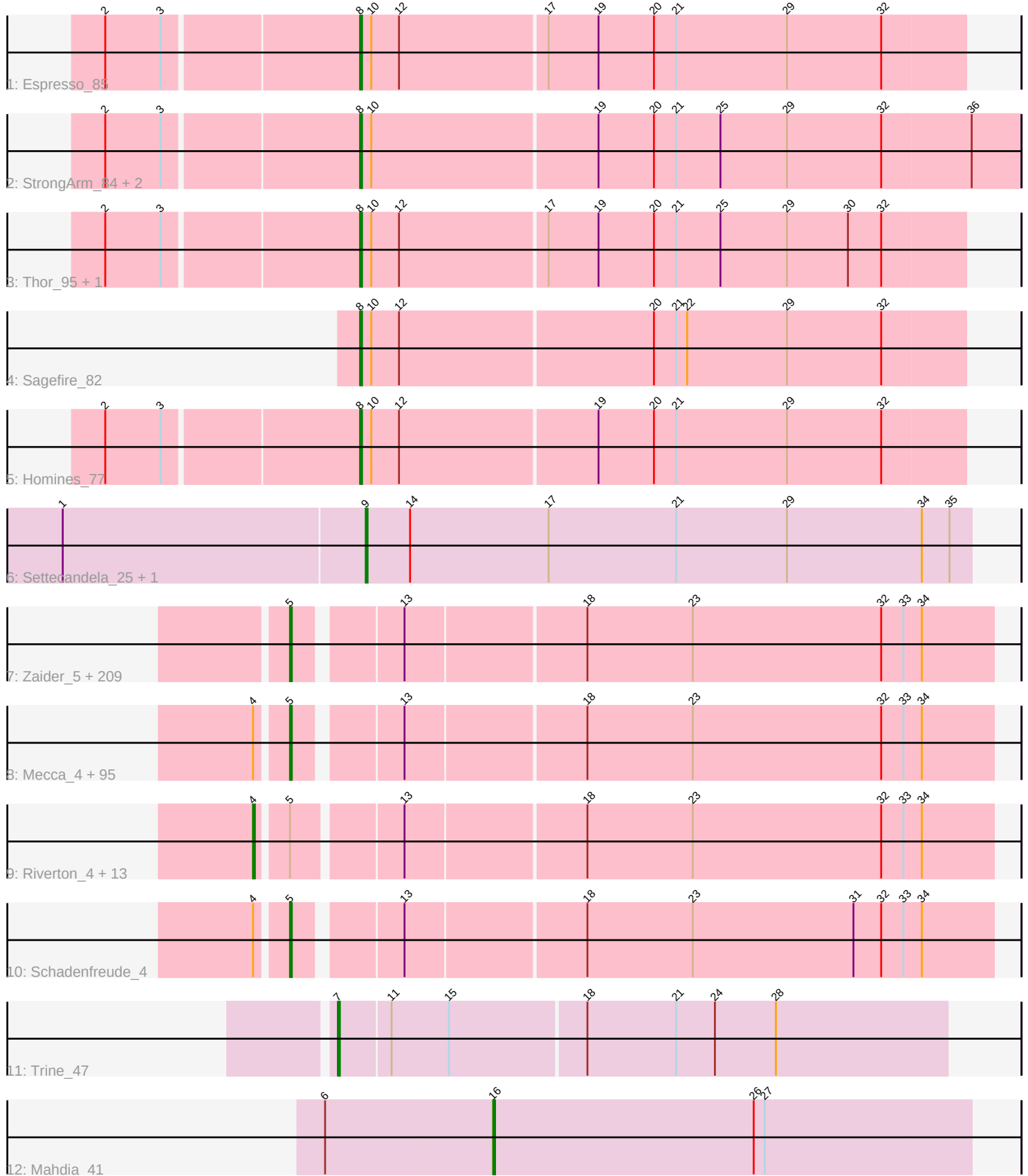


Pham 330381



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 330381 Report

This analysis was run 09/05/26 on database version 662.

Pham number 330381 has 333 members, 25 are drafts.

Phages represented in each track:

- Track 1 : Espresso_85
- Track 2 : StrongArm_84, Beatrix_85, Bexan_83
- Track 3 : Thor_95, SarFire_95
- Track 4 : Sagefire_82
- Track 5 : Homines_77
- Track 6 : Settecandela_25, Phrappuccino_25
- Track 7 : Zaider_5, LasagnaCat_4, Jillium_4, KlimbOn_4, PinheadLarry_4, SilverBell_4, Olive_4, Virgeve_4, Plata_4, Daffy_4, Jiminy_4, Inchworm_4, Soto_4, Jbug01_4, Vista_4, Andre_4, Soile_4, Placalicious_4, Boehler_4, Doddsville_4, Brilliant_4, ABU_4, Megamind20_5, Hamish_4, Morty_4, KingTut_4, Iridessa_4, Melc17_4, Lulumae_4, Cornbread_4, Chute_4, OneBrain_4, HenryJackson_4, Chorkpop_4, JacAttac_4, Hetaeria_4, Antonia_4, Hertubise_4, Durga_4, BatteryCK_4, Chaelin_4, CheetO_4, BlacksBerry_4, Weher20_4, MitKao_4, Bluephacebaby_4, Gareth_4, Hekos_4, Xavier_4, Childish_4, Swish_4, Badfish_4, Coletti_4, Eugenia_4, Chuni_4, FleetyMac_4, Skippy_4, IsaacEli_4, HogWash_4, Phamished_4, LemonSlice_4, EmpTee_4, Oline_4, TallGrassMM_4, Duggie_4, ImtiyazSitla_4, Mag7_4, Prickles_4, Legolas_4, Larson_5, Roy17_4, Burr_4, MelsMeow_4, Buckeye_4, Magic8_4, Mosaic_4, Windsor_4, OliverWalter_4, Colbert_4, Held_4, DoesntMatter_4, Nova1_4, Mutante_4, Veritas_4, Adriana_4, CampRoach_4, Toni_4, UncleHowie_4, ElvisPhasley_4, Salazzle_4, Dingo_4, Scoot17C_4, Dati_4, DonSancho_4, Ricotta_4, MichaelPhcott_4, Flake_4, EmGer13_4, JakeO_4, Giraffe_4, UAch1_4, PhrodoBaggins_4, Manad_4, Murdoc_4, Taraxa_4, Waterdiva_4, Vectra_4, Vaticameos_4, LeiMonet_4, Ashraf_4, Pinkman_4, PallasAthena_4, SirBeauregard_4, PhrankReynolds_4, AngelCake_4, Phareon_4, Pacifista_4, Maskar_4, DelRivs_4, Kailash_4, TyrionL_4, MrPhizzler_4, Trypo_4, Katniss_4, FugateOSU_4, Matalotodo_4, Solosis_4, Charles1_4, Orwigg_4, PhenghisKhan_4, Daka_4, JDog_4, Usavi_4, Anderson_4, Serendipity_4, Etaye_4, Cher_4, PhatLouie_4, Craff_4, Karn_4, Schueller_4, Potter_4, Olak_4, Fang_4, Sigman_4, Kwadwo_4, Swiphy_4, Mikota_4, Kwksand96_4, Banjo_4, Bishoperium_4, Zonia_4, LeeLot_4, Sophia_4, AbsoluteMadLad_4, Kahve_4, Zelda_4, GeneCoco_4, PhatCats2014_4, Wallhey_4, Happabalu_4, LostAndPhound_4, Haimas_4, Surely_4, Labeoufcaum_4, True_4, Timmi_4, Jesabah_4, Jiraiya_4, Gwennie1_4, CharlieGBrown_4, DuchessDung_4, Phleuron_4, Kikipoo_4, Oosterbaan_4, Mesh1_4, Telesworld_4, Kiwot_4, HighStump_4, Emiris_4, Nyala_4, Megatron_4, Spartan300_4, Nehme_4, Vortex_4, Cannibal_4, Phergie_4, Thunderbird_4, Orfeu_4, Squiggle_4, Aelin_4, Caspiroi_4, DaddyDaniels_4, Mana_4, Gophee_4, DirtJuice_4, Hocus_4, Khan1_4, FremontTroll_5, Rimu_4, Derpp_4, TomBombadil_4, Newman_4,

Valjean_4, Hartsy_4, Aleia_4, Thora_4, Mulan_4, Longacauda_4, BlueHusk_4
 • Track 8 : Mecca_4, Nicole21_4, Struggle_4, Eremos_4, ShadowBud_4, Aonishiki_4, Fozzie_4, Phunky_4, Chipette_5, MRabcd_4, Roscoe_5, Cobra_4, Gyarad_004, FluffyNinja_4, YouGoGlencoco_4, Plmatters_4, Lasso_4, Selr12_4, Yoshand_4, CamL_4, Robyn_4, Kloppinator_4, AltPhacts_4, Carthage_4, Harvey_4, Maru_4, Inverness_4, Chunky_4, Nathan_4, Puhltonio_4, ThreeOh3D2_4, Dice_4, Dione_4, Omniscient_4, Lopsy_4, Pherdinand_4, KLUcky39_4, Sheila_4, QueenBeane_4, SDcharge11_4, Crownjwl_5, Fringe_4, Chah_4, Podrick_4, Quisquilliae_4, Gwilliam_4, Virapocalypse_4, Apizium_4, Phipps_4, ProfessorX_4, Suffolk_4, Mesmerelda_4, Lulwa_4, Basato_5, ShiVal_4, SassyCat97_4, HSavage_4, MiniBoss_4, BoogieWoogie_4, Cosmolli16_4, JangoPhett_4, Scrick_4, Tooj_4, Tomlarah_4, Grand2040_4, Morgushi_4, Cornobble_4, Freya_4, Samaymay_4, Squid_4, Triad_4, RedMaple_4, Haleema_4, Frankicide_4, Beaglebox_4, Kimbrough_4, Vivaldi_4, OSmaximus_4, Mcshane_4, Lumine_4, Numberten_4, FriarPreacher_4, Lego3393_4, PG1_4, Keitherie_4, Orion_4, RedRaider89_5, Slatt_4, Altwerkus_4, Iridoclysis_4, LuckyMarjie_4, Pipsqueak_4, Horchata_4, Simielle_4, Roliet_4, KingVeVeVe_4
 • Track 9 : Riverton_4, Pops_4, NiaNia_4, DoOn_6, Serpentine_004, Riggan_4, BlackStallion_4, GreenChile_5, Piglet_004, Nacho_004, Vaishali24_4, TooFast2Furius_5, Lehmann_5, SallyH_5
 • Track 10 : Schadenfreude_4
 • Track 11 : Trine_47
 • Track 12 : Mahdia_41

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

The start number called the most often in the published annotations is 5, it was called in 287 of the 308 non-draft genes in the pham.

Genes that call this "Most Annotated" start:

• ABU_4, AbsoluteMadLad_4, Adriana_4, Aelin_4, Aleia_4, AltPhacts_4, Altwerkus_4, Anderson_4, Andre_4, AngelCake_4, Antonia_4, Aonishiki_4, Apizium_4, Ashraf_4, Badfish_4, Banjo_4, Basato_5, BatteryCK_4, Beaglebox_4, Bishoperium_4, BlacksBerry_4, BlueHusk_4, Bluephacebaby_4, Boehler_4, BoogieWoogie_4, Brilliant_4, Buckeye_4, Burr_4, CamL_4, CampRoach_4, Cannibal_4, Carthage_4, Caspiboi_4, Chaelin_4, Chah_4, Charles1_4, CharlieGBrown_4, CheetO_4, Cher_4, Childish_4, Chipette_5, Chorkpop_4, Chuni_4, Chunky_4, Chute_4, Cobra_4, Colbert_4, Coletti_4, Cornbread_4, Cornobble_4, Cosmolli16_4, Craff_4, Crownjwl_5, DaddyDaniels_4, Daffy_4, Daka_4, Dati_4, DelRivs_4, Derpp_4, Dice_4, Dingo_4, Dione_4, DirtJuice_4, Doddsville_4, DoesntMatter_4, DonSancho_4, DuchessDung_4, Duggie_4, Durga_4, ElvisPhasley_4, EmGer13_4, Emiris_4, EmpTee_4, Eremos_4, Etaye_4, Eugenia_4, Fang_4, Flake_4, FleetyMac_4, FluffyNinja_4, Fozzie_4, Frankicide_4, FremontTroll_5, Freya_4, FriarPreacher_4, Fringe_4, FugateOSU_4, Gareth_4, GeneCoco_4, Giraffe_4, Gophee_4, Grand2040_4, Gwennie1_4, Gwilliam_4, Gyarad_004, HSavage_4, Haimas_4, Haleema_4, Hamish_4, Happabalu_4, Hartsy_4, Harvey_4, Hekos_4, Held_4, HenryJackson_4, Hertubise_4, Hetaeria_4, HighStump_4, Hocus_4, HogWash_4, Horchata_4, ImtiyazSitla_4, Inchworm_4, Inverness_4, Iridessa_4, Iridoclysis_4, IsaacEli_4, JDog_4, JacAttac_4, JakeO_4, JangoPhett_4, Jbug01_4, Jesabah_4, Jillium_4, Jiminy_4, Jiraiya_4, KLUcky39_4, Kahve_4, Kailash_4, Karn_4, Katniss_4,

Keitherie_4, Khan1_4, Kikipoo_4, Kimbrough_4, KingTut_4, KingVeVeVe_4, Kiwot_4, KlimbOn_4, Kloppinator_4, Kwadwo_4, Kwksand96_4, Labeouficaum_4, Larson_5, LasagnaCat_4, Lasso_4, LeeLot_4, Lego3393_4, Legolas_4, LeiMonet_4, LemonSlice_4, Longacauda_4, Lopsy_4, LostAndPhound_4, LuckyMarjie_4, Lulumae_4, Lulwa_4, Lumine_4, MRabcd_4, Mag7_4, Magic8_4, Mana_4, Manad_4, Maru_4, Maskar_4, Matalotodo_4, Mcshane_4, Mecca_4, Megamind20_5, Megatron_4, Melc17_4, MelsMeow_4, Mesh1_4, Mesmerelda_4, MichaelPhcott_4, Mikota_4, MiniBoss_4, MitKao_4, Morgushi_4, Morty_4, Mosaic_4, MrPhizzler_4, Mulan_4, Murdoc_4, Mutante_4, Nathan_4, Nehme_4, Newman_4, Nicole21_4, Nova1_4, Numberbert_4, Nyala_4, OSmaximus_4, Olak_4, Oline_4, Olive_4, OliverWalter_4, Omniscient_4, OneBrain_4, Oosterbaan_4, Orfeu_4, Orion_4, Orwigg_4, PG1_4, Pacifista_4, PallasAthena_4, Phamished_4, Phareon_4, PhatCats2014_4, PhatLouie_4, PhenghisKhan_4, Pherdinand_4, Phergie_4, Phipps_4, Phleuron_4, PhrankReynolds_4, PhrodoBaggins_4, Phunky_4, PinheadLarry_4, Pinkman_4, Pipsqueak_4, Placalicious_4, Plata_4, Plmatters_4, Podrick_4, Potter_4, Prickles_4, ProfessorX_4, Puhltonio_4, QueenBeane_4, Quisquillae_4, RedMaple_4, RedRaider89_5, Ricotta_4, Rimu_4, Robyn_4, Roliet_4, Roscoe_5, Roy17_4, SDcharge11_4, Salazzele_4, Samaymay_4, SassyCat97_4, Schadenfreude_4, Schueller_4, Scoot17C_4, Scrick_4, Selr12_4, Serendipity_4, ShadowBud_4, Sheila_4, ShiVal_4, Sigman_4, SilverBell_4, Simielle_4, SirBeauregard_4, Skippy_4, Slatt_4, Soile_4, Solosis_4, Sophia_4, Soto_4, Spartan300_4, Squid_4, Squiggle_4, Struggle_4, Suffolk_4, Surely_4, Swiphy_4, Swish_4, TallGrassMM_4, Taraxa_4, Telesworld_4, Thora_4, ThreeOh3D2_4, Thunderbird_4, Timmi_4, TomBombadil_4, Tomlarah_4, Toni_4, Tooj_4, Triad_4, True_4, Trypo_4, TyrionL_4, UAch1_4, UncleHowie_4, Usavi_4, Valjean_4, Vaticameos_4, Vectra_4, Veritas_4, Virapocalypse_4, Virgeve_4, Vista_4, Vivaldi_4, Vortex_4, Wallhey_4, Waterdiva_4, Weher20_4, Windsor_4, Xavier_4, Yoshand_4, YouGoGlencoco_4, Zaider_5, Zelda_4, Zonia_4,

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

- BlackStallion_4, DolOn_6, GreenChile_5, Lehmann_5, Nacho_004, NiaNia_4, Piglet_004, Pops_4, Riggan_4, Riverton_4, SallyH_5, Serpentine_004, TooFast2Furius_5, Vaishali24_4,

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

- Beatrix_85, Bexan_83, Espresso_85, Homines_77, Mahdia_41, Phrappuccino_25, Sagefire_82, SarFire_95, Settecandela_25, StrongArm_84, Thor_95, Trine_47,

Summary by start number:

Start 4:

- Found in 111 of 333 (33.3%) of genes in pham
- Manual Annotations of this start: 9 of 308
- Called 12.6% of time when present
- Phage (with cluster) where this start called: BlackStallion_4 (B1), DolOn_6 (B1), GreenChile_5 (B1), Lehmann_5 (B1), Nacho_004 (B1), NiaNia_4 (B1), Piglet_004 (B1), Pops_4 (B1), Riggan_4 (B1), Riverton_4 (B1), SallyH_5 (B1), Serpentine_004 (B1), TooFast2Furius_5 (B1), Vaishali24_4 (B1),

Start 5:

- Found in 321 of 333 (96.4%) of genes in pham
- Manual Annotations of this start: 287 of 308
- Called 95.6% of time when present

• Phage (with cluster) where this start called: ABU_4 (B1), AbsoluteMadLad_4 (B1), Adriana_4 (B1), Aelin_4 (B1), Aleia_4 (B1), AltPhacts_4 (B1), Altwerkus_4 (B1), Anderson_4 (B1), Andre_4 (B1), AngelCake_4 (B1), Antonia_4 (B1), Aonishiki_4 (B1), Apizium_4 (B1), Ashraf_4 (B1), Badfish_4 (B1), Banjo_4 (B1), Basato_5 (B1), BatteryCK_4 (B1), Beaglebox_4 (B1), Bishoperium_4 (B1), BlackBerry_4 (B1), BlueHusk_4 (B1), Bluephacebaby_4 (B1), Boehler_4 (B1), BoogieWoogie_4 (B1), Brilliant_4 (B1), Buckeye_4 (B1), Burr_4 (B1), CamL_4 (B1), CampRoach_4 (B1), Cannibal_4 (B1), Carthage_4 (B1), Caspiroi_4 (B1), Chaelin_4 (B1), Chah_4 (B1), Charles1_4 (B1), CharlieGBrown_4 (B1), CheetO_4 (B1), Cher_4 (B1), Childish_4 (B1), Chipette_5 (B1), Chorkpop_4 (B1), Chuni_4 (B1), Chunky_4 (B1), Chute_4 (B1), Cobra_4 (B1), Colbert_4 (B1), Coletti_4 (B1), Cornbread_4 (B1), Cornobble_4 (B1), Cosmoli16_4 (B1), Craff_4 (B1), Crownjwl_5 (B1), DaddyDaniels_4 (B1), Daffy_4 (B1), Daka_4 (B1), Dati_4 (B1), DelRivs_4 (B1), Derpp_4 (B1), Dice_4 (B1), Dingo_4 (B1), Dione_4 (B1), DirtJuice_4 (B1), Doddsville_4 (B1), DoesntMatter_4 (B1), DonSancho_4 (B1), DuchessDung_4 (B1), Duggie_4 (B1), Durga_4 (B1), ElvisPhasley_4 (B1), EmGer13_4 (B1), Emiris_4 (B1), EmpTee_4 (B1), Eremos_4 (B1), Etaye_4 (B1), Eugenia_4 (B1), Fang_4 (B1), Flake_4 (B1), FleetyMac_4 (B1), FluffyNinja_4 (B1), Fozzie_4 (B1), Frankicide_4 (B1), FremontTroll_5 (B1), Freya_4 (B1), FriarPreacher_4 (B1), Fringe_4 (B1), FugateOSU_4 (B1), Gareth_4 (B1), GeneCoco_4 (B1), Giraffe_4 (B1), Gophee_4 (B1), Grand2040_4 (B1), Gwennie1_4 (B1), Gwilliam_4 (B1), Gyarad_004 (B1), HSavage_4 (B1), Haimas_4 (B1), Haleema_4 (B1), Hamish_4 (B1), Happabalu_4 (B1), Hartsy_4 (B1), Harvey_4 (B1), Hekos_4 (B1), Held_4 (B1), HenryJackson_4 (B1), Hertubise_4 (B1), Hetaeria_4 (B1), HighStump_4 (B1), Hocus_4 (B1), HogWash_4 (B1), Horchata_4 (B1), ImtiyazSitla_4 (B1), Inchworm_4 (B1), Inverness_4 (B1), Iridessa_4 (B1), Iridoclysis_4 (B1), IsaacEli_4 (B1), JDog_4 (B1), JacAttac_4 (B1), JakeO_4 (B1), JangoPhett_4 (B1), Jbug01_4 (B1), Jesabah_4 (B1), Jillium_4 (B1), Jiminy_4 (B1), Jiraiya_4 (B1), KLucky39_4 (B1), Kahve_4 (B1), Kailash_4 (B1), Karn_4 (B1), Katniss_4 (B1), Keitherie_4 (B1), Khan1_4 (B1), Kikipoo_4 (B1), Kimbrough_4 (B1), KingTut_4 (B1), KingVeVeVe_4 (B1), Kiwot_4 (B1), KlimbOn_4 (B1), Kloppinator_4 (B1), Kwadwo_4 (B1), Kwksand96_4 (B1), Labeoufcaum_4 (B1), Larson_5 (B1), LasagnaCat_4 (B1), Lasso_4 (B1), LeeLot_4 (B1), Lego3393_4 (B1), Legolas_4 (B1), LeiMonet_4 (B1), LemonSlice_4 (B1), Longacauda_4 (B1), Lopsy_4 (B1), LostAndPhound_4 (B1), LuckyMarjie_4 (B1), Lulumae_4 (B1), Lulwa_4 (B1), Lumine_4 (B1), MRabcd_4 (B1), Mag7_4 (B1), Magic8_4 (B1), Mana_4 (B1), Manad_4 (B1), Maru_4 (B1), Maskar_4 (B1), Matalotodo_4 (B1), Mcshane_4 (B1), Mecca_4 (B1), Megamind20_5 (B1), Megatron_4 (B1), Melc17_4 (B1), MelMeow_4 (B1), Mesh1_4 (B1), Mesmerelda_4 (B1), MichaelPhcott_4 (B1), Mikota_4 (B1), MiniBoss_4 (B1), MitKao_4 (B1), Morgushi_4 (B1), Morty_4 (B1), Mosaic_4 (B1), MrPhizzler_4 (B1), Mulan_4 (B1), Murdoc_4 (B1), Mutante_4 (B1), Nathan_4 (B1), Nehme_4 (B1), Newman_4 (B1), Nicole21_4 (B1), Nova1_4 (B1), Numberben_4 (B1), Nyala_4 (B1), OSmaximus_4 (B1), Olak_4 (B1), Oline_4 (B1), Olive_4 (B1), OliverWalter_4 (B1), Omniscient_4 (B1), OneBrain_4 (B1), Oosterbaan_4 (B1), Orfeu_4 (B1), Orion_4 (B1), Orwigg_4 (B1), PG1_4 (B1), Pacifista_4 (B1), PallasAthena_4 (B1), Phamished_4 (B1), Phareon_4 (B1), PhatCats2014_4 (B1), PhatLouie_4 (B1), PhenghisKhan_4 (B1), Pherdinand_4 (B1), Phergie_4 (B1), Phipps_4 (B1), Phleuron_4 (B1), PhrankReynolds_4 (B1), PhrodoBaggins_4 (B1), Phunky_4 (B1), PinheadLarry_4 (B1), Pinkman_4 (B1), Pipsqueak_4 (B1), Placalicious_4 (B1), Plata_4 (B1), Plmatters_4 (B1), Podrick_4 (B1), Potter_4 (B1), Prickles_4 (B1), ProfessorX_4 (B1), Puhltonio_4 (B1), QueenBeane_4 (B1), Quisquillae_4 (B1), RedMaple_4 (B1), RedRaider89_5 (B1), Ricotta_4 (B1), Rimu_4 (B1), Robyn_4 (B1), Roliet_4 (B1), Roscoe_5 (B1), Roy17_4 (B1), SDcharge11_4 (B1), Salazzle_4 (B1), Samaymay_4 (B1), SassyCat97_4 (B1), Schadenfreude_4

(B1), Schueller_4 (B1), Scoot17C_4 (B1), Scrick_4 (B1), Selr12_4 (B1), Serendipity_4 (B1), ShadowBud_4 (B1), Sheila_4 (B1), ShiVal_4 (B1), Sigman_4 (B1), SilverBell_4 (B1), Simielle_4 (B1), SirBeauregard_4 (B1), Skippy_4 (B1), Slatt_4 (B1), Soile_4 (B1), Solosis_4 (B1), Sophia_4 (B1), Soto_4 (B1), Spartan300_4 (B1), Squid_4 (B1), Squiggle_4 (B1), Struggle_4 (B1), Suffolk_4 (B1), Surely_4 (B1), Swiphy_4 (B1), Swish_4 (B1), TallGrassMM_4 (B1), Taraxa_4 (B1), Telesworld_4 (B1), Thora_4 (B1), ThreeOh3D2_4 (B1), Thunderbird_4 (B1), Timmi_4 (B1), TomBombadil_4 (B1), Tomlarah_4 (B1), Toni_4 (B1), Tooj_4 (B1), Triad_4 (B1), True_4 (B1), Trypo_4 (B1), TyrionL_4 (B1), UAch1_4 (B1), UncleHowie_4 (B1), Usavi_4 (B1), Valjean_4 (B1), Vaticameos_4 (B1), Vectra_4 (B1), Veritas_4 (B1), Virapocalypse_4 (B1), Virgeve_4 (B1), Vista_4 (B1), Vivaldi_4 (B1), Vortex_4 (B1), Wallhey_4 (B1), Waterdiva_4 (B1), Weher20_4 (B1), Windsor_4 (B1), Xavier_4 (B1), Yoshand_4 (B1), YouGoGlencoco_4 (B1), Zaider_5 (B1), Zelda_4 (B1), Zonia_4 (B1),

Start 7:

- Found in 1 of 333 (0.3%) of genes in pham
- Manual Annotations of this start: 1 of 308
- Called 100.0% of time when present
- Phage (with cluster) where this start called: Trine_47 (CD),

Start 8:

- Found in 8 of 333 (2.4%) of genes in pham
- Manual Annotations of this start: 8 of 308
- Called 100.0% of time when present
- Phage (with cluster) where this start called: Beatrix_85 (A1), Bexan_83 (A1), Espresso_85 (A1), Homines_77 (A1), Sagefire_82 (A1), SarFire_95 (A1), StrongArm_84 (A1), Thor_95 (A1),

Start 9:

- Found in 2 of 333 (0.6%) of genes in pham
- Manual Annotations of this start: 2 of 308
- Called 100.0% of time when present
- Phage (with cluster) where this start called: Phrappuccino_25 (AA), Settecandela_25 (AA),

Start 16:

- Found in 1 of 333 (0.3%) of genes in pham
- Manual Annotations of this start: 1 of 308
- Called 100.0% of time when present
- Phage (with cluster) where this start called: Mahdia_41 (CD),

Summary by clusters:

There are 4 clusters represented in this pham: A1, AA, B1, CD,

Info for manual annotations of cluster A1:

- Start number 8 was manually annotated 8 times for cluster A1.

Info for manual annotations of cluster AA:

- Start number 9 was manually annotated 2 times for cluster AA.

Info for manual annotations of cluster B1:

- Start number 4 was manually annotated 9 times for cluster B1.

- Start number 5 was manually annotated 287 times for cluster B1.

Info for manual annotations of cluster CD:

- Start number 7 was manually annotated 1 time for cluster CD.
- Start number 16 was manually annotated 1 time for cluster CD.

Gene Information:

Gene: ABU_4 Start: 2648, Stop: 3010, Start Num: 5

Candidate Starts for ABU_4:

(Start: 5 @2648 has 287 MA's), (13, 2699), (18, 2792), (23, 2849), (32, 2951), (33, 2963), (34, 2972),

Gene: AbsoluteMadLad_4 Start: 2647, Stop: 3009, Start Num: 5

Candidate Starts for AbsoluteMadLad_4:

(Start: 5 @2647 has 287 MA's), (13, 2698), (18, 2791), (23, 2848), (32, 2950), (33, 2962), (34, 2971),

Gene: Adriana_4 Start: 2648, Stop: 3013, Start Num: 5

Candidate Starts for Adriana_4:

(Start: 5 @2648 has 287 MA's), (13, 2702), (18, 2795), (23, 2852), (32, 2954), (33, 2966), (34, 2975),

Gene: Aelin_4 Start: 2648, Stop: 3013, Start Num: 5

Candidate Starts for Aelin_4:

(Start: 5 @2648 has 287 MA's), (13, 2702), (18, 2795), (23, 2852), (32, 2954), (33, 2966), (34, 2975),

Gene: Aleia_4 Start: 2647, Stop: 3012, Start Num: 5

Candidate Starts for Aleia_4:

(Start: 5 @2647 has 287 MA's), (13, 2701), (18, 2794), (23, 2851), (32, 2953), (33, 2965), (34, 2974),

Gene: AltPhacts_4 Start: 2648, Stop: 3013, Start Num: 5

Candidate Starts for AltPhacts_4:

(Start: 4 @2633 has 9 MA's), (Start: 5 @2648 has 287 MA's), (13, 2702), (18, 2795), (23, 2852), (32, 2954), (33, 2966), (34, 2975),

Gene: Altwerkus_4 Start: 2648, Stop: 3013, Start Num: 5

Candidate Starts for Altwerkus_4:

(Start: 4 @2633 has 9 MA's), (Start: 5 @2648 has 287 MA's), (13, 2702), (18, 2795), (23, 2852), (32, 2954), (33, 2966), (34, 2975),

Gene: Anderson_4 Start: 2648, Stop: 3013, Start Num: 5

Candidate Starts for Anderson_4:

(Start: 5 @2648 has 287 MA's), (13, 2702), (18, 2795), (23, 2852), (32, 2954), (33, 2966), (34, 2975),

Gene: Andre_4 Start: 2648, Stop: 3013, Start Num: 5

Candidate Starts for Andre_4:

(Start: 5 @2648 has 287 MA's), (13, 2702), (18, 2795), (23, 2852), (32, 2954), (33, 2966), (34, 2975),

Gene: AngelCake_4 Start: 2647, Stop: 3009, Start Num: 5

Candidate Starts for AngelCake_4:

(Start: 5 @2647 has 287 MA's), (13, 2698), (18, 2791), (23, 2848), (32, 2950), (33, 2962), (34, 2971),

Gene: Antonia_4 Start: 2648, Stop: 3013, Start Num: 5

Candidate Starts for Antonia_4:

(Start: 5 @2648 has 287 MA's), (13, 2702), (18, 2795), (23, 2852), (32, 2954), (33, 2966), (34, 2975),

Gene: Aonishiki_4 Start: 2648, Stop: 3013, Start Num: 5

Candidate Starts for Aonishiki_4:

(Start: 4 @2633 has 9 MA's), (Start: 5 @2648 has 287 MA's), (13, 2702), (18, 2795), (23, 2852), (32, 2954), (33, 2966), (34, 2975),

Gene: Apizium_4 Start: 2648, Stop: 3001, Start Num: 5

Candidate Starts for Apizium_4:

(Start: 4 @2633 has 9 MA's), (Start: 5 @2648 has 287 MA's), (13, 2699), (18, 2792), (23, 2849), (32, 2951), (33, 2963), (34, 2972),

Gene: Ashraf_4 Start: 2647, Stop: 3009, Start Num: 5

Candidate Starts for Ashraf_4:

(Start: 5 @2647 has 287 MA's), (13, 2698), (18, 2791), (23, 2848), (32, 2950), (33, 2962), (34, 2971),

Gene: Badfish_4 Start: 2648, Stop: 3013, Start Num: 5

Candidate Starts for Badfish_4:

(Start: 5 @2648 has 287 MA's), (13, 2702), (18, 2795), (23, 2852), (32, 2954), (33, 2966), (34, 2975),

Gene: Banjo_4 Start: 2648, Stop: 3013, Start Num: 5

Candidate Starts for Banjo_4:

(Start: 5 @2648 has 287 MA's), (13, 2702), (18, 2795), (23, 2852), (32, 2954), (33, 2966), (34, 2975),

Gene: Basato_5 Start: 2881, Stop: 3246, Start Num: 5

Candidate Starts for Basato_5:

(Start: 4 @2866 has 9 MA's), (Start: 5 @2881 has 287 MA's), (13, 2935), (18, 3028), (23, 3085), (32, 3187), (33, 3199), (34, 3208),

Gene: BatteryCK_4 Start: 2647, Stop: 3009, Start Num: 5

Candidate Starts for BatteryCK_4:

(Start: 5 @2647 has 287 MA's), (13, 2698), (18, 2791), (23, 2848), (32, 2950), (33, 2962), (34, 2971),

Gene: Beaglebox_4 Start: 2648, Stop: 3013, Start Num: 5

Candidate Starts for Beaglebox_4:

(Start: 4 @2633 has 9 MA's), (Start: 5 @2648 has 287 MA's), (13, 2702), (18, 2795), (23, 2852), (32, 2954), (33, 2966), (34, 2975),

Gene: Beatrix_85 Start: 50114, Stop: 49761, Start Num: 8

Candidate Starts for Beatrix_85:

(2, 50246), (3, 50216), (Start: 8 @50114 has 8 MA's), (10, 50108), (19, 49988), (20, 49958), (21, 49946), (25, 49922), (29, 49886), (32, 49835), (36, 49787),

Gene: Bexan_83 Start: 49890, Stop: 49537, Start Num: 8

Candidate Starts for Bexan_83:

(2, 50022), (3, 49992), (Start: 8 @49890 has 8 MA's), (10, 49884), (19, 49764), (20, 49734), (21, 49722), (25, 49698), (29, 49662), (32, 49611), (36, 49563),

Gene: Bishoperium_4 Start: 2648, Stop: 3013, Start Num: 5

Candidate Starts for Bishoperium_4:

(Start: 5 @2648 has 287 MA's), (13, 2702), (18, 2795), (23, 2852), (32, 2954), (33, 2966), (34, 2975),

Gene: BlackStallion_4 Start: 2633, Stop: 3010, Start Num: 4

Candidate Starts for BlackStallion_4:

(Start: 4 @2633 has 9 MA's), (Start: 5 @2648 has 287 MA's), (13, 2699), (18, 2792), (23, 2849), (32, 2951), (33, 2963), (34, 2972),

Gene: BlacksBerry_4 Start: 2648, Stop: 3013, Start Num: 5

Candidate Starts for BlacksBerry_4:

(Start: 5 @2648 has 287 MA's), (13, 2702), (18, 2795), (23, 2852), (32, 2954), (33, 2966), (34, 2975),

Gene: BlueHusk_4 Start: 2648, Stop: 3010, Start Num: 5

Candidate Starts for BlueHusk_4:

(Start: 5 @2648 has 287 MA's), (13, 2699), (18, 2792), (23, 2849), (32, 2951), (33, 2963), (34, 2972),

Gene: Bluephacebaby_4 Start: 2648, Stop: 3013, Start Num: 5

Candidate Starts for Bluephacebaby_4:

(Start: 5 @2648 has 287 MA's), (13, 2702), (18, 2795), (23, 2852), (32, 2954), (33, 2966), (34, 2975),

Gene: Boehler_4 Start: 2648, Stop: 3013, Start Num: 5

Candidate Starts for Boehler_4:

(Start: 5 @2648 has 287 MA's), (13, 2702), (18, 2795), (23, 2852), (32, 2954), (33, 2966), (34, 2975),

Gene: BoogieWoogie_4 Start: 2648, Stop: 3010, Start Num: 5

Candidate Starts for BoogieWoogie_4:

(Start: 4 @2633 has 9 MA's), (Start: 5 @2648 has 287 MA's), (13, 2699), (18, 2792), (23, 2849), (32, 2951), (33, 2963), (34, 2972),

Gene: Brilliant_4 Start: 2647, Stop: 3012, Start Num: 5

Candidate Starts for Brilliant_4:

(Start: 5 @2647 has 287 MA's), (13, 2701), (18, 2794), (23, 2851), (32, 2953), (33, 2965), (34, 2974),

Gene: Buckeye_4 Start: 2648, Stop: 3013, Start Num: 5

Candidate Starts for Buckeye_4:

(Start: 5 @2648 has 287 MA's), (13, 2702), (18, 2795), (23, 2852), (32, 2954), (33, 2966), (34, 2975),

Gene: Burr_4 Start: 2648, Stop: 3013, Start Num: 5

Candidate Starts for Burr_4:

(Start: 5 @2648 has 287 MA's), (13, 2702), (18, 2795), (23, 2852), (32, 2954), (33, 2966), (34, 2975),

Gene: CamL_4 Start: 2648, Stop: 3010, Start Num: 5

Candidate Starts for CamL_4:

(Start: 4 @2633 has 9 MA's), (Start: 5 @2648 has 287 MA's), (13, 2699), (18, 2792), (23, 2849), (32, 2951), (33, 2963), (34, 2972),

Gene: CampRoach_4 Start: 2647, Stop: 3009, Start Num: 5

Candidate Starts for CampRoach_4:

(Start: 5 @2647 has 287 MA's), (13, 2698), (18, 2791), (23, 2848), (32, 2950), (33, 2962), (34, 2971),

Gene: Cannibal_4 Start: 2648, Stop: 3013, Start Num: 5

Candidate Starts for Cannibal_4:

(Start: 5 @2648 has 287 MA's), (13, 2702), (18, 2795), (23, 2852), (32, 2954), (33, 2966), (34, 2975),

Gene: Carthage_4 Start: 2648, Stop: 3013, Start Num: 5

Candidate Starts for Carthage_4:

(Start: 4 @2633 has 9 MA's), (Start: 5 @2648 has 287 MA's), (13, 2702), (18, 2795), (23, 2852), (32, 2954), (33, 2966), (34, 2975),

Gene: Caspiboi_4 Start: 2648, Stop: 3013, Start Num: 5

Candidate Starts for Caspiboi_4:

(Start: 5 @2648 has 287 MA's), (13, 2702), (18, 2795), (23, 2852), (32, 2954), (33, 2966), (34, 2975),

Gene: Chaelin_4 Start: 2648, Stop: 3010, Start Num: 5

Candidate Starts for Chaelin_4:

(Start: 5 @2648 has 287 MA's), (13, 2699), (18, 2792), (23, 2849), (32, 2951), (33, 2963), (34, 2972),

Gene: Chah_4 Start: 2648, Stop: 3010, Start Num: 5

Candidate Starts for Chah_4:

(Start: 4 @2633 has 9 MA's), (Start: 5 @2648 has 287 MA's), (13, 2699), (18, 2792), (23, 2849), (32, 2951), (33, 2963), (34, 2972),

Gene: Charles1_4 Start: 2648, Stop: 3013, Start Num: 5

Candidate Starts for Charles1_4:

(Start: 5 @2648 has 287 MA's), (13, 2702), (18, 2795), (23, 2852), (32, 2954), (33, 2966), (34, 2975),

Gene: CharlieGBrown_4 Start: 2647, Stop: 3009, Start Num: 5

Candidate Starts for CharlieGBrown_4:

(Start: 5 @2647 has 287 MA's), (13, 2698), (18, 2791), (23, 2848), (32, 2950), (33, 2962), (34, 2971),

Gene: CheetO_4 Start: 2648, Stop: 3013, Start Num: 5

Candidate Starts for CheetO_4:

(Start: 5 @2648 has 287 MA's), (13, 2702), (18, 2795), (23, 2852), (32, 2954), (33, 2966), (34, 2975),

Gene: Cher_4 Start: 2648, Stop: 3013, Start Num: 5

Candidate Starts for Cher_4:

(Start: 5 @2648 has 287 MA's), (13, 2702), (18, 2795), (23, 2852), (32, 2954), (33, 2966), (34, 2975),

Gene: Childish_4 Start: 2648, Stop: 3013, Start Num: 5

Candidate Starts for Childish_4:

(Start: 5 @2648 has 287 MA's), (13, 2702), (18, 2795), (23, 2852), (32, 2954), (33, 2966), (34, 2975),

Gene: Chipette_5 Start: 2881, Stop: 3246, Start Num: 5

Candidate Starts for Chipette_5:

(Start: 4 @2866 has 9 MA's), (Start: 5 @2881 has 287 MA's), (13, 2935), (18, 3028), (23, 3085), (32, 3187), (33, 3199), (34, 3208),

Gene: Chorkpop_4 Start: 2648, Stop: 3013, Start Num: 5

Candidate Starts for Chorkpop_4:

(Start: 5 @2648 has 287 MA's), (13, 2702), (18, 2795), (23, 2852), (32, 2954), (33, 2966), (34, 2975),

Gene: Chuni_4 Start: 2648, Stop: 3010, Start Num: 5

Candidate Starts for Chuni_4:

(Start: 5 @2648 has 287 MA's), (13, 2699), (18, 2792), (23, 2849), (32, 2951), (33, 2963), (34, 2972),

Gene: Chunky_4 Start: 2647, Stop: 3012, Start Num: 5

Candidate Starts for Chunky_4:

(Start: 4 @2632 has 9 MA's), (Start: 5 @2647 has 287 MA's), (13, 2701), (18, 2794), (23, 2851), (32, 2953), (33, 2965), (34, 2974),

Gene: Chute_4 Start: 2647, Stop: 3009, Start Num: 5

Candidate Starts for Chute_4:

(Start: 5 @2647 has 287 MA's), (13, 2698), (18, 2791), (23, 2848), (32, 2950), (33, 2962), (34, 2971),

Gene: Cobra_4 Start: 2648, Stop: 3010, Start Num: 5

Candidate Starts for Cobra_4:

(Start: 4 @2633 has 9 MA's), (Start: 5 @2648 has 287 MA's), (13, 2699), (18, 2792), (23, 2849), (32, 2951), (33, 2963), (34, 2972),

Gene: Colbert_4 Start: 2648, Stop: 3010, Start Num: 5

Candidate Starts for Colbert_4:

(Start: 5 @2648 has 287 MA's), (13, 2699), (18, 2792), (23, 2849), (32, 2951), (33, 2963), (34, 2972),

Gene: Coletti_4 Start: 2647, Stop: 3009, Start Num: 5

Candidate Starts for Coletti_4:

(Start: 5 @2647 has 287 MA's), (13, 2698), (18, 2791), (23, 2848), (32, 2950), (33, 2962), (34, 2971),

Gene: Cornbread_4 Start: 2648, Stop: 3013, Start Num: 5

Candidate Starts for Cornbread_4:

(Start: 5 @2648 has 287 MA's), (13, 2702), (18, 2795), (23, 2852), (32, 2954), (33, 2966), (34, 2975),

Gene: Cornobble_4 Start: 2648, Stop: 3010, Start Num: 5

Candidate Starts for Cornobble_4:

(Start: 4 @2633 has 9 MA's), (Start: 5 @2648 has 287 MA's), (13, 2699), (18, 2792), (23, 2849), (32, 2951), (33, 2963), (34, 2972),

Gene: Cosmolli16_4 Start: 2648, Stop: 3010, Start Num: 5

Candidate Starts for Cosmolli16_4:

(Start: 4 @2633 has 9 MA's), (Start: 5 @2648 has 287 MA's), (13, 2699), (18, 2792), (23, 2849), (32, 2951), (33, 2963), (34, 2972),

Gene: Craff_4 Start: 2648, Stop: 3013, Start Num: 5

Candidate Starts for Craff_4:

(Start: 5 @2648 has 287 MA's), (13, 2702), (18, 2795), (23, 2852), (32, 2954), (33, 2966), (34, 2975),

Gene: Crownjwl_5 Start: 2881, Stop: 3246, Start Num: 5

Candidate Starts for Crownjwl_5:

(Start: 4 @2866 has 9 MA's), (Start: 5 @2881 has 287 MA's), (13, 2935), (18, 3028), (23, 3085), (32, 3187), (33, 3199), (34, 3208),

Gene: DaddyDaniels_4 Start: 2647, Stop: 3012, Start Num: 5

Candidate Starts for DaddyDaniels_4:

(Start: 5 @2647 has 287 MA's), (13, 2701), (18, 2794), (23, 2851), (32, 2953), (33, 2965), (34, 2974),

Gene: Daffy_4 Start: 2648, Stop: 3013, Start Num: 5

Candidate Starts for Daffy_4:

(Start: 5 @2648 has 287 MA's), (13, 2702), (18, 2795), (23, 2852), (32, 2954), (33, 2966), (34, 2975),

Gene: Daka_4 Start: 2648, Stop: 3016, Start Num: 5

Candidate Starts for Daka_4:

(Start: 5 @2648 has 287 MA's), (13, 2705), (18, 2798), (23, 2855), (32, 2957), (33, 2969), (34, 2978),

Gene: Dati_4 Start: 2647, Stop: 3009, Start Num: 5
Candidate Starts for Dati_4:
(Start: 5 @2647 has 287 MA's), (13, 2698), (18, 2791), (23, 2848), (32, 2950), (33, 2962), (34, 2971),

Gene: DelRivs_4 Start: 2647, Stop: 3012, Start Num: 5
Candidate Starts for DelRivs_4:
(Start: 5 @2647 has 287 MA's), (13, 2701), (18, 2794), (23, 2851), (32, 2953), (33, 2965), (34, 2974),

Gene: Derpp_4 Start: 2647, Stop: 3009, Start Num: 5
Candidate Starts for Derpp_4:
(Start: 5 @2647 has 287 MA's), (13, 2698), (18, 2791), (23, 2848), (32, 2950), (33, 2962), (34, 2971),

Gene: Dice_4 Start: 2647, Stop: 3012, Start Num: 5
Candidate Starts for Dice_4:
(Start: 4 @2632 has 9 MA's), (Start: 5 @2647 has 287 MA's), (13, 2701), (18, 2794), (23, 2851), (32, 2953), (33, 2965), (34, 2974),

Gene: Dingo_4 Start: 2648, Stop: 3010, Start Num: 5
Candidate Starts for Dingo_4:
(Start: 5 @2648 has 287 MA's), (13, 2699), (18, 2792), (23, 2849), (32, 2951), (33, 2963), (34, 2972),

Gene: Dione_4 Start: 2647, Stop: 3012, Start Num: 5
Candidate Starts for Dione_4:
(Start: 4 @2632 has 9 MA's), (Start: 5 @2647 has 287 MA's), (13, 2701), (18, 2794), (23, 2851), (32, 2953), (33, 2965), (34, 2974),

Gene: DirtJuice_4 Start: 2648, Stop: 3013, Start Num: 5
Candidate Starts for DirtJuice_4:
(Start: 5 @2648 has 287 MA's), (13, 2702), (18, 2795), (23, 2852), (32, 2954), (33, 2966), (34, 2975),

Gene: Doddsville_4 Start: 2647, Stop: 3009, Start Num: 5
Candidate Starts for Doddsville_4:
(Start: 5 @2647 has 287 MA's), (13, 2698), (18, 2791), (23, 2848), (32, 2950), (33, 2962), (34, 2971),

Gene: DoesntMatter_4 Start: 2648, Stop: 3010, Start Num: 5
Candidate Starts for DoesntMatter_4:
(Start: 5 @2648 has 287 MA's), (13, 2699), (18, 2792), (23, 2849), (32, 2951), (33, 2963), (34, 2972),

Gene: DolOn_6 Start: 2866, Stop: 3246, Start Num: 4
Candidate Starts for DolOn_6:
(Start: 4 @2866 has 9 MA's), (Start: 5 @2881 has 287 MA's), (13, 2935), (18, 3028), (23, 3085), (32, 3187), (33, 3199), (34, 3208),

Gene: DonSanchon_4 Start: 2648, Stop: 3013, Start Num: 5
Candidate Starts for DonSanchon_4:
(Start: 5 @2648 has 287 MA's), (13, 2702), (18, 2795), (23, 2852), (32, 2954), (33, 2966), (34, 2975),

Gene: DuchessDung_4 Start: 2647, Stop: 3009, Start Num: 5
Candidate Starts for DuchessDung_4:
(Start: 5 @2647 has 287 MA's), (13, 2698), (18, 2791), (23, 2848), (32, 2950), (33, 2962), (34, 2971),

Gene: Duggie_4 Start: 2647, Stop: 3012, Start Num: 5
Candidate Starts for Duggie_4:

(Start: 5 @2647 has 287 MA's), (13, 2701), (18, 2794), (23, 2851), (32, 2953), (33, 2965), (34, 2974),

Gene: Durga_4 Start: 2647, Stop: 3009, Start Num: 5

Candidate Starts for Durga_4:

(Start: 5 @2647 has 287 MA's), (13, 2698), (18, 2791), (23, 2848), (32, 2950), (33, 2962), (34, 2971),

Gene: ElvisPhasley_4 Start: 2648, Stop: 3013, Start Num: 5

Candidate Starts for ElvisPhasley_4:

(Start: 5 @2648 has 287 MA's), (13, 2702), (18, 2795), (23, 2852), (32, 2954), (33, 2966), (34, 2975),

Gene: EmGer13_4 Start: 2648, Stop: 3013, Start Num: 5

Candidate Starts for EmGer13_4:

(Start: 5 @2648 has 287 MA's), (13, 2702), (18, 2795), (23, 2852), (32, 2954), (33, 2966), (34, 2975),

Gene: Emiris_4 Start: 2648, Stop: 3013, Start Num: 5

Candidate Starts for Emiris_4:

(Start: 5 @2648 has 287 MA's), (13, 2702), (18, 2795), (23, 2852), (32, 2954), (33, 2966), (34, 2975),

Gene: EmpTee_4 Start: 2648, Stop: 3013, Start Num: 5

Candidate Starts for EmpTee_4:

(Start: 5 @2648 has 287 MA's), (13, 2702), (18, 2795), (23, 2852), (32, 2954), (33, 2966), (34, 2975),

Gene: Eremos_4 Start: 2648, Stop: 3013, Start Num: 5

Candidate Starts for Eremos_4:

(Start: 4 @2633 has 9 MA's), (Start: 5 @2648 has 287 MA's), (13, 2702), (18, 2795), (23, 2852), (32, 2954), (33, 2966), (34, 2975),

Gene: Espresso_85 Start: 50081, Stop: 49758, Start Num: 8

Candidate Starts for Espresso_85:

(2, 50213), (3, 50183), (Start: 8 @50081 has 8 MA's), (10, 50075), (12, 50060), (17, 49982), (19, 49955), (20, 49925), (21, 49913), (29, 49853), (32, 49802),

Gene: Etaye_4 Start: 2647, Stop: 3009, Start Num: 5

Candidate Starts for Etaye_4:

(Start: 5 @2647 has 287 MA's), (13, 2698), (18, 2791), (23, 2848), (32, 2950), (33, 2962), (34, 2971),

Gene: Eugenia_4 Start: 2648, Stop: 3013, Start Num: 5

Candidate Starts for Eugenia_4:

(Start: 5 @2648 has 287 MA's), (13, 2702), (18, 2795), (23, 2852), (32, 2954), (33, 2966), (34, 2975),

Gene: Fang_4 Start: 2648, Stop: 3013, Start Num: 5

Candidate Starts for Fang_4:

(Start: 5 @2648 has 287 MA's), (13, 2702), (18, 2795), (23, 2852), (32, 2954), (33, 2966), (34, 2975),

Gene: Flake_4 Start: 2647, Stop: 3012, Start Num: 5

Candidate Starts for Flake_4:

(Start: 5 @2647 has 287 MA's), (13, 2701), (18, 2794), (23, 2851), (32, 2953), (33, 2965), (34, 2974),

Gene: FleetyMac_4 Start: 2648, Stop: 3010, Start Num: 5

Candidate Starts for FleetyMac_4:

(Start: 5 @2648 has 287 MA's), (13, 2699), (18, 2792), (23, 2849), (32, 2951), (33, 2963), (34, 2972),

Gene: FluffyNinja_4 Start: 2648, Stop: 3010, Start Num: 5

Candidate Starts for FluffyNinja_4:

(Start: 4 @2633 has 9 MA's), (Start: 5 @2648 has 287 MA's), (13, 2699), (18, 2792), (23, 2849), (32, 2951), (33, 2963), (34, 2972),

Gene: Fozzie_4 Start: 2648, Stop: 3010, Start Num: 5

Candidate Starts for Fozzie_4:

(Start: 4 @2633 has 9 MA's), (Start: 5 @2648 has 287 MA's), (13, 2699), (18, 2792), (23, 2849), (32, 2951), (33, 2963), (34, 2972),

Gene: Frankicide_4 Start: 2648, Stop: 3013, Start Num: 5

Candidate Starts for Frankicide_4:

(Start: 4 @2633 has 9 MA's), (Start: 5 @2648 has 287 MA's), (13, 2702), (18, 2795), (23, 2852), (32, 2954), (33, 2966), (34, 2975),

Gene: FremontTroll_5 Start: 2648, Stop: 3010, Start Num: 5

Candidate Starts for FremontTroll_5:

(Start: 5 @2648 has 287 MA's), (13, 2699), (18, 2792), (23, 2849), (32, 2951), (33, 2963), (34, 2972),

Gene: Freya_4 Start: 2648, Stop: 3013, Start Num: 5

Candidate Starts for Freya_4:

(Start: 4 @2633 has 9 MA's), (Start: 5 @2648 has 287 MA's), (13, 2702), (18, 2795), (23, 2852), (32, 2954), (33, 2966), (34, 2975),

Gene: FriarPreacher_4 Start: 2648, Stop: 3010, Start Num: 5

Candidate Starts for FriarPreacher_4:

(Start: 4 @2633 has 9 MA's), (Start: 5 @2648 has 287 MA's), (13, 2699), (18, 2792), (23, 2849), (32, 2951), (33, 2963), (34, 2972),

Gene: Fringe_4 Start: 2648, Stop: 3010, Start Num: 5

Candidate Starts for Fringe_4:

(Start: 4 @2633 has 9 MA's), (Start: 5 @2648 has 287 MA's), (13, 2699), (18, 2792), (23, 2849), (32, 2951), (33, 2963), (34, 2972),

Gene: FugateOSU_4 Start: 2648, Stop: 3013, Start Num: 5

Candidate Starts for FugateOSU_4:

(Start: 5 @2648 has 287 MA's), (13, 2702), (18, 2795), (23, 2852), (32, 2954), (33, 2966), (34, 2975),

Gene: Gareth_4 Start: 2648, Stop: 3010, Start Num: 5

Candidate Starts for Gareth_4:

(Start: 5 @2648 has 287 MA's), (13, 2699), (18, 2792), (23, 2849), (32, 2951), (33, 2963), (34, 2972),

Gene: GeneCoco_4 Start: 2647, Stop: 3012, Start Num: 5

Candidate Starts for GeneCoco_4:

(Start: 5 @2647 has 287 MA's), (13, 2701), (18, 2794), (23, 2851), (32, 2953), (33, 2965), (34, 2974),

Gene: Giraffe_4 Start: 2648, Stop: 3013, Start Num: 5

Candidate Starts for Giraffe_4:

(Start: 5 @2648 has 287 MA's), (13, 2702), (18, 2795), (23, 2852), (32, 2954), (33, 2966), (34, 2975),

Gene: Gophee_4 Start: 2648, Stop: 3013, Start Num: 5

Candidate Starts for Gophee_4:

(Start: 5 @2648 has 287 MA's), (13, 2702), (18, 2795), (23, 2852), (32, 2954), (33, 2966), (34, 2975),

Gene: Grand2040_4 Start: 2648, Stop: 3010, Start Num: 5

Candidate Starts for Grand2040_4:

(Start: 4 @2633 has 9 MA's), (Start: 5 @2648 has 287 MA's), (13, 2699), (18, 2792), (23, 2849), (32, 2951), (33, 2963), (34, 2972),

Gene: GreenChile_5 Start: 2633, Stop: 3013, Start Num: 4

Candidate Starts for GreenChile_5:

(Start: 4 @2633 has 9 MA's), (Start: 5 @2648 has 287 MA's), (13, 2702), (18, 2795), (23, 2852), (32, 2954), (33, 2966), (34, 2975),

Gene: Gwennie1_4 Start: 2647, Stop: 3012, Start Num: 5

Candidate Starts for Gwennie1_4:

(Start: 5 @2647 has 287 MA's), (13, 2701), (18, 2794), (23, 2851), (32, 2953), (33, 2965), (34, 2974),

Gene: Gwilliam_4 Start: 2648, Stop: 3010, Start Num: 5

Candidate Starts for Gwilliam_4:

(Start: 4 @2633 has 9 MA's), (Start: 5 @2648 has 287 MA's), (13, 2699), (18, 2792), (23, 2849), (32, 2951), (33, 2963), (34, 2972),

Gene: Gyarad_004 Start: 2648, Stop: 3013, Start Num: 5

Candidate Starts for Gyarad_004:

(Start: 4 @2633 has 9 MA's), (Start: 5 @2648 has 287 MA's), (13, 2702), (18, 2795), (23, 2852), (32, 2954), (33, 2966), (34, 2975),

Gene: HSavage_4 Start: 2648, Stop: 3013, Start Num: 5

Candidate Starts for HSavage_4:

(Start: 4 @2633 has 9 MA's), (Start: 5 @2648 has 287 MA's), (13, 2702), (18, 2795), (23, 2852), (32, 2954), (33, 2966), (34, 2975),

Gene: Haimas_4 Start: 2648, Stop: 3013, Start Num: 5

Candidate Starts for Haimas_4:

(Start: 5 @2648 has 287 MA's), (13, 2702), (18, 2795), (23, 2852), (32, 2954), (33, 2966), (34, 2975),

Gene: Haleema_4 Start: 2648, Stop: 3013, Start Num: 5

Candidate Starts for Haleema_4:

(Start: 4 @2633 has 9 MA's), (Start: 5 @2648 has 287 MA's), (13, 2702), (18, 2795), (23, 2852), (32, 2954), (33, 2966), (34, 2975),

Gene: Hamish_4 Start: 2648, Stop: 3013, Start Num: 5

Candidate Starts for Hamish_4:

(Start: 5 @2648 has 287 MA's), (13, 2702), (18, 2795), (23, 2852), (32, 2954), (33, 2966), (34, 2975),

Gene: Happabalu_4 Start: 2647, Stop: 3009, Start Num: 5

Candidate Starts for Happabalu_4:

(Start: 5 @2647 has 287 MA's), (13, 2698), (18, 2791), (23, 2848), (32, 2950), (33, 2962), (34, 2971),

Gene: Hartsy_4 Start: 2647, Stop: 3009, Start Num: 5

Candidate Starts for Hartsy_4:

(Start: 5 @2647 has 287 MA's), (13, 2698), (18, 2791), (23, 2848), (32, 2950), (33, 2962), (34, 2971),

Gene: Harvey_4 Start: 2648, Stop: 3013, Start Num: 5

Candidate Starts for Harvey_4:

(Start: 4 @2633 has 9 MA's), (Start: 5 @2648 has 287 MA's), (13, 2702), (18, 2795), (23, 2852), (32, 2954), (33, 2966), (34, 2975),

Gene: Hekos_4 Start: 2647, Stop: 3012, Start Num: 5

Candidate Starts for Hekos_4:

(Start: 5 @2647 has 287 MA's), (13, 2701), (18, 2794), (23, 2851), (32, 2953), (33, 2965), (34, 2974),

Gene: Held_4 Start: 2648, Stop: 3013, Start Num: 5

Candidate Starts for Held_4:

(Start: 5 @2648 has 287 MA's), (13, 2702), (18, 2795), (23, 2852), (32, 2954), (33, 2966), (34, 2975),

Gene: HenryJackson_4 Start: 2648, Stop: 3013, Start Num: 5

Candidate Starts for HenryJackson_4:

(Start: 5 @2648 has 287 MA's), (13, 2702), (18, 2795), (23, 2852), (32, 2954), (33, 2966), (34, 2975),

Gene: Hertubise_4 Start: 2648, Stop: 3013, Start Num: 5

Candidate Starts for Hertubise_4:

(Start: 5 @2648 has 287 MA's), (13, 2702), (18, 2795), (23, 2852), (32, 2954), (33, 2966), (34, 2975),

Gene: Hetaeria_4 Start: 2648, Stop: 3013, Start Num: 5

Candidate Starts for Hetaeria_4:

(Start: 5 @2648 has 287 MA's), (13, 2702), (18, 2795), (23, 2852), (32, 2954), (33, 2966), (34, 2975),

Gene: HighStump_4 Start: 2648, Stop: 3013, Start Num: 5

Candidate Starts for HighStump_4:

(Start: 5 @2648 has 287 MA's), (13, 2702), (18, 2795), (23, 2852), (32, 2954), (33, 2966), (34, 2975),

Gene: Hocus_4 Start: 2648, Stop: 3013, Start Num: 5

Candidate Starts for Hocus_4:

(Start: 5 @2648 has 287 MA's), (13, 2702), (18, 2795), (23, 2852), (32, 2954), (33, 2966), (34, 2975),

Gene: HogWash_4 Start: 2648, Stop: 3010, Start Num: 5

Candidate Starts for HogWash_4:

(Start: 5 @2648 has 287 MA's), (13, 2699), (18, 2792), (23, 2849), (32, 2951), (33, 2963), (34, 2972),

Gene: Homines_77 Start: 45464, Stop: 45141, Start Num: 8

Candidate Starts for Homines_77:

(2, 45596), (3, 45566), (Start: 8 @45464 has 8 MA's), (10, 45458), (12, 45443), (19, 45338), (20, 45308), (21, 45296), (29, 45236), (32, 45185),

Gene: Horchata_4 Start: 2648, Stop: 3013, Start Num: 5

Candidate Starts for Horchata_4:

(Start: 4 @2633 has 9 MA's), (Start: 5 @2648 has 287 MA's), (13, 2702), (18, 2795), (23, 2852), (32, 2954), (33, 2966), (34, 2975),

Gene: ImtiyazSitla_4 Start: 2647, Stop: 3009, Start Num: 5

Candidate Starts for ImtiyazSitla_4:

(Start: 5 @2647 has 287 MA's), (13, 2698), (18, 2791), (23, 2848), (32, 2950), (33, 2962), (34, 2971),

Gene: Inchworm_4 Start: 2647, Stop: 3009, Start Num: 5

Candidate Starts for Inchworm_4:

(Start: 5 @2647 has 287 MA's), (13, 2698), (18, 2791), (23, 2848), (32, 2950), (33, 2962), (34, 2971),

Gene: Inverness_4 Start: 2648, Stop: 3013, Start Num: 5

Candidate Starts for Inverness_4:

(Start: 4 @2633 has 9 MA's), (Start: 5 @2648 has 287 MA's), (13, 2702), (18, 2795), (23, 2852), (32, 2954), (33, 2966), (34, 2975),

Gene: Iridessa_4 Start: 2647, Stop: 3012, Start Num: 5

Candidate Starts for Iridessa_4:

(Start: 5 @2647 has 287 MA's), (13, 2701), (18, 2794), (23, 2851), (32, 2953), (33, 2965), (34, 2974),

Gene: Iridoclysis_4 Start: 2648, Stop: 3016, Start Num: 5

Candidate Starts for Iridoclysis_4:

(Start: 4 @2633 has 9 MA's), (Start: 5 @2648 has 287 MA's), (13, 2705), (18, 2798), (23, 2855), (32, 2957), (33, 2969), (34, 2978),

Gene: IsaacEli_4 Start: 2648, Stop: 3010, Start Num: 5

Candidate Starts for IsaacEli_4:

(Start: 5 @2648 has 287 MA's), (13, 2699), (18, 2792), (23, 2849), (32, 2951), (33, 2963), (34, 2972),

Gene: JDog_4 Start: 2647, Stop: 3012, Start Num: 5

Candidate Starts for JDog_4:

(Start: 5 @2647 has 287 MA's), (13, 2701), (18, 2794), (23, 2851), (32, 2953), (33, 2965), (34, 2974),

Gene: JacAttac_4 Start: 2648, Stop: 3010, Start Num: 5

Candidate Starts for JacAttac_4:

(Start: 5 @2648 has 287 MA's), (13, 2699), (18, 2792), (23, 2849), (32, 2951), (33, 2963), (34, 2972),

Gene: JakeO_4 Start: 2647, Stop: 3012, Start Num: 5

Candidate Starts for JakeO_4:

(Start: 5 @2647 has 287 MA's), (13, 2701), (18, 2794), (23, 2851), (32, 2953), (33, 2965), (34, 2974),

Gene: JangoPhett_4 Start: 2648, Stop: 3010, Start Num: 5

Candidate Starts for JangoPhett_4:

(Start: 4 @2633 has 9 MA's), (Start: 5 @2648 has 287 MA's), (13, 2699), (18, 2792), (23, 2849), (32, 2951), (33, 2963), (34, 2972),

Gene: Jbug01_4 Start: 2647, Stop: 3012, Start Num: 5

Candidate Starts for Jbug01_4:

(Start: 5 @2647 has 287 MA's), (13, 2701), (18, 2794), (23, 2851), (32, 2953), (33, 2965), (34, 2974),

Gene: Jesabah_4 Start: 2648, Stop: 3013, Start Num: 5

Candidate Starts for Jesabah_4:

(Start: 5 @2648 has 287 MA's), (13, 2702), (18, 2795), (23, 2852), (32, 2954), (33, 2966), (34, 2975),

Gene: Jillium_4 Start: 2648, Stop: 3013, Start Num: 5

Candidate Starts for Jillium_4:

(Start: 5 @2648 has 287 MA's), (13, 2702), (18, 2795), (23, 2852), (32, 2954), (33, 2966), (34, 2975),

Gene: Jiminy_4 Start: 2647, Stop: 3012, Start Num: 5

Candidate Starts for Jiminy_4:

(Start: 5 @2647 has 287 MA's), (13, 2701), (18, 2794), (23, 2851), (32, 2953), (33, 2965), (34, 2974),

Gene: Jiraiya_4 Start: 2647, Stop: 3012, Start Num: 5

Candidate Starts for Jiraiya_4:

(Start: 5 @2647 has 287 MA's), (13, 2701), (18, 2794), (23, 2851), (32, 2953), (33, 2965), (34, 2974),

Gene: KLUcky39_4 Start: 2648, Stop: 3013, Start Num: 5

Candidate Starts for KLUcky39_4:

(Start: 4 @2633 has 9 MA's), (Start: 5 @2648 has 287 MA's), (13, 2702), (18, 2795), (23, 2852), (32, 2954), (33, 2966), (34, 2975),

Gene: Kahve_4 Start: 2648, Stop: 3013, Start Num: 5

Candidate Starts for Kahve_4:

(Start: 5 @2648 has 287 MA's), (13, 2702), (18, 2795), (23, 2852), (32, 2954), (33, 2966), (34, 2975),

Gene: Kailash_4 Start: 2647, Stop: 3009, Start Num: 5

Candidate Starts for Kailash_4:

(Start: 5 @2647 has 287 MA's), (13, 2698), (18, 2791), (23, 2848), (32, 2950), (33, 2962), (34, 2971),

Gene: Karn_4 Start: 2647, Stop: 3012, Start Num: 5

Candidate Starts for Karn_4:

(Start: 5 @2647 has 287 MA's), (13, 2701), (18, 2794), (23, 2851), (32, 2953), (33, 2965), (34, 2974),

Gene: Katniss_4 Start: 2648, Stop: 3013, Start Num: 5

Candidate Starts for Katniss_4:

(Start: 5 @2648 has 287 MA's), (13, 2702), (18, 2795), (23, 2852), (32, 2954), (33, 2966), (34, 2975),

Gene: Keitherie_4 Start: 2647, Stop: 3009, Start Num: 5

Candidate Starts for Keitherie_4:

(Start: 4 @2632 has 9 MA's), (Start: 5 @2647 has 287 MA's), (13, 2698), (18, 2791), (23, 2848), (32, 2950), (33, 2962), (34, 2971),

Gene: Khan1_4 Start: 2647, Stop: 3012, Start Num: 5

Candidate Starts for Khan1_4:

(Start: 5 @2647 has 287 MA's), (13, 2701), (18, 2794), (23, 2851), (32, 2953), (33, 2965), (34, 2974),

Gene: Kikipoo_4 Start: 2648, Stop: 3010, Start Num: 5

Candidate Starts for Kikipoo_4:

(Start: 5 @2648 has 287 MA's), (13, 2699), (18, 2792), (23, 2849), (32, 2951), (33, 2963), (34, 2972),

Gene: Kimbrough_4 Start: 2647, Stop: 3012, Start Num: 5

Candidate Starts for Kimbrough_4:

(Start: 4 @2632 has 9 MA's), (Start: 5 @2647 has 287 MA's), (13, 2701), (18, 2794), (23, 2851), (32, 2953), (33, 2965), (34, 2974),

Gene: KingTut_4 Start: 2648, Stop: 3013, Start Num: 5

Candidate Starts for KingTut_4:

(Start: 5 @2648 has 287 MA's), (13, 2702), (18, 2795), (23, 2852), (32, 2954), (33, 2966), (34, 2975),

Gene: KingVeVeVe_4 Start: 2648, Stop: 3013, Start Num: 5

Candidate Starts for KingVeVeVe_4:

(Start: 4 @2633 has 9 MA's), (Start: 5 @2648 has 287 MA's), (13, 2702), (18, 2795), (23, 2852), (32, 2954), (33, 2966), (34, 2975),

Gene: Kiwot_4 Start: 2647, Stop: 3012, Start Num: 5

Candidate Starts for Kiwot_4:

(Start: 5 @2647 has 287 MA's), (13, 2701), (18, 2794), (23, 2851), (32, 2953), (33, 2965), (34, 2974),

Gene: KlimbOn_4 Start: 2648, Stop: 3013, Start Num: 5

Candidate Starts for KlimbOn_4:

(Start: 5 @2648 has 287 MA's), (13, 2702), (18, 2795), (23, 2852), (32, 2954), (33, 2966), (34, 2975),

Gene: Kloppinator_4 Start: 2648, Stop: 3010, Start Num: 5

Candidate Starts for Kloppinator_4:

(Start: 4 @2633 has 9 MA's), (Start: 5 @2648 has 287 MA's), (13, 2699), (18, 2792), (23, 2849), (32, 2951), (33, 2963), (34, 2972),

Gene: Kwadwo_4 Start: 2648, Stop: 3013, Start Num: 5

Candidate Starts for Kwadwo_4:

(Start: 5 @2648 has 287 MA's), (13, 2702), (18, 2795), (23, 2852), (32, 2954), (33, 2966), (34, 2975),

Gene: Kwksand96_4 Start: 2647, Stop: 3009, Start Num: 5

Candidate Starts for Kwksand96_4:

(Start: 5 @2647 has 287 MA's), (13, 2698), (18, 2791), (23, 2848), (32, 2950), (33, 2962), (34, 2971),

Gene: Labeouficaum_4 Start: 2647, Stop: 3009, Start Num: 5

Candidate Starts for Labeouficaum_4:

(Start: 5 @2647 has 287 MA's), (13, 2698), (18, 2791), (23, 2848), (32, 2950), (33, 2962), (34, 2971),

Gene: Larson_5 Start: 2647, Stop: 3012, Start Num: 5

Candidate Starts for Larson_5:

(Start: 5 @2647 has 287 MA's), (13, 2701), (18, 2794), (23, 2851), (32, 2953), (33, 2965), (34, 2974),

Gene: LasagnaCat_4 Start: 2647, Stop: 3009, Start Num: 5

Candidate Starts for LasagnaCat_4:

(Start: 5 @2647 has 287 MA's), (13, 2698), (18, 2791), (23, 2848), (32, 2950), (33, 2962), (34, 2971),

Gene: Lasso_4 Start: 2647, Stop: 3012, Start Num: 5

Candidate Starts for Lasso_4:

(Start: 4 @2632 has 9 MA's), (Start: 5 @2647 has 287 MA's), (13, 2701), (18, 2794), (23, 2851), (32, 2953), (33, 2965), (34, 2974),

Gene: LeeLot_4 Start: 2648, Stop: 3013, Start Num: 5

Candidate Starts for LeeLot_4:

(Start: 5 @2648 has 287 MA's), (13, 2702), (18, 2795), (23, 2852), (32, 2954), (33, 2966), (34, 2975),

Gene: Lego3393_4 Start: 2648, Stop: 3010, Start Num: 5

Candidate Starts for Lego3393_4:

(Start: 4 @2633 has 9 MA's), (Start: 5 @2648 has 287 MA's), (13, 2699), (18, 2792), (23, 2849), (32, 2951), (33, 2963), (34, 2972),

Gene: Legolas_4 Start: 2648, Stop: 3013, Start Num: 5

Candidate Starts for Legolas_4:

(Start: 5 @2648 has 287 MA's), (13, 2702), (18, 2795), (23, 2852), (32, 2954), (33, 2966), (34, 2975),

Gene: Lehmann_5 Start: 2633, Stop: 3013, Start Num: 4

Candidate Starts for Lehmann_5:

(Start: 4 @2633 has 9 MA's), (Start: 5 @2648 has 287 MA's), (13, 2702), (18, 2795), (23, 2852), (32, 2954), (33, 2966), (34, 2975),

Gene: LeiMonet_4 Start: 2647, Stop: 3009, Start Num: 5

Candidate Starts for LeiMonet_4:

(Start: 5 @2647 has 287 MA's), (13, 2698), (18, 2791), (23, 2848), (32, 2950), (33, 2962), (34, 2971),

Gene: LemonSlice_4 Start: 2648, Stop: 3013, Start Num: 5

Candidate Starts for LemonSlice_4:

(Start: 5 @2648 has 287 MA's), (13, 2702), (18, 2795), (23, 2852), (32, 2954), (33, 2966), (34, 2975),

Gene: Longacauda_4 Start: 2647, Stop: 3012, Start Num: 5

Candidate Starts for Longacauda_4:

(Start: 5 @2647 has 287 MA's), (13, 2701), (18, 2794), (23, 2851), (32, 2953), (33, 2965), (34, 2974),

Gene: Lopsy_4 Start: 2648, Stop: 3013, Start Num: 5

Candidate Starts for Lopsy_4:

(Start: 4 @2633 has 9 MA's), (Start: 5 @2648 has 287 MA's), (13, 2702), (18, 2795), (23, 2852), (32, 2954), (33, 2966), (34, 2975),

Gene: LostAndPhound_4 Start: 2648, Stop: 3013, Start Num: 5

Candidate Starts for LostAndPhound_4:

(Start: 5 @2648 has 287 MA's), (13, 2702), (18, 2795), (23, 2852), (32, 2954), (33, 2966), (34, 2975),

Gene: LuckyMarjie_4 Start: 2647, Stop: 3012, Start Num: 5

Candidate Starts for LuckyMarjie_4:

(Start: 4 @2632 has 9 MA's), (Start: 5 @2647 has 287 MA's), (13, 2701), (18, 2794), (23, 2851), (32, 2953), (33, 2965), (34, 2974),

Gene: Lulumae_4 Start: 2648, Stop: 3013, Start Num: 5

Candidate Starts for Lulumae_4:

(Start: 5 @2648 has 287 MA's), (13, 2702), (18, 2795), (23, 2852), (32, 2954), (33, 2966), (34, 2975),

Gene: Lulwa_4 Start: 2648, Stop: 3013, Start Num: 5

Candidate Starts for Lulwa_4:

(Start: 4 @2633 has 9 MA's), (Start: 5 @2648 has 287 MA's), (13, 2702), (18, 2795), (23, 2852), (32, 2954), (33, 2966), (34, 2975),

Gene: Lumine_4 Start: 2647, Stop: 3012, Start Num: 5

Candidate Starts for Lumine_4:

(Start: 4 @2632 has 9 MA's), (Start: 5 @2647 has 287 MA's), (13, 2701), (18, 2794), (23, 2851), (32, 2953), (33, 2965), (34, 2974),

Gene: MRabcd_4 Start: 2648, Stop: 3010, Start Num: 5

Candidate Starts for MRabcd_4:

(Start: 4 @2633 has 9 MA's), (Start: 5 @2648 has 287 MA's), (13, 2699), (18, 2792), (23, 2849), (32, 2951), (33, 2963), (34, 2972),

Gene: Mag7_4 Start: 2647, Stop: 3009, Start Num: 5

Candidate Starts for Mag7_4:

(Start: 5 @2647 has 287 MA's), (13, 2698), (18, 2791), (23, 2848), (32, 2950), (33, 2962), (34, 2971),

Gene: Magic8_4 Start: 2647, Stop: 3009, Start Num: 5

Candidate Starts for Magic8_4:

(Start: 5 @2647 has 287 MA's), (13, 2698), (18, 2791), (23, 2848), (32, 2950), (33, 2962), (34, 2971),

Gene: Mahdia_41 Start: 32100, Stop: 31843, Start Num: 16

Candidate Starts for Mahdia_41:

(6, 32190), (Start: 16 @32100 has 1 MA's), (26, 31959), (27, 31953),

Gene: Mana_4 Start: 2648, Stop: 3013, Start Num: 5

Candidate Starts for Mana_4:

(Start: 5 @2648 has 287 MA's), (13, 2702), (18, 2795), (23, 2852), (32, 2954), (33, 2966), (34, 2975),

Gene: Manad_4 Start: 2648, Stop: 3013, Start Num: 5

Candidate Starts for Manad_4:

(Start: 5 @2648 has 287 MA's), (13, 2702), (18, 2795), (23, 2852), (32, 2954), (33, 2966), (34, 2975),

Gene: Maru_4 Start: 2648, Stop: 3010, Start Num: 5

Candidate Starts for Maru_4:

(Start: 4 @2633 has 9 MA's), (Start: 5 @2648 has 287 MA's), (13, 2699), (18, 2792), (23, 2849), (32, 2951), (33, 2963), (34, 2972),

Gene: Maskar_4 Start: 2647, Stop: 3009, Start Num: 5

Candidate Starts for Maskar_4:

(Start: 5 @2647 has 287 MA's), (13, 2698), (18, 2791), (23, 2848), (32, 2950), (33, 2962), (34, 2971),

Gene: Matalotodo_4 Start: 2648, Stop: 3013, Start Num: 5

Candidate Starts for Matalotodo_4:

(Start: 5 @2648 has 287 MA's), (13, 2702), (18, 2795), (23, 2852), (32, 2954), (33, 2966), (34, 2975),

Gene: Mcshane_4 Start: 2648, Stop: 3013, Start Num: 5

Candidate Starts for Mcshane_4:

(Start: 4 @2633 has 9 MA's), (Start: 5 @2648 has 287 MA's), (13, 2702), (18, 2795), (23, 2852), (32, 2954), (33, 2966), (34, 2975),

Gene: Mecca_4 Start: 2648, Stop: 3010, Start Num: 5

Candidate Starts for Mecca_4:

(Start: 4 @2633 has 9 MA's), (Start: 5 @2648 has 287 MA's), (13, 2699), (18, 2792), (23, 2849), (32, 2951), (33, 2963), (34, 2972),

Gene: Megamind20_5 Start: 2648, Stop: 3013, Start Num: 5

Candidate Starts for Megamind20_5:

(Start: 5 @2648 has 287 MA's), (13, 2702), (18, 2795), (23, 2852), (32, 2954), (33, 2966), (34, 2975),

Gene: Megatron_4 Start: 2648, Stop: 3010, Start Num: 5

Candidate Starts for Megatron_4:

(Start: 5 @2648 has 287 MA's), (13, 2699), (18, 2792), (23, 2849), (32, 2951), (33, 2963), (34, 2972),

Gene: Melc17_4 Start: 2647, Stop: 3009, Start Num: 5

Candidate Starts for Melc17_4:

(Start: 5 @2647 has 287 MA's), (13, 2698), (18, 2791), (23, 2848), (32, 2950), (33, 2962), (34, 2971),

Gene: MelsMeow_4 Start: 2647, Stop: 3009, Start Num: 5

Candidate Starts for MelsMeow_4:

(Start: 5 @2647 has 287 MA's), (13, 2698), (18, 2791), (23, 2848), (32, 2950), (33, 2962), (34, 2971),

Gene: Mesh1_4 Start: 2648, Stop: 3013, Start Num: 5

Candidate Starts for Mesh1_4:

(Start: 5 @2648 has 287 MA's), (13, 2702), (18, 2795), (23, 2852), (32, 2954), (33, 2966), (34, 2975),

Gene: Mesmerelda_4 Start: 2647, Stop: 3012, Start Num: 5

Candidate Starts for Mesmerelda_4:

(Start: 4 @2632 has 9 MA's), (Start: 5 @2647 has 287 MA's), (13, 2701), (18, 2794), (23, 2851), (32, 2953), (33, 2965), (34, 2974),

Gene: MichaelPhcott_4 Start: 2647, Stop: 3009, Start Num: 5

Candidate Starts for MichaelPhcott_4:

(Start: 5 @2647 has 287 MA's), (13, 2698), (18, 2791), (23, 2848), (32, 2950), (33, 2962), (34, 2971),

Gene: Mikota_4 Start: 2648, Stop: 3010, Start Num: 5

Candidate Starts for Mikota_4:

(Start: 5 @2648 has 287 MA's), (13, 2699), (18, 2792), (23, 2849), (32, 2951), (33, 2963), (34, 2972),

Gene: MiniBoss_4 Start: 2647, Stop: 3012, Start Num: 5

Candidate Starts for MiniBoss_4:

(Start: 4 @2632 has 9 MA's), (Start: 5 @2647 has 287 MA's), (13, 2701), (18, 2794), (23, 2851), (32, 2953), (33, 2965), (34, 2974),

Gene: MitKao_4 Start: 2648, Stop: 3013, Start Num: 5

Candidate Starts for MitKao_4:

(Start: 5 @2648 has 287 MA's), (13, 2702), (18, 2795), (23, 2852), (32, 2954), (33, 2966), (34, 2975),

Gene: Morgushi_4 Start: 2648, Stop: 3010, Start Num: 5

Candidate Starts for Morgushi_4:

(Start: 4 @2633 has 9 MA's), (Start: 5 @2648 has 287 MA's), (13, 2699), (18, 2792), (23, 2849), (32, 2951), (33, 2963), (34, 2972),

Gene: Morty_4 Start: 2648, Stop: 3010, Start Num: 5

Candidate Starts for Morty_4:

(Start: 5 @2648 has 287 MA's), (13, 2699), (18, 2792), (23, 2849), (32, 2951), (33, 2963), (34, 2972),

Gene: Mosaic_4 Start: 2648, Stop: 3013, Start Num: 5

Candidate Starts for Mosaic_4:

(Start: 5 @2648 has 287 MA's), (13, 2702), (18, 2795), (23, 2852), (32, 2954), (33, 2966), (34, 2975),

Gene: MrPhizzler_4 Start: 2647, Stop: 3009, Start Num: 5

Candidate Starts for MrPhizzler_4:

(Start: 5 @2647 has 287 MA's), (13, 2698), (18, 2791), (23, 2848), (32, 2950), (33, 2962), (34, 2971),

Gene: Mulan_4 Start: 2648, Stop: 3013, Start Num: 5

Candidate Starts for Mulan_4:

(Start: 5 @2648 has 287 MA's), (13, 2702), (18, 2795), (23, 2852), (32, 2954), (33, 2966), (34, 2975),

Gene: Murdoc_4 Start: 2648, Stop: 3013, Start Num: 5

Candidate Starts for Murdoc_4:

(Start: 5 @2648 has 287 MA's), (13, 2702), (18, 2795), (23, 2852), (32, 2954), (33, 2966), (34, 2975),

Gene: Mutante_4 Start: 2648, Stop: 3010, Start Num: 5

Candidate Starts for Mutante_4:

(Start: 5 @2648 has 287 MA's), (13, 2699), (18, 2792), (23, 2849), (32, 2951), (33, 2963), (34, 2972),

Gene: Nacho_004 Start: 2633, Stop: 3013, Start Num: 4

Candidate Starts for Nacho_004:

(Start: 4 @2633 has 9 MA's), (Start: 5 @2648 has 287 MA's), (13, 2702), (18, 2795), (23, 2852), (32, 2954), (33, 2966), (34, 2975),

Gene: Nathan_4 Start: 2648, Stop: 3010, Start Num: 5

Candidate Starts for Nathan_4:

(Start: 4 @2633 has 9 MA's), (Start: 5 @2648 has 287 MA's), (13, 2699), (18, 2792), (23, 2849), (32, 2951), (33, 2963), (34, 2972),

Gene: Nehme_4 Start: 2647, Stop: 3012, Start Num: 5

Candidate Starts for Nehme_4:

(Start: 5 @2647 has 287 MA's), (13, 2701), (18, 2794), (23, 2851), (32, 2953), (33, 2965), (34, 2974),

Gene: Newman_4 Start: 2648, Stop: 3013, Start Num: 5

Candidate Starts for Newman_4:

(Start: 5 @2648 has 287 MA's), (13, 2702), (18, 2795), (23, 2852), (32, 2954), (33, 2966), (34, 2975),

Gene: NiaNia_4 Start: 2632, Stop: 3012, Start Num: 4

Candidate Starts for NiaNia_4:

(Start: 4 @2632 has 9 MA's), (Start: 5 @2647 has 287 MA's), (13, 2701), (18, 2794), (23, 2851), (32, 2953), (33, 2965), (34, 2974),

Gene: Nicole21_4 Start: 2648, Stop: 3010, Start Num: 5

Candidate Starts for Nicole21_4:

(Start: 4 @2633 has 9 MA's), (Start: 5 @2648 has 287 MA's), (13, 2699), (18, 2792), (23, 2849), (32, 2951), (33, 2963), (34, 2972),

Gene: Nova1_4 Start: 2647, Stop: 3012, Start Num: 5

Candidate Starts for Nova1_4:

(Start: 5 @2647 has 287 MA's), (13, 2701), (18, 2794), (23, 2851), (32, 2953), (33, 2965), (34, 2974),

Gene: Numberten_4 Start: 2648, Stop: 3013, Start Num: 5

Candidate Starts for Numberten_4:

(Start: 4 @2633 has 9 MA's), (Start: 5 @2648 has 287 MA's), (13, 2702), (18, 2795), (23, 2852), (32, 2954), (33, 2966), (34, 2975),

Gene: Nyala_4 Start: 2648, Stop: 3013, Start Num: 5

Candidate Starts for Nyala_4:

(Start: 5 @2648 has 287 MA's), (13, 2702), (18, 2795), (23, 2852), (32, 2954), (33, 2966), (34, 2975),

Gene: OSmaximus_4 Start: 2648, Stop: 3010, Start Num: 5

Candidate Starts for OSmaximus_4:

(Start: 4 @2633 has 9 MA's), (Start: 5 @2648 has 287 MA's), (13, 2699), (18, 2792), (23, 2849), (32, 2951), (33, 2963), (34, 2972),

Gene: Olak_4 Start: 2648, Stop: 3010, Start Num: 5

Candidate Starts for Olak_4:

(Start: 5 @2648 has 287 MA's), (13, 2699), (18, 2792), (23, 2849), (32, 2951), (33, 2963), (34, 2972),

Gene: Oline_4 Start: 2647, Stop: 3009, Start Num: 5

Candidate Starts for Oline_4:

(Start: 5 @2647 has 287 MA's), (13, 2698), (18, 2791), (23, 2848), (32, 2950), (33, 2962), (34, 2971),

Gene: Olive_4 Start: 2648, Stop: 3010, Start Num: 5

Candidate Starts for Olive_4:

(Start: 5 @2648 has 287 MA's), (13, 2699), (18, 2792), (23, 2849), (32, 2951), (33, 2963), (34, 2972),

Gene: OliverWalter_4 Start: 2647, Stop: 3009, Start Num: 5

Candidate Starts for OliverWalter_4:

(Start: 5 @2647 has 287 MA's), (13, 2698), (18, 2791), (23, 2848), (32, 2950), (33, 2962), (34, 2971),

Gene: Omniscient_4 Start: 2648, Stop: 3013, Start Num: 5

Candidate Starts for Omniscient_4:

(Start: 4 @2633 has 9 MA's), (Start: 5 @2648 has 287 MA's), (13, 2702), (18, 2795), (23, 2852), (32, 2954), (33, 2966), (34, 2975),

Gene: OneBrain_4 Start: 2647, Stop: 3012, Start Num: 5

Candidate Starts for OneBrain_4:

(Start: 5 @2647 has 287 MA's), (13, 2701), (18, 2794), (23, 2851), (32, 2953), (33, 2965), (34, 2974),

Gene: Oosterbaan_4 Start: 2648, Stop: 3013, Start Num: 5

Candidate Starts for Oosterbaan_4:

(Start: 5 @2648 has 287 MA's), (13, 2702), (18, 2795), (23, 2852), (32, 2954), (33, 2966), (34, 2975),

Gene: Orfeu_4 Start: 2647, Stop: 3012, Start Num: 5

Candidate Starts for Orfeu_4:

(Start: 5 @2647 has 287 MA's), (13, 2701), (18, 2794), (23, 2851), (32, 2953), (33, 2965), (34, 2974),

Gene: Orion_4 Start: 2648, Stop: 3010, Start Num: 5

Candidate Starts for Orion_4:

(Start: 4 @2633 has 9 MA's), (Start: 5 @2648 has 287 MA's), (13, 2699), (18, 2792), (23, 2849), (32, 2951), (33, 2963), (34, 2972),

Gene: Orwigg_4 Start: 2648, Stop: 3013, Start Num: 5

Candidate Starts for Orwigg_4:

(Start: 5 @2648 has 287 MA's), (13, 2702), (18, 2795), (23, 2852), (32, 2954), (33, 2966), (34, 2975),

Gene: PG1_4 Start: 2648, Stop: 3010, Start Num: 5

Candidate Starts for PG1_4:

(Start: 4 @2633 has 9 MA's), (Start: 5 @2648 has 287 MA's), (13, 2699), (18, 2792), (23, 2849), (32, 2951), (33, 2963), (34, 2972),

Gene: Pacifista_4 Start: 2648, Stop: 3010, Start Num: 5

Candidate Starts for Pacifista_4:

(Start: 5 @2648 has 287 MA's), (13, 2699), (18, 2792), (23, 2849), (32, 2951), (33, 2963), (34, 2972),

Gene: PallasAthena_4 Start: 2648, Stop: 3013, Start Num: 5

Candidate Starts for PallasAthena_4:

(Start: 5 @2648 has 287 MA's), (13, 2702), (18, 2795), (23, 2852), (32, 2954), (33, 2966), (34, 2975),

Gene: Phamished_4 Start: 2648, Stop: 3010, Start Num: 5

Candidate Starts for Phamished_4:

(Start: 5 @2648 has 287 MA's), (13, 2699), (18, 2792), (23, 2849), (32, 2951), (33, 2963), (34, 2972),

Gene: Phareon_4 Start: 2648, Stop: 3013, Start Num: 5

Candidate Starts for Phareon_4:

(Start: 5 @2648 has 287 MA's), (13, 2702), (18, 2795), (23, 2852), (32, 2954), (33, 2966), (34, 2975),

Gene: PhatCats2014_4 Start: 2648, Stop: 3013, Start Num: 5

Candidate Starts for PhatCats2014_4:

(Start: 5 @2648 has 287 MA's), (13, 2702), (18, 2795), (23, 2852), (32, 2954), (33, 2966), (34, 2975),

Gene: PhatLouie_4 Start: 2647, Stop: 3012, Start Num: 5

Candidate Starts for PhatLouie_4:

(Start: 5 @2647 has 287 MA's), (13, 2701), (18, 2794), (23, 2851), (32, 2953), (33, 2965), (34, 2974),

Gene: PhenghisKhan_4 Start: 2647, Stop: 3009, Start Num: 5

Candidate Starts for PhenghisKhan_4:

(Start: 5 @2647 has 287 MA's), (13, 2698), (18, 2791), (23, 2848), (32, 2950), (33, 2962), (34, 2971),

Gene: Pherdinand_4 Start: 2648, Stop: 3010, Start Num: 5

Candidate Starts for Pherdinand_4:

(Start: 4 @2633 has 9 MA's), (Start: 5 @2648 has 287 MA's), (13, 2699), (18, 2792), (23, 2849), (32, 2951), (33, 2963), (34, 2972),

Gene: Phergie_4 Start: 2647, Stop: 3009, Start Num: 5

Candidate Starts for Phergie_4:

(Start: 5 @2647 has 287 MA's), (13, 2698), (18, 2791), (23, 2848), (32, 2950), (33, 2962), (34, 2971),

Gene: Phipps_4 Start: 2647, Stop: 3012, Start Num: 5

Candidate Starts for Phipps_4:

(Start: 4 @2632 has 9 MA's), (Start: 5 @2647 has 287 MA's), (13, 2701), (18, 2794), (23, 2851), (32, 2953), (33, 2965), (34, 2974),

Gene: Phleuron_4 Start: 2647, Stop: 3009, Start Num: 5

Candidate Starts for Phleuron_4:

(Start: 5 @2647 has 287 MA's), (13, 2698), (18, 2791), (23, 2848), (32, 2950), (33, 2962), (34, 2971),

Gene: PhrankReynolds_4 Start: 2647, Stop: 3009, Start Num: 5

Candidate Starts for PhrankReynolds_4:

(Start: 5 @2647 has 287 MA's), (13, 2698), (18, 2791), (23, 2848), (32, 2950), (33, 2962), (34, 2971),

Gene: Phrappuccino_25 Start: 13081, Stop: 13407, Start Num: 9

Candidate Starts for Phrappuccino_25:

(1, 12919), (Start: 9 @13081 has 2 MA's), (14, 13105), (17, 13180), (21, 13249), (29, 13309), (34, 13381), (35, 13396),

Gene: PhrodoBaggins_4 Start: 2648, Stop: 3013, Start Num: 5

Candidate Starts for PhrodoBaggins_4:

(Start: 5 @2648 has 287 MA's), (13, 2702), (18, 2795), (23, 2852), (32, 2954), (33, 2966), (34, 2975),

Gene: Phunky_4 Start: 2647, Stop: 3012, Start Num: 5

Candidate Starts for Phunky_4:

(Start: 4 @2632 has 9 MA's), (Start: 5 @2647 has 287 MA's), (13, 2701), (18, 2794), (23, 2851), (32, 2953), (33, 2965), (34, 2974),

Gene: Piglet_004 Start: 2633, Stop: 3013, Start Num: 4

Candidate Starts for Piglet_004:

(Start: 4 @2633 has 9 MA's), (Start: 5 @2648 has 287 MA's), (13, 2702), (18, 2795), (23, 2852), (32, 2954), (33, 2966), (34, 2975),

Gene: PinheadLarry_4 Start: 2648, Stop: 3013, Start Num: 5

Candidate Starts for PinheadLarry_4:

(Start: 5 @2648 has 287 MA's), (13, 2702), (18, 2795), (23, 2852), (32, 2954), (33, 2966), (34, 2975),

Gene: Pinkman_4 Start: 2647, Stop: 3009, Start Num: 5

Candidate Starts for Pinkman_4:

(Start: 5 @2647 has 287 MA's), (13, 2698), (18, 2791), (23, 2848), (32, 2950), (33, 2962), (34, 2971),

Gene: Pipsqueak_4 Start: 2648, Stop: 3013, Start Num: 5

Candidate Starts for Pipsqueak_4:

(Start: 4 @2633 has 9 MA's), (Start: 5 @2648 has 287 MA's), (13, 2702), (18, 2795), (23, 2852), (32, 2954), (33, 2966), (34, 2975),

Gene: Placalicious_4 Start: 2648, Stop: 3013, Start Num: 5

Candidate Starts for Placalicious_4:

(Start: 5 @2648 has 287 MA's), (13, 2702), (18, 2795), (23, 2852), (32, 2954), (33, 2966), (34, 2975),

Gene: Plata_4 Start: 2647, Stop: 3012, Start Num: 5

Candidate Starts for Plata_4:

(Start: 5 @2647 has 287 MA's), (13, 2701), (18, 2794), (23, 2851), (32, 2953), (33, 2965), (34, 2974),

Gene: Plmatters_4 Start: 2647, Stop: 3012, Start Num: 5

Candidate Starts for Plmatters_4:

(Start: 4 @2632 has 9 MA's), (Start: 5 @2647 has 287 MA's), (13, 2701), (18, 2794), (23, 2851), (32, 2953), (33, 2965), (34, 2974),

Gene: Podrick_4 Start: 2648, Stop: 3013, Start Num: 5

Candidate Starts for Podrick_4:

(Start: 4 @2633 has 9 MA's), (Start: 5 @2648 has 287 MA's), (13, 2702), (18, 2795), (23, 2852), (32, 2954), (33, 2966), (34, 2975),

Gene: Pops_4 Start: 2633, Stop: 3013, Start Num: 4

Candidate Starts for Pops_4:

(Start: 4 @2633 has 9 MA's), (Start: 5 @2648 has 287 MA's), (13, 2702), (18, 2795), (23, 2852), (32, 2954), (33, 2966), (34, 2975),

Gene: Potter_4 Start: 2648, Stop: 3013, Start Num: 5

Candidate Starts for Potter_4:

(Start: 5 @2648 has 287 MA's), (13, 2702), (18, 2795), (23, 2852), (32, 2954), (33, 2966), (34, 2975),

Gene: Prickles_4 Start: 2648, Stop: 3019, Start Num: 5

Candidate Starts for Prickles_4:

(Start: 5 @2648 has 287 MA's), (13, 2708), (18, 2801), (23, 2858), (32, 2960), (33, 2972), (34, 2981),

Gene: ProfessorX_4 Start: 2648, Stop: 3010, Start Num: 5

Candidate Starts for ProfessorX_4:

(Start: 4 @2633 has 9 MA's), (Start: 5 @2648 has 287 MA's), (13, 2699), (18, 2792), (23, 2849), (32, 2951), (33, 2963), (34, 2972),

Gene: Puhltonio_4 Start: 2647, Stop: 3012, Start Num: 5

Candidate Starts for Puhltonio_4:

(Start: 4 @2632 has 9 MA's), (Start: 5 @2647 has 287 MA's), (13, 2701), (18, 2794), (23, 2851), (32, 2953), (33, 2965), (34, 2974),

Gene: QueenBeane_4 Start: 2648, Stop: 3010, Start Num: 5

Candidate Starts for QueenBeane_4:

(Start: 4 @2633 has 9 MA's), (Start: 5 @2648 has 287 MA's), (13, 2699), (18, 2792), (23, 2849), (32, 2951), (33, 2963), (34, 2972),

Gene: Quisquilliae_4 Start: 2648, Stop: 3013, Start Num: 5

Candidate Starts for Quisquilliae_4:

(Start: 4 @2633 has 9 MA's), (Start: 5 @2648 has 287 MA's), (13, 2702), (18, 2795), (23, 2852), (32, 2954), (33, 2966), (34, 2975),

Gene: RedMaple_4 Start: 2648, Stop: 3010, Start Num: 5

Candidate Starts for RedMaple_4:

(Start: 4 @2633 has 9 MA's), (Start: 5 @2648 has 287 MA's), (13, 2699), (18, 2792), (23, 2849), (32, 2951), (33, 2963), (34, 2972),

Gene: RedRaider89_5 Start: 2881, Stop: 3246, Start Num: 5

Candidate Starts for RedRaider89_5:

(Start: 4 @2866 has 9 MA's), (Start: 5 @2881 has 287 MA's), (13, 2935), (18, 3028), (23, 3085), (32, 3187), (33, 3199), (34, 3208),

Gene: Ricotta_4 Start: 2647, Stop: 3012, Start Num: 5

Candidate Starts for Ricotta_4:

(Start: 5 @2647 has 287 MA's), (13, 2701), (18, 2794), (23, 2851), (32, 2953), (33, 2965), (34, 2974),

Gene: Riggan_4 Start: 2633, Stop: 3016, Start Num: 4

Candidate Starts for Riggan_4:

(Start: 4 @2633 has 9 MA's), (Start: 5 @2648 has 287 MA's), (13, 2705), (18, 2798), (23, 2855), (32, 2957), (33, 2969), (34, 2978),

Gene: Rimu_4 Start: 2647, Stop: 3009, Start Num: 5

Candidate Starts for Rimu_4:

(Start: 5 @2647 has 287 MA's), (13, 2698), (18, 2791), (23, 2848), (32, 2950), (33, 2962), (34, 2971),

Gene: Riverton_4 Start: 2632, Stop: 3012, Start Num: 4

Candidate Starts for Riverton_4:

(Start: 4 @2632 has 9 MA's), (Start: 5 @2647 has 287 MA's), (13, 2701), (18, 2794), (23, 2851), (32, 2953), (33, 2965), (34, 2974),

Gene: Robyn_4 Start: 2649, Stop: 3014, Start Num: 5

Candidate Starts for Robyn_4:

(Start: 4 @2634 has 9 MA's), (Start: 5 @2649 has 287 MA's), (13, 2703), (18, 2796), (23, 2853), (32, 2955), (33, 2967), (34, 2976),

Gene: Roliet_4 Start: 2647, Stop: 3012, Start Num: 5

Candidate Starts for Roliet_4:

(Start: 4 @2632 has 9 MA's), (Start: 5 @2647 has 287 MA's), (13, 2701), (18, 2794), (23, 2851), (32, 2953), (33, 2965), (34, 2974),

Gene: Roscoe_5 Start: 2881, Stop: 3246, Start Num: 5

Candidate Starts for Roscoe_5:

(Start: 4 @2866 has 9 MA's), (Start: 5 @2881 has 287 MA's), (13, 2935), (18, 3028), (23, 3085), (32, 3187), (33, 3199), (34, 3208),

Gene: Roy17_4 Start: 2648, Stop: 3013, Start Num: 5

Candidate Starts for Roy17_4:

(Start: 5 @2648 has 287 MA's), (13, 2702), (18, 2795), (23, 2852), (32, 2954), (33, 2966), (34, 2975),

Gene: SDcharge11_4 Start: 2648, Stop: 3013, Start Num: 5

Candidate Starts for SDcharge11_4:

(Start: 4 @2633 has 9 MA's), (Start: 5 @2648 has 287 MA's), (13, 2702), (18, 2795), (23, 2852), (32, 2954), (33, 2966), (34, 2975),

Gene: Sagefire_82 Start: 49439, Stop: 49116, Start Num: 8

Candidate Starts for Sagefire_82:

(Start: 8 @49439 has 8 MA's), (10, 49433), (12, 49418), (20, 49283), (21, 49271), (22, 49265), (29, 49211), (32, 49160),

Gene: Salazzle_4 Start: 2647, Stop: 3012, Start Num: 5

Candidate Starts for Salazzle_4:

(Start: 5 @2647 has 287 MA's), (13, 2701), (18, 2794), (23, 2851), (32, 2953), (33, 2965), (34, 2974),

Gene: SallyH_5 Start: 2633, Stop: 3010, Start Num: 4

Candidate Starts for SallyH_5:

(Start: 4 @2633 has 9 MA's), (Start: 5 @2648 has 287 MA's), (13, 2699), (18, 2792), (23, 2849), (32, 2951), (33, 2963), (34, 2972),

Gene: Samaymay_4 Start: 2648, Stop: 3010, Start Num: 5

Candidate Starts for Samaymay_4:

(Start: 4 @2633 has 9 MA's), (Start: 5 @2648 has 287 MA's), (13, 2699), (18, 2792), (23, 2849), (32, 2951), (33, 2963), (34, 2972),

Gene: SarFire_95 Start: 52708, Stop: 52385, Start Num: 8

Candidate Starts for SarFire_95:

(2, 52840), (3, 52810), (Start: 8 @52708 has 8 MA's), (10, 52702), (12, 52687), (17, 52609), (19, 52582), (20, 52552), (21, 52540), (25, 52516), (29, 52480), (30, 52447), (32, 52429),

Gene: SassyCat97_4 Start: 2648, Stop: 3010, Start Num: 5

Candidate Starts for SassyCat97_4:

(Start: 4 @2633 has 9 MA's), (Start: 5 @2648 has 287 MA's), (13, 2699), (18, 2792), (23, 2849), (32, 2951), (33, 2963), (34, 2972),

Gene: Schadenfreude_4 Start: 2648, Stop: 3010, Start Num: 5

Candidate Starts for Schadenfreude_4:

(Start: 4 @2633 has 9 MA's), (Start: 5 @2648 has 287 MA's), (13, 2699), (18, 2792), (23, 2849), (31, 2936), (32, 2951), (33, 2963), (34, 2972),

Gene: Schueller_4 Start: 2648, Stop: 3013, Start Num: 5

Candidate Starts for Schueller_4:

(Start: 5 @2648 has 287 MA's), (13, 2702), (18, 2795), (23, 2852), (32, 2954), (33, 2966), (34, 2975),

Gene: Scoot17C_4 Start: 2648, Stop: 3013, Start Num: 5

Candidate Starts for Scoot17C_4:

(Start: 5 @2648 has 287 MA's), (13, 2702), (18, 2795), (23, 2852), (32, 2954), (33, 2966), (34, 2975),

Gene: Scrick_4 Start: 2648, Stop: 3013, Start Num: 5

Candidate Starts for Scrick_4:

(Start: 4 @2633 has 9 MA's), (Start: 5 @2648 has 287 MA's), (13, 2702), (18, 2795), (23, 2852), (32, 2954), (33, 2966), (34, 2975),

Gene: Selr12_4 Start: 2647, Stop: 3012, Start Num: 5

Candidate Starts for Selr12_4:

(Start: 4 @2632 has 9 MA's), (Start: 5 @2647 has 287 MA's), (13, 2701), (18, 2794), (23, 2851), (32, 2953), (33, 2965), (34, 2974),

Gene: Serendipity_4 Start: 2648, Stop: 3013, Start Num: 5

Candidate Starts for Serendipity_4:

(Start: 5 @2648 has 287 MA's), (13, 2702), (18, 2795), (23, 2852), (32, 2954), (33, 2966), (34, 2975),

Gene: Serpentine_004 Start: 2633, Stop: 3013, Start Num: 4

Candidate Starts for Serpentine_004:

(Start: 4 @2633 has 9 MA's), (Start: 5 @2648 has 287 MA's), (13, 2702), (18, 2795), (23, 2852), (32, 2954), (33, 2966), (34, 2975),

Gene: Settecandela_25 Start: 13081, Stop: 13407, Start Num: 9

Candidate Starts for Settecandela_25:

(1, 12919), (Start: 9 @13081 has 2 MA's), (14, 13105), (17, 13180), (21, 13249), (29, 13309), (34, 13381), (35, 13396),

Gene: ShadowBud_4 Start: 2648, Stop: 3013, Start Num: 5

Candidate Starts for ShadowBud_4:

(Start: 4 @2633 has 9 MA's), (Start: 5 @2648 has 287 MA's), (13, 2702), (18, 2795), (23, 2852), (32, 2954), (33, 2966), (34, 2975),

Gene: Sheila_4 Start: 2647, Stop: 3012, Start Num: 5

Candidate Starts for Sheila_4:

(Start: 4 @2632 has 9 MA's), (Start: 5 @2647 has 287 MA's), (13, 2701), (18, 2794), (23, 2851), (32, 2953), (33, 2965), (34, 2974),

Gene: ShiVal_4 Start: 2648, Stop: 3013, Start Num: 5

Candidate Starts for ShiVal_4:

(Start: 4 @2633 has 9 MA's), (Start: 5 @2648 has 287 MA's), (13, 2702), (18, 2795), (23, 2852), (32, 2954), (33, 2966), (34, 2975),

Gene: Sigman_4 Start: 2648, Stop: 3010, Start Num: 5

Candidate Starts for Sigman_4:

(Start: 5 @2648 has 287 MA's), (13, 2699), (18, 2792), (23, 2849), (32, 2951), (33, 2963), (34, 2972),

Gene: SilverBell_4 Start: 2648, Stop: 3013, Start Num: 5

Candidate Starts for SilverBell_4:

(Start: 5 @2648 has 287 MA's), (13, 2702), (18, 2795), (23, 2852), (32, 2954), (33, 2966), (34, 2975),

Gene: Simielle_4 Start: 2648, Stop: 3013, Start Num: 5

Candidate Starts for Simielle_4:

(Start: 4 @2633 has 9 MA's), (Start: 5 @2648 has 287 MA's), (13, 2702), (18, 2795), (23, 2852), (32, 2954), (33, 2966), (34, 2975),

Gene: SirBeauregard_4 Start: 2648, Stop: 3010, Start Num: 5

Candidate Starts for SirBeauregard_4:

(Start: 5 @2648 has 287 MA's), (13, 2699), (18, 2792), (23, 2849), (32, 2951), (33, 2963), (34, 2972),

Gene: Skippy_4 Start: 2648, Stop: 3013, Start Num: 5

Candidate Starts for Skippy_4:

(Start: 5 @2648 has 287 MA's), (13, 2702), (18, 2795), (23, 2852), (32, 2954), (33, 2966), (34, 2975),

Gene: Slatt_4 Start: 2648, Stop: 3013, Start Num: 5

Candidate Starts for Slatt_4:

(Start: 4 @2633 has 9 MA's), (Start: 5 @2648 has 287 MA's), (13, 2702), (18, 2795), (23, 2852), (32, 2954), (33, 2966), (34, 2975),

Gene: Soile_4 Start: 2647, Stop: 3012, Start Num: 5

Candidate Starts for Soile_4:

(Start: 5 @2647 has 287 MA's), (13, 2701), (18, 2794), (23, 2851), (32, 2953), (33, 2965), (34, 2974),

Gene: Solosis_4 Start: 2648, Stop: 3013, Start Num: 5

Candidate Starts for Solosis_4:

(Start: 5 @2648 has 287 MA's), (13, 2702), (18, 2795), (23, 2852), (32, 2954), (33, 2966), (34, 2975),

Gene: Sophia_4 Start: 2648, Stop: 3013, Start Num: 5

Candidate Starts for Sophia_4:

(Start: 5 @2648 has 287 MA's), (13, 2702), (18, 2795), (23, 2852), (32, 2954), (33, 2966), (34, 2975),

Gene: Soto_4 Start: 2648, Stop: 3010, Start Num: 5

Candidate Starts for Soto_4:

(Start: 5 @2648 has 287 MA's), (13, 2699), (18, 2792), (23, 2849), (32, 2951), (33, 2963), (34, 2972),

Gene: Spartan300_4 Start: 2648, Stop: 3010, Start Num: 5

Candidate Starts for Spartan300_4:

(Start: 5 @2648 has 287 MA's), (13, 2699), (18, 2792), (23, 2849), (32, 2951), (33, 2963), (34, 2972),

Gene: Squid_4 Start: 2648, Stop: 3010, Start Num: 5

Candidate Starts for Squid_4:

(Start: 4 @2633 has 9 MA's), (Start: 5 @2648 has 287 MA's), (13, 2699), (18, 2792), (23, 2849), (32, 2951), (33, 2963), (34, 2972),

Gene: Squiggle_4 Start: 2648, Stop: 3013, Start Num: 5

Candidate Starts for Squiggle_4:

(Start: 5 @2648 has 287 MA's), (13, 2702), (18, 2795), (23, 2852), (32, 2954), (33, 2966), (34, 2975),

Gene: StrongArm_84 Start: 50018, Stop: 49665, Start Num: 8

Candidate Starts for StrongArm_84:

(2, 50150), (3, 50120), (Start: 8 @50018 has 8 MA's), (10, 50012), (19, 49892), (20, 49862), (21, 49850), (25, 49826), (29, 49790), (32, 49739), (36, 49691),

Gene: Struggle_4 Start: 2647, Stop: 3009, Start Num: 5

Candidate Starts for Struggle_4:

(Start: 4 @2632 has 9 MA's), (Start: 5 @2647 has 287 MA's), (13, 2698), (18, 2791), (23, 2848), (32, 2950), (33, 2962), (34, 2971),

Gene: Suffolk_4 Start: 2648, Stop: 3013, Start Num: 5

Candidate Starts for Suffolk_4:

(Start: 4 @2633 has 9 MA's), (Start: 5 @2648 has 287 MA's), (13, 2702), (18, 2795), (23, 2852), (32, 2954), (33, 2966), (34, 2975),

Gene: Surely_4 Start: 2648, Stop: 3013, Start Num: 5

Candidate Starts for Surely_4:

(Start: 5 @2648 has 287 MA's), (13, 2702), (18, 2795), (23, 2852), (32, 2954), (33, 2966), (34, 2975),

Gene: Swiphy_4 Start: 2647, Stop: 3012, Start Num: 5

Candidate Starts for Swiphy_4:

(Start: 5 @2647 has 287 MA's), (13, 2701), (18, 2794), (23, 2851), (32, 2953), (33, 2965), (34, 2974),

Gene: Swish_4 Start: 2648, Stop: 3013, Start Num: 5

Candidate Starts for Swish_4:

(Start: 5 @2648 has 287 MA's), (13, 2702), (18, 2795), (23, 2852), (32, 2954), (33, 2966), (34, 2975),

Gene: TallGrassMM_4 Start: 2648, Stop: 3013, Start Num: 5

Candidate Starts for TallGrassMM_4:

(Start: 5 @2648 has 287 MA's), (13, 2702), (18, 2795), (23, 2852), (32, 2954), (33, 2966), (34, 2975),

Gene: Taraxa_4 Start: 2647, Stop: 3012, Start Num: 5

Candidate Starts for Taraxa_4:

(Start: 5 @2647 has 287 MA's), (13, 2701), (18, 2794), (23, 2851), (32, 2953), (33, 2965), (34, 2974),

Gene: Telesworld_4 Start: 2648, Stop: 3013, Start Num: 5

Candidate Starts for Telesworld_4:

(Start: 5 @2648 has 287 MA's), (13, 2702), (18, 2795), (23, 2852), (32, 2954), (33, 2966), (34, 2975),

Gene: Thor_95 Start: 52066, Stop: 51743, Start Num: 8

Candidate Starts for Thor_95:

(2, 52198), (3, 52168), (Start: 8 @52066 has 8 MA's), (10, 52060), (12, 52045), (17, 51967), (19, 51940), (20, 51910), (21, 51898), (25, 51874), (29, 51838), (30, 51805), (32, 51787),

Gene: Thora_4 Start: 2648, Stop: 3010, Start Num: 5

Candidate Starts for Thora_4:

(Start: 5 @2648 has 287 MA's), (13, 2699), (18, 2792), (23, 2849), (32, 2951), (33, 2963), (34, 2972),

Gene: ThreeOh3D2_4 Start: 2648, Stop: 3010, Start Num: 5

Candidate Starts for ThreeOh3D2_4:

(Start: 4 @2633 has 9 MA's), (Start: 5 @2648 has 287 MA's), (13, 2699), (18, 2792), (23, 2849), (32, 2951), (33, 2963), (34, 2972),

Gene: Thunderbird_4 Start: 2647, Stop: 3012, Start Num: 5

Candidate Starts for Thunderbird_4:

(Start: 5 @2647 has 287 MA's), (13, 2701), (18, 2794), (23, 2851), (32, 2953), (33, 2965), (34, 2974),

Gene: Timmi_4 Start: 2648, Stop: 3013, Start Num: 5

Candidate Starts for Timmi_4:

(Start: 5 @2648 has 287 MA's), (13, 2702), (18, 2795), (23, 2852), (32, 2954), (33, 2966), (34, 2975),

Gene: TomBombadil_4 Start: 2648, Stop: 3013, Start Num: 5

Candidate Starts for TomBombadil_4:

(Start: 5 @2648 has 287 MA's), (13, 2702), (18, 2795), (23, 2852), (32, 2954), (33, 2966), (34, 2975),

Gene: Tomlarah_4 Start: 2647, Stop: 3012, Start Num: 5

Candidate Starts for Tomlarah_4:

(Start: 4 @2632 has 9 MA's), (Start: 5 @2647 has 287 MA's), (13, 2701), (18, 2794), (23, 2851), (32, 2953), (33, 2965), (34, 2974),

Gene: Toni_4 Start: 2648, Stop: 3013, Start Num: 5

Candidate Starts for Toni_4:

(Start: 5 @2648 has 287 MA's), (13, 2702), (18, 2795), (23, 2852), (32, 2954), (33, 2966), (34, 2975),

Gene: TooFast2Furius_5 Start: 2866, Stop: 3246, Start Num: 4

Candidate Starts for TooFast2Furius_5:

(Start: 4 @2866 has 9 MA's), (Start: 5 @2881 has 287 MA's), (13, 2935), (18, 3028), (23, 3085), (32, 3187), (33, 3199), (34, 3208),

Gene: Tooj_4 Start: 2648, Stop: 3010, Start Num: 5

Candidate Starts for Tooj_4:

(Start: 4 @2633 has 9 MA's), (Start: 5 @2648 has 287 MA's), (13, 2699), (18, 2792), (23, 2849), (32, 2951), (33, 2963), (34, 2972),

Gene: Triad_4 Start: 2648, Stop: 3013, Start Num: 5

Candidate Starts for Triad_4:

(Start: 4 @2633 has 9 MA's), (Start: 5 @2648 has 287 MA's), (13, 2702), (18, 2795), (23, 2852), (32, 2954), (33, 2966), (34, 2975),

Gene: Trine_47 Start: 36753, Stop: 36430, Start Num: 7

Candidate Starts for Trine_47:

(Start: 7 @36753 has 1 MA's), (11, 36726), (15, 36696), (18, 36624), (21, 36576), (24, 36555), (28, 36522),

Gene: True_4 Start: 2648, Stop: 3010, Start Num: 5

Candidate Starts for True_4:

(Start: 5 @2648 has 287 MA's), (13, 2699), (18, 2792), (23, 2849), (32, 2951), (33, 2963), (34, 2972),

Gene: Trypo_4 Start: 2647, Stop: 3009, Start Num: 5

Candidate Starts for Trypo_4:

(Start: 5 @2647 has 287 MA's), (13, 2698), (18, 2791), (23, 2848), (32, 2950), (33, 2962), (34, 2971),

Gene: TyrionL_4 Start: 2647, Stop: 3009, Start Num: 5

Candidate Starts for TyrionL_4:

(Start: 5 @2647 has 287 MA's), (13, 2698), (18, 2791), (23, 2848), (32, 2950), (33, 2962), (34, 2971),

Gene: UAch1_4 Start: 2648, Stop: 3013, Start Num: 5

Candidate Starts for UAch1_4:

(Start: 5 @2648 has 287 MA's), (13, 2702), (18, 2795), (23, 2852), (32, 2954), (33, 2966), (34, 2975),

Gene: UncleHowie_4 Start: 2648, Stop: 3013, Start Num: 5

Candidate Starts for UncleHowie_4:

(Start: 5 @2648 has 287 MA's), (13, 2702), (18, 2795), (23, 2852), (32, 2954), (33, 2966), (34, 2975),

Gene: Usavi_4 Start: 2648, Stop: 3010, Start Num: 5

Candidate Starts for Usavi_4:

(Start: 5 @2648 has 287 MA's), (13, 2699), (18, 2792), (23, 2849), (32, 2951), (33, 2963), (34, 2972),

Gene: Vaishali24_4 Start: 2633, Stop: 3013, Start Num: 4

Candidate Starts for Vaishali24_4:

(Start: 4 @2633 has 9 MA's), (Start: 5 @2648 has 287 MA's), (13, 2702), (18, 2795), (23, 2852), (32, 2954), (33, 2966), (34, 2975),

Gene: Valjean_4 Start: 2648, Stop: 3013, Start Num: 5

Candidate Starts for Valjean_4:

(Start: 5 @2648 has 287 MA's), (13, 2702), (18, 2795), (23, 2852), (32, 2954), (33, 2966), (34, 2975),

Gene: Vaticameos_4 Start: 2648, Stop: 3010, Start Num: 5

Candidate Starts for Vaticameos_4:

(Start: 5 @2648 has 287 MA's), (13, 2699), (18, 2792), (23, 2849), (32, 2951), (33, 2963), (34, 2972),

Gene: Vectra_4 Start: 2647, Stop: 3012, Start Num: 5

Candidate Starts for Vectra_4:

(Start: 5 @2647 has 287 MA's), (13, 2701), (18, 2794), (23, 2851), (32, 2953), (33, 2965), (34, 2974),

Gene: Veritas_4 Start: 2647, Stop: 3009, Start Num: 5

Candidate Starts for Veritas_4:

(Start: 5 @2647 has 287 MA's), (13, 2698), (18, 2791), (23, 2848), (32, 2950), (33, 2962), (34, 2971),

Gene: Virapocalypse_4 Start: 2648, Stop: 3010, Start Num: 5

Candidate Starts for Virapocalypse_4:

(Start: 4 @2633 has 9 MA's), (Start: 5 @2648 has 287 MA's), (13, 2699), (18, 2792), (23, 2849), (32, 2951), (33, 2963), (34, 2972),

Gene: Virgeve_4 Start: 2648, Stop: 3013, Start Num: 5

Candidate Starts for Virgeve_4:

(Start: 5 @2648 has 287 MA's), (13, 2702), (18, 2795), (23, 2852), (32, 2954), (33, 2966), (34, 2975),

Gene: Vista_4 Start: 2648, Stop: 3013, Start Num: 5

Candidate Starts for Vista_4:

(Start: 5 @2648 has 287 MA's), (13, 2702), (18, 2795), (23, 2852), (32, 2954), (33, 2966), (34, 2975),

Gene: Vivaldi_4 Start: 2648, Stop: 3010, Start Num: 5

Candidate Starts for Vivaldi_4:

(Start: 4 @2633 has 9 MA's), (Start: 5 @2648 has 287 MA's), (13, 2699), (18, 2792), (23, 2849), (32, 2951), (33, 2963), (34, 2972),

Gene: Vortex_4 Start: 2648, Stop: 3013, Start Num: 5

Candidate Starts for Vortex_4:

(Start: 5 @2648 has 287 MA's), (13, 2702), (18, 2795), (23, 2852), (32, 2954), (33, 2966), (34, 2975),

Gene: Wallhey_4 Start: 2647, Stop: 3009, Start Num: 5

Candidate Starts for Wallhey_4:

(Start: 5 @2647 has 287 MA's), (13, 2698), (18, 2791), (23, 2848), (32, 2950), (33, 2962), (34, 2971),

Gene: Waterdiva_4 Start: 2648, Stop: 3013, Start Num: 5

Candidate Starts for Waterdiva_4:

(Start: 5 @2648 has 287 MA's), (13, 2702), (18, 2795), (23, 2852), (32, 2954), (33, 2966), (34, 2975),

Gene: Weher20_4 Start: 2647, Stop: 3009, Start Num: 5

Candidate Starts for Weher20_4:

(Start: 5 @2647 has 287 MA's), (13, 2698), (18, 2791), (23, 2848), (32, 2950), (33, 2962), (34, 2971),

Gene: Windsor_4 Start: 2648, Stop: 3010, Start Num: 5

Candidate Starts for Windsor_4:

(Start: 5 @2648 has 287 MA's), (13, 2699), (18, 2792), (23, 2849), (32, 2951), (33, 2963), (34, 2972),

Gene: Xavier_4 Start: 2648, Stop: 3013, Start Num: 5

Candidate Starts for Xavier_4:

(Start: 5 @2648 has 287 MA's), (13, 2702), (18, 2795), (23, 2852), (32, 2954), (33, 2966), (34, 2975),

Gene: Yoshand_4 Start: 2648, Stop: 3010, Start Num: 5

Candidate Starts for Yoshand_4:

(Start: 4 @2633 has 9 MA's), (Start: 5 @2648 has 287 MA's), (13, 2699), (18, 2792), (23, 2849), (32, 2951), (33, 2963), (34, 2972),

Gene: YouGoGlencoco_4 Start: 2648, Stop: 3010, Start Num: 5

Candidate Starts for YouGoGlencoco_4:

(Start: 4 @2633 has 9 MA's), (Start: 5 @2648 has 287 MA's), (13, 2699), (18, 2792), (23, 2849), (32, 2951), (33, 2963), (34, 2972),

Gene: Zaider_5 Start: 2881, Stop: 3243, Start Num: 5

Candidate Starts for Zaider_5:

(Start: 5 @2881 has 287 MA's), (13, 2932), (18, 3025), (23, 3082), (32, 3184), (33, 3196), (34, 3205),

Gene: Zelda_4 Start: 2648, Stop: 3013, Start Num: 5

Candidate Starts for Zelda_4:

(Start: 5 @2648 has 287 MA's), (13, 2702), (18, 2795), (23, 2852), (32, 2954), (33, 2966), (34, 2975),

Gene: Zonia_4 Start: 2647, Stop: 3009, Start Num: 5

Candidate Starts for Zonia_4:

(Start: 5 @2647 has 287 MA's), (13, 2698), (18, 2791), (23, 2848), (32, 2950), (33, 2962), (34, 2971),