

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 290776 Report

This analysis was run 03/28/26 on database version 641.

Pham number 290776 has 296 members, 7 are drafts.

Phages represented in each track:

- Track 1 : FugateOSU_68, FriarPreacher_66, Fang_69, DirtJuice_68, SassyCat97_66, PhrankReynolds_67, Podrick_67, Mulan_67, Phamished_69, Phergie_68, Pherdinand_68, Vista_66, Thora_66, Cobra_68, PhrodoBaggins_69, Cher_68, Swish_68, LemonSlice_68, Derpp_68, Craff_71, Morgushi_66, LeeLot_67, Zonia_68, Murdoc_65, PinheadLarry_67, Placalicious_68, CharlieGBrown_66, Doddsville_66, HighStump_69, PhenghisKhan_68, TallGrassMM_66, KingTut_59, Oline_67, Labeouficaum_68, SDcharge11_67, Slatt_68, Vivaldi_68, Phleuron_66, Kwksand96_68, Banjo_66, Haimas_66, Harvey_65, MichaelPhcott_66, Daka_70, BatteryCK_66, Trypo_69, Yoshand_68, Kailash_66, Puhltonio_66, Pipsqueak_65, Mesh1_68, Mana_66, Soto_65, Squiggle_67, Daffy_66, Prickles_69, DuchessDung_67, Iridoclysis_67, MitKao_67, Squiggle_67, TyrionL_68, Phipps_67, Pinkman_67, Held_66, Matalotodo_66, FluffyNinja_68, Maru_67, KingVeVeVe_66, Lego3393_65, UncleHowie_65, Vortex_67
- Track 2 : Weher20_65
- Track 3 : JDog_67, Altwerkus_66, True_66, Kimbrough_69, Lulumae_65, EmpTee_67, Mutante_68, Serendipity_67, Orfeu_67, Fringe_72, Manad_67, Riverton_67, Orwigg_67, Cornbread_66, FleetyMac_71, Dice_67, Colbert_66, AngelCake_67, Keitherie_70, Megatron_68, CampRoach_69, Andre_70, Tooj_66, Quisquilliae_69, ShiVal_66, Chaelin_69, KLucky39_66, Hartsy_67, Mesmerelda_67, LuckyMarjie_65, Spartan300_67, Robyn_68, Aelin_67, CheetO_67, Beaglebox_66, Xavier_67, Nyala_67, Tomlarah_69, HSavage_66, Skippy_69, PG1_67, Jillium_68, Hetaeria_67, Apizium_67, Chah_69, PhatLouie_70, Eremos_67, Nacho_0071, Gareth_68, Timmi_67, Katniss_69, ProfessorX_66, Serpentine_0068, JangoPhett_102, Virapocalypse_69, Suffolk_66, Carthage_68, Scoot17C_68, Coletti_71, SirBeauregard_69, Newman_66, Cannibal_68, JacAttac_68, Gophee_69, ShadowBud_69, Jesabah_70, Dione_66, Telesworld_66, Anderson_69, Sigman_68, Riggan_69, Pacifista_67, Simielle_68, Swiphy_70, Hertubise_67, ABU_67, Waterdiva_68, Giraffe_68, Antonia_67, Phunky_66, Burr_68, Oosterbaan_67, Freya_65, Lumine_69, Kikipoo_69, OneBrain_71, Numberten_67, Selr12_69, Omniscient_69, MrPhizzler_71, PhatCats2014_68, Kwadwo_67, Roy17_66, Charles1_69, Haleema_67, ThreeOh3D2_69, Samaymay_68, Badfish_68, Longacauda_69, Iridessa_69, Bishoperium_68, Windsor_68, Mecca_68, Valjean_67, Vaticameos_65, DoesntMatter_65, Mcshane_67, Toni_68, Piglet_0068, Nicole21_69, Morty_69, KlimbOn_67, Schadenfreude_68, Chunky_68, IsaacEli_69, Olak_67, OliverWalter_67
- Track 4 : Zelda_68, Mag7_66, Emiris_69, YouGoGlencoco_68, Wallhey_68, Sophia_66, Etaye_67, Surely_68, Solosis_66, Plmatters_66, Roliet_65, MRabcd_67,

Veritas_67, Durga_70, Legolas_69, TomBombadil_68, LostAndPhound_67, SallyH_70

- Track 5 : Vaishali24_68
- Track 6 : Brilliant_71
- Track 7 : Kahve_68, Childish_67, DaddyDaniels_70, HenryJackson_68
- Track 8 : Gwennie1_67, Jiraiya_69, Crownjwl_66, DelRivs_66, Ricotta_68, Soile_69, Rimu_68, Roscoe_68
- Track 9 : Mosaic_65
- Track 10 : OSmaximus_68
- Track 11 : Cosmolli16_69, QueenBeane_68, CamL_68
- Track 12 : Kloppinator_68
- Track 13 : JakeO_69, Thunderbird_68, Pops_66
- Track 14 : Duggie_68
- Track 15 : Imvubu_61
- Track 16 : LilMcDreamy_64
- Track 17 : BirdsNest_72
- Track 18 : LittleMinkey_75
- Track 19 : ChaChing_68, Heathcliff_68, SynergyX_68, Audrey_68, Philly_67, Nozo_68, Gadget_69, Yinz_68, Corofin_68, Chalmers_67, Deenasa_68, Abinghost_68, Casbah_68, Halfpint_67, Athena_70, RomaT_68, GlenHope_69, OrangeOswald_68, Devonte_67, Jackstina_64, Phlyer_68, Glubnar_69, TinyTerror_69, Rita1961_69, RagingRooster_67
- Track 20 : Cooper_63
- Track 21 : Nigel_61
- Track 22 : RawrgerThat_62
- Track 23 : BobbyK_62, ChrisnMich_61, Frederick_62
- Track 24 : Mithril_61, Hangman_61, Fortunato_62, Waleliano_61, BrownCNA_63, VioletZ_63, Lolalove_62
- Track 25 : Heath_60, Zemanar_62
- Track 26 : Vincenzo_64, AlanGrant_65
- Track 27 : Austelle_62, Mudslide_61, Hydro_61, Prince_61, Apex_62
- Track 28 : Stinger_62
- Track 29 : GinPorsche_61
- Track 30 : JAMaL_61
- Track 31 : Donny_68, Suigeneris_68
- Track 32 : Bae_67
- Track 33 : Acadian_67
- Track 34 : Saguaro_64
- Track 35 : Rinkes_63
- Track 36 : Quesadilla_66
- Track 37 : PenguinLover67_63
- Track 38 : CRB2_64
- Track 39 : CRB2_66
- Track 40 : Knocker_66

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 136 of the 289 non-draft genes in the pham.

Genes that call this "Most Annotated" start:

- ABU_67, Aelin_67, Altwerkus_66, Anderson_69, Andre_70, AngelCake_67, Antonia_67, Apex_62, Apizium_67, Austelle_62, Badfish_68, Beaglebox_66, Bishoperium_68, BobbyK_62, Brilliant_71, Burr_68, CampRoach_69, Cannibal_68, Carthage_68, Chaelin_69, Chah_69, Charles1_69, CheetO_67, Childish_67, ChrisnMich_61, Chunky_68, Colbert_66, Coletti_71, Cooper_63, Cornbread_66, Crownjwl_66, DaddyDaniels_70, DelRivs_66, Dice_67, Dione_66, DoesntMatter_65, EmpTee_67, Eremos_67, FleetyMac_71, Frederick_62, Freya_65, Fringe_72, Gareth_68, GinPorsche_61, Giraffe_68, Gophee_69, Gwennie1_67, HSavage_66, Haleema_67, Hartsy_67, HenryJackson_68, Hertubise_67, Hetaeria_67, Hydro_61, Iridessa_69, IsaacEli_69, JDog_67, JacAttac_68, JangoPhett_102, Jesabah_70, Jillium_68, Jiraiya_69, KLucky39_66, Kahve_68, Katniss_69, Keitherie_70, Kikipoo_69, Kimbrough_69, KlimbOn_67, Kwadwo_67, Longacauda_69, LuckyMarjie_65, Lulumae_65, Lumine_69, Manad_67, Mcshane_67, Mecca_68, Megatron_68, Mesmerelda_67, Morty_69, MrPhizzler_71, Mudslide_61, Mutante_68, Nacho_0071, Newman_66, Nicole21_69, Numberbert_67, Nyala_67, Olak_67, OliverWalter_67, Omniscient_69, OneBrain_71, Oosterbaan_67, Orfeu_67, Orwigg_67, PG1_67, Pacifista_67, PhatCats2014_68, PhatLouie_70, Phunky_66, Piglet_0068, Prince_61, ProfessorX_66, Quisquiliae_69, Ricotta_68, Riggan_69, Rimu_68, Riverton_67, Robyn_68, Roscoe_68, Roy17_66, Samaymay_68, Schadenfreude_68, Scoot17C_68, Selr12_69, Serendipity_67, Serpentine_0068, ShadowBud_69, ShiVal_66, Sigman_68, Simielle_68, SirBeauregard_69, Skippy_69, Soile_69, Spartan300_67, Stinger_62, Suffolk_66, Swiphy_70, Telesworld_66, ThreeOh3D2_69, Timmi_67, Tomlarah_69, Toni_68, Tooj_66, True_66, Valjean_67, Vaticameos_65, Virapocalypse_69, Waterdiva_68, Windsor_68, Xavier_67,

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

- CamL_68, Cosmolli16_69, QueenBeane_68, RawrgerThat_62, Vaishali24_68,

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

- Abinghost_68, Acadian_67, AlanGrant_65, Athena_70, Audrey_68, Bae_67, Banjo_66, BatteryCK_66, BirdsNest_72, BrownCNA_63, CRB2_64, CRB2_66, Casbah_68, ChaChing_68, Chalmers_67, CharlieGBrown_66, Cher_68, Cobra_68, Corofin_68, Craff_71, Daffy_66, Daka_70, Deenasa_68, Derpp_68, Devonte_67, DirtJuice_68, Doddsville_66, Donny_68, DuchessDung_67, Duggie_68, Durga_70, Emiris_69, Etaye_67, Fang_69, FluffyNinja_68, Fortunato_62, FriarPreacher_66, FugateOSU_68, Gadget_69, GlenHope_69, Glubnar_69, Haimas_66, Halfpint_67, Hangman_61, Harvey_65, Heath_60, Heathcliff_68, Held_66, HighStump_69, Imvubu_61, Iridoclysis_67, JAMaL_61, Jackstina_64, JakeO_69, Kailash_66, KingTut_59, KingVeVeVe_66, Kloppinator_68, Knocker_66, Kwksand96_68, Labeouficaum_68, LeeLot_67, Lego3393_65, Legolas_69, LemonSlice_68, LilMcDreamy_64, LittleMinkey_75, Lolalove_62, LostAndPhound_67, MRabcd_67, Mag7_66, Mana_66, Maru_67, Matalotodo_66, Mesh1_68, MichaelPhcott_66, MitKao_67, Mithril_61, Morgushi_66, Mosaic_65, Mulan_67, Murdoc_65, Nigel_61, Nozo_68, OSmaximus_68, Oline_67, OrangeOswald_68, PenguinLover67_63, Phamished_69, PhenghisKhan_68, Pherdinand_68, Phergie_68, Philly_67, Phipps_67, Phleuron_66, Phlyer_68, PhrankReynolds_67, PhrodoBaggins_69, PinheadLarry_67, Pinkman_67, Pipsqueak_65, Placalicious_68, Plmatters_66, Podrick_67, Pops_66, Prickles_69, Puhltonio_66, Quesadilla_66, RagingRooster_67, Rinkes_63, Rita1961_69, Roliet_65, RomaT_68, SDcharge11_67, Saguaro_64, SallyH_70, SassyCat97_66, Slatt_68, Solosis_66, Sophia_66, Soto_65, Squid_67, Squiggle_67, Suigeneris_68, Surely_68, Swish_68, SynergyX_68, TallGrassMM_66, Thora_66, Thunderbird_68, TinyTerror_69, TomBombadil_68, Trypo_69, TyrionL_68,

UncleHowie_65, Veritas_67, Vincenzo_64, VioletZ_63, Vista_66, Vivaldi_68, Vortex_67, Waleliano_61, Wallhey_68, Weher20_65, Yinz_68, Yoshand_68, YouGoGlencoco_68, Zelda_68, Zemanar_62, Zonia_68,

Summary by start number:

Start 8:

- Found in 94 of 296 (31.8%) of genes in pham
- Manual Annotations of this start: 75 of 289
- Called 79.8% of time when present
- Phage (with cluster) where this start called: Banjo_66 (B1), BatteryCK_66 (B1), BirdsNest_72 (B13), CharlieGBrown_66 (B1), Cher_68 (B1), Cobra_68 (B1), Craff_71 (B1), Daffy_66 (B1), Daka_70 (B1), Derpp_68 (B1), DirtJuice_68 (B1), Doddsville_66 (B1), DuchessDung_67 (B1), Fang_69 (B1), FluffyNinja_68 (B1), FriarPreacher_66 (B1), FugateOSU_68 (B1), Haimas_66 (B1), Harvey_65 (B1), Held_66 (B1), HighStump_69 (B1), Iridoclysis_67 (B1), Kailash_66 (B1), KingTut_59 (B1), KingVeVeVe_66 (B1), Kloppinator_68 (B1), Kwksand96_68 (B1), Labeouficaum_68 (B1), LeeLot_67 (B1), Lego3393_65 (B1), LemonSlice_68 (B1), Mana_66 (B1), Maru_67 (B1), Matalotodo_66 (B1), Mesh1_68 (B1), MichaelPhcott_66 (B1), MitKao_67 (B1), Morgushi_66 (B1), Mosaic_65 (B1), Mulan_67 (B1), Murdoc_65 (B1), OSmaximus_68 (B1), Oline_67 (B1), Phamished_69 (B1), PhenghisKhan_68 (B1), Pherdinand_68 (B1), Phergie_68 (B1), Phipps_67 (B1), Phleuron_66 (B1), PhrankReynolds_67 (B1), PhrodoBaggins_69 (B1), PinheadLarry_67 (B1), Pinkman_67 (B1), Pipsqueak_65 (B1), Placalicious_68 (B1), Podrick_67 (B1), Prickles_69 (B1), Puhltonio_66 (B1), SDcharge11_67 (B1), SassyCat97_66 (B1), Slatt_68 (B1), Soto_65 (B1), Squid_67 (B1), Squiggle_67 (B1), Swish_68 (B1), TallGrassMM_66 (B1), Thora_66 (B1), Trypo_69 (B1), TyrionL_68 (B1), UncleHowie_65 (B1), Vista_66 (B1), Vivaldi_68 (B1), Vortex_67 (B1), Yoshand_68 (B1), Zonia_68 (B1),

Start 9:

- Found in 146 of 296 (49.3%) of genes in pham
- Manual Annotations of this start: 136 of 289
- Called 96.6% of time when present
- Phage (with cluster) where this start called: ABU_67 (B1), Aelin_67 (B1), Altwerkus_66 (B1), Anderson_69 (B1), Andre_70 (B1), AngelCake_67 (B1), Antonia_67 (B1), Apex_62 (B4), Apizium_67 (B1), Austelle_62 (B4), Badfish_68 (B1), Beaglebox_66 (B1), Bishoperium_68 (B1), BobbyK_62 (B4), Brilliant_71 (B1), Burr_68 (B1), CampRoach_69 (B1), Cannibal_68 (B1), Carthage_68 (B1), Chaelin_69 (B1), Chah_69 (B1), Charles1_69 (B1), CheetO_67 (B1), Childish_67 (B1), ChrisnMich_61 (B4), Chunky_68 (B1), Colbert_66 (B1), Coletti_71 (B1), Cooper_63 (B4), Cornbread_66 (B1), Crownjwl_66 (B1), DaddyDaniels_70 (B1), DelRivs_66 (B1), Dice_67 (B1), Dione_66 (B1), DoesntMatter_65 (B1), EmpTee_67 (B1), Eremos_67 (B1), FleetyMac_71 (B1), Frederick_62 (B4), Freya_65 (B1), Fringe_72 (B1), Gareth_68 (B1), GinPorsche_61 (B4), Giraffe_68 (B1), Gophee_69 (B1), Gwennie1_67 (B1), HSavage_66 (B1), Haleema_67 (B1), Hartsy_67 (B1), HenryJackson_68 (B1), Hertubise_67 (B1), Hetaeria_67 (B1), Hydro_61 (B4), Iridessa_69 (B1), IsaacEli_69 (B1), JDog_67 (B1), JacAttac_68 (B1), JangoPhett_102 (B1), Jesabah_70 (B1), Jillium_68 (B1), Jiraiya_69 (B1), KLucky39_66 (B1), Kahve_68 (B1), Katniss_69 (B1), Keitherie_70 (B1), Kikipoo_69 (B1), Kimbrough_69 (B1), KlimbOn_67 (B1), Kwadwo_67 (B1), Longacauda_69 (B1), LuckyMarjie_65 (B1), Lulumae_65 (B1), Lumine_69 (B1), Manad_67 (B1), Mcshane_67 (B1), Mecca_68 (B1), Megatron_68 (B1), Mesmerelda_67 (B1), Morty_69 (B1),

MrPhizzler_71 (B1), Mudslide_61 (B4), Mutante_68 (B1), Nacho_0071 (B1), Newman_66 (B1), Nicole21_69 (B1), Numberten_67 (B1), Nyala_67 (B1), Olak_67 (B1), OliverWalter_67 (B1), Omniscient_69 (B1), OneBrain_71 (B1), Oosterbaan_67 (B1), Orfeu_67 (B1), Orwigg_67 (B1), PG1_67 (B1), Pacifista_67 (B1), PhatCats2014_68 (B1), PhatLouie_70 (B1), Phunky_66 (B1), Piglet_0068 (B1), Prince_61 (B4), ProfessorX_66 (B1), Quisquilliae_69 (B1), Ricotta_68 (B1), Riggan_69 (B1), Rimu_68 (B1), Riverton_67 (B1), Robyn_68 (B1), Roscoe_68 (B1), Roy17_66 (B1), Samaymay_68 (B1), Schadenfreude_68 (B1), Scoot17C_68 (B1), Selr12_69 (B1), Serendipity_67 (B1), Serpentine_0068 (B1), ShadowBud_69 (B1), ShiVal_66 (B1), Sigman_68 (B1), Simielle_68 (B1), SirBeauregard_69 (B1), Skippy_69 (B1), Soile_69 (B1), Spartan300_67 (B1), Stinger_62 (B4), Suffolk_66 (B1), Swiphy_70 (B1), Telesworld_66 (B1), ThreeOh3D2_69 (B1), Timmi_67 (B1), Tomlarah_69 (B1), Toni_68 (B1), Tooj_66 (B1), True_66 (B1), Valjean_67 (B1), Vaticameos_65 (B1), Virapocalypse_69 (B1), Waterdiva_68 (B1), Windsor_68 (B1), Xavier_67 (B1),

Start 10:

- Found in 25 of 296 (8.4%) of genes in pham
- Manual Annotations of this start: 25 of 289
- Called 100.0% of time when present
- Phage (with cluster) where this start called: Abinghost_68 (B3), Athena_70 (B3), Audrey_68 (B3), Casbah_68 (B3), ChaChing_68 (B3), Chalmers_67 (B3), Corofin_68 (B3), Deenasa_68 (B3), Devonte_67 (B3), Gadjet_69 (B3), GlenHope_69 (B3), Glubnar_69 (B3), Halfpint_67 (B3), Heathcliff_68 (B3), Jackstina_64 (B3), Nozo_68 (B3), OrangeOswald_68 (B3), Philly_67 (B3), Phlyer_68 (B3), RagingRooster_67 (B3), Rita1961_69 (B3), RomaT_68 (B3), SynergyX_68 (B3), TinyTerror_69 (B3), Yinz_68 (B3),

Start 11:

- Found in 4 of 296 (1.4%) of genes in pham
- Manual Annotations of this start: 4 of 289
- Called 100.0% of time when present
- Phage (with cluster) where this start called: Acadian_67 (B5), Bae_67 (B5), Donny_68 (B5), Suigeneris_68 (B5),

Start 14:

- Found in 175 of 296 (59.1%) of genes in pham
- Manual Annotations of this start: 11 of 289
- Called 6.3% of time when present
- Phage (with cluster) where this start called: CamL_68 (B1), Cosmolli16_69 (B1), Duggie_68 (B1), JakeO_69 (B1), LilMcDreamy_64 (B12), PenguinLover67_63 (B9), Pops_66 (B1), QueenBeane_68 (B1), Saguaro_64 (B7), Thunderbird_68 (B1), Vaishali24_68 (B1),

Start 15:

- Found in 1 of 296 (0.3%) of genes in pham
- Manual Annotations of this start: 1 of 289
- Called 100.0% of time when present
- Phage (with cluster) where this start called: Imvubu_61 (B10),

Start 16:

- Found in 294 of 296 (99.3%) of genes in pham
- Manual Annotations of this start: 33 of 289

- Called 11.9% of time when present
- Phage (with cluster) where this start called: AlanGrant_65 (B4), BrownCNA_63 (B4), CRB2_64 (B9), Durga_70 (B1), Emiris_69 (B1), Etaye_67 (B1), Fortunato_62 (B4), Hangman_61 (B4), JAMaL_61 (B4), Knocker_66 (B9), Legolas_69 (B1), LittleMinkey_75 (B13), Lolalove_62 (B4), LostAndPhound_67 (B1), MRabcd_67 (B1), Mag7_66 (B1), Mithril_61 (B4), Nigel_61 (B4), Plmatters_66 (B1), Quesadilla_66 (B9), Rinkes_63 (B9), Roliet_65 (B1), SallyH_70 (B1), Solosis_66 (B1), Sophia_66 (B1), Surely_68 (B1), TomBombadil_68 (B1), Veritas_67 (B1), Vincenzo_64 (B4), VioletZ_63 (B4), Waleliano_61 (B4), Wallhey_68 (B1), Weher20_65 (B1), YouGoGlencoco_68 (B1), Zelda_68 (B1),

Start 17:

- Found in 1 of 296 (0.3%) of genes in pham
- Manual Annotations of this start: 1 of 289
- Called 100.0% of time when present
- Phage (with cluster) where this start called: CRB2_66 (B9),

Start 25:

- Found in 120 of 296 (40.5%) of genes in pham
- Manual Annotations of this start: 3 of 289
- Called 2.5% of time when present
- Phage (with cluster) where this start called: Heath_60 (B4), RawrgerThat_62 (B4), Zemanar_62 (B4),

Summary by clusters:

There are 9 clusters represented in this pham: B4, B5, B7, B12, B1, B10, B3, B9, B13,

Info for manual annotations of cluster B1:

- Start number 8 was manually annotated 74 times for cluster B1.
- Start number 9 was manually annotated 125 times for cluster B1.
- Start number 14 was manually annotated 8 times for cluster B1.
- Start number 16 was manually annotated 18 times for cluster B1.

Info for manual annotations of cluster B10:

- Start number 15 was manually annotated 1 time for cluster B10.

Info for manual annotations of cluster B12:

- Start number 14 was manually annotated 1 time for cluster B12.

Info for manual annotations of cluster B13:

- Start number 8 was manually annotated 1 time for cluster B13.

Info for manual annotations of cluster B3:

- Start number 10 was manually annotated 25 times for cluster B3.

Info for manual annotations of cluster B4:

- Start number 9 was manually annotated 11 times for cluster B4.
- Start number 16 was manually annotated 11 times for cluster B4.
- Start number 25 was manually annotated 3 times for cluster B4.

Info for manual annotations of cluster B5:

- Start number 11 was manually annotated 4 times for cluster B5.

Info for manual annotations of cluster B7:

- Start number 14 was manually annotated 1 time for cluster B7.

Info for manual annotations of cluster B9:

- Start number 14 was manually annotated 1 time for cluster B9.
- Start number 16 was manually annotated 4 times for cluster B9.
- Start number 17 was manually annotated 1 time for cluster B9.

Gene Information:

Gene: ABU_67 Start: 57301, Stop: 57573, Start Num: 9

Candidate Starts for ABU_67:

(Start: 9 @57301 has 136 MA's), (Start: 14 @57322 has 11 MA's), (Start: 16 @57331 has 33 MA's), (26, 57394), (31, 57421), (43, 57544),

Gene: Abinghost_68 Start: 57207, Stop: 57494, Start Num: 10

Candidate Starts for Abinghost_68:

(1, 56985), (2, 57003), (3, 57015), (4, 57060), (7, 57195), (Start: 10 @57207 has 25 MA's), (12, 57225), (Start: 14 @57237 has 11 MA's), (Start: 16 @57246 has 33 MA's), (18, 57255), (37, 57399), (42, 57456),

Gene: Acadian_67 Start: 58258, Stop: 58542, Start Num: 11

Candidate Starts for Acadian_67:

(Start: 11 @58258 has 4 MA's), (Start: 14 @58285 has 11 MA's), (Start: 16 @58294 has 33 MA's), (27, 58360), (37, 58438), (41, 58492), (44, 58528),

Gene: Aelin_67 Start: 56821, Stop: 57093, Start Num: 9

Candidate Starts for Aelin_67:

(Start: 9 @56821 has 136 MA's), (Start: 14 @56842 has 11 MA's), (Start: 16 @56851 has 33 MA's), (26, 56914), (31, 56941), (43, 57064),

Gene: AlanGrant_65 Start: 59138, Stop: 59395, Start Num: 16

Candidate Starts for AlanGrant_65:

(Start: 16 @59138 has 33 MA's), (Start: 25 @59189 has 3 MA's), (27, 59195), (29, 59207), (33, 59237), (34, 59240), (38, 59279), (39, 59288), (43, 59342),

Gene: Altwerkus_66 Start: 56464, Stop: 56736, Start Num: 9

Candidate Starts for Altwerkus_66:

(Start: 9 @56464 has 136 MA's), (Start: 14 @56485 has 11 MA's), (Start: 16 @56494 has 33 MA's), (26, 56557), (31, 56584), (43, 56707),

Gene: Anderson_69 Start: 57036, Stop: 57308, Start Num: 9

Candidate Starts for Anderson_69:

(Start: 9 @57036 has 136 MA's), (Start: 14 @57057 has 11 MA's), (Start: 16 @57066 has 33 MA's), (26, 57129), (31, 57156), (43, 57279),

Gene: Andre_70 Start: 57216, Stop: 57488, Start Num: 9

Candidate Starts for Andre_70:

(Start: 9 @57216 has 136 MA's), (Start: 14 @57237 has 11 MA's), (Start: 16 @57246 has 33 MA's), (26, 57309), (31, 57336), (43, 57459),

Gene: AngelCake_67 Start: 56953, Stop: 57225, Start Num: 9

Candidate Starts for AngelCake_67:

(Start: 9 @56953 has 136 MA's), (Start: 14 @56974 has 11 MA's), (Start: 16 @56983 has 33 MA's), (26, 57046), (31, 57073), (43, 57196),

Gene: Antonia_67 Start: 56820, Stop: 57092, Start Num: 9

Candidate Starts for Antonia_67:

(Start: 9 @56820 has 136 MA's), (Start: 14 @56841 has 11 MA's), (Start: 16 @56850 has 33 MA's), (26, 56913), (31, 56940), (43, 57063),

Gene: Apex_62 Start: 58091, Stop: 58408, Start Num: 9

Candidate Starts for Apex_62:

(Start: 9 @58091 has 136 MA's), (Start: 16 @58139 has 33 MA's), (Start: 25 @58190 has 3 MA's), (27, 58196), (28, 58202), (29, 58208), (30, 58211), (34, 58241), (36, 58259), (37, 58274), (39, 58289), (40, 58307),

Gene: Apizium_67 Start: 56482, Stop: 56754, Start Num: 9

Candidate Starts for Apizium_67:

(Start: 9 @56482 has 136 MA's), (Start: 14 @56503 has 11 MA's), (Start: 16 @56512 has 33 MA's), (26, 56575), (31, 56602), (43, 56725),

Gene: Athena_70 Start: 57982, Stop: 58269, Start Num: 10

Candidate Starts for Athena_70:

(1, 57760), (2, 57778), (3, 57790), (4, 57835), (7, 57970), (Start: 10 @57982 has 25 MA's), (12, 58000), (Start: 14 @58012 has 11 MA's), (Start: 16 @58021 has 33 MA's), (18, 58030), (37, 58174), (42, 58231),

Gene: Audrey_68 Start: 57246, Stop: 57533, Start Num: 10

Candidate Starts for Audrey_68:

(1, 57024), (2, 57042), (3, 57054), (4, 57099), (7, 57234), (Start: 10 @57246 has 25 MA's), (12, 57264), (Start: 14 @57276 has 11 MA's), (Start: 16 @57285 has 33 MA's), (18, 57294), (37, 57438), (42, 57495),

Gene: Austelle_62 Start: 58545, Stop: 58862, Start Num: 9

Candidate Starts for Austelle_62:

(Start: 9 @58545 has 136 MA's), (Start: 16 @58593 has 33 MA's), (Start: 25 @58644 has 3 MA's), (27, 58650), (28, 58656), (29, 58662), (30, 58665), (34, 58695), (36, 58713), (37, 58728), (39, 58743), (40, 58761),

Gene: Badfish_68 Start: 57322, Stop: 57594, Start Num: 9

Candidate Starts for Badfish_68:

(Start: 9 @57322 has 136 MA's), (Start: 14 @57343 has 11 MA's), (Start: 16 @57352 has 33 MA's), (26, 57415), (31, 57442), (43, 57565),

Gene: Bae_67 Start: 59301, Stop: 59585, Start Num: 11

Candidate Starts for Bae_67:

(Start: 11 @59301 has 4 MA's), (Start: 14 @59328 has 11 MA's), (Start: 16 @59337 has 33 MA's), (27, 59403), (36, 59466), (37, 59481), (41, 59535), (44, 59571), (46, 59580),

Gene: Banjo_66 Start: 56800, Stop: 57102, Start Num: 8

Candidate Starts for Banjo_66:

(Start: 8 @56800 has 75 MA's), (Start: 16 @56854 has 33 MA's), (Start: 25 @56923 has 3 MA's), (32, 56965),

Gene: BatteryCK_66 Start: 56770, Stop: 57072, Start Num: 8

Candidate Starts for BatteryCK_66:

(Start: 8 @56770 has 75 MA's), (Start: 16 @56824 has 33 MA's), (Start: 25 @56893 has 3 MA's), (32, 56935),

Gene: Beaglebox_66 Start: 56876, Stop: 57148, Start Num: 9

Candidate Starts for Beaglebox_66:

(Start: 9 @56876 has 136 MA's), (Start: 14 @56897 has 11 MA's), (Start: 16 @56906 has 33 MA's), (26, 56969), (31, 56996), (43, 57119),

Gene: BirdsNest_72 Start: 58539, Stop: 58814, Start Num: 8

Candidate Starts for BirdsNest_72:

(Start: 8 @58539 has 75 MA's), (Start: 14 @58572 has 11 MA's), (Start: 16 @58581 has 33 MA's), (23, 58617), (30, 58647), (33, 58677),

Gene: Bishoperium_68 Start: 57350, Stop: 57622, Start Num: 9

Candidate Starts for Bishoperium_68:

(Start: 9 @57350 has 136 MA's), (Start: 14 @57371 has 11 MA's), (Start: 16 @57380 has 33 MA's), (26, 57443), (31, 57470), (43, 57593),

Gene: BobbyK_62 Start: 57853, Stop: 58170, Start Num: 9

Candidate Starts for BobbyK_62:

(Start: 9 @57853 has 136 MA's), (Start: 16 @57901 has 33 MA's), (Start: 25 @57952 has 3 MA's), (27, 57958), (28, 57964), (29, 57970), (34, 58003), (36, 58021), (37, 58036), (39, 58051), (40, 58069),

Gene: Brilliant_71 Start: 57319, Stop: 57591, Start Num: 9

Candidate Starts for Brilliant_71:

(Start: 9 @57319 has 136 MA's), (Start: 14 @57340 has 11 MA's), (Start: 16 @57349 has 33 MA's), (26, 57412), (31, 57439), (36, 57478), (43, 57562),

Gene: BrownCNA_63 Start: 58302, Stop: 58568, Start Num: 16

Candidate Starts for BrownCNA_63:

(Start: 16 @58302 has 33 MA's), (Start: 25 @58353 has 3 MA's), (27, 58359), (28, 58365), (29, 58371), (30, 58374), (34, 58404), (36, 58422), (37, 58437), (39, 58452), (40, 58470),

Gene: Burr_68 Start: 56786, Stop: 57058, Start Num: 9

Candidate Starts for Burr_68:

(Start: 9 @56786 has 136 MA's), (Start: 14 @56807 has 11 MA's), (Start: 16 @56816 has 33 MA's), (26, 56879), (31, 56906), (43, 57029),

Gene: CRB2_64 Start: 58911, Stop: 59153, Start Num: 16

Candidate Starts for CRB2_64:

(Start: 14 @58902 has 11 MA's), (Start: 16 @58911 has 33 MA's), (27, 58971), (29, 58983), (33, 59013), (36, 59034),

Gene: CRB2_66 Start: 60189, Stop: 60422, Start Num: 17

Candidate Starts for CRB2_66:

(Start: 17 @60189 has 1 MA's), (20, 60222), (22, 60225), (Start: 25 @60252 has 3 MA's), (29, 60270),

Gene: CamL_68 Start: 57139, Stop: 57390, Start Num: 14

Candidate Starts for CamL_68:

(Start: 9 @57118 has 136 MA's), (Start: 14 @57139 has 11 MA's), (Start: 16 @57148 has 33 MA's), (26, 57211), (31, 57238), (43, 57361),

Gene: CampRoach_69 Start: 57225, Stop: 57497, Start Num: 9

Candidate Starts for CampRoach_69:

(Start: 9 @57225 has 136 MA's), (Start: 14 @57246 has 11 MA's), (Start: 16 @57255 has 33 MA's), (26, 57318), (31, 57345), (43, 57468),

Gene: Cannibal_68 Start: 57060, Stop: 57332, Start Num: 9

Candidate Starts for Cannibal_68:

(Start: 9 @57060 has 136 MA's), (Start: 14 @57081 has 11 MA's), (Start: 16 @57090 has 33 MA's), (26, 57153), (31, 57180), (43, 57303),

Gene: Carthage_68 Start: 56724, Stop: 56996, Start Num: 9

Candidate Starts for Carthage_68:

(Start: 9 @56724 has 136 MA's), (Start: 14 @56745 has 11 MA's), (Start: 16 @56754 has 33 MA's), (26, 56817), (31, 56844), (43, 56967),

Gene: Casbah_68 Start: 57566, Stop: 57853, Start Num: 10

Candidate Starts for Casbah_68:

(1, 57344), (2, 57362), (3, 57374), (4, 57419), (7, 57554), (Start: 10 @57566 has 25 MA's), (12, 57584), (Start: 14 @57596 has 11 MA's), (Start: 16 @57605 has 33 MA's), (18, 57614), (37, 57758), (42, 57815),

Gene: ChaChing_68 Start: 57264, Stop: 57551, Start Num: 10

Candidate Starts for ChaChing_68:

(1, 57042), (2, 57060), (3, 57072), (4, 57117), (7, 57252), (Start: 10 @57264 has 25 MA's), (12, 57282), (Start: 14 @57294 has 11 MA's), (Start: 16 @57303 has 33 MA's), (18, 57312), (37, 57456), (42, 57513),

Gene: Chaelin_69 Start: 57349, Stop: 57621, Start Num: 9

Candidate Starts for Chaelin_69:

(Start: 9 @57349 has 136 MA's), (Start: 14 @57370 has 11 MA's), (Start: 16 @57379 has 33 MA's), (26, 57442), (31, 57469), (43, 57592),

Gene: Chah_69 Start: 56763, Stop: 57035, Start Num: 9

Candidate Starts for Chah_69:

(Start: 9 @56763 has 136 MA's), (Start: 14 @56784 has 11 MA's), (Start: 16 @56793 has 33 MA's), (26, 56856), (31, 56883), (43, 57006),

Gene: Chalmers_67 Start: 57697, Stop: 57984, Start Num: 10

Candidate Starts for Chalmers_67:

(1, 57475), (2, 57493), (3, 57505), (4, 57550), (7, 57685), (Start: 10 @57697 has 25 MA's), (12, 57715), (Start: 14 @57727 has 11 MA's), (Start: 16 @57736 has 33 MA's), (18, 57745), (37, 57889), (42, 57946),

Gene: Charles1_69 Start: 57073, Stop: 57345, Start Num: 9

Candidate Starts for Charles1_69:

(Start: 9 @57073 has 136 MA's), (Start: 14 @57094 has 11 MA's), (Start: 16 @57103 has 33 MA's), (26, 57166), (31, 57193), (43, 57316),

Gene: CharlieGBrown_66 Start: 56715, Stop: 57017, Start Num: 8

Candidate Starts for CharlieGBrown_66:

(Start: 8 @56715 has 75 MA's), (Start: 16 @56769 has 33 MA's), (Start: 25 @56838 has 3 MA's), (32, 56880),

Gene: CheetO_67 Start: 57036, Stop: 57308, Start Num: 9

Candidate Starts for CheetO_67:

(Start: 9 @57036 has 136 MA's), (Start: 14 @57057 has 11 MA's), (Start: 16 @57066 has 33 MA's), (26, 57129), (31, 57156), (43, 57279),

Gene: Cher_68 Start: 57320, Stop: 57622, Start Num: 8

Candidate Starts for Cher_68:

(Start: 8 @57320 has 75 MA's), (Start: 16 @57374 has 33 MA's), (Start: 25 @57443 has 3 MA's), (32, 57485),

Gene: Childish_67 Start: 57339, Stop: 57611, Start Num: 9

Candidate Starts for Childish_67:

(Start: 9 @57339 has 136 MA's), (Start: 14 @57360 has 11 MA's), (Start: 16 @57369 has 33 MA's), (26, 57432), (27, 57435), (31, 57459), (43, 57582),

Gene: ChrisnMich_61 Start: 56895, Stop: 57212, Start Num: 9

Candidate Starts for ChrisnMich_61:

(Start: 9 @56895 has 136 MA's), (Start: 16 @56943 has 33 MA's), (Start: 25 @56994 has 3 MA's), (27, 57000), (28, 57006), (29, 57012), (34, 57045), (36, 57063), (37, 57078), (39, 57093), (40, 57111),

Gene: Chunky_68 Start: 56653, Stop: 56925, Start Num: 9

Candidate Starts for Chunky_68:

(Start: 9 @56653 has 136 MA's), (Start: 14 @56674 has 11 MA's), (Start: 16 @56683 has 33 MA's), (26, 56746), (31, 56773), (43, 56896),

Gene: Cobra_68 Start: 57351, Stop: 57653, Start Num: 8

Candidate Starts for Cobra_68:

(Start: 8 @57351 has 75 MA's), (Start: 16 @57405 has 33 MA's), (Start: 25 @57474 has 3 MA's), (32, 57516),

Gene: Colbert_66 Start: 56375, Stop: 56647, Start Num: 9

Candidate Starts for Colbert_66:

(Start: 9 @56375 has 136 MA's), (Start: 14 @56396 has 11 MA's), (Start: 16 @56405 has 33 MA's), (26, 56468), (31, 56495), (43, 56618),

Gene: Coletti_71 Start: 57877, Stop: 58149, Start Num: 9

Candidate Starts for Coletti_71:

(Start: 9 @57877 has 136 MA's), (Start: 14 @57898 has 11 MA's), (Start: 16 @57907 has 33 MA's), (26, 57970), (31, 57997), (43, 58120),

Gene: Cooper_63 Start: 57347, Stop: 57664, Start Num: 9

Candidate Starts for Cooper_63:

(Start: 9 @57347 has 136 MA's), (Start: 16 @57395 has 33 MA's), (Start: 25 @57446 has 3 MA's), (27, 57452), (28, 57458), (29, 57464), (34, 57497), (36, 57515), (39, 57545),

Gene: Cornbread_66 Start: 56841, Stop: 57113, Start Num: 9

Candidate Starts for Cornbread_66:

(Start: 9 @56841 has 136 MA's), (Start: 14 @56862 has 11 MA's), (Start: 16 @56871 has 33 MA's), (26, 56934), (31, 56961), (43, 57084),

Gene: Corofin_68 Start: 57277, Stop: 57564, Start Num: 10

Candidate Starts for Corofin_68:

(1, 57055), (2, 57073), (3, 57085), (4, 57130), (7, 57265), (Start: 10 @57277 has 25 MA's), (12, 57295), (Start: 14 @57307 has 11 MA's), (Start: 16 @57316 has 33 MA's), (18, 57325), (37, 57469), (42, 57526),

Gene: Cosmolli16_69 Start: 57541, Stop: 57792, Start Num: 14

Candidate Starts for Cosmolli16_69:

(Start: 9 @57520 has 136 MA's), (Start: 14 @57541 has 11 MA's), (Start: 16 @57550 has 33 MA's), (26, 57613), (31, 57640), (43, 57763),

Gene: Craff_71 Start: 57754, Stop: 58056, Start Num: 8

Candidate Starts for Craff_71:

(Start: 8 @57754 has 75 MA's), (Start: 16 @57808 has 33 MA's), (Start: 25 @57877 has 3 MA's), (32, 57919),

Gene: Crownjwl_66 Start: 56838, Stop: 57110, Start Num: 9

Candidate Starts for Crownjwl_66:

(Start: 9 @56838 has 136 MA's), (Start: 14 @56859 has 11 MA's), (Start: 16 @56868 has 33 MA's), (31, 56958), (43, 57081),

Gene: DaddyDaniels_70 Start: 57296, Stop: 57568, Start Num: 9

Candidate Starts for DaddyDaniels_70:

(Start: 9 @57296 has 136 MA's), (Start: 14 @57317 has 11 MA's), (Start: 16 @57326 has 33 MA's), (26, 57389), (27, 57392), (31, 57416), (43, 57539),

Gene: Daffy_66 Start: 56792, Stop: 57094, Start Num: 8

Candidate Starts for Daffy_66:

(Start: 8 @56792 has 75 MA's), (Start: 16 @56846 has 33 MA's), (Start: 25 @56915 has 3 MA's), (32, 56957),

Gene: Daka_70 Start: 57306, Stop: 57608, Start Num: 8

Candidate Starts for Daka_70:

(Start: 8 @57306 has 75 MA's), (Start: 16 @57360 has 33 MA's), (Start: 25 @57429 has 3 MA's), (32, 57471),

Gene: Deenasa_68 Start: 58113, Stop: 58400, Start Num: 10

Candidate Starts for Deenasa_68:

(1, 57891), (2, 57909), (3, 57921), (4, 57966), (7, 58101), (Start: 10 @58113 has 25 MA's), (12, 58131), (Start: 14 @58143 has 11 MA's), (Start: 16 @58152 has 33 MA's), (18, 58161), (37, 58305), (42, 58362),

Gene: DelRivs_66 Start: 56786, Stop: 57058, Start Num: 9

Candidate Starts for DelRivs_66:

(Start: 9 @56786 has 136 MA's), (Start: 14 @56807 has 11 MA's), (Start: 16 @56816 has 33 MA's), (31, 56906), (43, 57029),

Gene: Derpp_68 Start: 56891, Stop: 57193, Start Num: 8

Candidate Starts for Derpp_68:

(Start: 8 @56891 has 75 MA's), (Start: 16 @56945 has 33 MA's), (Start: 25 @57014 has 3 MA's), (32, 57056),

Gene: Devonte_67 Start: 56889, Stop: 57176, Start Num: 10

Candidate Starts for Devonte_67:

(1, 56667), (2, 56685), (3, 56697), (4, 56742), (7, 56877), (Start: 10 @56889 has 25 MA's), (12, 56907), (Start: 14 @56919 has 11 MA's), (Start: 16 @56928 has 33 MA's), (18, 56937), (37, 57081), (42, 57138),

Gene: Dice_67 Start: 56784, Stop: 57056, Start Num: 9

Candidate Starts for Dice_67:

(Start: 9 @56784 has 136 MA's), (Start: 14 @56805 has 11 MA's), (Start: 16 @56814 has 33 MA's), (26, 56877), (31, 56904), (43, 57027),

Gene: Dione_66 Start: 56518, Stop: 56790, Start Num: 9

Candidate Starts for Dione_66:

(Start: 9 @56518 has 136 MA's), (Start: 14 @56539 has 11 MA's), (Start: 16 @56548 has 33 MA's), (26, 56611), (31, 56638), (43, 56761),

Gene: DirtJuice_68 Start: 57097, Stop: 57399, Start Num: 8

Candidate Starts for DirtJuice_68:

(Start: 8 @57097 has 75 MA's), (Start: 16 @57151 has 33 MA's), (Start: 25 @57220 has 3 MA's), (32, 57262),

Gene: Doddsville_66 Start: 56854, Stop: 57156, Start Num: 8

Candidate Starts for Doddsville_66:

(Start: 8 @56854 has 75 MA's), (Start: 16 @56908 has 33 MA's), (Start: 25 @56977 has 3 MA's), (32, 57019),

Gene: DoesntMatter_65 Start: 56808, Stop: 57080, Start Num: 9

Candidate Starts for DoesntMatter_65:

(Start: 9 @56808 has 136 MA's), (Start: 14 @56829 has 11 MA's), (Start: 16 @56838 has 33 MA's), (26, 56901), (31, 56928), (43, 57051),

Gene: Donny_68 Start: 58302, Stop: 58586, Start Num: 11

Candidate Starts for Donny_68:

(Start: 11 @58302 has 4 MA's), (Start: 14 @58329 has 11 MA's), (Start: 16 @58338 has 33 MA's), (27, 58404), (37, 58482), (41, 58536), (43, 58551), (44, 58572),

Gene: DuchessDung_67 Start: 56370, Stop: 56672, Start Num: 8

Candidate Starts for DuchessDung_67:

(Start: 8 @56370 has 75 MA's), (Start: 16 @56424 has 33 MA's), (Start: 25 @56493 has 3 MA's), (32, 56535),

Gene: Duggie_68 Start: 57082, Stop: 57333, Start Num: 14

Candidate Starts for Duggie_68:

(Start: 14 @57082 has 11 MA's), (Start: 16 @57091 has 33 MA's), (31, 57181), (43, 57304),

Gene: Durga_70 Start: 57651, Stop: 57899, Start Num: 16

Candidate Starts for Durga_70:

(Start: 8 @57597 has 75 MA's), (Start: 16 @57651 has 33 MA's), (Start: 25 @57720 has 3 MA's), (32, 57762),

Gene: Emiris_69 Start: 57560, Stop: 57808, Start Num: 16

Candidate Starts for Emiris_69:

(Start: 8 @57506 has 75 MA's), (Start: 16 @57560 has 33 MA's), (Start: 25 @57629 has 3 MA's), (32, 57671),

Gene: EmpTee_67 Start: 57028, Stop: 57300, Start Num: 9

Candidate Starts for EmpTee_67:

(Start: 9 @57028 has 136 MA's), (Start: 14 @57049 has 11 MA's), (Start: 16 @57058 has 33 MA's), (26, 57121), (31, 57148), (43, 57271),

Gene: Eremos_67 Start: 57023, Stop: 57295, Start Num: 9

Candidate Starts for Eremos_67:

(Start: 9 @57023 has 136 MA's), (Start: 14 @57044 has 11 MA's), (Start: 16 @57053 has 33 MA's), (26, 57116), (31, 57143), (43, 57266),

Gene: Etaye_67 Start: 57703, Stop: 57951, Start Num: 16

Candidate Starts for Etaye_67:

(Start: 8 @57649 has 75 MA's), (Start: 16 @57703 has 33 MA's), (Start: 25 @57772 has 3 MA's), (32, 57814),

Gene: Fang_69 Start: 57339, Stop: 57641, Start Num: 8

Candidate Starts for Fang_69:

(Start: 8 @57339 has 75 MA's), (Start: 16 @57393 has 33 MA's), (Start: 25 @57462 has 3 MA's), (32, 57504),

Gene: FleetyMac_71 Start: 56999, Stop: 57271, Start Num: 9

Candidate Starts for FleetyMac_71:

(Start: 9 @56999 has 136 MA's), (Start: 14 @57020 has 11 MA's), (Start: 16 @57029 has 33 MA's), (26, 57092), (31, 57119), (43, 57242),

Gene: FluffyNinja_68 Start: 57071, Stop: 57373, Start Num: 8

Candidate Starts for FluffyNinja_68:

(Start: 8 @57071 has 75 MA's), (Start: 16 @57125 has 33 MA's), (Start: 25 @57194 has 3 MA's), (32, 57236),

Gene: Fortunato_62 Start: 58000, Stop: 58269, Start Num: 16

Candidate Starts for Fortunato_62:

(Start: 16 @58000 has 33 MA's), (Start: 25 @58051 has 3 MA's), (27, 58057), (28, 58063), (29, 58069), (30, 58072), (34, 58102), (36, 58120), (37, 58135), (39, 58150), (40, 58168),

Gene: Frederick_62 Start: 57795, Stop: 58112, Start Num: 9

Candidate Starts for Frederick_62:

(Start: 9 @57795 has 136 MA's), (Start: 16 @57843 has 33 MA's), (Start: 25 @57894 has 3 MA's), (27, 57900), (28, 57906), (29, 57912), (34, 57945), (36, 57963), (37, 57978), (39, 57993), (40, 58011),

Gene: Freya_65 Start: 56508, Stop: 56780, Start Num: 9

Candidate Starts for Freya_65:

(Start: 9 @56508 has 136 MA's), (Start: 14 @56529 has 11 MA's), (Start: 16 @56538 has 33 MA's), (26, 56601), (31, 56628), (43, 56751),

Gene: FriarPreacher_66 Start: 56890, Stop: 57192, Start Num: 8

Candidate Starts for FriarPreacher_66:

(Start: 8 @56890 has 75 MA's), (Start: 16 @56944 has 33 MA's), (Start: 25 @57013 has 3 MA's), (32, 57055),

Gene: Fringe_72 Start: 57683, Stop: 57955, Start Num: 9

Candidate Starts for Fringe_72:

(Start: 9 @57683 has 136 MA's), (Start: 14 @57704 has 11 MA's), (Start: 16 @57713 has 33 MA's), (26, 57776), (31, 57803), (43, 57926),

Gene: FugateOSU_68 Start: 57843, Stop: 58145, Start Num: 8

Candidate Starts for FugateOSU_68:

(Start: 8 @57843 has 75 MA's), (Start: 16 @57897 has 33 MA's), (Start: 25 @57966 has 3 MA's), (32, 58008),

Gene: Gadget_69 Start: 57577, Stop: 57864, Start Num: 10

Candidate Starts for Gadget_69:

(1, 57355), (2, 57373), (3, 57385), (4, 57430), (7, 57565), (Start: 10 @57577 has 25 MA's), (12, 57595), (Start: 14 @57607 has 11 MA's), (Start: 16 @57616 has 33 MA's), (18, 57625), (37, 57769), (42, 57826),

Gene: Gareth_68 Start: 57304, Stop: 57576, Start Num: 9

Candidate Starts for Gareth_68:

(Start: 9 @57304 has 136 MA's), (Start: 14 @57325 has 11 MA's), (Start: 16 @57334 has 33 MA's), (26, 57397), (31, 57424), (43, 57547),

Gene: GinPorsche_61 Start: 56881, Stop: 57198, Start Num: 9

Candidate Starts for GinPorsche_61:

(Start: 9 @56881 has 136 MA's), (Start: 16 @56929 has 33 MA's), (Start: 25 @56980 has 3 MA's), (27, 56986), (29, 56998), (34, 57031), (36, 57049), (37, 57064), (39, 57079), (40, 57097),

Gene: Giraffe_68 Start: 57299, Stop: 57571, Start Num: 9

Candidate Starts for Giraffe_68:

(Start: 9 @57299 has 136 MA's), (Start: 14 @57320 has 11 MA's), (Start: 16 @57329 has 33 MA's), (26, 57392), (31, 57419), (43, 57542),

Gene: GlenHope_69 Start: 57237, Stop: 57524, Start Num: 10

Candidate Starts for GlenHope_69:

(1, 57015), (2, 57033), (3, 57045), (4, 57090), (7, 57225), (Start: 10 @57237 has 25 MA's), (12, 57255), (Start: 14 @57267 has 11 MA's), (Start: 16 @57276 has 33 MA's), (18, 57285), (37, 57429), (42, 57486),

Gene: Glubnar_69 Start: 57143, Stop: 57430, Start Num: 10

Candidate Starts for Glubnar_69:

(1, 56921), (2, 56939), (3, 56951), (4, 56996), (7, 57131), (Start: 10 @57143 has 25 MA's), (12, 57161), (Start: 14 @57173 has 11 MA's), (Start: 16 @57182 has 33 MA's), (18, 57191), (37, 57335), (42, 57392),

Gene: Gophee_69 Start: 57290, Stop: 57562, Start Num: 9

Candidate Starts for Gophee_69:

(Start: 9 @57290 has 136 MA's), (Start: 14 @57311 has 11 MA's), (Start: 16 @57320 has 33 MA's), (26, 57383), (31, 57410), (43, 57533),

Gene: Gwennie1_67 Start: 57190, Stop: 57462, Start Num: 9

Candidate Starts for Gwennie1_67:

(Start: 9 @57190 has 136 MA's), (Start: 14 @57211 has 11 MA's), (Start: 16 @57220 has 33 MA's), (31, 57310), (43, 57433),

Gene: HSavage_66 Start: 56826, Stop: 57098, Start Num: 9
Candidate Starts for HSavage_66:
(Start: 9 @56826 has 136 MA's), (Start: 14 @56847 has 11 MA's), (Start: 16 @56856 has 33 MA's),
(26, 56919), (31, 56946), (43, 57069),

Gene: Haimas_66 Start: 56790, Stop: 57092, Start Num: 8
Candidate Starts for Haimas_66:
(Start: 8 @56790 has 75 MA's), (Start: 16 @56844 has 33 MA's), (Start: 25 @56913 has 3 MA's), (32,
56955),

Gene: Haleema_67 Start: 56845, Stop: 57117, Start Num: 9
Candidate Starts for Haleema_67:
(Start: 9 @56845 has 136 MA's), (Start: 14 @56866 has 11 MA's), (Start: 16 @56875 has 33 MA's),
(26, 56938), (31, 56965), (43, 57088),

Gene: Halfpint_67 Start: 56988, Stop: 57275, Start Num: 10
Candidate Starts for Halfpint_67:
(1, 56766), (2, 56784), (3, 56796), (4, 56841), (7, 56976), (Start: 10 @56988 has 25 MA's), (12, 57006),
(Start: 14 @57018 has 11 MA's), (Start: 16 @57027 has 33 MA's), (18, 57036), (37, 57180), (42,
57237),

Gene: Hangman_61 Start: 58042, Stop: 58311, Start Num: 16
Candidate Starts for Hangman_61:
(Start: 16 @58042 has 33 MA's), (Start: 25 @58093 has 3 MA's), (27, 58099), (28, 58105), (29, 58111),
(30, 58114), (34, 58144), (36, 58162), (37, 58177), (39, 58192), (40, 58210),

Gene: Hartsy_67 Start: 56987, Stop: 57259, Start Num: 9
Candidate Starts for Hartsy_67:
(Start: 9 @56987 has 136 MA's), (Start: 14 @57008 has 11 MA's), (Start: 16 @57017 has 33 MA's),
(26, 57080), (31, 57107), (43, 57230),

Gene: Harvey_65 Start: 56819, Stop: 57121, Start Num: 8
Candidate Starts for Harvey_65:
(Start: 8 @56819 has 75 MA's), (Start: 16 @56873 has 33 MA's), (Start: 25 @56942 has 3 MA's), (32,
56984),

Gene: Heath_60 Start: 57720, Stop: 57938, Start Num: 25
Candidate Starts for Heath_60:
(Start: 16 @57669 has 33 MA's), (Start: 25 @57720 has 3 MA's), (27, 57726), (28, 57732), (29, 57738),
(30, 57741), (34, 57771), (36, 57789), (37, 57804), (39, 57819), (40, 57837),

Gene: Heathcliff_68 Start: 57204, Stop: 57491, Start Num: 10
Candidate Starts for Heathcliff_68:
(1, 56982), (2, 57000), (3, 57012), (4, 57057), (7, 57192), (Start: 10 @57204 has 25 MA's), (12, 57222),
(Start: 14 @57234 has 11 MA's), (Start: 16 @57243 has 33 MA's), (18, 57252), (37, 57396), (42,
57453),

Gene: Held_66 Start: 56793, Stop: 57095, Start Num: 8
Candidate Starts for Held_66:
(Start: 8 @56793 has 75 MA's), (Start: 16 @56847 has 33 MA's), (Start: 25 @56916 has 3 MA's), (32,
56958),

Gene: HenryJackson_68 Start: 57328, Stop: 57600, Start Num: 9

Candidate Starts for HenryJackson_68:

(Start: 9 @57328 has 136 MA's), (Start: 14 @57349 has 11 MA's), (Start: 16 @57358 has 33 MA's), (26, 57421), (27, 57424), (31, 57448), (43, 57571),

Gene: Hertubise_67 Start: 57094, Stop: 57366, Start Num: 9

Candidate Starts for Hertubise_67:

(Start: 9 @57094 has 136 MA's), (Start: 14 @57115 has 11 MA's), (Start: 16 @57124 has 33 MA's), (26, 57187), (31, 57214), (43, 57337),

Gene: Hetaeria_67 Start: 57034, Stop: 57306, Start Num: 9

Candidate Starts for Hetaeria_67:

(Start: 9 @57034 has 136 MA's), (Start: 14 @57055 has 11 MA's), (Start: 16 @57064 has 33 MA's), (26, 57127), (31, 57154), (43, 57277),

Gene: HighStump_69 Start: 57296, Stop: 57598, Start Num: 8

Candidate Starts for HighStump_69:

(Start: 8 @57296 has 75 MA's), (Start: 16 @57350 has 33 MA's), (Start: 25 @57419 has 3 MA's), (32, 57461),

Gene: Hydro_61 Start: 57932, Stop: 58249, Start Num: 9

Candidate Starts for Hydro_61:

(Start: 9 @57932 has 136 MA's), (Start: 16 @57980 has 33 MA's), (Start: 25 @58031 has 3 MA's), (27, 58037), (28, 58043), (29, 58049), (30, 58052), (34, 58082), (36, 58100), (37, 58115), (39, 58130), (40, 58148),

Gene: Imvubu_61 Start: 56360, Stop: 56623, Start Num: 15

Candidate Starts for Imvubu_61:

(Start: 14 @56357 has 11 MA's), (Start: 15 @56360 has 1 MA's), (Start: 16 @56366 has 33 MA's), (Start: 25 @56417 has 3 MA's), (37, 56501), (39, 56516),

Gene: Iridessa_69 Start: 56753, Stop: 57025, Start Num: 9

Candidate Starts for Iridessa_69:

(Start: 9 @56753 has 136 MA's), (Start: 14 @56774 has 11 MA's), (Start: 16 @56783 has 33 MA's), (26, 56846), (31, 56873), (43, 56996),

Gene: Iridoclysis_67 Start: 57107, Stop: 57409, Start Num: 8

Candidate Starts for Iridoclysis_67:

(Start: 8 @57107 has 75 MA's), (Start: 16 @57161 has 33 MA's), (Start: 25 @57230 has 3 MA's), (32, 57272),

Gene: IsaacEli_69 Start: 57317, Stop: 57589, Start Num: 9

Candidate Starts for IsaacEli_69:

(Start: 9 @57317 has 136 MA's), (Start: 14 @57338 has 11 MA's), (Start: 16 @57347 has 33 MA's), (26, 57410), (31, 57437), (43, 57560),

Gene: JAMaL_61 Start: 58031, Stop: 58300, Start Num: 16

Candidate Starts for JAMaL_61:

(Start: 16 @58031 has 33 MA's), (Start: 25 @58082 has 3 MA's), (27, 58088), (28, 58094), (29, 58100), (34, 58133), (36, 58151), (37, 58166), (39, 58181), (40, 58199),

Gene: JDog_67 Start: 57338, Stop: 57610, Start Num: 9

Candidate Starts for JDog_67:

(Start: 9 @57338 has 136 MA's), (Start: 14 @57359 has 11 MA's), (Start: 16 @57368 has 33 MA's), (26, 57431), (31, 57458), (43, 57581),

Gene: JacAttac_68 Start: 56782, Stop: 57054, Start Num: 9

Candidate Starts for JacAttac_68:

(Start: 9 @56782 has 136 MA's), (Start: 14 @56803 has 11 MA's), (Start: 16 @56812 has 33 MA's), (26, 56875), (31, 56902), (43, 57025),

Gene: Jackstina_64 Start: 57129, Stop: 57416, Start Num: 10

Candidate Starts for Jackstina_64:

(1, 56907), (2, 56925), (3, 56937), (4, 56982), (7, 57117), (Start: 10 @57129 has 25 MA's), (12, 57147), (Start: 14 @57159 has 11 MA's), (Start: 16 @57168 has 33 MA's), (18, 57177), (37, 57321), (42, 57378),

Gene: JakeO_69 Start: 57084, Stop: 57335, Start Num: 14

Candidate Starts for JakeO_69:

(Start: 14 @57084 has 11 MA's), (Start: 16 @57093 has 33 MA's), (26, 57156), (31, 57183), (43, 57306),

Gene: JangoPhett_102 Start: 57123, Stop: 57395, Start Num: 9

Candidate Starts for JangoPhett_102:

(Start: 9 @57123 has 136 MA's), (Start: 14 @57144 has 11 MA's), (Start: 16 @57153 has 33 MA's), (26, 57216), (31, 57243), (43, 57366),

Gene: Jesabah_70 Start: 57918, Stop: 58190, Start Num: 9

Candidate Starts for Jesabah_70:

(Start: 9 @57918 has 136 MA's), (Start: 14 @57939 has 11 MA's), (Start: 16 @57948 has 33 MA's), (26, 58011), (31, 58038), (43, 58161),

Gene: Jillium_68 Start: 57323, Stop: 57595, Start Num: 9

Candidate Starts for Jillium_68:

(Start: 9 @57323 has 136 MA's), (Start: 14 @57344 has 11 MA's), (Start: 16 @57353 has 33 MA's), (26, 57416), (31, 57443), (43, 57566),

Gene: Jiraiya_69 Start: 57095, Stop: 57367, Start Num: 9

Candidate Starts for Jiraiya_69:

(Start: 9 @57095 has 136 MA's), (Start: 14 @57116 has 11 MA's), (Start: 16 @57125 has 33 MA's), (31, 57215), (43, 57338),

Gene: KLucky39_66 Start: 56669, Stop: 56941, Start Num: 9

Candidate Starts for KLucky39_66:

(Start: 9 @56669 has 136 MA's), (Start: 14 @56690 has 11 MA's), (Start: 16 @56699 has 33 MA's), (26, 56762), (31, 56789), (43, 56912),

Gene: Kahve_68 Start: 57325, Stop: 57597, Start Num: 9

Candidate Starts for Kahve_68:

(Start: 9 @57325 has 136 MA's), (Start: 14 @57346 has 11 MA's), (Start: 16 @57355 has 33 MA's), (26, 57418), (27, 57421), (31, 57445), (43, 57568),

Gene: Kailash_66 Start: 57214, Stop: 57516, Start Num: 8

Candidate Starts for Kailash_66:

(Start: 8 @57214 has 75 MA's), (Start: 16 @57268 has 33 MA's), (Start: 25 @57337 has 3 MA's), (32, 57379),

Gene: Katniss_69 Start: 56765, Stop: 57037, Start Num: 9

Candidate Starts for Katniss_69:

(Start: 9 @56765 has 136 MA's), (Start: 14 @56786 has 11 MA's), (Start: 16 @56795 has 33 MA's), (26, 56858), (31, 56885), (43, 57008),

Gene: Keitherie_70 Start: 57387, Stop: 57659, Start Num: 9

Candidate Starts for Keitherie_70:

(Start: 9 @57387 has 136 MA's), (Start: 14 @57408 has 11 MA's), (Start: 16 @57417 has 33 MA's), (26, 57480), (31, 57507), (43, 57630),

Gene: Kikipoo_69 Start: 57317, Stop: 57589, Start Num: 9

Candidate Starts for Kikipoo_69:

(Start: 9 @57317 has 136 MA's), (Start: 14 @57338 has 11 MA's), (Start: 16 @57347 has 33 MA's), (26, 57410), (31, 57437), (43, 57560),

Gene: Kimbrough_69 Start: 57367, Stop: 57639, Start Num: 9

Candidate Starts for Kimbrough_69:

(Start: 9 @57367 has 136 MA's), (Start: 14 @57388 has 11 MA's), (Start: 16 @57397 has 33 MA's), (26, 57460), (31, 57487), (43, 57610),

Gene: KingTut_59 Start: 53521, Stop: 53823, Start Num: 8

Candidate Starts for KingTut_59:

(Start: 8 @53521 has 75 MA's), (Start: 16 @53575 has 33 MA's), (Start: 25 @53644 has 3 MA's), (32, 53686),

Gene: KingVeVeVe_66 Start: 56324, Stop: 56626, Start Num: 8

Candidate Starts for KingVeVeVe_66:

(Start: 8 @56324 has 75 MA's), (Start: 16 @56378 has 33 MA's), (Start: 25 @56447 has 3 MA's), (32, 56489),

Gene: KlimbOn_67 Start: 56826, Stop: 57098, Start Num: 9

Candidate Starts for KlimbOn_67:

(Start: 9 @56826 has 136 MA's), (Start: 14 @56847 has 11 MA's), (Start: 16 @56856 has 33 MA's), (26, 56919), (31, 56946), (43, 57069),

Gene: Kloppinator_68 Start: 56982, Stop: 57284, Start Num: 8

Candidate Starts for Kloppinator_68:

(Start: 8 @56982 has 75 MA's), (Start: 16 @57036 has 33 MA's), (Start: 25 @57105 has 3 MA's), (32, 57147),

Gene: Knocker_66 Start: 59276, Stop: 59527, Start Num: 16

Candidate Starts for Knocker_66:

(Start: 16 @59276 has 33 MA's), (28, 59339), (33, 59375),

Gene: Kwadwo_67 Start: 56776, Stop: 57048, Start Num: 9

Candidate Starts for Kwadwo_67:

(Start: 9 @56776 has 136 MA's), (Start: 14 @56797 has 11 MA's), (Start: 16 @56806 has 33 MA's), (26, 56869), (31, 56896), (43, 57019),

Gene: Kwksand96_68 Start: 56903, Stop: 57205, Start Num: 8

Candidate Starts for Kwksand96_68:

(Start: 8 @56903 has 75 MA's), (Start: 16 @56957 has 33 MA's), (Start: 25 @57026 has 3 MA's), (32, 57068),

Gene: Labeouficaum_68 Start: 56891, Stop: 57193, Start Num: 8

Candidate Starts for Labeouficaum_68:

(Start: 8 @56891 has 75 MA's), (Start: 16 @56945 has 33 MA's), (Start: 25 @57014 has 3 MA's), (32, 57056),

Gene: LeeLot_67 Start: 57397, Stop: 57699, Start Num: 8

Candidate Starts for LeeLot_67:

(Start: 8 @57397 has 75 MA's), (Start: 16 @57451 has 33 MA's), (Start: 25 @57520 has 3 MA's), (32, 57562),

Gene: Lego3393_65 Start: 57349, Stop: 57651, Start Num: 8

Candidate Starts for Lego3393_65:

(Start: 8 @57349 has 75 MA's), (Start: 16 @57403 has 33 MA's), (Start: 25 @57472 has 3 MA's), (32, 57514),

Gene: Legolas_69 Start: 57190, Stop: 57438, Start Num: 16

Candidate Starts for Legolas_69:

(Start: 8 @57136 has 75 MA's), (Start: 16 @57190 has 33 MA's), (Start: 25 @57259 has 3 MA's), (32, 57301),

Gene: LemonSlice_68 Start: 56788, Stop: 57090, Start Num: 8

Candidate Starts for LemonSlice_68:

(Start: 8 @56788 has 75 MA's), (Start: 16 @56842 has 33 MA's), (Start: 25 @56911 has 3 MA's), (32, 56953),

Gene: LilMcDreamy_64 Start: 57921, Stop: 58187, Start Num: 14

Candidate Starts for LilMcDreamy_64:

(Start: 14 @57921 has 11 MA's), (Start: 16 @57930 has 33 MA's), (21, 57972), (24, 57993), (Start: 25 @57999 has 3 MA's), (33, 58047),

Gene: LittleMinkey_75 Start: 58467, Stop: 58718, Start Num: 16

Candidate Starts for LittleMinkey_75:

(Start: 8 @58425 has 75 MA's), (Start: 14 @58458 has 11 MA's), (Start: 16 @58467 has 33 MA's), (30, 58551), (33, 58581),

Gene: Lolalove_62 Start: 58003, Stop: 58272, Start Num: 16

Candidate Starts for Lolalove_62:

(Start: 16 @58003 has 33 MA's), (Start: 25 @58054 has 3 MA's), (27, 58060), (28, 58066), (29, 58072), (30, 58075), (34, 58105), (36, 58123), (37, 58138), (39, 58153), (40, 58171),

Gene: Longacauda_69 Start: 57172, Stop: 57444, Start Num: 9

Candidate Starts for Longacauda_69:

(Start: 9 @57172 has 136 MA's), (Start: 14 @57193 has 11 MA's), (Start: 16 @57202 has 33 MA's), (26, 57265), (31, 57292), (43, 57415),

Gene: LostAndPhound_67 Start: 57395, Stop: 57643, Start Num: 16

Candidate Starts for LostAndPhound_67:

(Start: 8 @57341 has 75 MA's), (Start: 16 @57395 has 33 MA's), (Start: 25 @57464 has 3 MA's), (32, 57506),

Gene: LuckyMarjie_65 Start: 56527, Stop: 56799, Start Num: 9

Candidate Starts for LuckyMarjie_65:

(Start: 9 @56527 has 136 MA's), (Start: 14 @56548 has 11 MA's), (Start: 16 @56557 has 33 MA's), (26, 56620), (31, 56647), (43, 56770),

Gene: Lulumae_65 Start: 56511, Stop: 56783, Start Num: 9

Candidate Starts for Lulumae_65:

(Start: 9 @56511 has 136 MA's), (Start: 14 @56532 has 11 MA's), (Start: 16 @56541 has 33 MA's), (26, 56604), (31, 56631), (43, 56754),

Gene: Lumine_69 Start: 56995, Stop: 57267, Start Num: 9

Candidate Starts for Lumine_69:

(Start: 9 @56995 has 136 MA's), (Start: 14 @57016 has 11 MA's), (Start: 16 @57025 has 33 MA's), (26, 57088), (31, 57115), (43, 57238),

Gene: MRabcd_67 Start: 57164, Stop: 57412, Start Num: 16

Candidate Starts for MRabcd_67:

(Start: 8 @57110 has 75 MA's), (Start: 16 @57164 has 33 MA's), (Start: 25 @57233 has 3 MA's), (32, 57275),

Gene: Mag7_66 Start: 56812, Stop: 57060, Start Num: 16

Candidate Starts for Mag7_66:

(Start: 8 @56758 has 75 MA's), (Start: 16 @56812 has 33 MA's), (Start: 25 @56881 has 3 MA's), (32, 56923),

Gene: Mana_66 Start: 56783, Stop: 57085, Start Num: 8

Candidate Starts for Mana_66:

(Start: 8 @56783 has 75 MA's), (Start: 16 @56837 has 33 MA's), (Start: 25 @56906 has 3 MA's), (32, 56948),

Gene: Manad_67 Start: 57078, Stop: 57350, Start Num: 9

Candidate Starts for Manad_67:

(Start: 9 @57078 has 136 MA's), (Start: 14 @57099 has 11 MA's), (Start: 16 @57108 has 33 MA's), (26, 57171), (31, 57198), (43, 57321),

Gene: Maru_67 Start: 57222, Stop: 57524, Start Num: 8

Candidate Starts for Maru_67:

(Start: 8 @57222 has 75 MA's), (Start: 16 @57276 has 33 MA's), (Start: 25 @57345 has 3 MA's), (32, 57387),

Gene: Matalotodo_66 Start: 57622, Stop: 57924, Start Num: 8

Candidate Starts for Matalotodo_66:

(Start: 8 @57622 has 75 MA's), (Start: 16 @57676 has 33 MA's), (Start: 25 @57745 has 3 MA's), (32, 57787),

Gene: Mcshane_67 Start: 56789, Stop: 57061, Start Num: 9

Candidate Starts for Mcshane_67:

(Start: 9 @56789 has 136 MA's), (Start: 14 @56810 has 11 MA's), (Start: 16 @56819 has 33 MA's), (26, 56882), (31, 56909), (43, 57032),

Gene: Mecca_68 Start: 57354, Stop: 57626, Start Num: 9

Candidate Starts for Mecca_68:

(Start: 9 @57354 has 136 MA's), (Start: 14 @57375 has 11 MA's), (Start: 16 @57384 has 33 MA's), (26, 57447), (31, 57474), (43, 57597),

Gene: Megatron_68 Start: 57304, Stop: 57576, Start Num: 9

Candidate Starts for Megatron_68:

(Start: 9 @57304 has 136 MA's), (Start: 14 @57325 has 11 MA's), (Start: 16 @57334 has 33 MA's), (26, 57397), (31, 57424), (43, 57547),

Gene: Mesh1_68 Start: 57358, Stop: 57660, Start Num: 8

Candidate Starts for Mesh1_68:

(Start: 8 @57358 has 75 MA's), (Start: 16 @57412 has 33 MA's), (Start: 25 @57481 has 3 MA's), (32, 57523),

Gene: Mesmerelda_67 Start: 57347, Stop: 57619, Start Num: 9

Candidate Starts for Mesmerelda_67:

(Start: 9 @57347 has 136 MA's), (Start: 14 @57368 has 11 MA's), (Start: 16 @57377 has 33 MA's), (26, 57440), (31, 57467), (43, 57590),

Gene: MichaelPhcott_66 Start: 56755, Stop: 57057, Start Num: 8

Candidate Starts for MichaelPhcott_66:

(Start: 8 @56755 has 75 MA's), (Start: 16 @56809 has 33 MA's), (Start: 25 @56878 has 3 MA's), (32, 56920),

Gene: MitKao_67 Start: 56792, Stop: 57094, Start Num: 8

Candidate Starts for MitKao_67:

(Start: 8 @56792 has 75 MA's), (Start: 16 @56846 has 33 MA's), (Start: 25 @56915 has 3 MA's), (32, 56957),

Gene: Mithril_61 Start: 58157, Stop: 58423, Start Num: 16

Candidate Starts for Mithril_61:

(Start: 16 @58157 has 33 MA's), (Start: 25 @58208 has 3 MA's), (27, 58214), (28, 58220), (29, 58226), (30, 58229), (34, 58259), (36, 58277), (37, 58292), (39, 58307), (40, 58325),

Gene: Morgushi_66 Start: 56781, Stop: 57083, Start Num: 8

Candidate Starts for Morgushi_66:

(Start: 8 @56781 has 75 MA's), (Start: 16 @56835 has 33 MA's), (Start: 25 @56904 has 3 MA's), (32, 56946),

Gene: Morty_69 Start: 57318, Stop: 57590, Start Num: 9

Candidate Starts for Morty_69:

(Start: 9 @57318 has 136 MA's), (Start: 14 @57339 has 11 MA's), (Start: 16 @57348 has 33 MA's), (26, 57411), (31, 57438), (43, 57561),

Gene: Mosaic_65 Start: 56787, Stop: 57089, Start Num: 8

Candidate Starts for Mosaic_65:

(6, 56778), (Start: 8 @56787 has 75 MA's), (Start: 16 @56841 has 33 MA's), (Start: 25 @56910 has 3 MA's), (32, 56952),

Gene: MrPhizzler_71 Start: 57258, Stop: 57530, Start Num: 9

Candidate Starts for MrPhizzler_71:

(Start: 9 @57258 has 136 MA's), (Start: 14 @57279 has 11 MA's), (Start: 16 @57288 has 33 MA's), (26, 57351), (31, 57378), (43, 57501),

Gene: Mudslide_61 Start: 58184, Stop: 58498, Start Num: 9

Candidate Starts for Mudslide_61:

(Start: 9 @58184 has 136 MA's), (Start: 16 @58232 has 33 MA's), (Start: 25 @58283 has 3 MA's), (27, 58289), (28, 58295), (29, 58301), (30, 58304), (34, 58334), (36, 58352), (37, 58367), (39, 58382), (40, 58400),

Gene: Mulan_67 Start: 57021, Stop: 57323, Start Num: 8

Candidate Starts for Mulan_67:

(Start: 8 @57021 has 75 MA's), (Start: 16 @57075 has 33 MA's), (Start: 25 @57144 has 3 MA's), (32, 57186),

Gene: Murdoc_65 Start: 57070, Stop: 57372, Start Num: 8

Candidate Starts for Murdoc_65:

(Start: 8 @57070 has 75 MA's), (Start: 16 @57124 has 33 MA's), (Start: 25 @57193 has 3 MA's), (32, 57235),

Gene: Mutante_68 Start: 56801, Stop: 57073, Start Num: 9

Candidate Starts for Mutante_68:

(Start: 9 @56801 has 136 MA's), (Start: 14 @56822 has 11 MA's), (Start: 16 @56831 has 33 MA's), (26, 56894), (31, 56921), (43, 57044),

Gene: Nacho_0071 Start: 57839, Stop: 58111, Start Num: 9

Candidate Starts for Nacho_0071:

(Start: 9 @57839 has 136 MA's), (Start: 14 @57860 has 11 MA's), (Start: 16 @57869 has 33 MA's), (26, 57932), (31, 57959), (43, 58082),

Gene: Newman_66 Start: 57116, Stop: 57388, Start Num: 9

Candidate Starts for Newman_66:

(Start: 9 @57116 has 136 MA's), (Start: 14 @57137 has 11 MA's), (Start: 16 @57146 has 33 MA's), (26, 57209), (31, 57236), (43, 57359),

Gene: Nicole21_69 Start: 57080, Stop: 57352, Start Num: 9

Candidate Starts for Nicole21_69:

(Start: 9 @57080 has 136 MA's), (Start: 14 @57101 has 11 MA's), (Start: 16 @57110 has 33 MA's), (26, 57173), (31, 57200), (43, 57323),

Gene: Nigel_61 Start: 57023, Stop: 57292, Start Num: 16

Candidate Starts for Nigel_61:

(Start: 16 @57023 has 33 MA's), (Start: 25 @57074 has 3 MA's), (27, 57080), (28, 57086), (29, 57092), (30, 57095), (36, 57143), (37, 57158), (39, 57173),

Gene: Nozo_68 Start: 58013, Stop: 58300, Start Num: 10

Candidate Starts for Nozo_68:

(1, 57791), (2, 57809), (3, 57821), (4, 57866), (7, 58001), (Start: 10 @58013 has 25 MA's), (12, 58031), (Start: 14 @58043 has 11 MA's), (Start: 16 @58052 has 33 MA's), (18, 58061), (37, 58205), (42, 58262),

Gene: Numberten_67 Start: 57024, Stop: 57296, Start Num: 9

Candidate Starts for Numberten_67:

(Start: 9 @57024 has 136 MA's), (Start: 14 @57045 has 11 MA's), (Start: 16 @57054 has 33 MA's), (26, 57117), (31, 57144), (43, 57267),

Gene: Nyala_67 Start: 56799, Stop: 57071, Start Num: 9

Candidate Starts for Nyala_67:

(Start: 9 @56799 has 136 MA's), (Start: 14 @56820 has 11 MA's), (Start: 16 @56829 has 33 MA's), (26, 56892), (31, 56919), (43, 57042),

Gene: OSmaximus_68 Start: 57554, Stop: 57850, Start Num: 8

Candidate Starts for OSmaximus_68:

(5, 57536), (Start: 8 @57554 has 75 MA's), (Start: 14 @57599 has 11 MA's), (Start: 16 @57608 has 33 MA's), (27, 57674), (43, 57821),

Gene: Olak_67 Start: 56805, Stop: 57077, Start Num: 9

Candidate Starts for Olak_67:

(Start: 9 @56805 has 136 MA's), (Start: 14 @56826 has 11 MA's), (Start: 16 @56835 has 33 MA's), (26, 56898), (31, 56925), (43, 57048),

Gene: Oline_67 Start: 56953, Stop: 57255, Start Num: 8

Candidate Starts for Oline_67:

(Start: 8 @56953 has 75 MA's), (Start: 16 @57007 has 33 MA's), (Start: 25 @57076 has 3 MA's), (32, 57118),

Gene: OliverWalter_67 Start: 57124, Stop: 57396, Start Num: 9

Candidate Starts for OliverWalter_67:

(Start: 9 @57124 has 136 MA's), (Start: 14 @57145 has 11 MA's), (Start: 16 @57154 has 33 MA's), (26, 57217), (31, 57244), (43, 57367),

Gene: Omniscient_69 Start: 57662, Stop: 57934, Start Num: 9

Candidate Starts for Omniscient_69:

(Start: 9 @57662 has 136 MA's), (Start: 14 @57683 has 11 MA's), (Start: 16 @57692 has 33 MA's), (26, 57755), (31, 57782), (43, 57905),

Gene: OneBrain_71 Start: 57068, Stop: 57340, Start Num: 9

Candidate Starts for OneBrain_71:

(Start: 9 @57068 has 136 MA's), (Start: 14 @57089 has 11 MA's), (Start: 16 @57098 has 33 MA's), (26, 57161), (31, 57188), (43, 57311),

Gene: Oosterbaan_67 Start: 57081, Stop: 57353, Start Num: 9

Candidate Starts for Oosterbaan_67:

(Start: 9 @57081 has 136 MA's), (Start: 14 @57102 has 11 MA's), (Start: 16 @57111 has 33 MA's), (26, 57174), (31, 57201), (43, 57324),

Gene: OrangeOswald_68 Start: 57254, Stop: 57541, Start Num: 10

Candidate Starts for OrangeOswald_68:

(1, 57032), (2, 57050), (3, 57062), (4, 57107), (7, 57242), (Start: 10 @57254 has 25 MA's), (12, 57272), (Start: 14 @57284 has 11 MA's), (Start: 16 @57293 has 33 MA's), (18, 57302), (37, 57446), (42, 57503),

Gene: Orfeu_67 Start: 57338, Stop: 57610, Start Num: 9

Candidate Starts for Orfeu_67:

(Start: 9 @57338 has 136 MA's), (Start: 14 @57359 has 11 MA's), (Start: 16 @57368 has 33 MA's), (26, 57431), (31, 57458), (43, 57581),

Gene: Orwigg_67 Start: 56723, Stop: 56995, Start Num: 9

Candidate Starts for Orwigg_67:

(Start: 9 @56723 has 136 MA's), (Start: 14 @56744 has 11 MA's), (Start: 16 @56753 has 33 MA's), (26, 56816), (31, 56843), (43, 56966),

Gene: PG1_67 Start: 57314, Stop: 57586, Start Num: 9

Candidate Starts for PG1_67:

(Start: 9 @57314 has 136 MA's), (Start: 14 @57335 has 11 MA's), (Start: 16 @57344 has 33 MA's), (26, 57407), (31, 57434), (43, 57557),

Gene: Pacifista_67 Start: 56800, Stop: 57072, Start Num: 9

Candidate Starts for Pacifista_67:

(Start: 9 @56800 has 136 MA's), (Start: 14 @56821 has 11 MA's), (Start: 16 @56830 has 33 MA's), (26, 56893), (31, 56920), (43, 57043),

Gene: PenguinLover67_63 Start: 57825, Stop: 58076, Start Num: 14

Candidate Starts for PenguinLover67_63:

(Start: 14 @57825 has 11 MA's), (Start: 16 @57834 has 33 MA's), (27, 57894), (29, 57906), (33, 57936), (36, 57957),

Gene: Phamished_69 Start: 57004, Stop: 57306, Start Num: 8

Candidate Starts for Phamished_69:

(Start: 8 @57004 has 75 MA's), (Start: 16 @57058 has 33 MA's), (Start: 25 @57127 has 3 MA's), (32, 57169),

Gene: PhatCats2014_68 Start: 57319, Stop: 57591, Start Num: 9

Candidate Starts for PhatCats2014_68:

(Start: 9 @57319 has 136 MA's), (Start: 14 @57340 has 11 MA's), (Start: 16 @57349 has 33 MA's), (26, 57412), (31, 57439), (43, 57562),

Gene: PhatLouie_70 Start: 57338, Stop: 57610, Start Num: 9

Candidate Starts for PhatLouie_70:

(Start: 9 @57338 has 136 MA's), (Start: 14 @57359 has 11 MA's), (Start: 16 @57368 has 33 MA's), (26, 57431), (31, 57458), (43, 57581),

Gene: PhenghisKhan_68 Start: 56960, Stop: 57262, Start Num: 8

Candidate Starts for PhenghisKhan_68:

(Start: 8 @56960 has 75 MA's), (Start: 16 @57014 has 33 MA's), (Start: 25 @57083 has 3 MA's), (32, 57125),

Gene: Pherdinand_68 Start: 57073, Stop: 57375, Start Num: 8

Candidate Starts for Pherdinand_68:

(Start: 8 @57073 has 75 MA's), (Start: 16 @57127 has 33 MA's), (Start: 25 @57196 has 3 MA's), (32, 57238),

Gene: Phergie_68 Start: 56952, Stop: 57254, Start Num: 8

Candidate Starts for Phergie_68:

(Start: 8 @56952 has 75 MA's), (Start: 16 @57006 has 33 MA's), (Start: 25 @57075 has 3 MA's), (32, 57117),

Gene: Philly_67 Start: 57066, Stop: 57353, Start Num: 10

Candidate Starts for Philly_67:

(1, 56844), (2, 56862), (3, 56874), (4, 56919), (7, 57054), (Start: 10 @57066 has 25 MA's), (12, 57084), (Start: 14 @57096 has 11 MA's), (Start: 16 @57105 has 33 MA's), (18, 57114), (37, 57258), (42, 57315),

Gene: Phipps_67 Start: 56871, Stop: 57173, Start Num: 8

Candidate Starts for Phipps_67:

(Start: 8 @56871 has 75 MA's), (Start: 16 @56925 has 33 MA's), (Start: 25 @56994 has 3 MA's), (32, 57036),

Gene: Phleuron_66 Start: 56758, Stop: 57060, Start Num: 8

Candidate Starts for Phleuron_66:

(Start: 8 @56758 has 75 MA's), (Start: 16 @56812 has 33 MA's), (Start: 25 @56881 has 3 MA's), (32, 56923),

Gene: Phlyer_68 Start: 57962, Stop: 58249, Start Num: 10

Candidate Starts for Phlyer_68:

(1, 57740), (2, 57758), (3, 57770), (4, 57815), (7, 57950), (Start: 10 @57962 has 25 MA's), (12, 57980), (Start: 14 @57992 has 11 MA's), (Start: 16 @58001 has 33 MA's), (18, 58010), (37, 58154), (42, 58211),

Gene: PhrankReynolds_67 Start: 56957, Stop: 57259, Start Num: 8

Candidate Starts for PhrankReynolds_67:

(Start: 8 @56957 has 75 MA's), (Start: 16 @57011 has 33 MA's), (Start: 25 @57080 has 3 MA's), (32, 57122),

Gene: PhrodoBaggins_69 Start: 57177, Stop: 57479, Start Num: 8

Candidate Starts for PhrodoBaggins_69:

(Start: 8 @57177 has 75 MA's), (Start: 16 @57231 has 33 MA's), (Start: 25 @57300 has 3 MA's), (32, 57342),

Gene: Phunky_66 Start: 56822, Stop: 57094, Start Num: 9

Candidate Starts for Phunky_66:

(Start: 9 @56822 has 136 MA's), (Start: 14 @56843 has 11 MA's), (Start: 16 @56852 has 33 MA's), (26, 56915), (31, 56942), (43, 57065),

Gene: Piglet_0068 Start: 57291, Stop: 57563, Start Num: 9

Candidate Starts for Piglet_0068:

(Start: 9 @57291 has 136 MA's), (Start: 14 @57312 has 11 MA's), (Start: 16 @57321 has 33 MA's), (26, 57384), (31, 57411), (43, 57534),

Gene: PinheadLarry_67 Start: 57119, Stop: 57421, Start Num: 8

Candidate Starts for PinheadLarry_67:

(Start: 8 @57119 has 75 MA's), (Start: 16 @57173 has 33 MA's), (Start: 25 @57242 has 3 MA's), (32, 57284),

Gene: Pinkman_67 Start: 56895, Stop: 57197, Start Num: 8

Candidate Starts for Pinkman_67:

(Start: 8 @56895 has 75 MA's), (Start: 16 @56949 has 33 MA's), (Start: 25 @57018 has 3 MA's), (32, 57060),

Gene: Pipsqueak_65 Start: 56798, Stop: 57100, Start Num: 8

Candidate Starts for Pipsqueak_65:

(Start: 8 @56798 has 75 MA's), (Start: 16 @56852 has 33 MA's), (Start: 25 @56921 has 3 MA's), (32, 56963),

Gene: Placalicious_68 Start: 57839, Stop: 58141, Start Num: 8

Candidate Starts for Placalicious_68:

(Start: 8 @57839 has 75 MA's), (Start: 16 @57893 has 33 MA's), (Start: 25 @57962 has 3 MA's), (32, 58004),

Gene: Plmatters_66 Start: 56864, Stop: 57112, Start Num: 16

Candidate Starts for Plmatters_66:

(Start: 8 @56810 has 75 MA's), (Start: 16 @56864 has 33 MA's), (Start: 25 @56933 has 3 MA's), (32, 56975),

Gene: Podrick_67 Start: 56879, Stop: 57181, Start Num: 8

Candidate Starts for Podrick_67:

(Start: 8 @56879 has 75 MA's), (Start: 16 @56933 has 33 MA's), (Start: 25 @57002 has 3 MA's), (32, 57044),

Gene: Pops_66 Start: 56842, Stop: 57093, Start Num: 14

Candidate Starts for Pops_66:

(Start: 14 @56842 has 11 MA's), (Start: 16 @56851 has 33 MA's), (26, 56914), (31, 56941), (43, 57064),

Gene: Prickles_69 Start: 57305, Stop: 57607, Start Num: 8

Candidate Starts for Prickles_69:

(Start: 8 @57305 has 75 MA's), (Start: 16 @57359 has 33 MA's), (Start: 25 @57428 has 3 MA's), (32, 57470),

Gene: Prince_61 Start: 58088, Stop: 58405, Start Num: 9

Candidate Starts for Prince_61:

(Start: 9 @58088 has 136 MA's), (Start: 16 @58136 has 33 MA's), (Start: 25 @58187 has 3 MA's), (27, 58193), (28, 58199), (29, 58205), (30, 58208), (34, 58238), (36, 58256), (37, 58271), (39, 58286), (40, 58304),

Gene: ProfessorX_66 Start: 56815, Stop: 57087, Start Num: 9

Candidate Starts for ProfessorX_66:

(Start: 9 @56815 has 136 MA's), (Start: 14 @56836 has 11 MA's), (Start: 16 @56845 has 33 MA's), (26, 56908), (31, 56935), (43, 57058),

Gene: Puhltonio_66 Start: 57079, Stop: 57381, Start Num: 8

Candidate Starts for Puhltonio_66:

(Start: 8 @57079 has 75 MA's), (Start: 16 @57133 has 33 MA's), (Start: 25 @57202 has 3 MA's), (32, 57244),

Gene: QueenBeane_68 Start: 57139, Stop: 57390, Start Num: 14

Candidate Starts for QueenBeane_68:

(Start: 9 @57118 has 136 MA's), (Start: 14 @57139 has 11 MA's), (Start: 16 @57148 has 33 MA's), (26, 57211), (31, 57238), (43, 57361),

Gene: Quesadilla_66 Start: 58228, Stop: 58470, Start Num: 16

Candidate Starts for Quesadilla_66:

(Start: 16 @58228 has 33 MA's), (27, 58288), (29, 58300), (33, 58330), (35, 58339), (36, 58351),

Gene: Quisquilliae_69 Start: 57079, Stop: 57351, Start Num: 9

Candidate Starts for Quisquilliae_69:

(Start: 9 @57079 has 136 MA's), (Start: 14 @57100 has 11 MA's), (Start: 16 @57109 has 33 MA's), (26, 57172), (31, 57199), (43, 57322),

Gene: RagingRooster_67 Start: 56894, Stop: 57181, Start Num: 10

Candidate Starts for RagingRooster_67:

(1, 56672), (2, 56690), (3, 56702), (4, 56747), (7, 56882), (Start: 10 @56894 has 25 MA's), (12, 56912), (Start: 14 @56924 has 11 MA's), (Start: 16 @56933 has 33 MA's), (18, 56942), (37, 57086), (42, 57143),

Gene: RawrgerThat_62 Start: 58029, Stop: 58247, Start Num: 25

Candidate Starts for RawrgerThat_62:

(Start: 9 @57930 has 136 MA's), (Start: 16 @57978 has 33 MA's), (Start: 25 @58029 has 3 MA's), (27, 58035), (28, 58041), (29, 58047), (34, 58080), (36, 58098), (37, 58113), (39, 58128), (40, 58146),

Gene: Ricotta_68 Start: 56812, Stop: 57084, Start Num: 9

Candidate Starts for Ricotta_68:

(Start: 9 @56812 has 136 MA's), (Start: 14 @56833 has 11 MA's), (Start: 16 @56842 has 33 MA's), (31, 56932), (43, 57055),

Gene: Riggan_69 Start: 57111, Stop: 57383, Start Num: 9

Candidate Starts for Riggan_69:

(Start: 9 @57111 has 136 MA's), (Start: 14 @57132 has 11 MA's), (Start: 16 @57141 has 33 MA's), (26, 57204), (31, 57231), (43, 57354),

Gene: Rimu_68 Start: 57279, Stop: 57551, Start Num: 9

Candidate Starts for Rimu_68:

(Start: 9 @57279 has 136 MA's), (Start: 14 @57300 has 11 MA's), (Start: 16 @57309 has 33 MA's), (31, 57399), (43, 57522),

Gene: Rinkes_63 Start: 57811, Stop: 58074, Start Num: 16

Candidate Starts for Rinkes_63:

(Start: 16 @57811 has 33 MA's), (19, 57835), (28, 57874), (33, 57910), (45, 58039),

Gene: Rita1961_69 Start: 57612, Stop: 57899, Start Num: 10

Candidate Starts for Rita1961_69:

(1, 57390), (2, 57408), (3, 57420), (4, 57465), (7, 57600), (Start: 10 @57612 has 25 MA's), (12, 57630), (Start: 14 @57642 has 11 MA's), (Start: 16 @57651 has 33 MA's), (18, 57660), (37, 57804), (42, 57861),

Gene: Riverton_67 Start: 57041, Stop: 57313, Start Num: 9

Candidate Starts for Riverton_67:

(Start: 9 @57041 has 136 MA's), (Start: 14 @57062 has 11 MA's), (Start: 16 @57071 has 33 MA's), (26, 57134), (31, 57161), (43, 57284),

Gene: Robyn_68 Start: 57384, Stop: 57656, Start Num: 9

Candidate Starts for Robyn_68:

(Start: 9 @57384 has 136 MA's), (Start: 14 @57405 has 11 MA's), (Start: 16 @57414 has 33 MA's), (26, 57477), (31, 57504), (43, 57627),

Gene: Roliet_65 Start: 56199, Stop: 56447, Start Num: 16

Candidate Starts for Roliet_65:

(Start: 8 @56145 has 75 MA's), (Start: 16 @56199 has 33 MA's), (Start: 25 @56268 has 3 MA's), (32, 56310),

Gene: RomaT_68 Start: 57813, Stop: 58100, Start Num: 10

Candidate Starts for RomaT_68:

(1, 57591), (2, 57609), (3, 57621), (4, 57666), (7, 57801), (Start: 10 @57813 has 25 MA's), (12, 57831), (Start: 14 @57843 has 11 MA's), (Start: 16 @57852 has 33 MA's), (18, 57861), (37, 58005), (42, 58062),

Gene: Roscoe_68 Start: 57258, Stop: 57530, Start Num: 9

Candidate Starts for Roscoe_68:

(Start: 9 @57258 has 136 MA's), (Start: 14 @57279 has 11 MA's), (Start: 16 @57288 has 33 MA's), (31, 57378), (43, 57501),

Gene: Roy17_66 Start: 56511, Stop: 56783, Start Num: 9

Candidate Starts for Roy17_66:

(Start: 9 @56511 has 136 MA's), (Start: 14 @56532 has 11 MA's), (Start: 16 @56541 has 33 MA's), (26, 56604), (31, 56631), (43, 56754),

Gene: SDcharge11_67 Start: 56317, Stop: 56619, Start Num: 8

Candidate Starts for SDcharge11_67:

(Start: 8 @56317 has 75 MA's), (Start: 16 @56371 has 33 MA's), (Start: 25 @56440 has 3 MA's), (32, 56482),

Gene: Saguaro_64 Start: 57561, Stop: 57827, Start Num: 14

Candidate Starts for Saguaro_64:

(13, 57552), (Start: 14 @57561 has 11 MA's), (26, 57630), (27, 57633), (28, 57639), (29, 57645), (38, 57720),

Gene: SallyH_70 Start: 57110, Stop: 57358, Start Num: 16

Candidate Starts for SallyH_70:

(Start: 8 @57056 has 75 MA's), (Start: 16 @57110 has 33 MA's), (Start: 25 @57179 has 3 MA's), (32, 57221),

Gene: Samaymay_68 Start: 57118, Stop: 57390, Start Num: 9

Candidate Starts for Samaymay_68:

(Start: 9 @57118 has 136 MA's), (Start: 14 @57139 has 11 MA's), (Start: 16 @57148 has 33 MA's), (26, 57211), (31, 57238), (43, 57361),

Gene: SassyCat97_66 Start: 56794, Stop: 57096, Start Num: 8

Candidate Starts for SassyCat97_66:

(Start: 8 @56794 has 75 MA's), (Start: 16 @56848 has 33 MA's), (Start: 25 @56917 has 3 MA's), (32, 56959),

Gene: Schadenfreude_68 Start: 56686, Stop: 56958, Start Num: 9

Candidate Starts for Schadenfreude_68:

(Start: 9 @56686 has 136 MA's), (Start: 14 @56707 has 11 MA's), (Start: 16 @56716 has 33 MA's), (26, 56779), (31, 56806), (43, 56929),

Gene: Scoot17C_68 Start: 56745, Stop: 57017, Start Num: 9

Candidate Starts for Scoot17C_68:

(Start: 9 @56745 has 136 MA's), (Start: 14 @56766 has 11 MA's), (Start: 16 @56775 has 33 MA's), (26, 56838), (31, 56865), (43, 56988),

Gene: Selr12_69 Start: 56827, Stop: 57099, Start Num: 9

Candidate Starts for Selr12_69:

(Start: 9 @56827 has 136 MA's), (Start: 14 @56848 has 11 MA's), (Start: 16 @56857 has 33 MA's), (26, 56920), (31, 56947), (43, 57070),

Gene: Serendipity_67 Start: 57100, Stop: 57372, Start Num: 9

Candidate Starts for Serendipity_67:

(Start: 9 @57100 has 136 MA's), (Start: 14 @57121 has 11 MA's), (Start: 16 @57130 has 33 MA's), (26, 57193), (31, 57220), (43, 57343),

Gene: Serpentine_0068 Start: 57183, Stop: 57455, Start Num: 9

Candidate Starts for Serpentine_0068:

(Start: 9 @57183 has 136 MA's), (Start: 14 @57204 has 11 MA's), (Start: 16 @57213 has 33 MA's), (26, 57276), (31, 57303), (43, 57426),

Gene: ShadowBud_69 Start: 57076, Stop: 57348, Start Num: 9

Candidate Starts for ShadowBud_69:

(Start: 9 @57076 has 136 MA's), (Start: 14 @57097 has 11 MA's), (Start: 16 @57106 has 33 MA's), (26, 57169), (31, 57196), (43, 57319),

Gene: ShiVal_66 Start: 56826, Stop: 57098, Start Num: 9

Candidate Starts for ShiVal_66:

(Start: 9 @56826 has 136 MA's), (Start: 14 @56847 has 11 MA's), (Start: 16 @56856 has 33 MA's), (26, 56919), (31, 56946), (43, 57069),

Gene: Sigman_68 Start: 56782, Stop: 57054, Start Num: 9

Candidate Starts for Sigman_68:

(Start: 9 @56782 has 136 MA's), (Start: 14 @56803 has 11 MA's), (Start: 16 @56812 has 33 MA's), (26, 56875), (31, 56902), (43, 57025),

Gene: Simielle_68 Start: 56783, Stop: 57055, Start Num: 9

Candidate Starts for Simielle_68:

(Start: 9 @56783 has 136 MA's), (Start: 14 @56804 has 11 MA's), (Start: 16 @56813 has 33 MA's), (26, 56876), (31, 56903), (43, 57026),

Gene: SirBeauregard_69 Start: 57349, Stop: 57621, Start Num: 9

Candidate Starts for SirBeauregard_69:

(Start: 9 @57349 has 136 MA's), (Start: 14 @57370 has 11 MA's), (Start: 16 @57379 has 33 MA's), (26, 57442), (31, 57469), (43, 57592),

Gene: Skippy_69 Start: 57036, Stop: 57308, Start Num: 9

Candidate Starts for Skippy_69:

(Start: 9 @57036 has 136 MA's), (Start: 14 @57057 has 11 MA's), (Start: 16 @57066 has 33 MA's), (26, 57129), (31, 57156), (43, 57279),

Gene: Slatt_68 Start: 57090, Stop: 57392, Start Num: 8

Candidate Starts for Slatt_68:

(Start: 8 @57090 has 75 MA's), (Start: 16 @57144 has 33 MA's), (Start: 25 @57213 has 3 MA's), (32, 57255),

Gene: Soile_69 Start: 57332, Stop: 57604, Start Num: 9

Candidate Starts for Soile_69:

(Start: 9 @57332 has 136 MA's), (Start: 14 @57353 has 11 MA's), (Start: 16 @57362 has 33 MA's), (31, 57452), (43, 57575),

Gene: Solosis_66 Start: 56843, Stop: 57091, Start Num: 16
Candidate Starts for Solosis_66:
(Start: 8 @56789 has 75 MA's), (Start: 16 @56843 has 33 MA's), (Start: 25 @56912 has 3 MA's), (32, 56954),

Gene: Sophia_66 Start: 56836, Stop: 57084, Start Num: 16
Candidate Starts for Sophia_66:
(Start: 8 @56782 has 75 MA's), (Start: 16 @56836 has 33 MA's), (Start: 25 @56905 has 3 MA's), (32, 56947),

Gene: Soto_65 Start: 56349, Stop: 56651, Start Num: 8
Candidate Starts for Soto_65:
(Start: 8 @56349 has 75 MA's), (Start: 16 @56403 has 33 MA's), (Start: 25 @56472 has 3 MA's), (32, 56514),

Gene: Spartan300_67 Start: 57023, Stop: 57295, Start Num: 9
Candidate Starts for Spartan300_67:
(Start: 9 @57023 has 136 MA's), (Start: 14 @57044 has 11 MA's), (Start: 16 @57053 has 33 MA's), (26, 57116), (31, 57143), (43, 57266),

Gene: Squid_67 Start: 57082, Stop: 57384, Start Num: 8
Candidate Starts for Squid_67:
(Start: 8 @57082 has 75 MA's), (Start: 16 @57136 has 33 MA's), (Start: 25 @57205 has 3 MA's), (32, 57247),

Gene: Squiggle_67 Start: 56801, Stop: 57103, Start Num: 8
Candidate Starts for Squiggle_67:
(Start: 8 @56801 has 75 MA's), (Start: 16 @56855 has 33 MA's), (Start: 25 @56924 has 3 MA's), (32, 56966),

Gene: Stinger_62 Start: 56901, Stop: 57218, Start Num: 9
Candidate Starts for Stinger_62:
(Start: 9 @56901 has 136 MA's), (Start: 16 @56949 has 33 MA's), (Start: 25 @57000 has 3 MA's), (27, 57006), (29, 57018), (30, 57021), (34, 57051), (36, 57069), (39, 57099),

Gene: Suffolk_66 Start: 56596, Stop: 56868, Start Num: 9
Candidate Starts for Suffolk_66:
(Start: 9 @56596 has 136 MA's), (Start: 14 @56617 has 11 MA's), (Start: 16 @56626 has 33 MA's), (26, 56689), (31, 56716), (43, 56839),

Gene: Suigeneris_68 Start: 58477, Stop: 58761, Start Num: 11
Candidate Starts for Suigeneris_68:
(Start: 11 @58477 has 4 MA's), (Start: 14 @58504 has 11 MA's), (Start: 16 @58513 has 33 MA's), (27, 58579), (37, 58657), (41, 58711), (43, 58726), (44, 58747),

Gene: Surely_68 Start: 57426, Stop: 57674, Start Num: 16
Candidate Starts for Surely_68:
(Start: 8 @57372 has 75 MA's), (Start: 16 @57426 has 33 MA's), (Start: 25 @57495 has 3 MA's), (32, 57537),

Gene: Swiphy_70 Start: 57338, Stop: 57610, Start Num: 9
Candidate Starts for Swiphy_70:

(Start: 9 @57338 has 136 MA's), (Start: 14 @57359 has 11 MA's), (Start: 16 @57368 has 33 MA's), (26, 57431), (31, 57458), (43, 57581),

Gene: Swish_68 Start: 57058, Stop: 57360, Start Num: 8

Candidate Starts for Swish_68:

(Start: 8 @57058 has 75 MA's), (Start: 16 @57112 has 33 MA's), (Start: 25 @57181 has 3 MA's), (32, 57223),

Gene: SynergyX_68 Start: 57251, Stop: 57538, Start Num: 10

Candidate Starts for SynergyX_68:

(1, 57029), (2, 57047), (3, 57059), (4, 57104), (7, 57239), (Start: 10 @57251 has 25 MA's), (12, 57269), (Start: 14 @57281 has 11 MA's), (Start: 16 @57290 has 33 MA's), (18, 57299), (37, 57443), (42, 57500),

Gene: TallGrassMM_66 Start: 56698, Stop: 57000, Start Num: 8

Candidate Starts for TallGrassMM_66:

(Start: 8 @56698 has 75 MA's), (Start: 16 @56752 has 33 MA's), (Start: 25 @56821 has 3 MA's), (32, 56863),

Gene: Telesworld_66 Start: 56912, Stop: 57184, Start Num: 9

Candidate Starts for Telesworld_66:

(Start: 9 @56912 has 136 MA's), (Start: 14 @56933 has 11 MA's), (Start: 16 @56942 has 33 MA's), (26, 57005), (31, 57032), (43, 57155),

Gene: Thora_66 Start: 57138, Stop: 57440, Start Num: 8

Candidate Starts for Thora_66:

(Start: 8 @57138 has 75 MA's), (Start: 16 @57192 has 33 MA's), (Start: 25 @57261 has 3 MA's), (32, 57303),

Gene: ThreeOh3D2_69 Start: 57310, Stop: 57582, Start Num: 9

Candidate Starts for ThreeOh3D2_69:

(Start: 9 @57310 has 136 MA's), (Start: 14 @57331 has 11 MA's), (Start: 16 @57340 has 33 MA's), (26, 57403), (31, 57430), (43, 57553),

Gene: Thunderbird_68 Start: 57071, Stop: 57322, Start Num: 14

Candidate Starts for Thunderbird_68:

(Start: 14 @57071 has 11 MA's), (Start: 16 @57080 has 33 MA's), (26, 57143), (31, 57170), (43, 57293),

Gene: Timmi_67 Start: 56794, Stop: 57066, Start Num: 9

Candidate Starts for Timmi_67:

(Start: 9 @56794 has 136 MA's), (Start: 14 @56815 has 11 MA's), (Start: 16 @56824 has 33 MA's), (26, 56887), (31, 56914), (43, 57037),

Gene: TinyTerror_69 Start: 57673, Stop: 57960, Start Num: 10

Candidate Starts for TinyTerror_69:

(1, 57451), (2, 57469), (3, 57481), (4, 57526), (7, 57661), (Start: 10 @57673 has 25 MA's), (12, 57691), (Start: 14 @57703 has 11 MA's), (Start: 16 @57712 has 33 MA's), (18, 57721), (37, 57865), (42, 57922),

Gene: TomBombadil_68 Start: 57410, Stop: 57658, Start Num: 16

Candidate Starts for TomBombadil_68:

(Start: 8 @57356 has 75 MA's), (Start: 16 @57410 has 33 MA's), (Start: 25 @57479 has 3 MA's), (32, 57521),

Gene: Tomlarah_69 Start: 57647, Stop: 57919, Start Num: 9

Candidate Starts for Tomlarah_69:

(Start: 9 @57647 has 136 MA's), (Start: 14 @57668 has 11 MA's), (Start: 16 @57677 has 33 MA's), (26, 57740), (31, 57767), (43, 57890),

Gene: Toni_68 Start: 57239, Stop: 57511, Start Num: 9

Candidate Starts for Toni_68:

(Start: 9 @57239 has 136 MA's), (Start: 14 @57260 has 11 MA's), (Start: 16 @57269 has 33 MA's), (26, 57332), (31, 57359), (43, 57482),

Gene: Tooj_66 Start: 56464, Stop: 56736, Start Num: 9

Candidate Starts for Tooj_66:

(Start: 9 @56464 has 136 MA's), (Start: 14 @56485 has 11 MA's), (Start: 16 @56494 has 33 MA's), (26, 56557), (31, 56584), (43, 56707),

Gene: True_66 Start: 56803, Stop: 57075, Start Num: 9

Candidate Starts for True_66:

(Start: 9 @56803 has 136 MA's), (Start: 14 @56824 has 11 MA's), (Start: 16 @56833 has 33 MA's), (26, 56896), (31, 56923), (43, 57046),

Gene: Trypo_69 Start: 57523, Stop: 57825, Start Num: 8

Candidate Starts for Trypo_69:

(Start: 8 @57523 has 75 MA's), (Start: 16 @57577 has 33 MA's), (Start: 25 @57646 has 3 MA's), (32, 57688),

Gene: TyrionL_68 Start: 56891, Stop: 57193, Start Num: 8

Candidate Starts for TyrionL_68:

(Start: 8 @56891 has 75 MA's), (Start: 16 @56945 has 33 MA's), (Start: 25 @57014 has 3 MA's), (32, 57056),

Gene: UncleHowie_65 Start: 56493, Stop: 56795, Start Num: 8

Candidate Starts for UncleHowie_65:

(Start: 8 @56493 has 75 MA's), (Start: 16 @56547 has 33 MA's), (Start: 25 @56616 has 3 MA's), (32, 56658),

Gene: Vaishali24_68 Start: 57154, Stop: 57405, Start Num: 14

Candidate Starts for Vaishali24_68:

(Start: 9 @57133 has 136 MA's), (Start: 14 @57154 has 11 MA's), (Start: 16 @57163 has 33 MA's), (26, 57226), (31, 57253), (36, 57292), (43, 57376),

Gene: Valjean_67 Start: 57033, Stop: 57305, Start Num: 9

Candidate Starts for Valjean_67:

(Start: 9 @57033 has 136 MA's), (Start: 14 @57054 has 11 MA's), (Start: 16 @57063 has 33 MA's), (26, 57126), (31, 57153), (43, 57276),

Gene: Vaticameos_65 Start: 55337, Stop: 55609, Start Num: 9

Candidate Starts for Vaticameos_65:

(Start: 9 @55337 has 136 MA's), (Start: 14 @55358 has 11 MA's), (Start: 16 @55367 has 33 MA's), (26, 55430), (31, 55457), (43, 55580),

Gene: Veritas_67 Start: 57024, Stop: 57272, Start Num: 16

Candidate Starts for Veritas_67:

(Start: 8 @56970 has 75 MA's), (Start: 16 @57024 has 33 MA's), (Start: 25 @57093 has 3 MA's), (32, 57135),

Gene: Vincenzo_64 Start: 59168, Stop: 59425, Start Num: 16

Candidate Starts for Vincenzo_64:

(Start: 16 @59168 has 33 MA's), (Start: 25 @59219 has 3 MA's), (27, 59225), (29, 59237), (33, 59267), (34, 59270), (38, 59309), (39, 59318), (43, 59372),

Gene: VioletZ_63 Start: 58094, Stop: 58360, Start Num: 16

Candidate Starts for VioletZ_63:

(Start: 16 @58094 has 33 MA's), (Start: 25 @58145 has 3 MA's), (27, 58151), (28, 58157), (29, 58163), (30, 58166), (34, 58196), (36, 58214), (37, 58229), (39, 58244), (40, 58262),

Gene: Virapocalypse_69 Start: 57132, Stop: 57404, Start Num: 9

Candidate Starts for Virapocalypse_69:

(Start: 9 @57132 has 136 MA's), (Start: 14 @57153 has 11 MA's), (Start: 16 @57162 has 33 MA's), (26, 57225), (31, 57252), (43, 57375),

Gene: Vista_66 Start: 56794, Stop: 57096, Start Num: 8

Candidate Starts for Vista_66:

(Start: 8 @56794 has 75 MA's), (Start: 16 @56848 has 33 MA's), (Start: 25 @56917 has 3 MA's), (32, 56959),

Gene: Vivaldi_68 Start: 57255, Stop: 57557, Start Num: 8

Candidate Starts for Vivaldi_68:

(Start: 8 @57255 has 75 MA's), (Start: 16 @57309 has 33 MA's), (Start: 25 @57378 has 3 MA's), (32, 57420),

Gene: Vortex_67 Start: 57078, Stop: 57380, Start Num: 8

Candidate Starts for Vortex_67:

(Start: 8 @57078 has 75 MA's), (Start: 16 @57132 has 33 MA's), (Start: 25 @57201 has 3 MA's), (32, 57243),

Gene: Waleliano_61 Start: 58034, Stop: 58300, Start Num: 16

Candidate Starts for Waleliano_61:

(Start: 16 @58034 has 33 MA's), (Start: 25 @58085 has 3 MA's), (27, 58091), (28, 58097), (29, 58103), (30, 58106), (34, 58136), (36, 58154), (37, 58169), (39, 58184), (40, 58202),

Gene: Wallhey_68 Start: 56955, Stop: 57203, Start Num: 16

Candidate Starts for Wallhey_68:

(Start: 8 @56901 has 75 MA's), (Start: 16 @56955 has 33 MA's), (Start: 25 @57024 has 3 MA's), (32, 57066),

Gene: Waterdiva_68 Start: 57166, Stop: 57438, Start Num: 9

Candidate Starts for Waterdiva_68:

(Start: 9 @57166 has 136 MA's), (Start: 14 @57187 has 11 MA's), (Start: 16 @57196 has 33 MA's), (26, 57259), (31, 57286), (43, 57409),

Gene: Weher20_65 Start: 57467, Stop: 57715, Start Num: 16

Candidate Starts for Weher20_65:

(6, 57404), (Start: 16 @57467 has 33 MA's), (Start: 25 @57536 has 3 MA's), (32, 57578),

Gene: Windsor_68 Start: 57353, Stop: 57625, Start Num: 9

Candidate Starts for Windsor_68:

(Start: 9 @57353 has 136 MA's), (Start: 14 @57374 has 11 MA's), (Start: 16 @57383 has 33 MA's), (26, 57446), (31, 57473), (43, 57596),

Gene: Xavier_67 Start: 56794, Stop: 57066, Start Num: 9

Candidate Starts for Xavier_67:

(Start: 9 @56794 has 136 MA's), (Start: 14 @56815 has 11 MA's), (Start: 16 @56824 has 33 MA's), (26, 56887), (31, 56914), (43, 57037),

Gene: Yinz_68 Start: 57121, Stop: 57408, Start Num: 10

Candidate Starts for Yinz_68:

(1, 56899), (2, 56917), (3, 56929), (4, 56974), (7, 57109), (Start: 10 @57121 has 25 MA's), (12, 57139), (Start: 14 @57151 has 11 MA's), (Start: 16 @57160 has 33 MA's), (18, 57169), (37, 57313), (42, 57370),

Gene: Yoshand_68 Start: 57071, Stop: 57373, Start Num: 8

Candidate Starts for Yoshand_68:

(Start: 8 @57071 has 75 MA's), (Start: 16 @57125 has 33 MA's), (Start: 25 @57194 has 3 MA's), (32, 57236),

Gene: YouGoGlencoco_68 Start: 57137, Stop: 57385, Start Num: 16

Candidate Starts for YouGoGlencoco_68:

(Start: 8 @57083 has 75 MA's), (Start: 16 @57137 has 33 MA's), (Start: 25 @57206 has 3 MA's), (32, 57248),

Gene: Zelda_68 Start: 57477, Stop: 57725, Start Num: 16

Candidate Starts for Zelda_68:

(Start: 8 @57423 has 75 MA's), (Start: 16 @57477 has 33 MA's), (Start: 25 @57546 has 3 MA's), (32, 57588),

Gene: Zemanar_62 Start: 57920, Stop: 58138, Start Num: 25

Candidate Starts for Zemanar_62:

(Start: 16 @57869 has 33 MA's), (Start: 25 @57920 has 3 MA's), (27, 57926), (28, 57932), (29, 57938), (30, 57941), (34, 57971), (36, 57989), (37, 58004), (39, 58019), (40, 58037),

Gene: Zonia_68 Start: 57352, Stop: 57654, Start Num: 8

Candidate Starts for Zonia_68:

(Start: 8 @57352 has 75 MA's), (Start: 16 @57406 has 33 MA's), (Start: 25 @57475 has 3 MA's), (32, 57517),