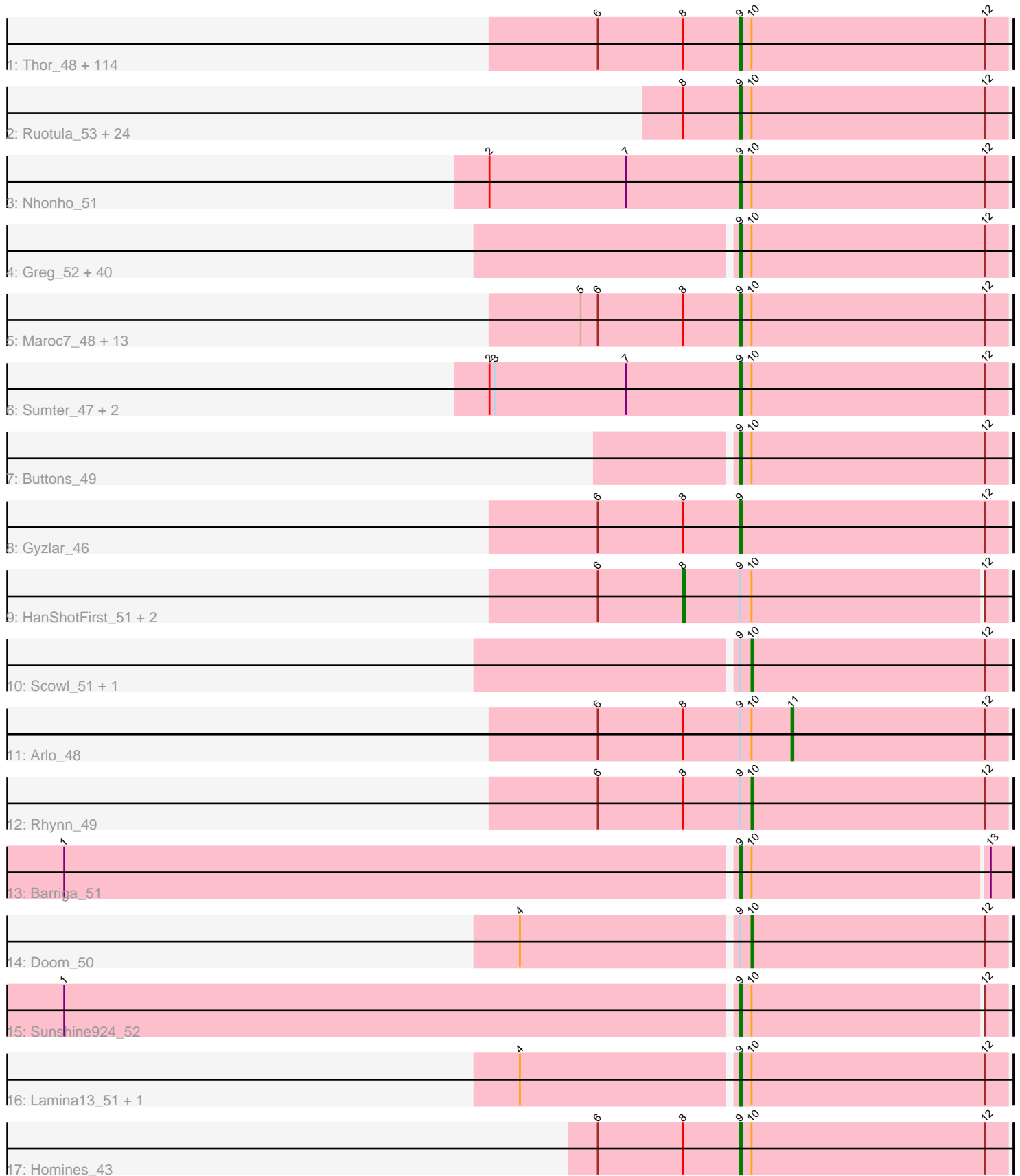


Pham 84872



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 84872 Report

This analysis was run 04/28/24 on database version 559.

Pham number 84872 has 214 members, 19 are drafts.

Phages represented in each track:

- Track 1 : Thor_48, Gandalf20_53, MaryBeth_50, Beatrix_50, SarFire_48, Fushigi_49, MrGordo_50, Bxb1_46, Smairt_52, Euphoria_48, Bigfoot_46, Jerm2_51, Carlyle_49, Corvo_51, Kugel_51, ConceptII_52, Marcell_48, Dussy_52, Rohr_51, MPlant7149_49, Wheeler_51, Zeeculate_48, Perseus_50, RidgeCB_50, Seanderson_52, Blue_50, Rutherford_52, Museum_51, Hami1_43, AFIS_48, ILeeKay_54, Manatee_52, Bethlehem_51, Rufus_51, Big3_50, Payneful_49, Dexes_51, Bob3_48, Zephyr_50, Crispicous1_48, BPBiebs31_51, Alsfro_54, TheloniousMonk_51, SpikeBT_50, Solon_49, PacerPaul_50, Fenn_53, Burton_50, Pinto_50, Paraselene_48, Jorgensen_52, Switzer_52, Parliament_50, SkiPole_55, Squee_51, BeesKnees_53, Violet_48, A6_46, Norz_51, Petruchio_50, Lopton_51, Snazzy_49, Pepe_47, Edtherson_50, BK1_46, Ajay_52, Altman_53, Arcanine_51, Espresso_50, PattyP_51, Abbyshoes_53, Anglerfish_52, Treddle_51, Pari_52, Makemake_50, Gompeii16_49, Applejack_46, BaconJack_53, Kanely_52, Monet_53, BigMau_51, Francis47_49, Marchy_44, Dynamix_52, U2_50, Ringer_51, ShortQueendom_44, Michley_50, Abrogate_490, Rubeus_50, Zeuska_49, Agaliana_46, LilBib_50, PascalRango_51, GageAP_51, Killigrew_51, Mryolo_48, Rajelicia_51, Mule_47, Kenmech_54, STLscum_53, QTRlifeCrisis_54, Niza_53, Marsha_50, Adahisdi_50, StewieG_49, Lockley_49, DD5_50, HermioneGrange_50, Slagathor_52, Bircsak_49, Naira_53, Ichabod_53, MetalQZJ_49, CactusRose_48
- Track 2 : Ruotula_53, Hermia_51, Swole_51, JuliaChild_51, Tote_46, DreamCatcher_54, JackSparrow_52, Marge_50, PinkPlastic_51, Briton15_54, McGuire_52, Molly_51, KSSJEB_50, Froghopper_48, KyMonks1A_52, Atkinbua_53, Dulcie_51, Petp2012_51, Papez_53, Seabiscuit_53, TwoPeat_50, Pita2_53, Sibs6_52, PSullivan_50, Acme_52
- Track 3 : Nhonho_51
- Track 4 : Greg_52, Magnar_50, Sagefire_53, Trouble_53, BillKnuckles_51, PherrisBueller_50, Forsytheast_50, StrongArm_50, Paphu_48, SwissCheese_52, Fajezeel_52, Sandaddy_49, Bexan_49, Pelly_50, Dreamboat_52, Eyeball_52, Peterson_55, Graduation_54, IgnatiusPatJac_51, Gwendoluna_55, Ohno789_52, Nerujay_54, Ashballer_52, Hope4ever_53, Chanagan_47, Pippin_52, Target_51, Jasper_52, Bruns_49, Moose_50, Bones_51, JC27_52, DrFeelGood_48, Topgun_50, Ciao_50, BluSpix_50, Teodoridan_49, Kykar_50, Wilkins_50, Smeagol_52, Cueyllyss_52
- Track 5 : Maroc7_48, Fascinus_46, Licorice_53, Oogway_49, NEHalo_48, KBG_52, GrecoEtereo_51, Lesedi_47, Alvin_50, Traft412_53, Tripl3t_50, HarryOW_49, Watermelon_51, BigPaolini_50
- Track 6 : Sumter_47, Magnito_49, Turj99_49

- Track 7 : Buttons_49
- Track 8 : Gyzlar_46
- Track 9 : HanShotFirst_51, PhrostyMug_49, Aeneas_52
- Track 10 : Scowl_51, Sorpresa_48
- Track 11 : Arlo_48
- Track 12 : Rhynn_49
- Track 13 : Barriga_51
- Track 14 : Doom_50
- Track 15 : Sunshine924_52
- Track 16 : Lamina13_51, Tasp14_52
- Track 17 : Homines_43

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

The start number called the most often in the published annotations is 9, it was called in 188 of the 195 non-draft genes in the pham.

Genes that call this "Most Annotated" start:

• A6_46, AFIS_48, Abbyshoes_53, Abrogate_490, Acme_52, Adahisdi_50, Agaliana_46, Ajay_52, Alsfro_54, Altman_53, Alvin_50, Anglerfish_52, Applejack_46, Arcanine_51, Ashballer_52, Atkinbua_53, BK1_46, BPBiebs31_51, BaconJack_53, Barriga_51, Beatrix_50, BeesKnees_53, Bethlehem_51, Bexan_49, Big3_50, BigMau_51, BigPaolini_50, Bigfoot_46, BillKnuckles_51, Bircsak_49, BluSpix_50, Blue_50, Bob3_48, Bones_51, Briton15_54, Bruns_49, Burton_50, Buttons_49, Bxb1_46, CactusRose_48, Carlyle_49, Chanagan_47, Ciao_50, ConceptII_52, Corvo_51, Crispicous1_48, Cueylyss_52, DD5_50, Dexes_51, DrFeelGood_48, DreamCatcher_54, Dreamboat_52, Dulcie_51, Dussy_52, Dynamix_52, Edtherson_50, Espresso_50, Euphoria_48, Eyeball_52, Fajezeel_52, Fascinus_46, Fenn_53, Forsytheast_50, Francis47_49, Froghopper_48, Fushigi_49, GageAP_51, Gandalf20_53, Gompeii16_49, Graduation_54, GrecoEtereo_51, Greg_52, Gwendoluna_55, Gyzlar_46, Hami1_43, HarryOW_49, Hermia_51, HermioneGrange_50, Homines_43, Hope4ever_53, ILeeKay_54, Ichabod_53, IgnatiusPatJac_51, JC27_52, JackSparrow_52, Jasper_52, Jerm2_51, Jorgensen_52, JuliaChild_51, KBG_52, KSSJEB_50, Kanely_52, Kenmech_54, Killigrew_51, Kugel_51, KyMonks1A_52, Kykar_50, Lamina13_51, Lesedi_47, Licorice_53, LilBib_50, Lockley_49, Lopton_51, MPlant7149_49, Magnar_50, Magnito_49, Makemake_50, Manatee_52, Marcell_48, Marchy_44, Marge_50, Maroc7_48, Marsha_50, MaryBeth_50, McGuire_52, MetalQZJ_49, Michley_50, Molly_51, Monet_53, Moose_50, MrGordo_50, Mryolo_48, Mule_47, Museum_51, NEHalo_48, Naira_53, Nerujay_54, Nhonho_51, Niza_53, Norz_51, Ohno789_52, Oogway_49, PSullivan_50, PacerPaul_50, Papez_53, Paphu_48, Paraselene_48, Pari_52, Parliament_50, PascalRango_51, PattyP_51, Payneful_49, Pelly_50, Pepe_47, Perseus_50, Peterson_55, Petp2012_51, Petruchio_50, PherrisBueller_50, PinkPlastic_51, Pinto_50, Pippin_52, Pita2_53, QTRlifeCrisis_54, Rajelicia_51, RidgeCB_50, Ringer_51, Rohr_51, Rubeus_50, Rufus_51, Ruotula_53, Rutherford_52, STLscum_53, Sagefire_53, Sandaddy_49, SarFire_48, Seabiscuit_53, Seanderson_52, ShortQueendom_44, Sibs6_52, SkiPole_55, Slagathor_52, Smairt_52, Smeagol_52, Snazzy_49, Solon_49, SpikeBT_50, Squee_51, StewieG_49, StrongArm_50, Sumter_47, Sunshine924_52, SwissCheese_52, Switzer_52, Swole_51, Target_51, Tasp14_52, Teodoridan_49,

TheloniousMonk_51, Thor_48, Topgun_50, Tote_46, Traft412_53, Treddle_51, Tripl3t_50, Trouble_53, Turj99_49, TwoPeat_50, U2_50, Violet_48, Watermelon_51, Wheeler_51, Wilkins_50, Zeeculate_48, Zephyr_50, Zeuska_49,

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

- Aeneas_52, Arlo_48, Doom_50, HanShotFirst_51, PhrostyMug_49, Rhynn_49, Scowl_51, Sorpresa_48,

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

•

Summary by start number:

Start 8:

- Found in 161 of 214 (75.2%) of genes in pham
- Manual Annotations of this start: 3 of 195
- Called 1.9% of time when present
- Phage (with cluster) where this start called: Aeneas_52 (A1), HanShotFirst_51 (A1), PhrostyMug_49 (A1),

Start 9:

- Found in 214 of 214 (100.0%) of genes in pham
- Manual Annotations of this start: 188 of 195
- Called 96.3% of time when present
- Phage (with cluster) where this start called: A6_46 (A1), AFIS_48 (A1), Abbyshoes_53 (A1), Abrogate_490 (A1), Acme_52 (A1), Adahisdi_50 (A1), Agaliana_46 (A1), Ajay_52 (A1), Alsfro_54 (A1), Altman_53 (A1), Alvin_50 (A1), Anglerfish_52 (A1), Applejack_46 (A1), Arcanine_51 (A1), Ashballer_52 (A1), Atkinbua_53 (A1), BK1_46 (A1), BPBiebs31_51 (A1), BaconJack_53 (A1), Barriga_51 (A1), Beatrix_50 (A1), BeesKnees_53 (A1), Bethlehem_51 (A1), Bexan_49 (A1), Big3_50 (A1), BigMau_51 (A1), BigPaolini_50 (A1), Bigfoot_46 (A1), BillKnuckles_51 (A1), Bircsak_49 (A1), BluSpix_50 (A1), Blue_50 (A1), Bob3_48 (A1), Bones_51 (A1), Briton15_54 (A1), Bruns_49 (A1), Burton_50 (A1), Buttons_49 (A1), Bxb1_46 (A1), CactusRose_48 (A1), Carlyle_49 (A1), Chanagan_47 (A1), Ciao_50 (A1), ConceptII_52 (A1), Corvo_51 (A1), Crispicous1_48 (A1), Cueyllyss_52 (A1), DD5_50 (A1), Dexes_51 (A1), DrFeelGood_48 (A1), DreamCatcher_54 (A1), Dreamboat_52 (A1), Dulcie_51 (A1), Dussy_52 (A1), Dynamix_52 (A1), Edtherson_50 (A1), Espresso_50 (A1), Euphoria_48 (A1), Eyeball_52 (A1), Fajezeel_52 (A1), Fascinus_46 (A1), Fenn_53 (A1), Forsytheast_50 (A1), Francis47_49 (A1), Froghopper_48 (A1), Fushigi_49 (A1), GageAP_51 (A1), Gandalf20_53 (A1), Gompeii16_49 (A1), Graduation_54 (A1), GrecoEtereo_51 (A1), Greg_52 (A1), Gwendoluna_55 (A1), Gyzlar_46 (A1), Hami1_43 (A1), HarryOW_49 (A1), Hermia_51 (A1), HermioneGrange_50 (A1), Homines_43 (A1), Hope4ever_53 (A1), ILeeKay_54 (A1), Ichabod_53 (A1), IgnatiusPatJac_51 (A1), JC27_52 (A1), JackSparrow_52 (A1), Jasper_52 (A1), Jerm2_51 (A1), Jorgensen_52 (A1), JuliaChild_51 (A1), KBG_52 (A1), KSSJEB_50 (A1), Kanely_52 (A1), Kenmech_54 (A1), Killigrew_51 (A1), Kugel_51 (A1), KyMonks1A_52 (A1), Kykar_50 (A1), Lamina13_51 (A1), Lesedi_47 (A1), Licorice_53 (A1), LilBib_50 (A1), Lockley_49 (A1), Lopton_51 (A1), MPlant7149_49 (A1), Magnar_50 (A1), Magnito_49 (A1), Makemake_50 (A1), Manatee_52 (A1), Marcell_48 (A1), Marchy_44 (A1), Marge_50 (A1), Maroc7_48 (A1), Marsha_50 (A1), MaryBeth_50 (A1), McGuire_52 (A1), MetalQZJ_49 (A1), Michley_50 (A1), Molly_51 (A1), Monet_53 (A1), Moose_50 (A1), MrGordo_50 (A1), Mryolo_48 (A1), Mule_47 (A1), Museum_51 (A1), NEHalo_48

(A1), Naira_53 (A1), Nerujay_54 (A1), Nhonho_51 (A1), Niza_53 (A1), Norz_51 (A1), Ohno789_52 (A1), Oogway_49 (A1), PSullivan_50 (A1), PacerPaul_50 (A1), Papez_53 (A1), Paphu_48 (A1), Paraselene_48 (A1), Pari_52 (A1), Parliament_50 (A1), PascalRango_51 (A1), PattyP_51 (A1), Payneful_49 (A1), Pelly_50 (A1), Pepe_47 (A1), Perseus_50 (A1), Peterson_55 (A1), Petp2012_51 (A1), Petruchio_50 (A1), PherrisBueller_50 (A1), PinkPlastic_51 (A1), Pinto_50 (A1), Pippin_52 (A1), Pita2_53 (A1), QTRlifeCrisis_54 (A1), Rajelicia_51 (A1), RidgeCB_50 (A1), Ringer_51 (A1), Rohr_51 (A1), Rubeus_50 (A1), Rufus_51 (A1), Ruotula_53 (A1), Rutherford_52 (A1), STLscum_53 (A1), Sagefire_53 (A1), Sandaddy_49 (A1), SarFire_48 (A1), Seabiscuit_53 (A1), Seanderson_52 (A1), ShortQueendom_44 (A1), Sibs6_52 (A1), SkiPole_55 (A1), Slagathor_52 (A1), Smairt_52 (A1), Smeagol_52 (A1), Snazzy_49 (A1), Solon_49 (A1), SpikeBT_50 (A1), Squee_51 (A1), StewieG_49 (A1), StrongArm_50 (A1), Sumter_47 (A1), Sunshine924_52 (A1), SwissCheese_52 (A1), Switzer_52 (A1), Swole_51 (A1), Target_51 (A1), Tasp14_52 (A1), Teodoridan_49 (A1), TheloniousMonk_51 (A1), Thor_48 (A1), Topgun_50 (A1), Tote_46 (A1), Traft412_53 (A1), Treddle_51 (A1), Tripl3t_50 (A1), Trouble_53 (A1), Turj99_49 (A1), TwoPeat_50 (A1), U2_50 (A1), Violet_48 (A1), Watermelon_51 (A1), Wheeler_51 (A1), Wilkins_50 (A1), Zeeculate_48 (A1), Zephyr_50 (A1), Zeuska_49 (A1),

Start 10:

- Found in 213 of 214 (99.5%) of genes in pham
- Manual Annotations of this start: 3 of 195
- Called 1.9% of time when present
- Phage (with cluster) where this start called: Doom_50 (A1), Rhynn_49 (A1), Scowl_51 (A1), Sorpresa_48 (A1),

Start 11:

- Found in 1 of 214 (0.5%) of genes in pham
- Manual Annotations of this start: 1 of 195
- Called 100.0% of time when present
- Phage (with cluster) where this start called: Arlo_48 (A1),

Summary by clusters:

There is one cluster represented in this pham: A1

Info for manual annotations of cluster A1:

- Start number 8 was manually annotated 3 times for cluster A1.
- Start number 9 was manually annotated 188 times for cluster A1.
- Start number 10 was manually annotated 3 times for cluster A1.
- Start number 11 was manually annotated 1 time for cluster A1.

Gene Information:

Gene: A6_46 Start: 35434, Stop: 35294, Start Num: 9

Candidate Starts for A6_46:

(6, 35509), (Start: 8 @35464 has 3 MA's), (Start: 9 @35434 has 188 MA's), (Start: 10 @35428 has 3 MA's), (12, 35305),

Gene: AFIS_48 Start: 36238, Stop: 36098, Start Num: 9

Candidate Starts for AFIS_48:

(6, 36313), (Start: 8 @36268 has 3 MA's), (Start: 9 @36238 has 188 MA's), (Start: 10 @36232 has 3 MA's), (12, 36109),

Gene: Abbysshoes_53 Start: 36880, Stop: 36740, Start Num: 9

Candidate Starts for Abbysshoes_53:

(6, 36955), (Start: 8 @36910 has 3 MA's), (Start: 9 @36880 has 188 MA's), (Start: 10 @36874 has 3 MA's), (12, 36751),

Gene: Abrogate_490 Start: 36895, Stop: 36755, Start Num: 9

Candidate Starts for Abrogate_490:

(6, 36970), (Start: 8 @36925 has 3 MA's), (Start: 9 @36895 has 188 MA's), (Start: 10 @36889 has 3 MA's), (12, 36766),

Gene: Acme_52 Start: 36781, Stop: 36641, Start Num: 9

Candidate Starts for Acme_52:

(Start: 8 @36811 has 3 MA's), (Start: 9 @36781 has 188 MA's), (Start: 10 @36775 has 3 MA's), (12, 36652),

Gene: Adahisdi_50 Start: 36631, Stop: 36491, Start Num: 9

Candidate Starts for Adahisdi_50:

(6, 36706), (Start: 8 @36661 has 3 MA's), (Start: 9 @36631 has 188 MA's), (Start: 10 @36625 has 3 MA's), (12, 36502),

Gene: Aeneas_52 Start: 36872, Stop: 36702, Start Num: 8

Candidate Starts for Aeneas_52:

(6, 36917), (Start: 8 @36872 has 3 MA's), (Start: 9 @36842 has 188 MA's), (Start: 10 @36836 has 3 MA's), (12, 36713),

Gene: Agaliana_46 Start: 33489, Stop: 33349, Start Num: 9

Candidate Starts for Agaliana_46:

(6, 33564), (Start: 8 @33519 has 3 MA's), (Start: 9 @33489 has 188 MA's), (Start: 10 @33483 has 3 MA's), (12, 33360),

Gene: Ajay_52 Start: 36949, Stop: 36809, Start Num: 9

Candidate Starts for Ajay_52:

(6, 37024), (Start: 8 @36979 has 3 MA's), (Start: 9 @36949 has 188 MA's), (Start: 10 @36943 has 3 MA's), (12, 36820),

Gene: Alsfro_54 Start: 36955, Stop: 36815, Start Num: 9

Candidate Starts for Alsfro_54:

(6, 37030), (Start: 8 @36985 has 3 MA's), (Start: 9 @36955 has 188 MA's), (Start: 10 @36949 has 3 MA's), (12, 36826),

Gene: Altman_53 Start: 37547, Stop: 37407, Start Num: 9

Candidate Starts for Altman_53:

(6, 37622), (Start: 8 @37577 has 3 MA's), (Start: 9 @37547 has 188 MA's), (Start: 10 @37541 has 3 MA's), (12, 37418),

Gene: Alvin_50 Start: 37231, Stop: 37091, Start Num: 9

Candidate Starts for Alvin_50:

(5, 37315), (6, 37306), (Start: 8 @37261 has 3 MA's), (Start: 9 @37231 has 188 MA's), (Start: 10 @37225 has 3 MA's), (12, 37102),

Gene: Anglerfish_52 Start: 37103, Stop: 36963, Start Num: 9

Candidate Starts for Anglerfish_52:

(6, 37178), (Start: 8 @37133 has 3 MA's), (Start: 9 @37103 has 188 MA's), (Start: 10 @37097 has 3 MA's), (12, 36974),

Gene: Applejack_46 Start: 33111, Stop: 32971, Start Num: 9

Candidate Starts for Applejack_46:

(6, 33186), (Start: 8 @33141 has 3 MA's), (Start: 9 @33111 has 188 MA's), (Start: 10 @33105 has 3 MA's), (12, 32982),

Gene: Arcanine_51 Start: 36427, Stop: 36287, Start Num: 9

Candidate Starts for Arcanine_51:

(6, 36502), (Start: 8 @36457 has 3 MA's), (Start: 9 @36427 has 188 MA's), (Start: 10 @36421 has 3 MA's), (12, 36298),

Gene: Arlo_48 Start: 36057, Stop: 35944, Start Num: 11

Candidate Starts for Arlo_48:

(6, 36159), (Start: 8 @36114 has 3 MA's), (Start: 9 @36084 has 188 MA's), (Start: 10 @36078 has 3 MA's), (Start: 11 @36057 has 1 MA's), (12, 35955),

Gene: Ashballer_52 Start: 37580, Stop: 37440, Start Num: 9

Candidate Starts for Ashballer_52:

(Start: 9 @37580 has 188 MA's), (Start: 10 @37574 has 3 MA's), (12, 37451),

Gene: Atkinbua_53 Start: 37207, Stop: 37067, Start Num: 9

Candidate Starts for Atkinbua_53:

(Start: 8 @37237 has 3 MA's), (Start: 9 @37207 has 188 MA's), (Start: 10 @37201 has 3 MA's), (12, 37078),

Gene: BK1_46 Start: 35434, Stop: 35294, Start Num: 9

Candidate Starts for BK1_46:

(6, 35509), (Start: 8 @35464 has 3 MA's), (Start: 9 @35434 has 188 MA's), (Start: 10 @35428 has 3 MA's), (12, 35305),

Gene: BPBiebs31_51 Start: 36799, Stop: 36659, Start Num: 9

Candidate Starts for BPBiebs31_51:

(6, 36874), (Start: 8 @36829 has 3 MA's), (Start: 9 @36799 has 188 MA's), (Start: 10 @36793 has 3 MA's), (12, 36670),

Gene: BaconJack_53 Start: 37501, Stop: 37361, Start Num: 9

Candidate Starts for BaconJack_53:

(6, 37576), (Start: 8 @37531 has 3 MA's), (Start: 9 @37501 has 188 MA's), (Start: 10 @37495 has 3 MA's), (12, 37372),

Gene: Barriga_51 Start: 36345, Stop: 36205, Start Num: 9

Candidate Starts for Barriga_51:

(1, 36696), (Start: 9 @36345 has 188 MA's), (Start: 10 @36339 has 3 MA's), (13, 36216),

Gene: Beatrix_50 Start: 38055, Stop: 37915, Start Num: 9

Candidate Starts for Beatrix_50:

(6, 38130), (Start: 8 @38085 has 3 MA's), (Start: 9 @38055 has 188 MA's), (Start: 10 @38049 has 3 MA's), (12, 37926),

Gene: BeesKnees_53 Start: 37112, Stop: 36975, Start Num: 9

Candidate Starts for BeesKnees_53:

(6, 37187), (Start: 8 @37142 has 3 MA's), (Start: 9 @37112 has 188 MA's), (Start: 10 @37106 has 3 MA's), (12, 36986),

Gene: Bethlehem_51 Start: 37572, Stop: 37432, Start Num: 9

Candidate Starts for Bethlehem_51:

(6, 37647), (Start: 8 @37602 has 3 MA's), (Start: 9 @37572 has 188 MA's), (Start: 10 @37566 has 3 MA's), (12, 37443),

Gene: Bexan_49 Start: 37733, Stop: 37593, Start Num: 9

Candidate Starts for Bexan_49:

(Start: 9 @37733 has 188 MA's), (Start: 10 @37727 has 3 MA's), (12, 37604),

Gene: Big3_50 Start: 36972, Stop: 36832, Start Num: 9

Candidate Starts for Big3_50:

(6, 37047), (Start: 8 @37002 has 3 MA's), (Start: 9 @36972 has 188 MA's), (Start: 10 @36966 has 3 MA's), (12, 36843),

Gene: BigMau_51 Start: 36338, Stop: 36198, Start Num: 9

Candidate Starts for BigMau_51:

(6, 36413), (Start: 8 @36368 has 3 MA's), (Start: 9 @36338 has 188 MA's), (Start: 10 @36332 has 3 MA's), (12, 36209),

Gene: BigPaolini_50 Start: 35497, Stop: 35357, Start Num: 9

Candidate Starts for BigPaolini_50:

(5, 35581), (6, 35572), (Start: 8 @35527 has 3 MA's), (Start: 9 @35497 has 188 MA's), (Start: 10 @35491 has 3 MA's), (12, 35368),

Gene: Bigfoot_46 Start: 35718, Stop: 35578, Start Num: 9

Candidate Starts for Bigfoot_46:

(6, 35793), (Start: 8 @35748 has 3 MA's), (Start: 9 @35718 has 188 MA's), (Start: 10 @35712 has 3 MA's), (12, 35589),

Gene: BillKnuckles_51 Start: 37624, Stop: 37484, Start Num: 9

Candidate Starts for BillKnuckles_51:

(Start: 9 @37624 has 188 MA's), (Start: 10 @37618 has 3 MA's), (12, 37495),

Gene: Bircsak_49 Start: 37065, Stop: 36925, Start Num: 9

Candidate Starts for Bircsak_49:

(6, 37140), (Start: 8 @37095 has 3 MA's), (Start: 9 @37065 has 188 MA's), (Start: 10 @37059 has 3 MA's), (12, 36936),

Gene: BluSpix_50 Start: 33283, Stop: 33143, Start Num: 9

Candidate Starts for BluSpix_50:

(Start: 9 @33283 has 188 MA's), (Start: 10 @33277 has 3 MA's), (12, 33154),

Gene: Blue_50 Start: 36984, Stop: 36844, Start Num: 9

Candidate Starts for Blue_50:

(6, 37059), (Start: 8 @37014 has 3 MA's), (Start: 9 @36984 has 188 MA's), (Start: 10 @36978 has 3 MA's), (12, 36855),

Gene: Bob3_48 Start: 35688, Stop: 35548, Start Num: 9

Candidate Starts for Bob3_48:

(6, 35763), (Start: 8 @35718 has 3 MA's), (Start: 9 @35688 has 188 MA's), (Start: 10 @35682 has 3 MA's), (12, 35559),

Gene: Bones_51 Start: 37384, Stop: 37244, Start Num: 9

Candidate Starts for Bones_51:

(Start: 9 @37384 has 188 MA's), (Start: 10 @37378 has 3 MA's), (12, 37255),

Gene: Briton15_54 Start: 37338, Stop: 37201, Start Num: 9

Candidate Starts for Briton15_54:

(Start: 8 @37368 has 3 MA's), (Start: 9 @37338 has 188 MA's), (Start: 10 @37332 has 3 MA's), (12, 37212),

Gene: Bruns_49 Start: 36270, Stop: 36130, Start Num: 9

Candidate Starts for Bruns_49:

(Start: 9 @36270 has 188 MA's), (Start: 10 @36264 has 3 MA's), (12, 36141),

Gene: Burton_50 Start: 36236, Stop: 36096, Start Num: 9

Candidate Starts for Burton_50:

(6, 36311), (Start: 8 @36266 has 3 MA's), (Start: 9 @36236 has 188 MA's), (Start: 10 @36230 has 3 MA's), (12, 36107),

Gene: Buttons_49 Start: 35206, Stop: 35066, Start Num: 9

Candidate Starts for Buttons_49:

(Start: 9 @35206 has 188 MA's), (Start: 10 @35200 has 3 MA's), (12, 35077),

Gene: Bxb1_46 Start: 36015, Stop: 35875, Start Num: 9

Candidate Starts for Bxb1_46:

(6, 36090), (Start: 8 @36045 has 3 MA's), (Start: 9 @36015 has 188 MA's), (Start: 10 @36009 has 3 MA's), (12, 35886),

Gene: CactusRose_48 Start: 36213, Stop: 36073, Start Num: 9

Candidate Starts for CactusRose_48:

(6, 36288), (Start: 8 @36243 has 3 MA's), (Start: 9 @36213 has 188 MA's), (Start: 10 @36207 has 3 MA's), (12, 36084),

Gene: Carlyle_49 Start: 34710, Stop: 34570, Start Num: 9

Candidate Starts for Carlyle_49:

(6, 34785), (Start: 8 @34740 has 3 MA's), (Start: 9 @34710 has 188 MA's), (Start: 10 @34704 has 3 MA's), (12, 34581),

Gene: Chanagan_47 Start: 35513, Stop: 35373, Start Num: 9

Candidate Starts for Chanagan_47:

(Start: 9 @35513 has 188 MA's), (Start: 10 @35507 has 3 MA's), (12, 35384),

Gene: Ciao_50 Start: 36664, Stop: 36524, Start Num: 9

Candidate Starts for Ciao_50:

(Start: 9 @36664 has 188 MA's), (Start: 10 @36658 has 3 MA's), (12, 36535),

Gene: ConceptII_52 Start: 37380, Stop: 37240, Start Num: 9

Candidate Starts for ConceptII_52:

(6, 37455), (Start: 8 @37410 has 3 MA's), (Start: 9 @37380 has 188 MA's), (Start: 10 @37374 has 3 MA's), (12, 37251),

Gene: Corvo_51 Start: 37216, Stop: 37076, Start Num: 9

Candidate Starts for Corvo_51:

(6, 37291), (Start: 8 @37246 has 3 MA's), (Start: 9 @37216 has 188 MA's), (Start: 10 @37210 has 3 MA's), (12, 37087),

Gene: Crispicous1_48 Start: 35833, Stop: 35693, Start Num: 9

Candidate Starts for Crispicous1_48:

(6, 35908), (Start: 8 @35863 has 3 MA's), (Start: 9 @35833 has 188 MA's), (Start: 10 @35827 has 3 MA's), (12, 35704),

Gene: Cueylyss_52 Start: 38517, Stop: 38377, Start Num: 9

Candidate Starts for Cueylyss_52:

(Start: 9 @38517 has 188 MA's), (Start: 10 @38511 has 3 MA's), (12, 38388),

Gene: DD5_50 Start: 37419, Stop: 37282, Start Num: 9

Candidate Starts for DD5_50:

(6, 37494), (Start: 8 @37449 has 3 MA's), (Start: 9 @37419 has 188 MA's), (Start: 10 @37413 has 3 MA's), (12, 37293),

Gene: Dexes_51 Start: 37569, Stop: 37429, Start Num: 9

Candidate Starts for Dexes_51:

(6, 37644), (Start: 8 @37599 has 3 MA's), (Start: 9 @37569 has 188 MA's), (Start: 10 @37563 has 3 MA's), (12, 37440),

Gene: Doom_50 Start: 36994, Stop: 36860, Start Num: 10

Candidate Starts for Doom_50:

(4, 37111), (Start: 9 @37000 has 188 MA's), (Start: 10 @36994 has 3 MA's), (12, 36871),

Gene: DrFeelGood_48 Start: 36684, Stop: 36544, Start Num: 9

Candidate Starts for DrFeelGood_48:

(Start: 9 @36684 has 188 MA's), (Start: 10 @36678 has 3 MA's), (12, 36555),

Gene: DreamCatcher_54 Start: 38090, Stop: 37950, Start Num: 9

Candidate Starts for DreamCatcher_54:

(Start: 8 @38120 has 3 MA's), (Start: 9 @38090 has 188 MA's), (Start: 10 @38084 has 3 MA's), (12, 37961),

Gene: Dreamboat_52 Start: 36440, Stop: 36300, Start Num: 9

Candidate Starts for Dreamboat_52:

(Start: 9 @36440 has 188 MA's), (Start: 10 @36434 has 3 MA's), (12, 36311),

Gene: Dulcie_51 Start: 36888, Stop: 36748, Start Num: 9

Candidate Starts for Dulcie_51:

(Start: 8 @36918 has 3 MA's), (Start: 9 @36888 has 188 MA's), (Start: 10 @36882 has 3 MA's), (12, 36759),

Gene: Dussy_52 Start: 36900, Stop: 36760, Start Num: 9

Candidate Starts for Dussy_52:

(6, 36975), (Start: 8 @36930 has 3 MA's), (Start: 9 @36900 has 188 MA's), (Start: 10 @36894 has 3 MA's), (12, 36771),

Gene: Dynamix_52 Start: 36910, Stop: 36770, Start Num: 9

Candidate Starts for Dynamix_52:

(6, 36985), (Start: 8 @36940 has 3 MA's), (Start: 9 @36910 has 188 MA's), (Start: 10 @36904 has 3 MA's), (12, 36781),

Gene: Edtherson_50 Start: 37164, Stop: 37024, Start Num: 9

Candidate Starts for Edtherson_50:

(6, 37239), (Start: 8 @37194 has 3 MA's), (Start: 9 @37164 has 188 MA's), (Start: 10 @37158 has 3 MA's), (12, 37035),

Gene: Espresso_50 Start: 36769, Stop: 36629, Start Num: 9

Candidate Starts for Espresso_50:

(6, 36844), (Start: 8 @36799 has 3 MA's), (Start: 9 @36769 has 188 MA's), (Start: 10 @36763 has 3 MA's), (12, 36640),

Gene: Euphoria_48 Start: 36020, Stop: 35880, Start Num: 9

Candidate Starts for Euphoria_48:

(6, 36095), (Start: 8 @36050 has 3 MA's), (Start: 9 @36020 has 188 MA's), (Start: 10 @36014 has 3 MA's), (12, 35891),

Gene: Eyeball_52 Start: 37264, Stop: 37124, Start Num: 9

Candidate Starts for Eyeball_52:

(Start: 9 @37264 has 188 MA's), (Start: 10 @37258 has 3 MA's), (12, 37135),

Gene: Fajezeel_52 Start: 37013, Stop: 36873, Start Num: 9

Candidate Starts for Fajezeel_52:

(Start: 9 @37013 has 188 MA's), (Start: 10 @37007 has 3 MA's), (12, 36884),

Gene: Fascinus_46 Start: 35939, Stop: 35799, Start Num: 9

Candidate Starts for Fascinus_46:

(5, 36023), (6, 36014), (Start: 8 @35969 has 3 MA's), (Start: 9 @35939 has 188 MA's), (Start: 10 @35933 has 3 MA's), (12, 35810),

Gene: Fenn_53 Start: 38841, Stop: 38701, Start Num: 9

Candidate Starts for Fenn_53:

(6, 38916), (Start: 8 @38871 has 3 MA's), (Start: 9 @38841 has 188 MA's), (Start: 10 @38835 has 3 MA's), (12, 38712),

Gene: Forsytheast_50 Start: 36488, Stop: 36348, Start Num: 9

Candidate Starts for Forsytheast_50:

(Start: 9 @36488 has 188 MA's), (Start: 10 @36482 has 3 MA's), (12, 36359),

Gene: Francis47_49 Start: 37333, Stop: 37193, Start Num: 9

Candidate Starts for Francis47_49:

(6, 37408), (Start: 8 @37363 has 3 MA's), (Start: 9 @37333 has 188 MA's), (Start: 10 @37327 has 3 MA's), (12, 37204),

Gene: Froghopper_48 Start: 36009, Stop: 35869, Start Num: 9

Candidate Starts for Froghopper_48:

(Start: 8 @36039 has 3 MA's), (Start: 9 @36009 has 188 MA's), (Start: 10 @36003 has 3 MA's), (12, 35880),

Gene: Fushigi_49 Start: 34970, Stop: 34830, Start Num: 9

Candidate Starts for Fushigi_49:

(6, 35045), (Start: 8 @35000 has 3 MA's), (Start: 9 @34970 has 188 MA's), (Start: 10 @34964 has 3 MA's), (12, 34841),

Gene: GageAP_51 Start: 36809, Stop: 36669, Start Num: 9

Candidate Starts for GageAP_51:

(6, 36884), (Start: 8 @36839 has 3 MA's), (Start: 9 @36809 has 188 MA's), (Start: 10 @36803 has 3 MA's), (12, 36680),

Gene: Gandalf20_53 Start: 37862, Stop: 37722, Start Num: 9

Candidate Starts for Gandalf20_53:

(6, 37937), (Start: 8 @37892 has 3 MA's), (Start: 9 @37862 has 188 MA's), (Start: 10 @37856 has 3 MA's), (12, 37733),

Gene: Gompeii16_49 Start: 37066, Stop: 36926, Start Num: 9

Candidate Starts for Gompeii16_49:

(6, 37141), (Start: 8 @37096 has 3 MA's), (Start: 9 @37066 has 188 MA's), (Start: 10 @37060 has 3 MA's), (12, 36937),

Gene: Graduation_54 Start: 38589, Stop: 38449, Start Num: 9

Candidate Starts for Graduation_54:

(Start: 9 @38589 has 188 MA's), (Start: 10 @38583 has 3 MA's), (12, 38460),

Gene: GrecoEtereo_51 Start: 36821, Stop: 36681, Start Num: 9

Candidate Starts for GrecoEtereo_51:

(5, 36905), (6, 36896), (Start: 8 @36851 has 3 MA's), (Start: 9 @36821 has 188 MA's), (Start: 10 @36815 has 3 MA's), (12, 36692),

Gene: Greg_52 Start: 37013, Stop: 36873, Start Num: 9

Candidate Starts for Greg_52:

(Start: 9 @37013 has 188 MA's), (Start: 10 @37007 has 3 MA's), (12, 36884),

Gene: Gwendoluna_55 Start: 39025, Stop: 38885, Start Num: 9

Candidate Starts for Gwendoluna_55:

(Start: 9 @39025 has 188 MA's), (Start: 10 @39019 has 3 MA's), (12, 38896),

Gene: Gyzlar_46 Start: 34735, Stop: 34595, Start Num: 9

Candidate Starts for Gyzlar_46:

(6, 34810), (Start: 8 @34765 has 3 MA's), (Start: 9 @34735 has 188 MA's), (12, 34606),

Gene: Hami1_43 Start: 31116, Stop: 30976, Start Num: 9

Candidate Starts for Hami1_43:

(6, 31191), (Start: 8 @31146 has 3 MA's), (Start: 9 @31116 has 188 MA's), (Start: 10 @31110 has 3 MA's), (12, 30987),

Gene: HanShotFirst_51 Start: 36440, Stop: 36273, Start Num: 8

Candidate Starts for HanShotFirst_51:

(6, 36485), (Start: 8 @36440 has 3 MA's), (Start: 9 @36410 has 188 MA's), (Start: 10 @36404 has 3 MA's), (12, 36284),

Gene: HarryOW_49 Start: 35993, Stop: 35853, Start Num: 9

Candidate Starts for HarryOW_49:

(5, 36077), (6, 36068), (Start: 8 @36023 has 3 MA's), (Start: 9 @35993 has 188 MA's), (Start: 10 @35987 has 3 MA's), (12, 35864),

Gene: Hermia_51 Start: 37440, Stop: 37300, Start Num: 9

Candidate Starts for Hermia_51:

(Start: 8 @37470 has 3 MA's), (Start: 9 @37440 has 188 MA's), (Start: 10 @37434 has 3 MA's), (12, 37311),

Gene: HermioneGrange_50 Start: 36832, Stop: 36692, Start Num: 9

Candidate Starts for HermioneGrange_50:

(6, 36907), (Start: 8 @36862 has 3 MA's), (Start: 9 @36832 has 188 MA's), (Start: 10 @36826 has 3 MA's), (12, 36703),

Gene: Homines_43 Start: 33006, Stop: 32866, Start Num: 9

Candidate Starts for Homines_43:

(6, 33081), (Start: 8 @33036 has 3 MA's), (Start: 9 @33006 has 188 MA's), (Start: 10 @33000 has 3 MA's), (12, 32877),

Gene: Hope4ever_53 Start: 37649, Stop: 37509, Start Num: 9

Candidate Starts for Hope4ever_53:

(Start: 9 @37649 has 188 MA's), (Start: 10 @37643 has 3 MA's), (12, 37520),

Gene: ILeeKay_54 Start: 37602, Stop: 37462, Start Num: 9

Candidate Starts for ILeeKay_54:

(6, 37677), (Start: 8 @37632 has 3 MA's), (Start: 9 @37602 has 188 MA's), (Start: 10 @37596 has 3 MA's), (12, 37473),

Gene: Ichabod_53 Start: 37231, Stop: 37091, Start Num: 9

Candidate Starts for Ichabod_53:

(6, 37306), (Start: 8 @37261 has 3 MA's), (Start: 9 @37231 has 188 MA's), (Start: 10 @37225 has 3 MA's), (12, 37102),

Gene: IgnatiusPatJac_51 Start: 37228, Stop: 37088, Start Num: 9

Candidate Starts for IgnatiusPatJac_51:

(Start: 9 @37228 has 188 MA's), (Start: 10 @37222 has 3 MA's), (12, 37099),

Gene: JC27_52 Start: 37269, Stop: 37129, Start Num: 9

Candidate Starts for JC27_52:

(Start: 9 @37269 has 188 MA's), (Start: 10 @37263 has 3 MA's), (12, 37140),

Gene: JackSparrow_52 Start: 37241, Stop: 37104, Start Num: 9

Candidate Starts for JackSparrow_52:

(Start: 8 @37271 has 3 MA's), (Start: 9 @37241 has 188 MA's), (Start: 10 @37235 has 3 MA's), (12, 37115),

Gene: Jasper_52 Start: 36326, Stop: 36186, Start Num: 9

Candidate Starts for Jasper_52:

(Start: 9 @36326 has 188 MA's), (Start: 10 @36320 has 3 MA's), (12, 36197),

Gene: Jerm2_51 Start: 37087, Stop: 36947, Start Num: 9

Candidate Starts for Jerm2_51:

(6, 37162), (Start: 8 @37117 has 3 MA's), (Start: 9 @37087 has 188 MA's), (Start: 10 @37081 has 3 MA's), (12, 36958),

Gene: Jorgensen_52 Start: 36969, Stop: 36829, Start Num: 9

Candidate Starts for Jorgensen_52:

(6, 37044), (Start: 8 @36999 has 3 MA's), (Start: 9 @36969 has 188 MA's), (Start: 10 @36963 has 3 MA's), (12, 36840),

Gene: JuliaChild_51 Start: 36682, Stop: 36542, Start Num: 9

Candidate Starts for JuliaChild_51:

(Start: 8 @36712 has 3 MA's), (Start: 9 @36682 has 188 MA's), (Start: 10 @36676 has 3 MA's), (12, 36553),

Gene: KBG_52 Start: 38009, Stop: 37869, Start Num: 9

Candidate Starts for KBG_52:

(5, 38093), (6, 38084), (Start: 8 @38039 has 3 MA's), (Start: 9 @38009 has 188 MA's), (Start: 10 @38003 has 3 MA's), (12, 37880),

Gene: KSSJEB_50 Start: 36675, Stop: 36535, Start Num: 9

Candidate Starts for KSSJEB_50:

(Start: 8 @36705 has 3 MA's), (Start: 9 @36675 has 188 MA's), (Start: 10 @36669 has 3 MA's), (12, 36546),

Gene: Kanely_52 Start: 37324, Stop: 37184, Start Num: 9

Candidate Starts for Kanely_52:

(6, 37399), (Start: 8 @37354 has 3 MA's), (Start: 9 @37324 has 188 MA's), (Start: 10 @37318 has 3 MA's), (12, 37195),

Gene: Kenmech_54 Start: 38026, Stop: 37886, Start Num: 9

Candidate Starts for Kenmech_54:

(6, 38101), (Start: 8 @38056 has 3 MA's), (Start: 9 @38026 has 188 MA's), (Start: 10 @38020 has 3 MA's), (12, 37897),

Gene: Killigrew_51 Start: 36939, Stop: 36802, Start Num: 9

Candidate Starts for Killigrew_51:

(6, 37014), (Start: 8 @36969 has 3 MA's), (Start: 9 @36939 has 188 MA's), (Start: 10 @36933 has 3 MA's), (12, 36813),

Gene: Kugel_51 Start: 37007, Stop: 36867, Start Num: 9

Candidate Starts for Kugel_51:

(6, 37082), (Start: 8 @37037 has 3 MA's), (Start: 9 @37007 has 188 MA's), (Start: 10 @37001 has 3 MA's), (12, 36878),

Gene: KyMonks1A_52 Start: 36882, Stop: 36742, Start Num: 9

Candidate Starts for KyMonks1A_52:

(Start: 8 @36912 has 3 MA's), (Start: 9 @36882 has 188 MA's), (Start: 10 @36876 has 3 MA's), (12, 36753),

Gene: Kykar_50 Start: 36659, Stop: 36519, Start Num: 9

Candidate Starts for Kykar_50:

(Start: 9 @36659 has 188 MA's), (Start: 10 @36653 has 3 MA's), (12, 36530),

Gene: Lamina13_51 Start: 36636, Stop: 36496, Start Num: 9

Candidate Starts for Lamina13_51:

(4, 36747), (Start: 9 @36636 has 188 MA's), (Start: 10 @36630 has 3 MA's), (12, 36507),

Gene: Lesedi_47 Start: 35854, Stop: 35714, Start Num: 9

Candidate Starts for Lesedi_47:

(5, 35938), (6, 35929), (Start: 8 @35884 has 3 MA's), (Start: 9 @35854 has 188 MA's), (Start: 10 @35848 has 3 MA's), (12, 35725),

Gene: Licorice_53 Start: 38099, Stop: 37959, Start Num: 9

Candidate Starts for Licorice_53:

(5, 38183), (6, 38174), (Start: 8 @38129 has 3 MA's), (Start: 9 @38099 has 188 MA's), (Start: 10 @38093 has 3 MA's), (12, 37970),

Gene: LilBib_50 Start: 37157, Stop: 37017, Start Num: 9

Candidate Starts for LilBib_50:

(6, 37232), (Start: 8 @37187 has 3 MA's), (Start: 9 @37157 has 188 MA's), (Start: 10 @37151 has 3 MA's), (12, 37028),

Gene: Lockley_49 Start: 36581, Stop: 36444, Start Num: 9

Candidate Starts for Lockley_49:

(6, 36656), (Start: 8 @36611 has 3 MA's), (Start: 9 @36581 has 188 MA's), (Start: 10 @36575 has 3 MA's), (12, 36455),

Gene: Lopton_51 Start: 37984, Stop: 37844, Start Num: 9

Candidate Starts for Lopton_51:

(6, 38059), (Start: 8 @38014 has 3 MA's), (Start: 9 @37984 has 188 MA's), (Start: 10 @37978 has 3 MA's), (12, 37855),

Gene: MPlant7149_49 Start: 35950, Stop: 35810, Start Num: 9

Candidate Starts for MPlant7149_49:

(6, 36025), (Start: 8 @35980 has 3 MA's), (Start: 9 @35950 has 188 MA's), (Start: 10 @35944 has 3 MA's), (12, 35821),

Gene: Magnar_50 Start: 37400, Stop: 37260, Start Num: 9

Candidate Starts for Magnar_50:

(Start: 9 @37400 has 188 MA's), (Start: 10 @37394 has 3 MA's), (12, 37271),

Gene: Magnito_49 Start: 36004, Stop: 35864, Start Num: 9

Candidate Starts for Magnito_49:

(2, 36136), (3, 36133), (7, 36064), (Start: 9 @36004 has 188 MA's), (Start: 10 @35998 has 3 MA's), (12, 35875),

Gene: Makemake_50 Start: 37454, Stop: 37314, Start Num: 9

Candidate Starts for Makemake_50:

(6, 37529), (Start: 8 @37484 has 3 MA's), (Start: 9 @37454 has 188 MA's), (Start: 10 @37448 has 3 MA's), (12, 37325),

Gene: Manatee_52 Start: 36530, Stop: 36390, Start Num: 9

Candidate Starts for Manatee_52:

(6, 36605), (Start: 8 @36560 has 3 MA's), (Start: 9 @36530 has 188 MA's), (Start: 10 @36524 has 3 MA's), (12, 36401),

Gene: Marcell_48 Start: 36320, Stop: 36180, Start Num: 9

Candidate Starts for Marcell_48:

(6, 36395), (Start: 8 @36350 has 3 MA's), (Start: 9 @36320 has 188 MA's), (Start: 10 @36314 has 3 MA's), (12, 36191),

Gene: Marchy_44 Start: 33434, Stop: 33294, Start Num: 9

Candidate Starts for Marchy_44:

(6, 33509), (Start: 8 @33464 has 3 MA's), (Start: 9 @33434 has 188 MA's), (Start: 10 @33428 has 3 MA's), (12, 33305),

Gene: Marge_50 Start: 37131, Stop: 36991, Start Num: 9

Candidate Starts for Marge_50:

(Start: 8 @37161 has 3 MA's), (Start: 9 @37131 has 188 MA's), (Start: 10 @37125 has 3 MA's), (12, 37002),

Gene: Maroc7_48 Start: 36248, Stop: 36108, Start Num: 9

Candidate Starts for Maroc7_48:

(5, 36332), (6, 36323), (Start: 8 @36278 has 3 MA's), (Start: 9 @36248 has 188 MA's), (Start: 10 @36242 has 3 MA's), (12, 36119),

Gene: Marsha_50 Start: 37687, Stop: 37547, Start Num: 9

Candidate Starts for Marsha_50:

(6, 37762), (Start: 8 @37717 has 3 MA's), (Start: 9 @37687 has 188 MA's), (Start: 10 @37681 has 3 MA's), (12, 37558),

Gene: MaryBeth_50 Start: 36593, Stop: 36453, Start Num: 9

Candidate Starts for MaryBeth_50:

(6, 36668), (Start: 8 @36623 has 3 MA's), (Start: 9 @36593 has 188 MA's), (Start: 10 @36587 has 3 MA's), (12, 36464),

Gene: McGuire_52 Start: 36779, Stop: 36639, Start Num: 9

Candidate Starts for McGuire_52:

(Start: 8 @36809 has 3 MA's), (Start: 9 @36779 has 188 MA's), (Start: 10 @36773 has 3 MA's), (12, 36650),

Gene: MetalQZJ_49 Start: 36593, Stop: 36453, Start Num: 9

Candidate Starts for MetalQZJ_49:

(6, 36668), (Start: 8 @36623 has 3 MA's), (Start: 9 @36593 has 188 MA's), (Start: 10 @36587 has 3 MA's), (12, 36464),

Gene: Michley_50 Start: 36424, Stop: 36284, Start Num: 9

Candidate Starts for Michley_50:

(6, 36499), (Start: 8 @36454 has 3 MA's), (Start: 9 @36424 has 188 MA's), (Start: 10 @36418 has 3 MA's), (12, 36295),

Gene: Molly_51 Start: 35994, Stop: 35854, Start Num: 9

Candidate Starts for Molly_51:

(Start: 8 @36024 has 3 MA's), (Start: 9 @35994 has 188 MA's), (Start: 10 @35988 has 3 MA's), (12, 35865),

Gene: Monet_53 Start: 38123, Stop: 37983, Start Num: 9

Candidate Starts for Monet_53:

(6, 38198), (Start: 8 @38153 has 3 MA's), (Start: 9 @38123 has 188 MA's), (Start: 10 @38117 has 3 MA's), (12, 37994),

Gene: Moose_50 Start: 36488, Stop: 36348, Start Num: 9

Candidate Starts for Moose_50:

(Start: 9 @36488 has 188 MA's), (Start: 10 @36482 has 3 MA's), (12, 36359),

Gene: MrGordo_50 Start: 36212, Stop: 36072, Start Num: 9

Candidate Starts for MrGordo_50:

(6, 36287), (Start: 8 @36242 has 3 MA's), (Start: 9 @36212 has 188 MA's), (Start: 10 @36206 has 3 MA's), (12, 36083),

Gene: Mryolo_48 Start: 35996, Stop: 35856, Start Num: 9

Candidate Starts for Mryolo_48:

(6, 36071), (Start: 8 @36026 has 3 MA's), (Start: 9 @35996 has 188 MA's), (Start: 10 @35990 has 3 MA's), (12, 35867),

Gene: Mule_47 Start: 34137, Stop: 33997, Start Num: 9

Candidate Starts for Mule_47:

(6, 34212), (Start: 8 @34167 has 3 MA's), (Start: 9 @34137 has 188 MA's), (Start: 10 @34131 has 3 MA's), (12, 34008),

Gene: Museum_51 Start: 36175, Stop: 36035, Start Num: 9

Candidate Starts for Museum_51:

(6, 36250), (Start: 8 @36205 has 3 MA's), (Start: 9 @36175 has 188 MA's), (Start: 10 @36169 has 3 MA's), (12, 36046),

Gene: NEHalo_48 Start: 35912, Stop: 35772, Start Num: 9

Candidate Starts for NEHalo_48:

(5, 35996), (6, 35987), (Start: 8 @35942 has 3 MA's), (Start: 9 @35912 has 188 MA's), (Start: 10 @35906 has 3 MA's), (12, 35783),

Gene: Naira_53 Start: 38888, Stop: 38748, Start Num: 9

Candidate Starts for Naira_53:

(6, 38963), (Start: 8 @38918 has 3 MA's), (Start: 9 @38888 has 188 MA's), (Start: 10 @38882 has 3 MA's), (12, 38759),

Gene: Nerujay_54 Start: 37780, Stop: 37643, Start Num: 9

Candidate Starts for Nerujay_54:

(Start: 9 @37780 has 188 MA's), (Start: 10 @37774 has 3 MA's), (12, 37654),

Gene: Nhonho_51 Start: 37089, Stop: 36949, Start Num: 9

Candidate Starts for Nhonho_51:

(2, 37221), (7, 37149), (Start: 9 @37089 has 188 MA's), (Start: 10 @37083 has 3 MA's), (12, 36960),

Gene: Niza_53 Start: 37995, Stop: 37855, Start Num: 9

Candidate Starts for Niza_53:

(6, 38070), (Start: 8 @38025 has 3 MA's), (Start: 9 @37995 has 188 MA's), (Start: 10 @37989 has 3 MA's), (12, 37866),

Gene: Norz_51 Start: 37170, Stop: 37030, Start Num: 9

Candidate Starts for Norz_51:

(6, 37245), (Start: 8 @37200 has 3 MA's), (Start: 9 @37170 has 188 MA's), (Start: 10 @37164 has 3 MA's), (12, 37041),

Gene: Ohno789_52 Start: 37679, Stop: 37539, Start Num: 9

Candidate Starts for Ohno789_52:

(Start: 9 @37679 has 188 MA's), (Start: 10 @37673 has 3 MA's), (12, 37550),

Gene: Oogway_49 Start: 35840, Stop: 35700, Start Num: 9

Candidate Starts for Oogway_49:

(5, 35924), (6, 35915), (Start: 8 @35870 has 3 MA's), (Start: 9 @35840 has 188 MA's), (Start: 10 @35834 has 3 MA's), (12, 35711),

Gene: PSullivan_50 Start: 35956, Stop: 35816, Start Num: 9

Candidate Starts for PSullivan_50:

(Start: 8 @35986 has 3 MA's), (Start: 9 @35956 has 188 MA's), (Start: 10 @35950 has 3 MA's), (12, 35827),

Gene: PacerPaul_50 Start: 36700, Stop: 36560, Start Num: 9

Candidate Starts for PacerPaul_50:

(6, 36775), (Start: 8 @36730 has 3 MA's), (Start: 9 @36700 has 188 MA's), (Start: 10 @36694 has 3 MA's), (12, 36571),

Gene: Papez_53 Start: 39086, Stop: 38946, Start Num: 9

Candidate Starts for Papez_53:

(Start: 8 @39116 has 3 MA's), (Start: 9 @39086 has 188 MA's), (Start: 10 @39080 has 3 MA's), (12, 38957),

Gene: Paphu_48 Start: 36220, Stop: 36080, Start Num: 9

Candidate Starts for Paphu_48:

(Start: 9 @36220 has 188 MA's), (Start: 10 @36214 has 3 MA's), (12, 36091),

Gene: Paraselene_48 Start: 36584, Stop: 36444, Start Num: 9

Candidate Starts for Paraselene_48:

(6, 36659), (Start: 8 @36614 has 3 MA's), (Start: 9 @36584 has 188 MA's), (Start: 10 @36578 has 3 MA's), (12, 36455),

Gene: Pari_52 Start: 36621, Stop: 36481, Start Num: 9

Candidate Starts for Pari_52:

(6, 36696), (Start: 8 @36651 has 3 MA's), (Start: 9 @36621 has 188 MA's), (Start: 10 @36615 has 3 MA's), (12, 36492),

Gene: Parliament_50 Start: 37134, Stop: 36994, Start Num: 9

Candidate Starts for Parliament_50:

(6, 37209), (Start: 8 @37164 has 3 MA's), (Start: 9 @37134 has 188 MA's), (Start: 10 @37128 has 3 MA's), (12, 37005),

Gene: PascalRango_51 Start: 36479, Stop: 36339, Start Num: 9

Candidate Starts for PascalRango_51:

(6, 36554), (Start: 8 @36509 has 3 MA's), (Start: 9 @36479 has 188 MA's), (Start: 10 @36473 has 3 MA's), (12, 36350),

Gene: PattyP_51 Start: 36344, Stop: 36204, Start Num: 9

Candidate Starts for PattyP_51:

(6, 36419), (Start: 8 @36374 has 3 MA's), (Start: 9 @36344 has 188 MA's), (Start: 10 @36338 has 3 MA's), (12, 36215),

Gene: Payneful_49 Start: 36151, Stop: 36011, Start Num: 9

Candidate Starts for Payneful_49:

(6, 36226), (Start: 8 @36181 has 3 MA's), (Start: 9 @36151 has 188 MA's), (Start: 10 @36145 has 3 MA's), (12, 36022),

Gene: Pelly_50 Start: 37058, Stop: 36918, Start Num: 9

Candidate Starts for Pelly_50:

(Start: 9 @37058 has 188 MA's), (Start: 10 @37052 has 3 MA's), (12, 36929),

Gene: Pepe_47 Start: 34905, Stop: 34765, Start Num: 9

Candidate Starts for Pepe_47:

(6, 34980), (Start: 8 @34935 has 3 MA's), (Start: 9 @34905 has 188 MA's), (Start: 10 @34899 has 3 MA's), (12, 34776),

Gene: Perseus_50 Start: 37023, Stop: 36883, Start Num: 9

Candidate Starts for Perseus_50:

(6, 37098), (Start: 8 @37053 has 3 MA's), (Start: 9 @37023 has 188 MA's), (Start: 10 @37017 has 3 MA's), (12, 36894),

Gene: Peterson_55 Start: 39327, Stop: 39187, Start Num: 9

Candidate Starts for Peterson_55:

(Start: 9 @39327 has 188 MA's), (Start: 10 @39321 has 3 MA's), (12, 39198),

Gene: Petp2012_51 Start: 36953, Stop: 36813, Start Num: 9

Candidate Starts for Petp2012_51:

(Start: 8 @36983 has 3 MA's), (Start: 9 @36953 has 188 MA's), (Start: 10 @36947 has 3 MA's), (12, 36824),

Gene: Petruchio_50 Start: 36690, Stop: 36550, Start Num: 9

Candidate Starts for Petruchio_50:

(6, 36765), (Start: 8 @36720 has 3 MA's), (Start: 9 @36690 has 188 MA's), (Start: 10 @36684 has 3 MA's), (12, 36561),

Gene: PherrisBueller_50 Start: 35959, Stop: 35819, Start Num: 9

Candidate Starts for PherrisBueller_50:

(Start: 9 @35959 has 188 MA's), (Start: 10 @35953 has 3 MA's), (12, 35830),

Gene: PhrostyMug_49 Start: 36332, Stop: 36162, Start Num: 8

Candidate Starts for PhrostyMug_49:

(6, 36377), (Start: 8 @36332 has 3 MA's), (Start: 9 @36302 has 188 MA's), (Start: 10 @36296 has 3 MA's), (12, 36173),

Gene: PinkPlastic_51 Start: 36730, Stop: 36593, Start Num: 9

Candidate Starts for PinkPlastic_51:

(Start: 8 @36760 has 3 MA's), (Start: 9 @36730 has 188 MA's), (Start: 10 @36724 has 3 MA's), (12, 36604),

Gene: Pinto_50 Start: 36171, Stop: 36031, Start Num: 9

Candidate Starts for Pinto_50:

(6, 36246), (Start: 8 @36201 has 3 MA's), (Start: 9 @36171 has 188 MA's), (Start: 10 @36165 has 3 MA's), (12, 36042),

Gene: Pippin_52 Start: 37057, Stop: 36917, Start Num: 9

Candidate Starts for Pippin_52:

(Start: 9 @37057 has 188 MA's), (Start: 10 @37051 has 3 MA's), (12, 36928),

Gene: Pita2_53 Start: 37453, Stop: 37313, Start Num: 9

Candidate Starts for Pita2_53:

(Start: 8 @37483 has 3 MA's), (Start: 9 @37453 has 188 MA's), (Start: 10 @37447 has 3 MA's), (12, 37324),

Gene: QTRLifeCrisis_54 Start: 37155, Stop: 37015, Start Num: 9

Candidate Starts for QTRLifeCrisis_54:

(6, 37230), (Start: 8 @37185 has 3 MA's), (Start: 9 @37155 has 188 MA's), (Start: 10 @37149 has 3 MA's), (12, 37026),

Gene: Rajelicia_51 Start: 37113, Stop: 36973, Start Num: 9

Candidate Starts for Rajelicia_51:

(6, 37188), (Start: 8 @37143 has 3 MA's), (Start: 9 @37113 has 188 MA's), (Start: 10 @37107 has 3 MA's), (12, 36984),

Gene: Rhynn_49 Start: 36384, Stop: 36250, Start Num: 10

Candidate Starts for Rhynn_49:

(6, 36465), (Start: 8 @36420 has 3 MA's), (Start: 9 @36390 has 188 MA's), (Start: 10 @36384 has 3 MA's), (12, 36261),

Gene: RidgeCB_50 Start: 36299, Stop: 36159, Start Num: 9

Candidate Starts for RidgeCB_50:

(6, 36374), (Start: 8 @36329 has 3 MA's), (Start: 9 @36299 has 188 MA's), (Start: 10 @36293 has 3 MA's), (12, 36170),

Gene: Ringer_51 Start: 37421, Stop: 37281, Start Num: 9

Candidate Starts for Ringer_51:

(6, 37496), (Start: 8 @37451 has 3 MA's), (Start: 9 @37421 has 188 MA's), (Start: 10 @37415 has 3 MA's), (12, 37292),

Gene: Rohr_51 Start: 37133, Stop: 36993, Start Num: 9

Candidate Starts for Rohr_51:

(6, 37208), (Start: 8 @37163 has 3 MA's), (Start: 9 @37133 has 188 MA's), (Start: 10 @37127 has 3 MA's), (12, 37004),

Gene: Rubeus_50 Start: 34990, Stop: 34850, Start Num: 9

Candidate Starts for Rubeus_50:

(6, 35065), (Start: 8 @35020 has 3 MA's), (Start: 9 @34990 has 188 MA's), (Start: 10 @34984 has 3 MA's), (12, 34861),

Gene: Rufus_51 Start: 36760, Stop: 36620, Start Num: 9

Candidate Starts for Rufus_51:

(6, 36835), (Start: 8 @36790 has 3 MA's), (Start: 9 @36760 has 188 MA's), (Start: 10 @36754 has 3 MA's), (12, 36631),

Gene: Ruotula_53 Start: 38226, Stop: 38086, Start Num: 9

Candidate Starts for Ruotula_53:

(Start: 8 @38256 has 3 MA's), (Start: 9 @38226 has 188 MA's), (Start: 10 @38220 has 3 MA's), (12, 38097),

Gene: Rutherferd_52 Start: 37606, Stop: 37466, Start Num: 9

Candidate Starts for Rutherferd_52:

(6, 37681), (Start: 8 @37636 has 3 MA's), (Start: 9 @37606 has 188 MA's), (Start: 10 @37600 has 3 MA's), (12, 37477),

Gene: STLscum_53 Start: 38002, Stop: 37862, Start Num: 9

Candidate Starts for STLscum_53:

(6, 38077), (Start: 8 @38032 has 3 MA's), (Start: 9 @38002 has 188 MA's), (Start: 10 @37996 has 3 MA's), (12, 37873),

Gene: Sagefire_53 Start: 37975, Stop: 37835, Start Num: 9

Candidate Starts for Sagefire_53:

(Start: 9 @37975 has 188 MA's), (Start: 10 @37969 has 3 MA's), (12, 37846),

Gene: Sandaddy_49 Start: 36776, Stop: 36636, Start Num: 9

Candidate Starts for Sandaddy_49:

(Start: 9 @36776 has 188 MA's), (Start: 10 @36770 has 3 MA's), (12, 36647),

Gene: SarFire_48 Start: 36327, Stop: 36187, Start Num: 9

Candidate Starts for SarFire_48:

(6, 36402), (Start: 8 @36357 has 3 MA's), (Start: 9 @36327 has 188 MA's), (Start: 10 @36321 has 3 MA's), (12, 36198),

Gene: Scowl_51 Start: 37257, Stop: 37123, Start Num: 10

Candidate Starts for Scowl_51:

(Start: 9 @37263 has 188 MA's), (Start: 10 @37257 has 3 MA's), (12, 37134),

Gene: Seabiscuit_53 Start: 36866, Stop: 36726, Start Num: 9

Candidate Starts for Seabiscuit_53:

(Start: 8 @36896 has 3 MA's), (Start: 9 @36866 has 188 MA's), (Start: 10 @36860 has 3 MA's), (12, 36737),

Gene: Seanderson_52 Start: 37684, Stop: 37544, Start Num: 9

Candidate Starts for Seanderson_52:

(6, 37759), (Start: 8 @37714 has 3 MA's), (Start: 9 @37684 has 188 MA's), (Start: 10 @37678 has 3 MA's), (12, 37555),

Gene: ShortQueendom_44 Start: 32840, Stop: 32700, Start Num: 9

Candidate Starts for ShortQueendom_44:

(6, 32915), (Start: 8 @32870 has 3 MA's), (Start: 9 @32840 has 188 MA's), (Start: 10 @32834 has 3 MA's), (12, 32711),

Gene: Sibs6_52 Start: 35794, Stop: 35657, Start Num: 9

Candidate Starts for Sibs6_52:

(Start: 8 @35824 has 3 MA's), (Start: 9 @35794 has 188 MA's), (Start: 10 @35788 has 3 MA's), (12, 35668),

Gene: SkiPole_55 Start: 37723, Stop: 37583, Start Num: 9

Candidate Starts for SkiPole_55:

(6, 37798), (Start: 8 @37753 has 3 MA's), (Start: 9 @37723 has 188 MA's), (Start: 10 @37717 has 3 MA's), (12, 37594),

Gene: Slagathor_52 Start: 37014, Stop: 36874, Start Num: 9

Candidate Starts for Slagathor_52:

(6, 37089), (Start: 8 @37044 has 3 MA's), (Start: 9 @37014 has 188 MA's), (Start: 10 @37008 has 3 MA's), (12, 36885),

Gene: Smairt_52 Start: 37295, Stop: 37155, Start Num: 9

Candidate Starts for Smairt_52:

(6, 37370), (Start: 8 @37325 has 3 MA's), (Start: 9 @37295 has 188 MA's), (Start: 10 @37289 has 3 MA's), (12, 37166),

Gene: Smeagol_52 Start: 38224, Stop: 38084, Start Num: 9

Candidate Starts for Smeagol_52:

(Start: 9 @38224 has 188 MA's), (Start: 10 @38218 has 3 MA's), (12, 38095),

Gene: Snazzy_49 Start: 36400, Stop: 36260, Start Num: 9

Candidate Starts for Snazzy_49:

(6, 36475), (Start: 8 @36430 has 3 MA's), (Start: 9 @36400 has 188 MA's), (Start: 10 @36394 has 3 MA's), (12, 36271),

Gene: Solon_49 Start: 36658, Stop: 36518, Start Num: 9

Candidate Starts for Solon_49:

(6, 36733), (Start: 8 @36688 has 3 MA's), (Start: 9 @36658 has 188 MA's), (Start: 10 @36652 has 3 MA's), (12, 36529),

Gene: Sorpresa_48 Start: 36772, Stop: 36638, Start Num: 10

Candidate Starts for Sorpresa_48:

(Start: 9 @36778 has 188 MA's), (Start: 10 @36772 has 3 MA's), (12, 36649),

Gene: SpikeBT_50 Start: 37018, Stop: 36878, Start Num: 9

Candidate Starts for SpikeBT_50:

(6, 37093), (Start: 8 @37048 has 3 MA's), (Start: 9 @37018 has 188 MA's), (Start: 10 @37012 has 3 MA's), (12, 36889),

Gene: Squee_51 Start: 37355, Stop: 37215, Start Num: 9

Candidate Starts for Squee_51:

(6, 37430), (Start: 8 @37385 has 3 MA's), (Start: 9 @37355 has 188 MA's), (Start: 10 @37349 has 3 MA's), (12, 37226),

Gene: StewieG_49 Start: 34178, Stop: 34038, Start Num: 9

Candidate Starts for StewieG_49:

(6, 34253), (Start: 8 @34208 has 3 MA's), (Start: 9 @34178 has 188 MA's), (Start: 10 @34172 has 3 MA's), (12, 34049),

Gene: StrongArm_50 Start: 37861, Stop: 37721, Start Num: 9

Candidate Starts for StrongArm_50:

(Start: 9 @37861 has 188 MA's), (Start: 10 @37855 has 3 MA's), (12, 37732),

Gene: Sumter_47 Start: 36363, Stop: 36223, Start Num: 9

Candidate Starts for Sumter_47:

(2, 36495), (3, 36492), (7, 36423), (Start: 9 @36363 has 188 MA's), (Start: 10 @36357 has 3 MA's), (12, 36234),

Gene: Sunshine924_52 Start: 36478, Stop: 36341, Start Num: 9

Candidate Starts for Sunshine924_52:

(1, 36829), (Start: 9 @36478 has 188 MA's), (Start: 10 @36472 has 3 MA's), (12, 36352),

Gene: SwissCheese_52 Start: 36988, Stop: 36848, Start Num: 9
Candidate Starts for SwissCheese_52:
(Start: 9 @36988 has 188 MA's), (Start: 10 @36982 has 3 MA's), (12, 36859),

Gene: Switzer_52 Start: 36935, Stop: 36795, Start Num: 9
Candidate Starts for Switzer_52:
(6, 37010), (Start: 8 @36965 has 3 MA's), (Start: 9 @36935 has 188 MA's), (Start: 10 @36929 has 3 MA's), (12, 36806),

Gene: Swole_51 Start: 36157, Stop: 36017, Start Num: 9
Candidate Starts for Swole_51:
(Start: 8 @36187 has 3 MA's), (Start: 9 @36157 has 188 MA's), (Start: 10 @36151 has 3 MA's), (12, 36028),

Gene: Target_51 Start: 35567, Stop: 35427, Start Num: 9
Candidate Starts for Target_51:
(Start: 9 @35567 has 188 MA's), (Start: 10 @35561 has 3 MA's), (12, 35438),

Gene: Tasp14_52 Start: 37260, Stop: 37120, Start Num: 9
Candidate Starts for Tasp14_52:
(4, 37371), (Start: 9 @37260 has 188 MA's), (Start: 10 @37254 has 3 MA's), (12, 37131),

Gene: Teodoridan_49 Start: 36454, Stop: 36314, Start Num: 9
Candidate Starts for Teodoridan_49:
(Start: 9 @36454 has 188 MA's), (Start: 10 @36448 has 3 MA's), (12, 36325),

Gene: TheloniousMonk_51 Start: 38022, Stop: 37882, Start Num: 9
Candidate Starts for TheloniousMonk_51:
(6, 38097), (Start: 8 @38052 has 3 MA's), (Start: 9 @38022 has 188 MA's), (Start: 10 @38016 has 3 MA's), (12, 37893),

Gene: Thor_48 Start: 35685, Stop: 35545, Start Num: 9
Candidate Starts for Thor_48:
(6, 35760), (Start: 8 @35715 has 3 MA's), (Start: 9 @35685 has 188 MA's), (Start: 10 @35679 has 3 MA's), (12, 35556),

Gene: Topgun_50 Start: 36546, Stop: 36406, Start Num: 9
Candidate Starts for Topgun_50:
(Start: 9 @36546 has 188 MA's), (Start: 10 @36540 has 3 MA's), (12, 36417),

Gene: Tote_46 Start: 33424, Stop: 33284, Start Num: 9
Candidate Starts for Tote_46:
(Start: 8 @33454 has 3 MA's), (Start: 9 @33424 has 188 MA's), (Start: 10 @33418 has 3 MA's), (12, 33295),

Gene: Traft412_53 Start: 37881, Stop: 37741, Start Num: 9
Candidate Starts for Traft412_53:
(5, 37965), (6, 37956), (Start: 8 @37911 has 3 MA's), (Start: 9 @37881 has 188 MA's), (Start: 10 @37875 has 3 MA's), (12, 37752),

Gene: Treddle_51 Start: 37635, Stop: 37495, Start Num: 9
Candidate Starts for Treddle_51:

(6, 37710), (Start: 8 @37665 has 3 MA's), (Start: 9 @37635 has 188 MA's), (Start: 10 @37629 has 3 MA's), (12, 37506),

Gene: Tripl3t_50 Start: 37306, Stop: 37166, Start Num: 9

Candidate Starts for Tripl3t_50:

(5, 37390), (6, 37381), (Start: 8 @37336 has 3 MA's), (Start: 9 @37306 has 188 MA's), (Start: 10 @37300 has 3 MA's), (12, 37177),

Gene: Trouble_53 Start: 38377, Stop: 38237, Start Num: 9

Candidate Starts for Trouble_53:

(Start: 9 @38377 has 188 MA's), (Start: 10 @38371 has 3 MA's), (12, 38248),

Gene: Turj99_49 Start: 36274, Stop: 36134, Start Num: 9

Candidate Starts for Turj99_49:

(2, 36406), (3, 36403), (7, 36334), (Start: 9 @36274 has 188 MA's), (Start: 10 @36268 has 3 MA's), (12, 36145),

Gene: TwoPeat_50 Start: 36748, Stop: 36608, Start Num: 9

Candidate Starts for TwoPeat_50:

(Start: 8 @36778 has 3 MA's), (Start: 9 @36748 has 188 MA's), (Start: 10 @36742 has 3 MA's), (12, 36619),

Gene: U2_50 Start: 36915, Stop: 36775, Start Num: 9

Candidate Starts for U2_50:

(6, 36990), (Start: 8 @36945 has 3 MA's), (Start: 9 @36915 has 188 MA's), (Start: 10 @36909 has 3 MA's), (12, 36786),

Gene: Violet_48 Start: 36692, Stop: 36552, Start Num: 9

Candidate Starts for Violet_48:

(6, 36767), (Start: 8 @36722 has 3 MA's), (Start: 9 @36692 has 188 MA's), (Start: 10 @36686 has 3 MA's), (12, 36563),

Gene: Watermelon_51 Start: 37084, Stop: 36944, Start Num: 9

Candidate Starts for Watermelon_51:

(5, 37168), (6, 37159), (Start: 8 @37114 has 3 MA's), (Start: 9 @37084 has 188 MA's), (Start: 10 @37078 has 3 MA's), (12, 36955),

Gene: Wheeler_51 Start: 37128, Stop: 36988, Start Num: 9

Candidate Starts for Wheeler_51:

(6, 37203), (Start: 8 @37158 has 3 MA's), (Start: 9 @37128 has 188 MA's), (Start: 10 @37122 has 3 MA's), (12, 36999),

Gene: Wilkins_50 Start: 36476, Stop: 36336, Start Num: 9

Candidate Starts for Wilkins_50:

(Start: 9 @36476 has 188 MA's), (Start: 10 @36470 has 3 MA's), (12, 36347),

Gene: Zeeculate_48 Start: 36737, Stop: 36597, Start Num: 9

Candidate Starts for Zeeculate_48:

(6, 36812), (Start: 8 @36767 has 3 MA's), (Start: 9 @36737 has 188 MA's), (Start: 10 @36731 has 3 MA's), (12, 36608),

Gene: Zephyr_50 Start: 36577, Stop: 36437, Start Num: 9

Candidate Starts for Zephyr_50:

(6, 36652), (Start: 8 @36607 has 3 MA's), (Start: 9 @36577 has 188 MA's), (Start: 10 @36571 has 3 MA's), (12, 36448),

Gene: Zeuska_49 Start: 36668, Stop: 36528, Start Num: 9

Candidate Starts for Zeuska_49:

(6, 36743), (Start: 8 @36698 has 3 MA's), (Start: 9 @36668 has 188 MA's), (Start: 10 @36662 has 3 MA's), (12, 36539),