351), (24, 47348), (26, 47318), (29, 47306), (32, 47249), (33, 47246), (34, 47222), (40, 47165), (52, 47087),

Gene: SheldonCooper_69 Start: 44017, Stop: 43595, Start Num: 6

Candidate Starts for SheldonCooper_69:

(Start: 6 @44017 has 234 MA's), (25, 43864), (30, 43822), (33, 43780), (40, 43693), (53, 43612),

Gene: Skipitt_68 Start: 43571, Stop: 43149, Start Num: 6

Candidate Starts for Skipitt_68:

(Start: 6 @43571 has 234 MA's), (25, 43418), (30, 43376), (33, 43334), (40, 43247), (53, 43166),

Gene: SoYo_75 Start: 44395, Stop: 43958, Start Num: 6

Candidate Starts for SoYo_75:

(Start: 6 @44395 has 234 MA's), (18, 44293), (20, 44284), (21, 44281), (23, 44263), (24, 44260), (26, 44230), (29, 44218), (31, 44164), (32, 44161), (38, 44083), (40, 44074), (44, 44047), (47, 44014), (57, 43969),

Gene: SoilDragon_77 Start: 43927, Stop: 43493, Start Num: 6

Candidate Starts for SoilDragon_77:

(Start: 6 @43927 has 234 MA's), (18, 43825), (20, 43816), (23, 43795), (24, 43792), (26, 43762), (29, 43750), (31, 43699), (32, 43696), (34, 43669), (37, 43639), (38, 43621), (41, 43609), (44, 43585), (57, 43507),

Gene: Soshari_80 Start: 44504, Stop: 44070, Start Num: 6

Candidate Starts for Soshari_80:

(Start: 6 @44504 has 234 MA's), (18, 44402), (20, 44393), (21, 44390), (23, 44372), (24, 44369), (26, 44339), (29, 44327), (31, 44276), (32, 44273), (38, 44195), (40, 44186), (44, 44159), (47, 44126), (57, 44081),

Gene: Sparxx_70 Start: 43572, Stop: 43150, Start Num: 6

Candidate Starts for Sparxx_70:

(Start: 6 @43572 has 234 MA's), (25, 43419), (30, 43377), (33, 43335), (40, 43248), (53, 43167),

Gene: Spike509_78 Start: 44505, Stop: 44071, Start Num: 6

Candidate Starts for Spike509_78:

(Start: 6 @44505 has 234 MA's), (18, 44403), (20, 44394), (21, 44391), (23, 44373), (24, 44370), (26, 44340), (29, 44328), (31, 44277), (32, 44274), (38, 44196), (40, 44187), (44, 44160), (47, 44127), (57, 44082),

Gene: Spino_68 Start: 43580, Stop: 43158, Start Num: 6

Candidate Starts for Spino_68:

(Start: 6 @43580 has 234 MA's), (25, 43427), (30, 43385), (33, 43343), (40, 43256), (53, 43175),

Gene: Stagni_75 Start: 44483, Stop: 44049, Start Num: 6

Candidate Starts for Stagni_75:

(Start: 6 @44483 has 234 MA's), (18, 44381), (20, 44372), (21, 44369), (23, 44351), (24, 44348), (26, 44318), (29, 44306), (31, 44255), (32, 44252), (34, 44225), (38, 44174), (40, 44165), (44, 44138), (47, 44105), (57, 44060),

Gene: Stasia_68 Start: 43786, Stop: 43364, Start Num: 6

Candidate Starts for Stasia_68:

(Start: 6 @43786 has 234 MA's), (16, 43714), (18, 43684), (22, 43657), (33, 43549), (40, 43465), (46, 43417), (49, 43405), (54, 43378),

Gene: StepMih_77 Start: 44474, Stop: 44040, Start Num: 6

Candidate Starts for StepMih_77:

(Start: 6 @44474 has 234 MA's), (18, 44372), (20, 44363), (21, 44360), (23, 44342), (24, 44339), (26, 44309), (29, 44297), (31, 44246), (32, 44243), (34, 44216), (38, 44165), (40, 44156), (44, 44129), (47, 44096), (57, 44051),

Gene: TNguyen7_73 Start: 44051, Stop: 43638, Start Num: 6

Candidate Starts for TNguyen7_73:

(Start: 6 @44051 has 234 MA's), (18, 43949), (20, 43940), (26, 43886), (32, 43817), (33, 43814), (34, 43790), (35, 43784), (54, 43646),

Gene: Taquarus_68 Start: 43580, Stop: 43158, Start Num: 6

Candidate Starts for Taquarus_68:

(Start: 6 @43580 has 234 MA's), (25, 43427), (30, 43385), (33, 43343), (40, 43256), (53, 43175),

Gene: Taurus_79 Start: 44483, Stop: 44046, Start Num: 6

Candidate Starts for Taurus_79:

(Start: 6 @44483 has 234 MA's), (18, 44381), (20, 44372), (21, 44369), (23, 44351), (24, 44348), (26, 44318), (29, 44306), (31, 44252), (32, 44249), (38, 44171), (40, 44162), (44, 44135), (47, 44102), (57, 44057),

Gene: Texage_70 Start: 44049, Stop: 43636, Start Num: 6

Candidate Starts for Texage_70:

(4, 44073), (Start: 6 @44049 has 234 MA's), (18, 43947), (19, 43941), (26, 43884), (29, 43872), (32, 43815), (34, 43788), (40, 43728), (43, 43713), (53, 43650),

Gene: Thanksgivukkah_68 Start: 43575, Stop: 43153, Start Num: 6

Candidate Starts for Thanksgivukkah_68:

(Start: 6 @43575 has 234 MA's), (25, 43422), (30, 43380), (33, 43338), (40, 43251), (53, 43170),

Gene: Tiffany_77 Start: 44368, Stop: 43931, Start Num: 6

Candidate Starts for Tiffany_77:

(Start: 6 @44368 has 234 MA's), (18, 44266), (20, 44257), (21, 44254), (23, 44236), (24, 44233), (26, 44203), (29, 44191), (31, 44137), (32, 44134), (38, 44056), (40, 44047), (44, 44020), (47, 43987), (57, 43942),

Gene: TinaFeyge_67 Start: 43572, Stop: 43150, Start Num: 6

Candidate Starts for TinaFeyge_67:

(Start: 6 @43572 has 234 MA's), (25, 43419), (30, 43377), (33, 43335), (40, 43248), (53, 43167),

Gene: Tinybot_68 Start: 43607, Stop: 43185, Start Num: 6

Candidate Starts for Tinybot_68:

(Start: 6 @43607 has 234 MA's), (25, 43454), (30, 43412), (33, 43370), (40, 43283), (53, 43202),

Gene: TiroTheta9_68 Start: 43571, Stop: 43149, Start Num: 6

Candidate Starts for TiroTheta9_68:

(Start: 6 @43571 has 234 MA's), (25, 43418), (30, 43376), (33, 43334), (40, 43247), (53, 43166),

Gene: Todacoro_72 Start: 44048, Stop: 43635, Start Num: 6

Candidate Starts for Todacoro_72:

(4, 44072), (Start: 6 @44048 has 234 MA's), (18, 43946), (19, 43940), (26, 43883), (29, 43871), (32, 43814), (34, 43787), (40, 43727), (43, 43712), (53, 43649),

Gene: Topanga_66 Start: 43246, Stop: 42815, Start Num: 6

Candidate Starts for Topanga_66:

(Start: 6 @43246 has 234 MA's), (10, 43198), (22, 43117), (26, 43081), (32, 42997), (33, 42994), (40, 42913), (42, 42904), (45, 42880), (50, 42850), (55, 42823), (56, 42820),

Gene: TroyPia_70 Start: 43611, Stop: 43189, Start Num: 6

Candidate Starts for TroyPia_70:

(Start: 6 @43611 has 234 MA's), (25, 43458), (30, 43416), (33, 43374), (40, 43287), (53, 43206),

Gene: Twister_68 Start: 43367, Stop: 42936, Start Num: 6

Candidate Starts for Twister_68:

(Start: 6 @43367 has 234 MA's), (10, 43319), (22, 43238), (26, 43202), (32, 43118), (33, 43115), (40, 43034), (42, 43025), (45, 43001), (50, 42971), (55, 42944), (56, 42941),

Gene: TygerBlood_69 Start: 43577, Stop: 43155, Start Num: 6

Candidate Starts for TygerBlood_69:

(Start: 6 @43577 has 234 MA's), (25, 43424), (30, 43382), (33, 43340), (40, 43253), (53, 43172),

Gene: Ulysses_68 Start: 43263, Stop: 42841, Start Num: 6

Candidate Starts for Ulysses_68:

(Start: 6 @43263 has 234 MA's), (25, 43110), (30, 43068), (33, 43026), (40, 42939), (53, 42858),

Gene: Veracruz_69 Start: 44048, Stop: 43635, Start Num: 6

Candidate Starts for Veracruz_69:

(4, 44072), (Start: 6 @44048 has 234 MA's), (18, 43946), (19, 43940), (26, 43883), (29, 43871), (32, 43814), (34, 43787), (40, 43727), (43, 43712), (53, 43649),

Gene: Vix_74 Start: 44563, Stop: 44129, Start Num: 6

Candidate Starts for Vix_74:

(Start: 6 @44563 has 234 MA's), (18, 44461), (20, 44452), (21, 44449), (23, 44431), (24, 44428), (26, 44398), (29, 44386), (31, 44335), (32, 44332), (34, 44305), (38, 44254), (40, 44245), (44, 44218), (47, 44185), (57, 44140),

Gene: WalterMcMickey_68 Start: 43367, Stop: 42936, Start Num: 6

Candidate Starts for WalterMcMickey_68:

(Start: 6 @43367 has 234 MA's), (10, 43319), (22, 43238), (26, 43202), (32, 43118), (33, 43115), (40, 43034), (42, 43025), (45, 43001), (50, 42971), (55, 42944), (56, 42941),

Gene: Wander_69 Start: 43574, Stop: 43152, Start Num: 6

Candidate Starts for Wander_69:

(Start: 6 @43574 has 234 MA's), (25, 43421), (30, 43379), (33, 43337), (40, 43250), (53, 43169),

Gene: Watson_77 Start: 44472, Stop: 44038, Start Num: 6

Candidate Starts for Watson_77:

(Start: 6 @44472 has 234 MA's), (18, 44370), (20, 44361), (21, 44358), (23, 44340), (24, 44337), (26, 44307), (29, 44295), (31, 44244), (32, 44241), (34, 44214), (38, 44163), (40, 44154), (44, 44127), (47, 44094), (57, 44049),

Gene: Wilbur_69 Start: 43574, Stop: 43152, Start Num: 6

Candidate Starts for Wilbur_69:

(Start: 6 @43574 has 234 MA's), (25, 43421), (30, 43379), (33, 43337), (40, 43250), (53, 43169),

Gene: Wooldri_80 Start: 44392, Stop: 43958, Start Num: 6

Candidate Starts for Wooldri_80:

(Start: 6 @44392 has 234 MA's), (18, 44290), (20, 44281), (23, 44260), (24, 44257), (29, 44215), (31, 44164), (32, 44161), (34, 44134), (36, 44125), (40, 44074), (46, 44020), (52, 43990), (57, 43969),

Gene: YoSam321_69 Start: 43571, Stop: 43149, Start Num: 6

Candidate Starts for YoSam321_69:

(Start: 6 @43571 has 234 MA's), (25, 43418), (30, 43376), (33, 43334), (40, 43247), (53, 43166),

Gene: Zetzy_75 Start: 44052, Stop: 43609, Start Num: 6

Candidate Starts for Zetzy_75:

(Start: 6 @44052 has 234 MA's), (7, 44040), (20, 43941), (23, 43920), (25, 43899), (26, 43887), (32, 43821), (34, 43794), (40, 43737), (46, 43683), (57, 43632), (58, 43620),