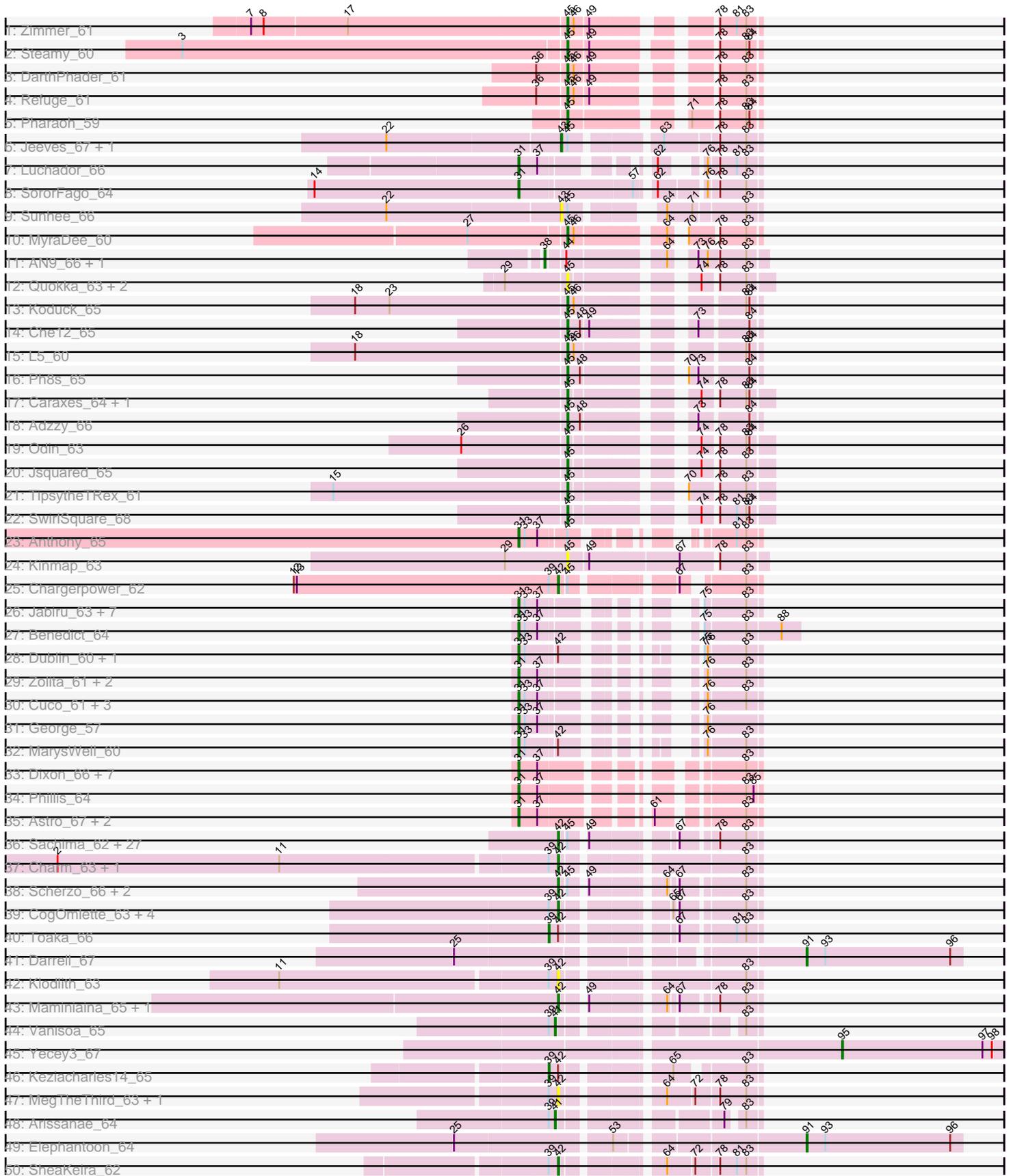
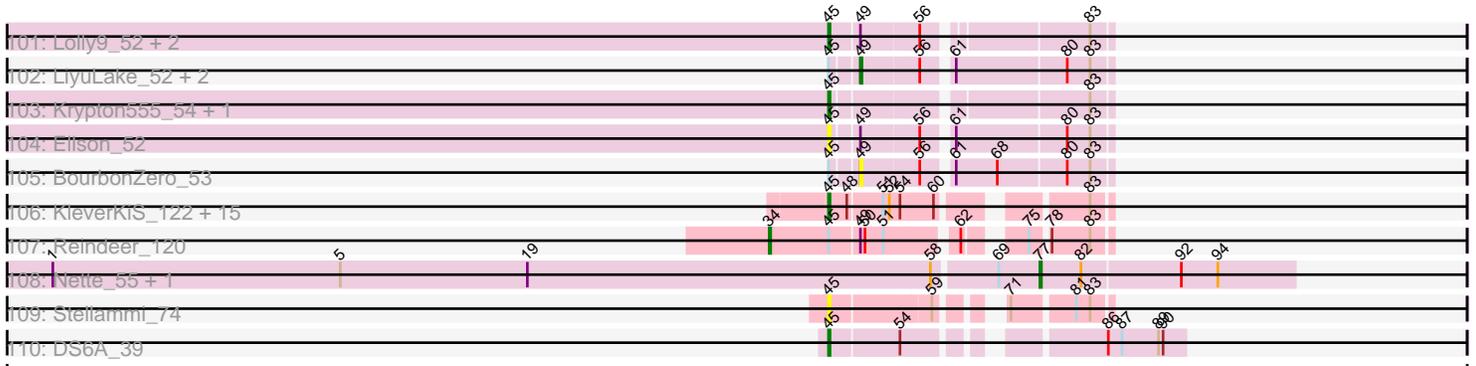


Pham 290771



Pham 290771



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 290771 Report

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

Pham number 290771 has 306 members, 45 are drafts.

Phages represented in each track:

- Track 1 : Zimmer_61
- Track 2 : Steamy_60
- Track 3 : DarthPhader_61
- Track 4 : Refuge_61
- Track 5 : Pharaoh_59
- Track 6 : Jeeves_67, Gail_65
- Track 7 : Luchador_66
- Track 8 : SororFago_64
- Track 9 : Sunhee_66
- Track 10 : MyraDee_60
- Track 11 : AN9_66, ANI8_66
- Track 12 : Quokka_63, MajorMajor_63, Bradman_64
- Track 13 : Koduck_65
- Track 14 : Che12_65
- Track 15 : L5_60
- Track 16 : Ph8s_65
- Track 17 : Caraxes_64, Superchunk_63
- Track 18 : Adzzy_66
- Track 19 : Odin_63
- Track 20 : Jsquared_65
- Track 21 : TopsytheTRex_61
- Track 22 : SwirlSquare_68
- Track 23 : Anthony_65
- Track 24 : Kinmap_63
- Track 25 : Chargerpower_62
- Track 26 : Jabiru_63, Airmid_62, PetterN_67, UnionJack_63, Scorpia_64, Chadwick_64, EITiger69_64, Naca_62
- Track 27 : Benedict_64
- Track 28 : Dublin_60, Micasa_60
- Track 29 : Zolita_61, SydNat_62, Ghoulboy_62
- Track 30 : Cuco_61, Milcery_60, Coog_59, Midas2_59
- Track 31 : George_57
- Track 32 : MarysWell_60
- Track 33 : Dixon_66, Danforth_67, Roary_68, Saintus_62, Expelliarmus_64, Stephig9_66, Smeadley_67, Caitlin_65
- Track 34 : Phillis_64
- Track 35 : Astro_67, NearlyHeadless_67, Groundhog_66

- Track 36 : Sachima_62, Hanray_64, EmyBug_63, Holecx_64, Alma_64, PackMan_65, Conquerage_64, Ayanochan_64, HortumSL17_67, Phaeder_66, Eidsmoe_64, Priya_64, Beemo_67, EdogawaKiddo_64, Jiawan_63, Qobbit_64, ExplosioNervosa_64, RyeScarlet_68, Pioneer_67, Catalina_68, Tubs_66, Onglai_64, Phonnegut_67, Aliter_67, Lilleskat_62, Fayely_64, Myxus_66, Spouty_64
- Track 37 : Charm_63, DreamTeam1_63
- Track 38 : Scherzo_66, Ugenie5_62, LoneWolf_66
- Track 39 : CogOmlette_63, Minispark_63, Rahalelujah_65, Bellris_63, WorldCup_63
- Track 40 : Toaka_66
- Track 41 : Darrell_67
- Track 42 : Klodlith_63
- Track 43 : Maminiaina_65, BogosyJay_65
- Track 44 : Vanisoa_65
- Track 45 : Yecey3_67
- Track 46 : Keziacharles14_65
- Track 47 : MegTheThird_63, Celestialunch_63
- Track 48 : Arissanae_64
- Track 49 : Elephantoon_64
- Track 50 : SheaKeira_62
- Track 51 : Jarvi_60, Rosmarinus_60, CREW_60, Boiiii_60, Topper_60, BGluviae_60, Dalmuri_60, Peel_60, Hyperbowlee_60, Asayake_60, Jeckyll_60, Durfee_60, CaseJules_62, BEEST_60, Inky_60, Joy99_60, Capricorn_60, Lunahalos_60, CallaLilly_60, Belladonna_60, Adephagia_60, Ageofdapage_63, Homura_60, Blizzard_60, Tachez_60, Spock_60, Twitch_60, ShiaSurprise_61, Piatt_60, Llorens_60
- Track 52 : Veliki_61, MacKat_55, Padpat_62, Devera_67, Clipper_63, JAWS_60, TaiwanKao_62, CrimD_61, Dole_65, Zavala_62, Mynx_61, Illumine_65
- Track 53 : DartGoblin_63, Bella96_61
- Track 54 : Apocalypse_63, Angelica_60
- Track 55 : Pisa4_54, Pisa1_60
- Track 56 : Stinson_61
- Track 57 : TruffulaTree_60, BarrelRoll_60, Rapunzel97_61, Slimphazie_60
- Track 58 : Anma_62
- Track 59 : Prithvi_61, LindNT_59, Murucutumbu_61, TreyKay_61
- Track 60 : LaterM_60
- Track 61 : Bern_61, BaghaKamala_59, CheetoDust_59
- Track 62 : DrHayes_61, SamuelLPlaqson_61, Urkel_61, TiniBug_61
- Track 63 : Atiba_61, AlishaPH_60, Padfoot_60
- Track 64 : Guanica15_63, Efra2_64, Yunkel11_63
- Track 65 : Jayhawk_61, Anaya_62
- Track 66 : Ramen_61, Zabiza_55, ActinUp_60, HedwigODU_60
- Track 67 : Megsy_62
- Track 68 : LastHope_63
- Track 69 : Ganymede_61, QuincyRose_59
- Track 70 : Adonis_60
- Track 71 : YoureAdopted_59
- Track 72 : Curiosium_64
- Track 73 : Tiri_61
- Track 74 : Beezoo_62
- Track 75 : Emerson_61
- Track 76 : Deby_60
- Track 77 : Pokerus_59
- Track 78 : TingHuaYa_62

- Track 79 : MeaningOfLife_61
- Track 80 : Sulley_60
- Track 81 : Geraldini_63
- Track 82 : Kraw_63, Eponine_65, YasnayaPolyana_62, Taquito_62, Malthus_64, Juliette_65, Slarp_63, Fionnbharth_63, Mitti_63, Wintermute_63, Qhanda_65, Chancellor_63, Cheetobro_63, SamScheppers_61
- Track 83 : OmniCritical_62
- Track 84 : Y2_61, Y10_61, JF1_63
- Track 85 : Lebo14_62, DanSyl44_66
- Track 86 : Patt_59, MissDaisy_60, Bobquesha_64, Reptar3000_60
- Track 87 : Ruthiejr_64
- Track 88 : AlleyCat_56, Larva_55, Edugator_53, Neighly_56, Psycho_54, Dadosky_56
- Track 89 : OkiRoe_55, Feyre_57, Miryou_58
- Track 90 : DoubleChamp_51, Agent47_54, BananenDer11_51, Collard_52, InvictusManeo_52, ViviJ_53
- Track 91 : Heftyboy_55, Guillsminger_55, Leston_54, Waterfoul_56, Paola_54, SoSeph_55
- Track 92 : LilDirt_51
- Track 93 : Gengar_54
- Track 94 : Kratio_52
- Track 95 : Thyatira_57
- Track 96 : Rando14_56
- Track 97 : Omnicron_58
- Track 98 : Aminay_60
- Track 99 : Boilgate_55
- Track 100 : Jobypre_53, Kingsolomon_52, Finnry_52, Bellis_53, Clautastrophe_52, Red305_53, Samty_52, TriFive_54, Jubie_52, Snenia_52, MsGreen_52, Nicholas_52, Lumos_54, Moostard_52
- Track 101 : Lolly9_52, MiniLon_55, MiniMac_55
- Track 102 : LiyuLake_52, KirDoubleO7_51, DuncansLeg_53
- Track 103 : Krypton555_54, Whirlwind_53
- Track 104 : Ellson_52
- Track 105 : BourbonZero_53
- Track 106 : KleverKiS_122, Auspice_119, Dulcita_120, Diminimus_120, Skinny_125, IPhane7_117, Bricole_121, FreakyGoo_120, PegLeg_123, Glaske16_122, TyDawg_114, Izel_120, TpudiCK_121, LihomieP_119, Bongo_119, SlimJimmy_119
- Track 107 : Reindeer_120
- Track 108 : Nette_55, Mendokysei_52
- Track 109 : Stellammi_74
- Track 110 : DS6A_39

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

The start number called the most often in the published annotations is 43, it was called in 130 of the 261 non-draft genes in the pham.

Genes that call this "Most Annotated" start:

- ActinUp_60, Adephegia_60, Adonis_60, Agent47_54, Ageofdapage_63, AlleyCat_56, Aminay_60, Anaya_62, Angelica_60, Apocalypse_63, Asayake_60, BEEST_60, BGIlluviae_60, BaghaKamala_59, BananenDer11_51, BarrelRoll_60, Beezoo_62, Bella96_61, Belladonna_60, Bern_61, Blizzard_60, Boiiii_60, Boilgate_55, CREW_60, CallaLilly_60, Capricorn_60, CaseJules_62, Chancellor_63, CheetoDust_59, Cheetobro_63, Clipper_63, Collard_52, CrimD_61, Curiosium_64, Dadosky_56, Dalmuri_60, DanSyl44_66, DartGoblin_63, Deby_60, Devera_67, Dole_65, DoubleChamp_51, DrHayes_61, Durfee_60, Edugator_53, Efra2_64, Eponine_65, Feyre_57, Fionnbharth_63, Gail_65, Ganymede_61, Gengar_54, Geraldini_63, Guanica15_63, Guillsminger_55, HedwigODU_60, Heftyboy_55, Homura_60, Hyperbowlee_60, Illumine_65, Inky_60, InvictusManeo_52, JAWS_60, JF1_63, Jarvi_60, Jayhawk_61, Jeckyll_60, Jeeves_67, Joy99_60, Juliette_65, Kratio_52, Kraw_63, Larva_55, LastHope_63, LaterM_60, Lebo14_62, Leston_54, LindNT_59, Llorens_60, Lunahalos_60, MacKat_55, Malthus_64, MeaningOfLife_61, Megsy_62, Miryou_58, Mitti_63, Murucutumbu_61, Mynx_61, Neighly_56, OkiRoe_55, OmniCritical_62, Omnicron_58, Padpat_62, Paola_54, Peel_60, Piatt_60, Pokerus_59, Prithvi_61, Psycho_54, Qhanda_65, QuincyRose_59, Ramen_61, Rando14_56, Rapunzel97_61, Rosmarinus_60, Ruthiejr_64, SamScheppers_61, SamuelLPlaqson_61, ShiaSurprise_61, Slarp_63, Slimphazie_60, SoSeph_55, Spock_60, Stinson_61, Sulley_60, Sunhee_66, Tachez_60, TaiwanKao_62, Taquito_62, Thyatira_57, TingHuaYa_62, TiniBug_61, Tiri_61, Topper_60, TreyKay_61, TruffulaTree_60, Twitch_60, Urkel_61, Veliki_61, ViviJ_53, Waterfoul_56, Wintermute_63, Y10_61, Y2_61, YasnayaPolyana_62, YoureAdopted_59, Yunkel11_63, Zabiza_55, Zavala_62,

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

- AlishaPH_60, Anma_62, Atiba_61, Emerson_61, LilDirt_51, Padfoot_60, Pisa1_60, Pisa4_54,

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

- AN9_66, ANI8_66, Adzzy_66, Airmid_62, Aliter_67, Alma_64, Anthony_65, Arissanae_64, Astro_67, Auspice_119, Ayanochan_64, Beemo_67, Bellis_53, Bellris_63, Benedict_64, Bobquesha_64, BogosyJay_65, Bongo_119, BourbonZero_53, Bradman_64, Bricole_121, Caitlin_65, Caraxes_64, Catalina_68, Celestiallunch_63, Chadwick_64, Chargerpower_62, Charm_63, Che12_65, Clautastrophe_52, CogOmlette_63, Conquerage_64, Coog_59, Cuco_61, DS6A_39, Danforth_67, Darrell_67, DarthPhader_61, Diminimus_120, Dixon_66, DreamTeam1_63, Dublin_60, Dulcita_120, DuncansLeg_53, EdogawaKiddo_64, Eidsmoe_64, EITiger69_64, Elephantoon_64, Ellson_52, EmyBug_63, Expelliarmus_64, ExplosioNervosa_64, Fayely_64, Finnry_52, FreakyGoo_120, George_57, Ghoulyboy_62, Glaske16_122, Groundhog_66, Hanray_64, Halex_64, HortumSL17_67, IPhane7_117, Izel_120, Jabiru_63, Jiawan_63, Jobypre_53, Jsquared_65, Jubie_52, Keziacharles14_65, Kingsolomon_52, Kinmap_63, KirDoubleO7_51, KleverKiS_122, Klodlith_63, Koduck_65, Krypton555_54, L5_60, LilhomieP_119, Lilleskat_62, LiyuLake_52, Lolly9_52, LoneWolf_66, Luchador_66, Lumos_54, MajorMajor_63, Maminiaina_65, MarysWell_60, MegTheThird_63, Mendokyse_52, Micasa_60, Midas2_59, Milcery_60, MiniLon_55, MiniMac_55, Minispark_63, MissDaisy_60, Moostard_52, MsGreen_52, MyraDee_60, Myxus_66, Naca_62, NearlyHeadless_67, Nette_55, Nicholas_52, Odin_63, Onglai_64, PackMan_65, Patt_59, PegLeg_123, PetterN_67, Ph8s_65, Phaeder_66, Pharaoh_59, Phillis_64, Phonnegut_67, Pioneer_67, Priya_64, Qobbit_64, Quokka_63, Rahalelujah_65, Red305_53, Refuge_61, Reindeer_120, Reptar3000_60, Roary_68, RyeScarlet_68, Sachima_62, Saintus_62, Samty_52,

Scherzo_66, Scorpia_64, SheaKeira_62, Skinny_125, SlimJimmy_119, Smeadley_67, Snenia_52, SororFago_64, Spouty_64, Steamy_60, Stellammi_74, StepHig9_66, Superchunk_63, SwirlSquare_68, SydNat_62, TipsytheTRex_61, Toaka_66, TpudiCK_121, TriFive_54, Tubs_66, TyDawg_114, Ugenie5_62, UnionJack_63, Vanisoa_65, Whirlwind_53, WorldCup_63, Yecey3_67, Zimmer_61, Zolita_61,

Summary by start number:

Start 31:

- Found in 35 of 306 (11.4%) of genes in pham
- Manual Annotations of this start: 34 of 261
- Called 100.0% of time when present
- Phage (with cluster) where this start called: Airmid_62 (A5), Anthony_65 (A20), Astro_67 (A8), Benedict_64 (A5), Caitlin_65 (A8), Chadwick_64 (A5), Coog_59 (A5), Cuco_61 (A5), Danforth_67 (A8), Dixon_66 (A8), Dublin_60 (A5), ElTiger69_64 (A5), Expelliarmus_64 (A8), George_57 (A5), Ghouboy_62 (A5), Groundhog_66 (A8), Jabiru_63 (A5), Luchador_66 (A14), MarysWell_60 (A5), Micasa_60 (A5), Midas2_59 (A5), Milcery_60 (A5), Naca_62 (A5), NearlyHeadless_67 (A8), PetterN_67 (A5), Phillis_64 (A8), Roary_68 (A8), Saintus_62 (A8), Scorpia_64 (A5), Smeadley_67 (A8), SororFago_64 (A14), StepHig9_66 (A8), SydNat_62 (A5), UnionJack_63 (A5), Zolita_61 (A5),

Start 34:

- Found in 1 of 306 (0.3%) of genes in pham
- Manual Annotations of this start: 1 of 261
- Called 100.0% of time when present
- Phage (with cluster) where this start called: Reindeer_120 (M1),

Start 38:

- Found in 2 of 306 (0.7%) of genes in pham
- Manual Annotations of this start: 2 of 261
- Called 100.0% of time when present
- Phage (with cluster) where this start called: AN9_66 (A2), ANI8_66 (A2),

Start 39:

- Found in 16 of 306 (5.2%) of genes in pham
- Manual Annotations of this start: 2 of 261
- Called 12.5% of time when present
- Phage (with cluster) where this start called: Keziacharles14_65 (A9), Toaka_66 (A9),

Start 41:

- Found in 2 of 306 (0.7%) of genes in pham
- Manual Annotations of this start: 2 of 261
- Called 100.0% of time when present
- Phage (with cluster) where this start called: Arissanee_64 (A9), Vanisoa_65 (A9),

Start 42:

- Found in 51 of 306 (16.7%) of genes in pham
- Manual Annotations of this start: 29 of 261
- Called 88.2% of time when present
- Phage (with cluster) where this start called: Aliter_67 (A9), Alma_64 (A9), Ayanochan_64 (A9), Beemo_67 (A9), Bellris_63 (A9), BogosyJay_65 (A9),

Catalina_68 (A9), Celestiallunch_63 (A9), Chargerpower_62 (A22), Charm_63 (A9), CogOmlette_63 (A9), Conquerage_64 (A9), DreamTeam1_63 (A9), EdogawaKiddo_64 (A9), Eidsmoe_64 (A9), EmyBug_63 (A9), ExplosioNervosa_64 (A9), Fayely_64 (A9), Hanray_64 (A9), Halex_64 (A9), HortumSL17_67 (A9), Jiawan_63 (A9), Klodlith_63 (A9), Lilleskat_62 (A9), LoneWolf_66 (A9), Maminiaina_65 (A9), MegTheThird_63 (A9), Minispark_63 (A9), Myxus_66 (A9), Onglai_64 (A9), PackMan_65 (A9), Phaeder_66 (A9), Phonnegut_67 (A9), Pioneer_67 (A9), Priya_64 (A9), Qobbit_64 (A9), Rahalelujah_65 (A9), RyeScarlet_68 (A9), Sachima_62 (A9), Scherzo_66 (A9), SheaKeira_62 (A9), Spouty_64 (A9), Tubs_66 (A9), Ugenie5_62 (A9), WorldCup_63 (A9),

Start 43:

- Found in 147 of 306 (48.0%) of genes in pham
- Manual Annotations of this start: 130 of 261
- Called 94.6% of time when present
- Phage (with cluster) where this start called: ActinUp_60 (K1), Adephagia_60 (K1), Adonis_60 (K1), Agent47_54 (K5), Ageofdapage_63 (K1), AlleyCat_56 (K5), Aminay_60 (K7), Anaya_62 (K1), Angelica_60 (K1), Apocalypse_63 (K1), Asayake_60 (K1), BEEST_60 (K1), BGlluviae_60 (K1), BaghaKamala_59 (K1), BananenDer11_51 (K5), BarrelRoll_60 (K1), Beezoo_62 (K1), Bella96_61 (K1), Belladonna_60 (K1), Bern_61 (K1), Blizzard_60 (K1), Boiiii_60 (K1), Boilgate_55 (K8), CREW_60 (K1), CallaLilly_60 (K1), Capricorn_60 (K1), CaseJules_62 (K1), Chancellor_63 (K4), CheetoDust_59 (K1), Cheetobro_63 (K4), Clipper_63 (K1), Collard_52 (K5), CrimD_61 (K1), Curiosium_64 (K1), Dadosky_56 (K5), Dalmuri_60 (K1), DanSyl44_66 (K4), DartGoblin_63 (K1), Deby_60 (K1), Devera_67 (K1), Dole_65 (K1), DoubleChamp_51 (K5), DrHayes_61 (K1), Durfee_60 (K1), Edugator_53 (K5), Efra2_64 (K1), Eponine_65 (K4), Feyre_57 (K5), Fionnbharth_63 (K4), Gail_65 (A14), Ganymede_61 (K1), Gengar_54 (K5), Geraldini_63 (K1), Guanica15_63 (K1), Guillsminger_55 (K5), HedwigODU_60 (K1), Heftyboy_55 (K5), Homura_60 (K1), Hyperbowlee_60 (K1), Illumine_65 (K1), Inky_60 (K1), InvictusManeo_52 (K5), JAWS_60 (K1), JF1_63 (K4), Jarvi_60 (K1), Jayhawk_61 (K1), Jeckyll_60 (K1), Jeeves_67 (A14), Joy99_60 (K1), Juliette_65 (K4), Kratio_52 (K5), Kraw_63 (K4), Larva_55 (K5), LastHope_63 (K1), LaterM_60 (K1), Lebo14_62 (K4), Leston_54 (K5), LindNT_59 (K1), Llorens_60 (K1), Lunahalos_60 (K1), MackKat_55 (K1), Malthus_64 (K4), MeaningOfLife_61 (K1), Megsy_62 (K1), Miryou_58 (K5), Mitti_63 (K4), Murucutumbu_61 (K1), Mynx_61 (K1), Neighly_56 (K3), OkiRoe_55 (K5), OmniCritical_62 (K4), Omnicron_58 (K5), Padpat_62 (K1), Paola_54 (K5), Peel_60 (K1), Piatt_60 (K1), Pokerus_59 (K1), Prithvi_61 (K1), Psycho_54 (K5), Qhanda_65 (K4), QuincyRose_59 (K1), Ramen_61 (K1), Rando14_56 (K5), Rapunzel97_61 (K1), Rosmarinus_60 (K1), Ruthiejr_64 (K4), SamScheppers_61 (K4), SamuelLPlaqson_61 (K1), ShiaSurprise_61 (K1), Slarp_63 (K4), Slimphazie_60 (K1), SoSeph_55 (K5), Spock_60 (K1), Stinson_61 (K1), Sulley_60 (K1), Sunhee_66 (A14), Tachez_60 (K1), TaiwanKao_62 (K1), Taquito_62 (K4), Thyatira_57 (K5), TingHuaYa_62 (K1), TiniBug_61 (K1), Tiri_61 (K1), Topper_60 (K1), TreyKay_61 (K1), TruffulaTree_60 (K1), Twitch_60 (K1), Urkel_61 (K1), Veliki_61 (K1), ViviJ_53 (K5), Waterfoul_56 (K5), Wintermute_63 (K4), Y10_61 (K4), Y2_61 (K4), YasnayaPolyana_62 (K4), YoureAdopted_59 (K1), Yunkel11_63 (K1), Zabiza_55 (K1), Zavala_62 (K1),

Start 45:

- Found in 188 of 306 (61.4%) of genes in pham
- Manual Annotations of this start: 53 of 261
- Called 35.1% of time when present

- Phage (with cluster) where this start called: Adzzy_66 (A2), AlishaPH_60 (K1), Anma_62 (K1), Atiba_61 (K1), Auspice_119 (M1), Bellis_53 (L3), Bongo_119 (M1), Bradman_64 (A2), Bricole_121 (M1), Caraxes_64 (A2), Che12_65 (A2), Clautastrophe_52 (L3), DS6A_39 (singleton), DarthPhader_61 (A12), Diminimus_120 (M1), Dulcita_120 (M1), Ellson_52 (L3), Emerson_61 (K1), Finnry_52 (L3), FreakyGoo_120 (M1), Glaske16_122 (M1), IPhone7_117 (M1), Izel_120 (M1), Jobypre_53 (L3), Jsquared_65 (A2), Jubie_52 (L3), Kingsolomon_52 (L3), Kinmap_63 (A21), KleverKiS_122 (M1), Koduck_65 (A2), Krypton555_54 (L3), L5_60 (A2), LilhomieP_119 (M1), Lolly9_52 (L3), Lumos_54 (L3), MajorMajor_63 (A2), MiniLon_55 (L3), MiniMac_55 (L3), Moostard_52 (L3), MsGreen_52 (L3), MyraDee_60 (A18), Nicholas_52 (L3), Odin_63 (A2), Padfoot_60 (K1), PegLeg_123 (M1), Ph8s_65 (A2), Pharaoh_59 (A12), Pisa1_60 (K1), Pisa4_54 (K1), Quokka_63 (A2), Red305_53 (L3), Refuge_61 (A12), Samty_52 (L3), Skinny_125 (M1), SlimJimmy_119 (M1), Snenia_52 (L3), Steamy_60 (A12), Stellammi_74 (UNK), Superchunk_63 (A2), SwirlSquare_68 (A2), TopsytheTRex_61 (A2), TpudiCK_121 (M1), TriFive_54 (L3), TyDawg_114 (M1), Whirlwind_53 (L3), Zimmer_61 (A12),

Start 46:

- Found in 39 of 306 (12.7%) of genes in pham
- No Manual Annotations of this start.
- Called 2.6% of time when present
- Phage (with cluster) where this start called: LilDirt_51 (K5),

Start 47:

- Found in 4 of 306 (1.3%) of genes in pham
- Manual Annotations of this start: 3 of 261
- Called 100.0% of time when present
- Phage (with cluster) where this start called: Bobquesha_64 (K4), MissDaisy_60 (K4), Patt_59 (K4), Reptar3000_60 (K4),

Start 49:

- Found in 188 of 306 (61.4%) of genes in pham
- Manual Annotations of this start: 1 of 261
- Called 2.1% of time when present
- Phage (with cluster) where this start called: BourbonZero_53 (L3), DuncansLeg_53 (L3), KirDoubleO7_51 (L3), LiyuLake_52 (L3),

Start 77:

- Found in 2 of 306 (0.7%) of genes in pham
- Manual Annotations of this start: 1 of 261
- Called 100.0% of time when present
- Phage (with cluster) where this start called: Mendokysei_52 (T), Nette_55 (T),

Start 91:

- Found in 2 of 306 (0.7%) of genes in pham
- Manual Annotations of this start: 2 of 261
- Called 100.0% of time when present
- Phage (with cluster) where this start called: Darrell_67 (A9), Elephantoon_64 (A9),

Start 95:

- Found in 1 of 306 (0.3%) of genes in pham
- Manual Annotations of this start: 1 of 261
- Called 100.0% of time when present

- Phage (with cluster) where this start called: Yecey3_67 (A9),

Summary by clusters:

There are 21 clusters represented in this pham: A20, A14, singleton, UNK, A12, A18, A22, A21, K3, A8, K1, A2, A5, L3, K5, K4, A9, M1, K8, K7, T,

Info for manual annotations of cluster A12:

- Start number 45 was manually annotated 5 times for cluster A12.

Info for manual annotations of cluster A14:

- Start number 31 was manually annotated 2 times for cluster A14.
- Start number 43 was manually annotated 2 times for cluster A14.

Info for manual annotations of cluster A18:

- Start number 45 was manually annotated 1 time for cluster A18.

Info for manual annotations of cluster A2:

- Start number 38 was manually annotated 2 times for cluster A2.
- Start number 45 was manually annotated 10 times for cluster A2.

Info for manual annotations of cluster A20:

- Start number 31 was manually annotated 1 time for cluster A20.

Info for manual annotations of cluster A22:

- Start number 42 was manually annotated 1 time for cluster A22.

Info for manual annotations of cluster A5:

- Start number 31 was manually annotated 20 times for cluster A5.

Info for manual annotations of cluster A8:

- Start number 31 was manually annotated 11 times for cluster A8.

Info for manual annotations of cluster A9:

- Start number 39 was manually annotated 2 times for cluster A9.
- Start number 41 was manually annotated 2 times for cluster A9.
- Start number 42 was manually annotated 28 times for cluster A9.
- Start number 91 was manually annotated 2 times for cluster A9.
- Start number 95 was manually annotated 1 time for cluster A9.

Info for manual annotations of cluster K1:

- Start number 43 was manually annotated 84 times for cluster K1.
- Start number 45 was manually annotated 4 times for cluster K1.

Info for manual annotations of cluster K4:

- Start number 43 was manually annotated 19 times for cluster K4.
- Start number 47 was manually annotated 3 times for cluster K4.

Info for manual annotations of cluster K5:

- Start number 43 was manually annotated 23 times for cluster K5.

Info for manual annotations of cluster K7:

- Start number 43 was manually annotated 1 time for cluster K7.

Info for manual annotations of cluster K8:

- Start number 43 was manually annotated 1 time for cluster K8.

Info for manual annotations of cluster L3:

- Start number 45 was manually annotated 18 times for cluster L3.
- Start number 49 was manually annotated 1 time for cluster L3.

Info for manual annotations of cluster M1:

- Start number 34 was manually annotated 1 time for cluster M1.
- Start number 45 was manually annotated 14 times for cluster M1.

Info for manual annotations of cluster T:

- Start number 77 was manually annotated 1 time for cluster T.

Gene Information:

Gene: AN9_66 Start: 40276, Stop: 40106, Start Num: 38

Candidate Starts for AN9_66:

(Start: 38 @40276 has 2 MA's), (44, 40261), (64, 40183), (73, 40168), (76, 40159), (78, 40147), (83, 40123),

Gene: ANI8_66 Start: 40276, Stop: 40106, Start Num: 38

Candidate Starts for ANI8_66:

(Start: 38 @40276 has 2 MA's), (44, 40261), (64, 40183), (73, 40168), (76, 40159), (78, 40147), (83, 40123),

Gene: ActinUp_60 Start: 41125, Stop: 41289, Start Num: 43

Candidate Starts for ActinUp_60:

(35, 41110), (Start: 43 @41125 has 130 MA's), (Start: 45 @41131 has 53 MA's), (Start: 49 @41149 has 1 MA's), (83, 41278), (84, 41281),

Gene: Adephagia_60 Start: 41132, Stop: 41296, Start Num: 43

Candidate Starts for Adephagia_60:

(Start: 43 @41132 has 130 MA's), (Start: 45 @41138 has 53 MA's), (Start: 49 @41156 has 1 MA's), (68, 41231), (83, 41285), (84, 41288),

Gene: Adonis_60 Start: 41367, Stop: 41531, Start Num: 43

Candidate Starts for Adonis_60:

(Start: 43 @41367 has 130 MA's), (Start: 45 @41373 has 53 MA's), (Start: 49 @41391 has 1 MA's), (83, 41520), (84, 41523),

Gene: Adzzy_66 Start: 39083, Stop: 38940, Start Num: 45

Candidate Starts for Adzzy_66:

(Start: 45 @39083 has 53 MA's), (48, 39071), (73, 38990), (84, 38948),

Gene: Agent47_54 Start: 38364, Stop: 38531, Start Num: 43

Candidate Starts for Agent47_54:

(24, 38262), (Start: 43 @38364 has 130 MA's), (46, 38376), (Start: 49 @38388 has 1 MA's), (54, 38412), (68, 38463), (83, 38520), (84, 38523),

Gene: Ageofdapage_63 Start: 42108, Stop: 42269, Start Num: 43

Candidate Starts for Ageofdapage_63:

(Start: 43 @42108 has 130 MA's), (Start: 45 @42114 has 53 MA's), (Start: 49 @42132 has 1 MA's), (68, 42204), (83, 42258), (84, 42261),

Gene: Airmid_62 Start: 40118, Stop: 39966, Start Num: 31

Candidate Starts for Airmid_62:

(Start: 31 @40118 has 34 MA's), (33, 40112), (37, 40100), (75, 40013), (83, 39977),

Gene: AlishaPH_60 Start: 41399, Stop: 41557, Start Num: 45

Candidate Starts for AlishaPH_60:

(Start: 43 @41393 has 130 MA's), (Start: 45 @41399 has 53 MA's), (Start: 49 @41417 has 1 MA's), (68, 41492), (83, 41546), (84, 41549),

Gene: Aliter_67 Start: 40348, Stop: 40199, Start Num: 42

Candidate Starts for Aliter_67:

(Start: 42 @40348 has 29 MA's), (Start: 45 @40342 has 53 MA's), (Start: 49 @40330 has 1 MA's), (67, 40264), (78, 40234), (83, 40210),

Gene: AlleyCat_56 Start: 38668, Stop: 38835, Start Num: 43

Candidate Starts for AlleyCat_56:

(24, 38566), (Start: 43 @38668 has 130 MA's), (46, 38680), (Start: 49 @38692 has 1 MA's), (54, 38716), (68, 38767), (80, 38809), (83, 38824), (84, 38827),

Gene: Alma_64 Start: 40243, Stop: 40094, Start Num: 42

Candidate Starts for Alma_64:

(Start: 42 @40243 has 29 MA's), (Start: 45 @40237 has 53 MA's), (Start: 49 @40225 has 1 MA's), (67, 40159), (78, 40129), (83, 40105),

Gene: Aminay_60 Start: 40828, Stop: 40986, Start Num: 43

Candidate Starts for Aminay_60:

(Start: 43 @40828 has 130 MA's), (46, 40840), (Start: 49 @40852 has 1 MA's), (76, 40942), (81, 40966), (83, 40975),

Gene: Anaya_62 Start: 41648, Stop: 41815, Start Num: 43

Candidate Starts for Anaya_62:

(Start: 43 @41648 has 130 MA's), (Start: 45 @41654 has 53 MA's), (78, 41780), (80, 41789), (83, 41804), (84, 41807),

Gene: Angelica_60 Start: 41275, Stop: 41439, Start Num: 43

Candidate Starts for Angelica_60:

(Start: 43 @41275 has 130 MA's), (Start: 45 @41281 has 53 MA's), (Start: 49 @41299 has 1 MA's), (68, 41374), (78, 41404), (83, 41428),

Gene: Anma_62 Start: 42025, Stop: 42177, Start Num: 45

Candidate Starts for Anma_62:

(Start: 43 @42019 has 130 MA's), (Start: 45 @42025 has 53 MA's), (Start: 49 @42043 has 1 MA's), (50, 42046), (78, 42142), (83, 42166), (84, 42169),

Gene: Anthony_65 Start: 40664, Stop: 40509, Start Num: 31

Candidate Starts for Anthony_65:

(Start: 31 @40664 has 34 MA's), (33, 40658), (37, 40646), (Start: 45 @40622 has 53 MA's), (81, 40529), (83, 40520),

Gene: Apocalypse_63 Start: 42044, Stop: 42205, Start Num: 43

Candidate Starts for Apocalypse_63:

(Start: 43 @42044 has 130 MA's), (Start: 45 @42050 has 53 MA's), (Start: 49 @42068 has 1 MA's), (68, 42140), (78, 42170), (83, 42194),

Gene: Arissanae_64 Start: 40777, Stop: 40631, Start Num: 41

Candidate Starts for Arissanae_64:

(Start: 39 @40783 has 2 MA's), (Start: 41 @40777 has 2 MA's), (79, 40654), (83, 40642),

Gene: Asayake_60 Start: 41447, Stop: 41611, Start Num: 43

Candidate Starts for Asayake_60:

(Start: 43 @41447 has 130 MA's), (Start: 45 @41453 has 53 MA's), (Start: 49 @41471 has 1 MA's), (68, 41546), (83, 41600), (84, 41603),

Gene: Astro_67 Start: 39968, Stop: 39795, Start Num: 31

Candidate Starts for Astro_67:

(Start: 31 @39968 has 34 MA's), (37, 39950), (61, 39872), (83, 39806),

Gene: Atiba_61 Start: 41101, Stop: 41259, Start Num: 45

Candidate Starts for Atiba_61:

(Start: 43 @41095 has 130 MA's), (Start: 45 @41101 has 53 MA's), (Start: 49 @41119 has 1 MA's), (68, 41194), (83, 41248), (84, 41251),

Gene: Auspice_119 Start: 63668, Stop: 63817, Start Num: 45

Candidate Starts for Auspice_119:

(Start: 45 @63668 has 53 MA's), (48, 63680), (51, 63701), (52, 63704), (54, 63710), (60, 63731), (83, 63806),

Gene: Ayanochan_64 Start: 40026, Stop: 39877, Start Num: 42

Candidate Starts for Ayanochan_64:

(Start: 42 @40026 has 29 MA's), (Start: 45 @40020 has 53 MA's), (Start: 49 @40008 has 1 MA's), (67, 39942), (78, 39912), (83, 39888),

Gene: BEEST_60 Start: 41447, Stop: 41611, Start Num: 43

Candidate Starts for BEEST_60:

(Start: 43 @41447 has 130 MA's), (Start: 45 @41453 has 53 MA's), (Start: 49 @41471 has 1 MA's), (68, 41546), (83, 41600), (84, 41603),

Gene: BGlluviae_60 Start: 41250, Stop: 41414, Start Num: 43

Candidate Starts for BGlluviae_60:

(Start: 43 @41250 has 130 MA's), (Start: 45 @41256 has 53 MA's), (Start: 49 @41274 has 1 MA's), (68, 41349), (83, 41403), (84, 41406),

Gene: BaghaKamala_59 Start: 40476, Stop: 40640, Start Num: 43

Candidate Starts for BaghaKamala_59:

(Start: 43 @40476 has 130 MA's), (Start: 45 @40482 has 53 MA's), (68, 40575), (78, 40605), (83, 40629), (84, 40632),

Gene: BananenDer11_51 Start: 38325, Stop: 38492, Start Num: 43

Candidate Starts for BananenDer11_51:

(24, 38223), (Start: 43 @38325 has 130 MA's), (46, 38337), (Start: 49 @38349 has 1 MA's), (54, 38373), (68, 38424), (83, 38481), (84, 38484),

Gene: BarrelRoll_60 Start: 41099, Stop: 41263, Start Num: 43

Candidate Starts for BarrelRoll_60:

(Start: 43 @41099 has 130 MA's), (Start: 45 @41105 has 53 MA's), (Start: 49 @41123 has 1 MA's), (68, 41198), (78, 41228), (80, 41237), (83, 41252),

Gene: Beemo_67 Start: 40518, Stop: 40369, Start Num: 42

Candidate Starts for Beemo_67:

(Start: 42 @40518 has 29 MA's), (Start: 45 @40512 has 53 MA's), (Start: 49 @40500 has 1 MA's), (67, 40434), (78, 40404), (83, 40380),

Gene: Beezoo_62 Start: 42083, Stop: 42247, Start Num: 43

Candidate Starts for Beezoo_62:

(Start: 43 @42083 has 130 MA's), (Start: 45 @42089 has 53 MA's), (Start: 49 @42107 has 1 MA's), (78, 42212), (83, 42236),

Gene: Bella96_61 Start: 41864, Stop: 42022, Start Num: 43

Candidate Starts for Bella96_61:

(Start: 43 @41864 has 130 MA's), (Start: 45 @41870 has 53 MA's), (Start: 49 @41888 has 1 MA's), (78, 41987), (83, 42011), (84, 42014),

Gene: Belladonna_60 Start: 41250, Stop: 41414, Start Num: 43

Candidate Starts for Belladonna_60:

(Start: 43 @41250 has 130 MA's), (Start: 45 @41256 has 53 MA's), (Start: 49 @41274 has 1 MA's), (68, 41349), (83, 41403), (84, 41406),

Gene: Bellis_53 Start: 40421, Stop: 40579, Start Num: 45

Candidate Starts for Bellis_53:

(Start: 45 @40421 has 53 MA's), (Start: 49 @40439 has 1 MA's), (56, 40475), (80, 40553), (83, 40568),

Gene: Bellris_63 Start: 39913, Stop: 39764, Start Num: 42

Candidate Starts for Bellris_63:

(Start: 39 @39922 has 2 MA's), (Start: 42 @39913 has 29 MA's), (65, 39832), (67, 39829), (83, 39775),

Gene: Benedict_64 Start: 40407, Stop: 40219, Start Num: 31

Candidate Starts for Benedict_64:

(Start: 31 @40407 has 34 MA's), (33, 40401), (37, 40389), (75, 40302), (83, 40266), (88, 40236),

Gene: Bern_61 Start: 40066, Stop: 40233, Start Num: 43

Candidate Starts for Bern_61:

(Start: 43 @40066 has 130 MA's), (Start: 45 @40072 has 53 MA's), (68, 40168), (78, 40198), (83, 40222), (84, 40225),

Gene: Blizzard_60 Start: 41447, Stop: 41611, Start Num: 43

Candidate Starts for Blizzard_60:

(Start: 43 @41447 has 130 MA's), (Start: 45 @41453 has 53 MA's), (Start: 49 @41471 has 1 MA's), (68, 41546), (83, 41600), (84, 41603),

Gene: Bobquesha_64 Start: 39659, Stop: 39811, Start Num: 47

Candidate Starts for Bobquesha_64:

(Start: 47 @39659 has 3 MA's), (65, 39734), (76, 39767), (83, 39800),

Gene: BogosyJay_65 Start: 40318, Stop: 40169, Start Num: 42

Candidate Starts for BogosyJay_65:

(Start: 42 @40318 has 29 MA's), (Start: 49 @40300 has 1 MA's), (64, 40240), (67, 40234), (78, 40204), (83, 40180),

Gene: Boiiii_60 Start: 41449, Stop: 41613, Start Num: 43

Candidate Starts for Boiiii_60:

(Start: 43 @41449 has 130 MA's), (Start: 45 @41455 has 53 MA's), (Start: 49 @41473 has 1 MA's), (68, 41548), (83, 41602), (84, 41605),

Gene: Boilgate_55 Start: 40489, Stop: 40644, Start Num: 43

Candidate Starts for Boilgate_55:

(16, 40279), (30, 40441), (Start: 42 @40486 has 29 MA's), (Start: 43 @40489 has 130 MA's), (Start: 49 @40513 has 1 MA's), (71, 40588), (78, 40609), (83, 40633),

Gene: Bongo_119 Start: 63284, Stop: 63433, Start Num: 45

Candidate Starts for Bongo_119:

(Start: 45 @63284 has 53 MA's), (48, 63296), (51, 63317), (52, 63320), (54, 63326), (60, 63347), (83, 63422),

Gene: BourbonZero_53 Start: 40479, Stop: 40625, Start Num: 49

Candidate Starts for BourbonZero_53:

(Start: 45 @40464 has 53 MA's), (Start: 49 @40479 has 1 MA's), (56, 40515), (61, 40530), (68, 40557), (80, 40599), (83, 40614),

Gene: Bradman_64 Start: 39432, Stop: 39280, Start Num: 45

Candidate Starts for Bradman_64:

(29, 39489), (Start: 45 @39432 has 53 MA's), (74, 39339), (78, 39327), (83, 39303),

Gene: Bricole_121 Start: 63432, Stop: 63581, Start Num: 45

Candidate Starts for Bricole_121:

(Start: 45 @63432 has 53 MA's), (48, 63444), (51, 63465), (52, 63468), (54, 63474), (60, 63495), (83, 63570),

Gene: CREW_60 Start: 41250, Stop: 41414, Start Num: 43

Candidate Starts for CREW_60:

(Start: 43 @41250 has 130 MA's), (Start: 45 @41256 has 53 MA's), (Start: 49 @41274 has 1 MA's), (68, 41349), (83, 41403), (84, 41406),

Gene: Caitlin_65 Start: 39675, Stop: 39502, Start Num: 31

Candidate Starts for Caitlin_65:

(Start: 31 @39675 has 34 MA's), (37, 39657), (83, 39513),

Gene: CallaLilly_60 Start: 41173, Stop: 41337, Start Num: 43

Candidate Starts for CallaLilly_60:

(Start: 43 @41173 has 130 MA's), (Start: 45 @41179 has 53 MA's), (Start: 49 @41197 has 1 MA's), (68, 41272), (83, 41326), (84, 41329),

Gene: Capricorn_60 Start: 41250, Stop: 41414, Start Num: 43

Candidate Starts for Capricorn_60:

(Start: 43 @41250 has 130 MA's), (Start: 45 @41256 has 53 MA's), (Start: 49 @41274 has 1 MA's), (68, 41349), (83, 41403), (84, 41406),

Gene: Caraxes_64 Start: 38825, Stop: 38673, Start Num: 45

Candidate Starts for Caraxes_64:

(Start: 45 @38825 has 53 MA's), (74, 38732), (78, 38720), (83, 38696), (84, 38693),

Gene: CaseJules_62 Start: 41447, Stop: 41611, Start Num: 43

Candidate Starts for CaseJules_62:

(Start: 43 @41447 has 130 MA's), (Start: 45 @41453 has 53 MA's), (Start: 49 @41471 has 1 MA's), (68, 41546), (83, 41600), (84, 41603),

Gene: Catalina_68 Start: 40421, Stop: 40272, Start Num: 42

Candidate Starts for Catalina_68:

(Start: 42 @40421 has 29 MA's), (Start: 45 @40415 has 53 MA's), (Start: 49 @40403 has 1 MA's), (67, 40337), (78, 40307), (83, 40283),

Gene: Celestiallunch_63 Start: 39862, Stop: 39704, Start Num: 42

Candidate Starts for Celestiallunch_63:

(Start: 39 @39871 has 2 MA's), (Start: 42 @39862 has 29 MA's), (64, 39784), (72, 39760), (78, 39739), (83, 39715),

Gene: Chadwick_64 Start: 40094, Stop: 39942, Start Num: 31

Candidate Starts for Chadwick_64:

(Start: 31 @40094 has 34 MA's), (33, 40088), (37, 40076), (75, 39989), (83, 39953),

Gene: Chancellor_63 Start: 40757, Stop: 40921, Start Num: 43

Candidate Starts for Chancellor_63:

(12, 40532), (28, 40709), (32, 40730), (Start: 43 @40757 has 130 MA's), (Start: 49 @40781 has 1 MA's), (65, 40844), (76, 40877), (83, 40910),

Gene: Chargerpower_62 Start: 38721, Stop: 38578, Start Num: 42

Candidate Starts for Chargerpower_62:

(12, 38973), (13, 38970), (Start: 39 @38730 has 2 MA's), (Start: 42 @38721 has 29 MA's), (Start: 45 @38715 has 53 MA's), (67, 38634), (83, 38589),

Gene: Charm_63 Start: 39921, Stop: 39760, Start Num: 42

Candidate Starts for Charm_63:

(2, 40392), (11, 40179), (Start: 39 @39930 has 2 MA's), (Start: 42 @39921 has 29 MA's), (83, 39771),

Gene: Che12_65 Start: 39044, Stop: 38901, Start Num: 45

Candidate Starts for Che12_65:

(Start: 45 @39044 has 53 MA's), (48, 39032), (Start: 49 @39026 has 1 MA's), (73, 38951), (84, 38909),

Gene: CheetoDust_59 Start: 40520, Stop: 40687, Start Num: 43

Candidate Starts for CheetoDust_59:

(Start: 43 @40520 has 130 MA's), (Start: 45 @40526 has 53 MA's), (68, 40622), (78, 40652), (83, 40676), (84, 40679),

Gene: Cheetobro_63 Start: 40754, Stop: 40918, Start Num: 43

Candidate Starts for Cheetobro_63:

(12, 40529), (28, 40706), (32, 40727), (Start: 43 @40754 has 130 MA's), (Start: 49 @40778 has 1 MA's), (65, 40841), (76, 40874), (83, 40907),

Gene: Clautastrophe_52 Start: 40418, Stop: 40576, Start Num: 45
Candidate Starts for Clautastrophe_52:
(Start: 45 @40418 has 53 MA's), (Start: 49 @40436 has 1 MA's), (56, 40472), (80, 40550), (83, 40565),

Gene: Clipper_63 Start: 41698, Stop: 41862, Start Num: 43
Candidate Starts for Clipper_63:
(Start: 43 @41698 has 130 MA's), (Start: 45 @41704 has 53 MA's), (Start: 49 @41722 has 1 MA's),
(68, 41797), (83, 41851), (84, 41854),

Gene: CogOmlette_63 Start: 39910, Stop: 39761, Start Num: 42
Candidate Starts for CogOmlette_63:
(Start: 39 @39919 has 2 MA's), (Start: 42 @39910 has 29 MA's), (65, 39829), (67, 39826), (83, 39772),

Gene: Collard_52 Start: 38325, Stop: 38492, Start Num: 43
Candidate Starts for Collard_52:
(24, 38223), (Start: 43 @38325 has 130 MA's), (46, 38337), (Start: 49 @38349 has 1 MA's), (54,
38373), (68, 38424), (83, 38481), (84, 38484),

Gene: Conquerage_64 Start: 40012, Stop: 39863, Start Num: 42
Candidate Starts for Conquerage_64:
(Start: 42 @40012 has 29 MA's), (Start: 45 @40006 has 53 MA's), (Start: 49 @39994 has 1 MA's), (67,
39928), (78, 39898), (83, 39874),

Gene: Coog_59 Start: 40182, Stop: 40030, Start Num: 31
Candidate Starts for Coog_59:
(Start: 31 @40182 has 34 MA's), (33, 40176), (37, 40164), (76, 40074), (83, 40041),

Gene: CrimD_61 Start: 41656, Stop: 41820, Start Num: 43
Candidate Starts for CrimD_61:
(Start: 43 @41656 has 130 MA's), (Start: 45 @41662 has 53 MA's), (Start: 49 @41680 has 1 MA's),
(68, 41755), (83, 41809), (84, 41812),

Gene: Cuco_61 Start: 40042, Stop: 39890, Start Num: 31
Candidate Starts for Cuco_61:
(Start: 31 @40042 has 34 MA's), (33, 40036), (37, 40024), (76, 39934), (83, 39901),

Gene: Curiosium_64 Start: 40772, Stop: 40939, Start Num: 43
Candidate Starts for Curiosium_64:
(Start: 43 @40772 has 130 MA's), (Start: 45 @40778 has 53 MA's), (55, 40826), (78, 40904), (80,
40913), (81, 40919), (83, 40928), (84, 40931),

Gene: DS6A_39 Start: 32218, Stop: 32024, Start Num: 45
Candidate Starts for DS6A_39:
(Start: 45 @32218 has 53 MA's), (54, 32176), (86, 32074), (87, 32065), (89, 32041), (90, 32038),

Gene: Dadosky_56 Start: 38670, Stop: 38837, Start Num: 43
Candidate Starts for Dadosky_56:
(24, 38568), (Start: 43 @38670 has 130 MA's), (46, 38682), (Start: 49 @38694 has 1 MA's), (54,
38718), (68, 38769), (80, 38811), (83, 38826), (84, 38829),

Gene: Dalmuri_60 Start: 41250, Stop: 41414, Start Num: 43
Candidate Starts for Dalmuri_60:

(Start: 43 @41250 has 130 MA's), (Start: 45 @41256 has 53 MA's), (Start: 49 @41274 has 1 MA's), (68, 41349), (83, 41403), (84, 41406),

Gene: DanSyl44_66 Start: 41948, Stop: 42112, Start Num: 43

Candidate Starts for DanSyl44_66:

(12, 41723), (28, 41900), (32, 41921), (Start: 43 @41948 has 130 MA's), (65, 42035), (76, 42068), (83, 42101),

Gene: Danforth_67 Start: 40022, Stop: 39849, Start Num: 31

Candidate Starts for Danforth_67:

(Start: 31 @40022 has 34 MA's), (37, 40004), (83, 39860),

Gene: Darrell_67 Start: 40849, Stop: 40700, Start Num: 91

Candidate Starts for Darrell_67:

(25, 41098), (Start: 91 @40849 has 2 MA's), (93, 40831), (96, 40711),

Gene: DartGoblin_63 Start: 41836, Stop: 41994, Start Num: 43

Candidate Starts for DartGoblin_63:

(Start: 43 @41836 has 130 MA's), (Start: 45 @41842 has 53 MA's), (Start: 49 @41860 has 1 MA's), (78, 41959), (83, 41983), (84, 41986),

Gene: DarthPhader_61 Start: 41122, Stop: 40982, Start Num: 45

Candidate Starts for DarthPhader_61:

(36, 41149), (Start: 45 @41122 has 53 MA's), (46, 41116), (Start: 49 @41104 has 1 MA's), (78, 41017), (83, 40993),

Gene: Deby_60 Start: 41297, Stop: 41464, Start Num: 43

Candidate Starts for Deby_60:

(Start: 43 @41297 has 130 MA's), (Start: 45 @41303 has 53 MA's), (51, 41336), (68, 41399), (78, 41429), (83, 41453), (84, 41456),

Gene: Devera_67 Start: 42665, Stop: 42826, Start Num: 43

Candidate Starts for Devera_67:

(Start: 43 @42665 has 130 MA's), (Start: 45 @42671 has 53 MA's), (Start: 49 @42689 has 1 MA's), (68, 42761), (83, 42815), (84, 42818),

Gene: Diminimus_120 Start: 63279, Stop: 63428, Start Num: 45

Candidate Starts for Diminimus_120:

(Start: 45 @63279 has 53 MA's), (48, 63291), (51, 63312), (52, 63315), (54, 63321), (60, 63342), (83, 63417),

Gene: Dixon_66 Start: 39542, Stop: 39369, Start Num: 31

Candidate Starts for Dixon_66:

(Start: 31 @39542 has 34 MA's), (37, 39524), (83, 39380),

Gene: Dole_65 Start: 42668, Stop: 42829, Start Num: 43

Candidate Starts for Dole_65:

(Start: 43 @42668 has 130 MA's), (Start: 45 @42674 has 53 MA's), (Start: 49 @42692 has 1 MA's), (68, 42764), (83, 42818), (84, 42821),

Gene: DoubleChamp_51 Start: 38325, Stop: 38492, Start Num: 43

Candidate Starts for DoubleChamp_51:

(24, 38223), (Start: 43 @38325 has 130 MA's), (46, 38337), (Start: 49 @38349 has 1 MA's), (54, 38373), (68, 38424), (83, 38481), (84, 38484),

Gene: DrHayes_61 Start: 42019, Stop: 42177, Start Num: 43

Candidate Starts for DrHayes_61:

(Start: 43 @42019 has 130 MA's), (Start: 45 @42025 has 53 MA's), (Start: 49 @42043 has 1 MA's), (50, 42046), (78, 42142), (83, 42166), (84, 42169),

Gene: DreamTeam1_63 Start: 39753, Stop: 39592, Start Num: 42

Candidate Starts for DreamTeam1_63:

(2, 40224), (11, 40011), (Start: 39 @39762 has 2 MA's), (Start: 42 @39753 has 29 MA's), (83, 39603),

Gene: Dublin_60 Start: 40039, Stop: 39890, Start Num: 31

Candidate Starts for Dublin_60:

(Start: 31 @40039 has 34 MA's), (33, 40033), (Start: 42 @40006 has 29 MA's), (75, 39937), (76, 39934), (83, 39901),

Gene: Dulcita_120 Start: 63280, Stop: 63429, Start Num: 45

Candidate Starts for Dulcita_120:

(Start: 45 @63280 has 53 MA's), (48, 63292), (51, 63313), (52, 63316), (54, 63322), (60, 63343), (83, 63418),

Gene: DuncansLeg_53 Start: 40461, Stop: 40607, Start Num: 49

Candidate Starts for DuncansLeg_53:

(Start: 45 @40446 has 53 MA's), (Start: 49 @40461 has 1 MA's), (56, 40497), (61, 40512), (80, 40581), (83, 40596),

Gene: Durfee_60 Start: 41447, Stop: 41611, Start Num: 43

Candidate Starts for Durfee_60:

(Start: 43 @41447 has 130 MA's), (Start: 45 @41453 has 53 MA's), (Start: 49 @41471 has 1 MA's), (68, 41546), (83, 41600), (84, 41603),

Gene: EdogawaKiddo_64 Start: 40388, Stop: 40239, Start Num: 42

Candidate Starts for EdogawaKiddo_64:

(Start: 42 @40388 has 29 MA's), (Start: 45 @40382 has 53 MA's), (Start: 49 @40370 has 1 MA's), (67, 40304), (78, 40274), (83, 40250),

Gene: Edugator_53 Start: 40091, Stop: 40258, Start Num: 43

Candidate Starts for Edugator_53:

(24, 39989), (Start: 43 @40091 has 130 MA's), (46, 40103), (Start: 49 @40115 has 1 MA's), (54, 40139), (68, 40190), (80, 40232), (83, 40247), (84, 40250),

Gene: Efra2_64 Start: 41207, Stop: 41377, Start Num: 43

Candidate Starts for Efra2_64:

(Start: 43 @41207 has 130 MA's), (46, 41219), (50, 41234), (64, 41297), (67, 41309), (83, 41366), (84, 41369),

Gene: Eidsmoe_64 Start: 40004, Stop: 39855, Start Num: 42

Candidate Starts for Eidsmoe_64:

(Start: 42 @40004 has 29 MA's), (Start: 45 @39998 has 53 MA's), (Start: 49 @39986 has 1 MA's), (67, 39920), (78, 39890), (83, 39866),

Gene: EITiger69_64 Start: 40342, Stop: 40190, Start Num: 31

Candidate Starts for EITiger69_64:

(Start: 31 @40342 has 34 MA's), (33, 40336), (37, 40324), (75, 40237), (83, 40201),

Gene: Elephantoon_64 Start: 39594, Stop: 39445, Start Num: 91

Candidate Starts for Elephantoon_64:

(25, 39897), (53, 39756), (Start: 91 @39594 has 2 MA's), (93, 39576), (96, 39456),

Gene: Ellson_52 Start: 40476, Stop: 40637, Start Num: 45

Candidate Starts for Ellson_52:

(Start: 45 @40476 has 53 MA's), (Start: 49 @40491 has 1 MA's), (56, 40527), (61, 40542), (80, 40611), (83, 40626),

Gene: Emerson_61 Start: 41122, Stop: 41280, Start Num: 45

Candidate Starts for Emerson_61:

(Start: 43 @41116 has 130 MA's), (Start: 45 @41122 has 53 MA's), (Start: 49 @41140 has 1 MA's), (68, 41215), (83, 41269), (84, 41272),

Gene: EmyBug_63 Start: 40006, Stop: 39857, Start Num: 42

Candidate Starts for EmyBug_63:

(Start: 42 @40006 has 29 MA's), (Start: 45 @40000 has 53 MA's), (Start: 49 @39988 has 1 MA's), (67, 39922), (78, 39892), (83, 39868),

Gene: Eponine_65 Start: 41600, Stop: 41764, Start Num: 43

Candidate Starts for Eponine_65:

(12, 41375), (28, 41552), (32, 41573), (Start: 43 @41600 has 130 MA's), (Start: 49 @41624 has 1 MA's), (65, 41687), (76, 41720), (83, 41753),

Gene: Expelliarmus_64 Start: 39746, Stop: 39573, Start Num: 31

Candidate Starts for Expelliarmus_64:

(Start: 31 @39746 has 34 MA's), (37, 39728), (83, 39584),

Gene: ExplosioNervosa_64 Start: 40072, Stop: 39923, Start Num: 42

Candidate Starts for ExplosioNervosa_64:

(Start: 42 @40072 has 29 MA's), (Start: 45 @40066 has 53 MA's), (Start: 49 @40054 has 1 MA's), (67, 39988), (78, 39958), (83, 39934),

Gene: Fayely_64 Start: 39973, Stop: 39824, Start Num: 42

Candidate Starts for Fayely_64:

(Start: 42 @39973 has 29 MA's), (Start: 45 @39967 has 53 MA's), (Start: 49 @39955 has 1 MA's), (67, 39889), (78, 39859), (83, 39835),

Gene: Feyre_57 Start: 42050, Stop: 42217, Start Num: 43

Candidate Starts for Feyre_57:

(Start: 43 @42050 has 130 MA's), (46, 42062), (Start: 49 @42074 has 1 MA's), (54, 42098), (68, 42149), (80, 42191), (83, 42206), (84, 42209),

Gene: Finnry_52 Start: 40683, Stop: 40844, Start Num: 45

Candidate Starts for Finnry_52:

(Start: 45 @40683 has 53 MA's), (Start: 49 @40701 has 1 MA's), (56, 40737), (80, 40818), (83, 40833),

Gene: Fionnbharth_63 Start: 40998, Stop: 41162, Start Num: 43

Candidate Starts for Fionnbharth_63:

(12, 40773), (28, 40950), (32, 40971), (Start: 43 @40998 has 130 MA's), (Start: 49 @41022 has 1 MA's), (65, 41085), (76, 41118), (83, 41151),

Gene: FreakyGoo_120 Start: 63764, Stop: 63913, Start Num: 45

Candidate Starts for FreakyGoo_120:

(Start: 45 @63764 has 53 MA's), (48, 63776), (51, 63797), (52, 63800), (54, 63806), (60, 63827), (83, 63902),

Gene: Gail_65 Start: 41004, Stop: 40843, Start Num: 43

Candidate Starts for Gail_65:

(22, 41157), (Start: 43 @41004 has 130 MA's), (Start: 45 @40998 has 53 MA's), (63, 40926), (78, 40878), (83, 40854),

Gene: Ganymede_61 Start: 41511, Stop: 41675, Start Num: 43

Candidate Starts for Ganymede_61:

(Start: 43 @41511 has 130 MA's), (Start: 45 @41517 has 53 MA's), (Start: 49 @41535 has 1 MA's), (68, 41610), (78, 41640), (83, 41664), (84, 41667),

Gene: Gengar_54 Start: 40069, Stop: 40236, Start Num: 43

Candidate Starts for Gengar_54:

(4, 39766), (6, 39775), (24, 39967), (Start: 43 @40069 has 130 MA's), (46, 40081), (Start: 49 @40093 has 1 MA's), (54, 40117), (68, 40168), (80, 40210), (83, 40225), (84, 40228),

Gene: George_57 Start: 39712, Stop: 39560, Start Num: 31

Candidate Starts for George_57:

(Start: 31 @39712 has 34 MA's), (33, 39706), (37, 39694), (76, 39604),

Gene: Geraldini_63 Start: 42165, Stop: 42332, Start Num: 43

Candidate Starts for Geraldini_63:

(Start: 43 @42165 has 130 MA's), (Start: 45 @42171 has 53 MA's), (78, 42297), (80, 42306), (83, 42321),

Gene: Ghouboy_62 Start: 40604, Stop: 40452, Start Num: 31

Candidate Starts for Ghouboy_62:

(Start: 31 @40604 has 34 MA's), (37, 40586), (76, 40496), (83, 40463),

Gene: Glaske16_122 Start: 64397, Stop: 64546, Start Num: 45

Candidate Starts for Glaske16_122:

(Start: 45 @64397 has 53 MA's), (48, 64409), (51, 64430), (52, 64433), (54, 64439), (60, 64460), (83, 64535),

Gene: Groundhog_66 Start: 39946, Stop: 39773, Start Num: 31

Candidate Starts for Groundhog_66:

(Start: 31 @39946 has 34 MA's), (37, 39928), (61, 39850), (83, 39784),

Gene: Guanica15_63 Start: 40948, Stop: 41118, Start Num: 43

Candidate Starts for Guanica15_63:

(Start: 43 @40948 has 130 MA's), (46, 40960), (50, 40975), (64, 41038), (67, 41050), (83, 41107), (84, 41110),

Gene: Guillsminger_55 Start: 40040, Stop: 40207, Start Num: 43

Candidate Starts for Guillsminger_55:

(4, 39737), (6, 39746), (24, 39938), (Start: 43 @40040 has 130 MA's), (46, 40052), (Start: 49 @40064 has 1 MA's), (54, 40088), (68, 40139), (80, 40181), (83, 40196),

Gene: Hanray_64 Start: 40336, Stop: 40187, Start Num: 42

Candidate Starts for Hanray_64:

(Start: 42 @40336 has 29 MA's), (Start: 45 @40330 has 53 MA's), (Start: 49 @40318 has 1 MA's), (67, 40252), (78, 40222), (83, 40198),

Gene: HedwigODU_60 Start: 41125, Stop: 41289, Start Num: 43

Candidate Starts for HedwigODU_60:

(35, 41110), (Start: 43 @41125 has 130 MA's), (Start: 45 @41131 has 53 MA's), (Start: 49 @41149 has 1 MA's), (83, 41278), (84, 41281),

Gene: Heftyboy_55 Start: 40412, Stop: 40579, Start Num: 43

Candidate Starts for Heftyboy_55:

(4, 40109), (6, 40118), (24, 40310), (Start: 43 @40412 has 130 MA's), (46, 40424), (Start: 49 @40436 has 1 MA's), (54, 40460), (68, 40511), (80, 40553), (83, 40568),

Gene: Horex_64 Start: 40352, Stop: 40203, Start Num: 42

Candidate Starts for Horex_64:

(Start: 42 @40352 has 29 MA's), (Start: 45 @40346 has 53 MA's), (Start: 49 @40334 has 1 MA's), (67, 40268), (78, 40238), (83, 40214),

Gene: Homura_60 Start: 41250, Stop: 41414, Start Num: 43

Candidate Starts for Homura_60:

(Start: 43 @41250 has 130 MA's), (Start: 45 @41256 has 53 MA's), (Start: 49 @41274 has 1 MA's), (68, 41349), (83, 41403), (84, 41406),

Gene: HortumSL17_67 Start: 40420, Stop: 40271, Start Num: 42

Candidate Starts for HortumSL17_67:

(Start: 42 @40420 has 29 MA's), (Start: 45 @40414 has 53 MA's), (Start: 49 @40402 has 1 MA's), (67, 40336), (78, 40306), (83, 40282),

Gene: Hyperbowlee_60 Start: 41447, Stop: 41611, Start Num: 43

Candidate Starts for Hyperbowlee_60:

(Start: 43 @41447 has 130 MA's), (Start: 45 @41453 has 53 MA's), (Start: 49 @41471 has 1 MA's), (68, 41546), (83, 41600), (84, 41603),

Gene: IPHane7_117 Start: 63284, Stop: 63433, Start Num: 45

Candidate Starts for IPHane7_117:

(Start: 45 @63284 has 53 MA's), (48, 63296), (51, 63317), (52, 63320), (54, 63326), (60, 63347), (83, 63422),

Gene: Illumine_65 Start: 42667, Stop: 42828, Start Num: 43

Candidate Starts for Illumine_65:

(Start: 43 @42667 has 130 MA's), (Start: 45 @42673 has 53 MA's), (Start: 49 @42691 has 1 MA's), (68, 42763), (83, 42817), (84, 42820),

Gene: Inky_60 Start: 41250, Stop: 41414, Start Num: 43

Candidate Starts for Inky_60:

(Start: 43 @41250 has 130 MA's), (Start: 45 @41256 has 53 MA's), (Start: 49 @41274 has 1 MA's), (68, 41349), (83, 41403), (84, 41406),

Gene: InvictusManeo_52 Start: 38368, Stop: 38535, Start Num: 43

Candidate Starts for InvictusManeo_52:

(24, 38266), (Start: 43 @38368 has 130 MA's), (46, 38380), (Start: 49 @38392 has 1 MA's), (54, 38416), (68, 38467), (83, 38524), (84, 38527),

Gene: Izel_120 Start: 63279, Stop: 63428, Start Num: 45

Candidate Starts for Izel_120:

(Start: 45 @63279 has 53 MA's), (48, 63291), (51, 63312), (52, 63315), (54, 63321), (60, 63342), (83, 63417),

Gene: JAWS_60 Start: 41105, Stop: 41263, Start Num: 43

Candidate Starts for JAWS_60:

(Start: 43 @41105 has 130 MA's), (Start: 45 @41111 has 53 MA's), (Start: 49 @41129 has 1 MA's), (68, 41198), (83, 41252), (84, 41255),

Gene: JF1_63 Start: 40915, Stop: 41079, Start Num: 43

Candidate Starts for JF1_63:

(12, 40690), (28, 40867), (32, 40888), (Start: 43 @40915 has 130 MA's), (Start: 49 @40939 has 1 MA's), (65, 41002), (76, 41035), (83, 41068),

Gene: Jabiru_63 Start: 40261, Stop: 40109, Start Num: 31

Candidate Starts for Jabiru_63:

(Start: 31 @40261 has 34 MA's), (33, 40255), (37, 40243), (75, 40156), (83, 40120),

Gene: Jarvi_60 Start: 41250, Stop: 41414, Start Num: 43

Candidate Starts for Jarvi_60:

(Start: 43 @41250 has 130 MA's), (Start: 45 @41256 has 53 MA's), (Start: 49 @41274 has 1 MA's), (68, 41349), (83, 41403), (84, 41406),

Gene: Jayhawk_61 Start: 41120, Stop: 41284, Start Num: 43

Candidate Starts for Jayhawk_61:

(Start: 43 @41120 has 130 MA's), (Start: 45 @41126 has 53 MA's), (78, 41249), (80, 41258), (83, 41273), (84, 41276),

Gene: Jeckyll_60 Start: 41250, Stop: 41414, Start Num: 43

Candidate Starts for Jeckyll_60:

(Start: 43 @41250 has 130 MA's), (Start: 45 @41256 has 53 MA's), (Start: 49 @41274 has 1 MA's), (68, 41349), (83, 41403), (84, 41406),

Gene: Jeeves_67 Start: 39998, Stop: 39837, Start Num: 43

Candidate Starts for Jeeves_67:

(22, 40151), (Start: 43 @39998 has 130 MA's), (Start: 45 @39992 has 53 MA's), (63, 39920), (78, 39872), (83, 39848),

Gene: Jiawan_63 Start: 40368, Stop: 40219, Start Num: 42

Candidate Starts for Jiawan_63:

(Start: 42 @40368 has 29 MA's), (Start: 45 @40362 has 53 MA's), (Start: 49 @40350 has 1 MA's), (67, 40284), (78, 40254), (83, 40230),

Gene: Jobypre_53 Start: 40418, Stop: 40576, Start Num: 45

Candidate Starts for Jobypre_53:

(Start: 45 @40418 has 53 MA's), (Start: 49 @40436 has 1 MA's), (56, 40472), (80, 40550), (83, 40565),

Gene: Joy99_60 Start: 41179, Stop: 41343, Start Num: 43
Candidate Starts for Joy99_60:
(Start: 43 @41179 has 130 MA's), (Start: 45 @41185 has 53 MA's), (Start: 49 @41203 has 1 MA's),
(68, 41278), (83, 41332), (84, 41335),

Gene: Jsquared_65 Start: 39590, Stop: 39438, Start Num: 45
Candidate Starts for Jsquared_65:
(Start: 45 @39590 has 53 MA's), (74, 39497), (78, 39485), (83, 39461),

Gene: Jubie_52 Start: 40553, Stop: 40711, Start Num: 45
Candidate Starts for Jubie_52:
(Start: 45 @40553 has 53 MA's), (Start: 49 @40571 has 1 MA's), (56, 40607), (80, 40685), (83, 40700),

Gene: Juliette_65 Start: 41062, Stop: 41226, Start Num: 43
Candidate Starts for Juliette_65:
(12, 40837), (28, 41014), (32, 41035), (Start: 43 @41062 has 130 MA's), (Start: 49 @41086 has 1
MA's), (65, 41149), (76, 41182), (83, 41215),

Gene: Keziacharles14_65 Start: 41367, Stop: 41209, Start Num: 39
Candidate Starts for Keziacharles14_65:
(Start: 39 @41367 has 2 MA's), (Start: 42 @41358 has 29 MA's), (65, 41274), (83, 41220),

Gene: Kingsolomon_52 Start: 40419, Stop: 40580, Start Num: 45
Candidate Starts for Kingsolomon_52:
(Start: 45 @40419 has 53 MA's), (Start: 49 @40437 has 1 MA's), (56, 40473), (80, 40554), (83, 40569),

Gene: Kinmap_63 Start: 38733, Stop: 38560, Start Num: 45
Candidate Starts for Kinmap_63:
(29, 38793), (Start: 45 @38733 has 53 MA's), (Start: 49 @38715 has 1 MA's), (67, 38634), (78, 38601),
(83, 38577),

Gene: KirDoubleO7_51 Start: 40465, Stop: 40611, Start Num: 49
Candidate Starts for KirDoubleO7_51:
(Start: 45 @40450 has 53 MA's), (Start: 49 @40465 has 1 MA's), (56, 40501), (61, 40516), (80, 40585),
(83, 40600),

Gene: KleverKiS_122 Start: 64769, Stop: 64918, Start Num: 45
Candidate Starts for KleverKiS_122:
(Start: 45 @64769 has 53 MA's), (48, 64781), (51, 64802), (52, 64805), (54, 64811), (60, 64832), (83,
64907),

Gene: Klodlith_63 Start: 39818, Stop: 39657, Start Num: 42
Candidate Starts for Klodlith_63:
(11, 40076), (Start: 39 @39827 has 2 MA's), (Start: 42 @39818 has 29 MA's), (83, 39668),

Gene: Koduck_65 Start: 39435, Stop: 39292, Start Num: 45
Candidate Starts for Koduck_65:
(18, 39636), (23, 39603), (Start: 45 @39435 has 53 MA's), (46, 39429), (83, 39303), (84, 39300),

Gene: Kratio_52 Start: 38110, Stop: 38277, Start Num: 43
Candidate Starts for Kratio_52:
(24, 38008), (Start: 43 @38110 has 130 MA's), (46, 38122), (48, 38128), (Start: 49 @38134 has 1
MA's), (54, 38158), (68, 38209), (83, 38266), (84, 38269),

Gene: Kraw_63 Start: 40750, Stop: 40914, Start Num: 43

Candidate Starts for Kraw_63:

(12, 40525), (28, 40702), (32, 40723), (Start: 43 @40750 has 130 MA's), (Start: 49 @40774 has 1 MA's), (65, 40837), (76, 40870), (83, 40903),

Gene: Krypton555_54 Start: 40655, Stop: 40813, Start Num: 45

Candidate Starts for Krypton555_54:

(Start: 45 @40655 has 53 MA's), (83, 40802),

Gene: L5_60 Start: 39522, Stop: 39379, Start Num: 45

Candidate Starts for L5_60:

(18, 39723), (Start: 45 @39522 has 53 MA's), (46, 39516), (83, 39390), (84, 39387),

Gene: Larva_55 Start: 39542, Stop: 39709, Start Num: 43

Candidate Starts for Larva_55:

(24, 39440), (Start: 43 @39542 has 130 MA's), (46, 39554), (Start: 49 @39566 has 1 MA's), (54, 39590), (68, 39641), (80, 39683), (83, 39698), (84, 39701),

Gene: LastHope_63 Start: 40287, Stop: 40457, Start Num: 43

Candidate Starts for LastHope_63:

(10, 40026), (Start: 43 @40287 has 130 MA's), (46, 40299), (64, 40377), (67, 40389), (83, 40446), (84, 40449),

Gene: LaterM_60 Start: 41716, Stop: 41877, Start Num: 43

Candidate Starts for LaterM_60:

(20, 41548), (21, 41566), (Start: 43 @41716 has 130 MA's), (Start: 45 @41722 has 53 MA's), (Start: 49 @41740 has 1 MA's), (78, 41842), (83, 41866), (84, 41869),

Gene: Lebo14_62 Start: 41083, Stop: 41247, Start Num: 43

Candidate Starts for Lebo14_62:

(12, 40858), (28, 41035), (32, 41056), (Start: 43 @41083 has 130 MA's), (65, 41170), (76, 41203), (83, 41236),

Gene: Leston_54 Start: 40169, Stop: 40336, Start Num: 43

Candidate Starts for Leston_54:

(4, 39866), (6, 39875), (24, 40067), (Start: 43 @40169 has 130 MA's), (46, 40181), (Start: 49 @40193 has 1 MA's), (54, 40217), (68, 40268), (80, 40310), (83, 40325),

Gene: LilDirt_51 Start: 38138, Stop: 38293, Start Num: 46

Candidate Starts for LilDirt_51:

(24, 38024), (Start: 43 @38126 has 130 MA's), (46, 38138), (Start: 49 @38150 has 1 MA's), (54, 38174), (68, 38225), (83, 38282), (84, 38285),

Gene: LilhomieP_119 Start: 64562, Stop: 64711, Start Num: 45

Candidate Starts for LilhomieP_119:

(Start: 45 @64562 has 53 MA's), (48, 64574), (51, 64595), (52, 64598), (54, 64604), (60, 64625), (83, 64700),

Gene: Lilleskat_62 Start: 40204, Stop: 40055, Start Num: 42

Candidate Starts for Lilleskat_62:

(Start: 42 @40204 has 29 MA's), (Start: 45 @40198 has 53 MA's), (Start: 49 @40186 has 1 MA's), (67, 40120), (78, 40090), (83, 40066),

Gene: LindNT_59 Start: 41322, Stop: 41486, Start Num: 43

Candidate Starts for LindNT_59:

(Start: 43 @41322 has 130 MA's), (Start: 45 @41328 has 53 MA's), (Start: 49 @41346 has 1 MA's), (83, 41475), (84, 41478),

Gene: LiyuLake_52 Start: 40481, Stop: 40627, Start Num: 49

Candidate Starts for LiyuLake_52:

(Start: 45 @40466 has 53 MA's), (Start: 49 @40481 has 1 MA's), (56, 40517), (61, 40532), (80, 40601), (83, 40616),

Gene: Llorens_60 Start: 41250, Stop: 41414, Start Num: 43

Candidate Starts for Llorens_60:

(Start: 43 @41250 has 130 MA's), (Start: 45 @41256 has 53 MA's), (Start: 49 @41274 has 1 MA's), (68, 41349), (83, 41403), (84, 41406),

Gene: Lolly9_52 Start: 40240, Stop: 40398, Start Num: 45

Candidate Starts for Lolly9_52:

(Start: 45 @40240 has 53 MA's), (Start: 49 @40258 has 1 MA's), (56, 40294), (83, 40387),

Gene: LoneWolf_66 Start: 40322, Stop: 40173, Start Num: 42

Candidate Starts for LoneWolf_66:

(Start: 42 @40322 has 29 MA's), (Start: 45 @40316 has 53 MA's), (Start: 49 @40304 has 1 MA's), (64, 40244), (67, 40238), (83, 40184),

Gene: Luchador_66 Start: 41501, Stop: 41346, Start Num: 31

Candidate Starts for Luchador_66:

(Start: 31 @41501 has 34 MA's), (37, 41483), (62, 41411), (76, 41390), (78, 41381), (81, 41366), (83, 41357),

Gene: Lumos_54 Start: 40415, Stop: 40573, Start Num: 45

Candidate Starts for Lumos_54:

(Start: 45 @40415 has 53 MA's), (Start: 49 @40433 has 1 MA's), (56, 40469), (80, 40547), (83, 40562),

Gene: Lunahalos_60 Start: 41250, Stop: 41414, Start Num: 43

Candidate Starts for Lunahalos_60:

(Start: 43 @41250 has 130 MA's), (Start: 45 @41256 has 53 MA's), (Start: 49 @41274 has 1 MA's), (68, 41349), (83, 41403), (84, 41406),

Gene: MacKat_55 Start: 36582, Stop: 36746, Start Num: 43

Candidate Starts for MacKat_55:

(Start: 43 @36582 has 130 MA's), (Start: 45 @36588 has 53 MA's), (Start: 49 @36606 has 1 MA's), (68, 36681), (83, 36735), (84, 36738),

Gene: MajorMajor_63 Start: 39432, Stop: 39280, Start Num: 45

Candidate Starts for MajorMajor_63:

(29, 39489), (Start: 45 @39432 has 53 MA's), (74, 39339), (78, 39327), (83, 39303),

Gene: Malthus_64 Start: 40750, Stop: 40914, Start Num: 43

Candidate Starts for Malthus_64:

(12, 40525), (28, 40702), (32, 40723), (Start: 43 @40750 has 130 MA's), (Start: 49 @40774 has 1 MA's), (65, 40837), (76, 40870), (83, 40903),

Gene: Maminaiaina_65 Start: 40300, Stop: 40151, Start Num: 42

Candidate Starts for Maminaiaina_65:

(Start: 42 @40300 has 29 MA's), (Start: 49 @40282 has 1 MA's), (64, 40222), (67, 40216), (78, 40186), (83, 40162),

Gene: MarysWell_60 Start: 40282, Stop: 40133, Start Num: 31

Candidate Starts for MarysWell_60:

(Start: 31 @40282 has 34 MA's), (33, 40276), (Start: 42 @40249 has 29 MA's), (76, 40177), (83, 40144),

Gene: MeaningOfLife_61 Start: 41993, Stop: 42157, Start Num: 43

Candidate Starts for MeaningOfLife_61:

(Start: 43 @41993 has 130 MA's), (Start: 45 @41999 has 53 MA's), (Start: 49 @42017 has 1 MA's), (68, 42092), (78, 42122), (83, 42146), (84, 42149),

Gene: MegTheThird_63 Start: 39861, Stop: 39703, Start Num: 42

Candidate Starts for MegTheThird_63:

(Start: 39 @39870 has 2 MA's), (Start: 42 @39861 has 29 MA's), (64, 39783), (72, 39759), (78, 39738), (83, 39714),

Gene: Megsy_62 Start: 41393, Stop: 41554, Start Num: 43

Candidate Starts for Megsy_62:

(9, 41132), (Start: 43 @41393 has 130 MA's), (Start: 45 @41399 has 53 MA's), (Start: 49 @41417 has 1 MA's), (68, 41489), (80, 41528), (83, 41543), (84, 41546),

Gene: Mendokysei_52 Start: 37971, Stop: 38135, Start Num: 77

Candidate Starts for Mendokysei_52:

(1, 37329), (5, 37518), (19, 37641), (58, 37905), (69, 37944), (Start: 77 @37971 has 1 MA's), (82, 37998), (92, 38061), (94, 38085),

Gene: Micasa_60 Start: 40004, Stop: 39855, Start Num: 31

Candidate Starts for Micasa_60:

(Start: 31 @40004 has 34 MA's), (33, 39998), (Start: 42 @39971 has 29 MA's), (75, 39902), (76, 39899), (83, 39866),

Gene: Midas2_59 Start: 40182, Stop: 40030, Start Num: 31

Candidate Starts for Midas2_59:

(Start: 31 @40182 has 34 MA's), (33, 40176), (37, 40164), (76, 40074), (83, 40041),

Gene: Milcery_60 Start: 39680, Stop: 39528, Start Num: 31

Candidate Starts for Milcery_60:

(Start: 31 @39680 has 34 MA's), (33, 39674), (37, 39662), (76, 39572), (83, 39539),

Gene: MiniLon_55 Start: 40241, Stop: 40399, Start Num: 45

Candidate Starts for MiniLon_55:

(Start: 45 @40241 has 53 MA's), (Start: 49 @40259 has 1 MA's), (56, 40295), (83, 40388),

Gene: MiniMac_55 Start: 40239, Stop: 40397, Start Num: 45

Candidate Starts for MiniMac_55:

(Start: 45 @40239 has 53 MA's), (Start: 49 @40257 has 1 MA's), (56, 40293), (83, 40386),

Gene: Minispark_63 Start: 39907, Stop: 39758, Start Num: 42

Candidate Starts for Minispark_63:

(Start: 39 @39916 has 2 MA's), (Start: 42 @39907 has 29 MA's), (65, 39826), (67, 39823), (83, 39769),

Gene: Miryou_58 Start: 42766, Stop: 42933, Start Num: 43

Candidate Starts for Miryou_58:

(Start: 43 @42766 has 130 MA's), (46, 42778), (Start: 49 @42790 has 1 MA's), (54, 42814), (68, 42865), (80, 42907), (83, 42922), (84, 42925),

Gene: MissDaisy_60 Start: 39674, Stop: 39826, Start Num: 47

Candidate Starts for MissDaisy_60:

(Start: 47 @39674 has 3 MA's), (65, 39749), (76, 39782), (83, 39815),

Gene: Mitti_63 Start: 40929, Stop: 41093, Start Num: 43

Candidate Starts for Mitti_63:

(12, 40704), (28, 40881), (32, 40902), (Start: 43 @40929 has 130 MA's), (Start: 49 @40953 has 1 MA's), (65, 41016), (76, 41049), (83, 41082),

Gene: Moostard_52 Start: 40421, Stop: 40579, Start Num: 45

Candidate Starts for Moostard_52:

(Start: 45 @40421 has 53 MA's), (Start: 49 @40439 has 1 MA's), (56, 40475), (80, 40553), (83, 40568),

Gene: MsGreen_52 Start: 40418, Stop: 40576, Start Num: 45

Candidate Starts for MsGreen_52:

(Start: 45 @40418 has 53 MA's), (Start: 49 @40436 has 1 MA's), (56, 40472), (80, 40550), (83, 40565),

Gene: Murucutumbu_61 Start: 42093, Stop: 42257, Start Num: 43

Candidate Starts for Murucutumbu_61:

(Start: 43 @42093 has 130 MA's), (Start: 45 @42099 has 53 MA's), (Start: 49 @42117 has 1 MA's), (83, 42246), (84, 42249),

Gene: Mynx_61 Start: 41435, Stop: 41599, Start Num: 43

Candidate Starts for Mynx_61:

(Start: 43 @41435 has 130 MA's), (Start: 45 @41441 has 53 MA's), (Start: 49 @41459 has 1 MA's), (68, 41534), (83, 41588), (84, 41591),

Gene: MyraDee_60 Start: 36959, Stop: 36816, Start Num: 45

Candidate Starts for MyraDee_60:

(27, 37049), (Start: 45 @36959 has 53 MA's), (46, 36953), (64, 36881), (70, 36875), (78, 36851), (83, 36827),

Gene: Myxus_66 Start: 40420, Stop: 40271, Start Num: 42

Candidate Starts for Myxus_66:

(Start: 42 @40420 has 29 MA's), (Start: 45 @40414 has 53 MA's), (Start: 49 @40402 has 1 MA's), (67, 40336), (78, 40306), (83, 40282),

Gene: Naca_62 Start: 40646, Stop: 40494, Start Num: 31

Candidate Starts for Naca_62:

(Start: 31 @40646 has 34 MA's), (33, 40640), (37, 40628), (75, 40541), (83, 40505),

Gene: NearlyHeadless_67 Start: 39788, Stop: 39615, Start Num: 31

Candidate Starts for NearlyHeadless_67:

(Start: 31 @39788 has 34 MA's), (37, 39770), (61, 39692), (83, 39626),

Gene: Neighly_56 Start: 39541, Stop: 39708, Start Num: 43

Candidate Starts for Neighly_56:

(24, 39439), (Start: 43 @39541 has 130 MA's), (46, 39553), (Start: 49 @39565 has 1 MA's), (54, 39589), (68, 39640), (80, 39682), (83, 39697), (84, 39700),

Gene: Nette_55 Start: 37980, Stop: 38144, Start Num: 77

Candidate Starts for Nette_55:

(1, 37338), (5, 37527), (19, 37650), (58, 37914), (69, 37953), (Start: 77 @37980 has 1 MA's), (82, 38007), (92, 38070), (94, 38094),

Gene: Nicholas_52 Start: 40419, Stop: 40580, Start Num: 45

Candidate Starts for Nicholas_52:

(Start: 45 @40419 has 53 MA's), (Start: 49 @40437 has 1 MA's), (56, 40473), (80, 40554), (83, 40569),

Gene: Odin_63 Start: 39209, Stop: 39057, Start Num: 45

Candidate Starts for Odin_63:

(26, 39308), (Start: 45 @39209 has 53 MA's), (74, 39116), (78, 39104), (83, 39080), (84, 39077),

Gene: OkiRoe_55 Start: 40437, Stop: 40604, Start Num: 43

Candidate Starts for OkiRoe_55:

(Start: 43 @40437 has 130 MA's), (46, 40449), (Start: 49 @40461 has 1 MA's), (54, 40485), (68, 40536), (80, 40578), (83, 40593), (84, 40596),

Gene: OmniCritical_62 Start: 40819, Stop: 40983, Start Num: 43

Candidate Starts for OmniCritical_62:

(12, 40579), (28, 40771), (32, 40792), (Start: 43 @40819 has 130 MA's), (Start: 49 @40843 has 1 MA's), (65, 40906), (76, 40939), (83, 40972),

Gene: Omnicron_58 Start: 40537, Stop: 40707, Start Num: 43

Candidate Starts for Omnicron_58:

(24, 40435), (Start: 43 @40537 has 130 MA's), (46, 40549), (48, 40555), (Start: 49 @40561 has 1 MA's), (54, 40585), (68, 40639), (80, 40681), (83, 40696),

Gene: Onglai_64 Start: 38624, Stop: 38475, Start Num: 42

Candidate Starts for Onglai_64:

(Start: 42 @38624 has 29 MA's), (Start: 45 @38618 has 53 MA's), (Start: 49 @38606 has 1 MA's), (67, 38540), (78, 38510), (83, 38486),

Gene: PackMan_65 Start: 40295, Stop: 40146, Start Num: 42

Candidate Starts for PackMan_65:

(Start: 42 @40295 has 29 MA's), (Start: 45 @40289 has 53 MA's), (Start: 49 @40277 has 1 MA's), (67, 40211), (78, 40181), (83, 40157),

Gene: Padfoot_60 Start: 41453, Stop: 41611, Start Num: 45

Candidate Starts for Padfoot_60:

(Start: 43 @41447 has 130 MA's), (Start: 45 @41453 has 53 MA's), (Start: 49 @41471 has 1 MA's), (68, 41546), (83, 41600), (84, 41603),

Gene: Padpat_62 Start: 41116, Stop: 41280, Start Num: 43

Candidate Starts for Padpat_62:

(Start: 43 @41116 has 130 MA's), (Start: 45 @41122 has 53 MA's), (Start: 49 @41140 has 1 MA's), (68, 41215), (83, 41269), (84, 41272),

Gene: Paola_54 Start: 40040, Stop: 40207, Start Num: 43

Candidate Starts for Paola_54:

(4, 39737), (6, 39746), (24, 39938), (Start: 43 @40040 has 130 MA's), (46, 40052), (Start: 49 @40064 has 1 MA's), (54, 40088), (68, 40139), (80, 40181), (83, 40196),

Gene: Patt_59 Start: 39398, Stop: 39550, Start Num: 47

Candidate Starts for Patt_59:

(Start: 47 @39398 has 3 MA's), (65, 39473), (76, 39506), (83, 39539),

Gene: Peel_60 Start: 41252, Stop: 41416, Start Num: 43

Candidate Starts for Peel_60:

(Start: 43 @41252 has 130 MA's), (Start: 45 @41258 has 53 MA's), (Start: 49 @41276 has 1 MA's), (68, 41351), (83, 41405), (84, 41408),

Gene: PegLeg_123 Start: 64446, Stop: 64595, Start Num: 45

Candidate Starts for PegLeg_123:

(Start: 45 @64446 has 53 MA's), (48, 64458), (51, 64479), (52, 64482), (54, 64488), (60, 64509), (83, 64584),

Gene: PetterN_67 Start: 40392, Stop: 40240, Start Num: 31

Candidate Starts for PetterN_67:

(Start: 31 @40392 has 34 MA's), (33, 40386), (37, 40374), (75, 40287), (83, 40251),

Gene: Ph8s_65 Start: 39383, Stop: 39240, Start Num: 45

Candidate Starts for Ph8s_65:

(Start: 45 @39383 has 53 MA's), (48, 39371), (70, 39299), (73, 39290), (84, 39248),

Gene: Phaeder_66 Start: 40295, Stop: 40146, Start Num: 42

Candidate Starts for Phaeder_66:

(Start: 42 @40295 has 29 MA's), (Start: 45 @40289 has 53 MA's), (Start: 49 @40277 has 1 MA's), (67, 40211), (78, 40181), (83, 40157),

Gene: Pharaoh_59 Start: 39999, Stop: 39856, Start Num: 45

Candidate Starts for Pharaoh_59:

(Start: 45 @39999 has 53 MA's), (71, 39912), (78, 39891), (83, 39867), (84, 39864),

Gene: Phillis_64 Start: 39236, Stop: 39063, Start Num: 31

Candidate Starts for Phillis_64:

(Start: 31 @39236 has 34 MA's), (37, 39218), (83, 39074), (85, 39068),

Gene: Phonnegut_67 Start: 40517, Stop: 40368, Start Num: 42

Candidate Starts for Phonnegut_67:

(Start: 42 @40517 has 29 MA's), (Start: 45 @40511 has 53 MA's), (Start: 49 @40499 has 1 MA's), (67, 40433), (78, 40403), (83, 40379),

Gene: Piatt_60 Start: 41447, Stop: 41611, Start Num: 43

Candidate Starts for Piatt_60:

(Start: 43 @41447 has 130 MA's), (Start: 45 @41453 has 53 MA's), (Start: 49 @41471 has 1 MA's), (68, 41546), (83, 41600), (84, 41603),

Gene: Pioneer_67 Start: 40517, Stop: 40368, Start Num: 42

Candidate Starts for Pioneer_67:

(Start: 42 @40517 has 29 MA's), (Start: 45 @40511 has 53 MA's), (Start: 49 @40499 has 1 MA's), (67, 40433), (78, 40403), (83, 40379),

Gene: Pisa1_60 Start: 42104, Stop: 42259, Start Num: 45

Candidate Starts for Pisa1_60:

(Start: 43 @42098 has 130 MA's), (Start: 45 @42104 has 53 MA's), (Start: 49 @42122 has 1 MA's), (50, 42125), (56, 42158), (78, 42224), (83, 42248), (84, 42251),

Gene: Pisa4_54 Start: 37473, Stop: 37628, Start Num: 45

Candidate Starts for Pisa4_54:

(Start: 43 @37467 has 130 MA's), (Start: 45 @37473 has 53 MA's), (Start: 49 @37491 has 1 MA's), (50, 37494), (56, 37527), (78, 37593), (83, 37617), (84, 37620),

Gene: Pokerus_59 Start: 41165, Stop: 41332, Start Num: 43

Candidate Starts for Pokerus_59:

(Start: 43 @41165 has 130 MA's), (68, 41267), (78, 41297), (83, 41321),

Gene: Prithvi_61 Start: 41322, Stop: 41486, Start Num: 43

Candidate Starts for Prithvi_61:

(Start: 43 @41322 has 130 MA's), (Start: 45 @41328 has 53 MA's), (Start: 49 @41346 has 1 MA's), (83, 41475), (84, 41478),

Gene: Priya_64 Start: 40007, Stop: 39858, Start Num: 42

Candidate Starts for Priya_64:

(Start: 42 @40007 has 29 MA's), (Start: 45 @40001 has 53 MA's), (Start: 49 @39989 has 1 MA's), (67, 39923), (78, 39893), (83, 39869),

Gene: Psycho_54 Start: 38667, Stop: 38834, Start Num: 43

Candidate Starts for Psycho_54:

(24, 38565), (Start: 43 @38667 has 130 MA's), (46, 38679), (Start: 49 @38691 has 1 MA's), (54, 38715), (68, 38766), (80, 38808), (83, 38823), (84, 38826),

Gene: Qhanda_65 Start: 40766, Stop: 40930, Start Num: 43

Candidate Starts for Qhanda_65:

(12, 40541), (28, 40718), (32, 40739), (Start: 43 @40766 has 130 MA's), (Start: 49 @40790 has 1 MA's), (65, 40853), (76, 40886), (83, 40919),

Gene: Qobbit_64 Start: 39969, Stop: 39820, Start Num: 42

Candidate Starts for Qobbit_64:

(Start: 42 @39969 has 29 MA's), (Start: 45 @39963 has 53 MA's), (Start: 49 @39951 has 1 MA's), (67, 39885), (78, 39855), (83, 39831),

Gene: QuincyRose_59 Start: 41511, Stop: 41675, Start Num: 43

Candidate Starts for QuincyRose_59:

(Start: 43 @41511 has 130 MA's), (Start: 45 @41517 has 53 MA's), (Start: 49 @41535 has 1 MA's), (68, 41610), (78, 41640), (83, 41664), (84, 41667),

Gene: Quokka_63 Start: 39432, Stop: 39280, Start Num: 45

Candidate Starts for Quokka_63:

(29, 39489), (Start: 45 @39432 has 53 MA's), (74, 39339), (78, 39327), (83, 39303),

Gene: Rahalelujah_65 Start: 39922, Stop: 39773, Start Num: 42

Candidate Starts for Rahalelujah_65:

(Start: 39 @39931 has 2 MA's), (Start: 42 @39922 has 29 MA's), (65, 39841), (67, 39838), (83, 39784),

Gene: Ramen_61 Start: 41127, Stop: 41291, Start Num: 43
Candidate Starts for Ramen_61:
(35, 41112), (Start: 43 @41127 has 130 MA's), (Start: 45 @41133 has 53 MA's), (Start: 49 @41151 has 1 MA's), (83, 41280), (84, 41283),

Gene: Rando14_56 Start: 38237, Stop: 38407, Start Num: 43
Candidate Starts for Rando14_56:
(24, 38135), (Start: 43 @38237 has 130 MA's), (46, 38249), (48, 38255), (Start: 49 @38261 has 1 MA's), (54, 38285), (68, 38339), (80, 38381), (83, 38396), (84, 38399),

Gene: Rapunzel97_61 Start: 41114, Stop: 41278, Start Num: 43
Candidate Starts for Rapunzel97_61:
(Start: 43 @41114 has 130 MA's), (Start: 45 @41120 has 53 MA's), (Start: 49 @41138 has 1 MA's), (68, 41213), (78, 41243), (80, 41252), (83, 41267),

Gene: Red305_53 Start: 40418, Stop: 40576, Start Num: 45
Candidate Starts for Red305_53:
(Start: 45 @40418 has 53 MA's), (Start: 49 @40436 has 1 MA's), (56, 40472), (80, 40550), (83, 40565),

Gene: Refuge_61 Start: 41137, Stop: 40997, Start Num: 45
Candidate Starts for Refuge_61:
(36, 41164), (Start: 45 @41137 has 53 MA's), (46, 41131), (Start: 49 @41119 has 1 MA's), (78, 41032), (83, 41008),

Gene: Reindeer_120 Start: 64620, Stop: 64802, Start Num: 34
Candidate Starts for Reindeer_120:
(Start: 34 @64620 has 1 MA's), (Start: 45 @64659 has 53 MA's), (Start: 49 @64677 has 1 MA's), (50, 64680), (51, 64692), (62, 64731), (75, 64758), (78, 64767), (83, 64791),

Gene: Reptar3000_60 Start: 39386, Stop: 39538, Start Num: 47
Candidate Starts for Reptar3000_60:
(Start: 47 @39386 has 3 MA's), (65, 39461), (76, 39494), (83, 39527),

Gene: Roary_68 Start: 40007, Stop: 39834, Start Num: 31
Candidate Starts for Roary_68:
(Start: 31 @40007 has 34 MA's), (37, 39989), (83, 39845),

Gene: Rosmarinus_60 Start: 41238, Stop: 41402, Start Num: 43
Candidate Starts for Rosmarinus_60:
(Start: 43 @41238 has 130 MA's), (Start: 45 @41244 has 53 MA's), (Start: 49 @41262 has 1 MA's), (68, 41337), (83, 41391), (84, 41394),

Gene: Ruthiejr_64 Start: 40800, Stop: 40964, Start Num: 43
Candidate Starts for Ruthiejr_64:
(12, 40575), (28, 40752), (32, 40773), (Start: 43 @40800 has 130 MA's), (Start: 49 @40824 has 1 MA's), (65, 40887), (76, 40920), (83, 40953),

Gene: RyeScarlet_68 Start: 40492, Stop: 40343, Start Num: 42
Candidate Starts for RyeScarlet_68:
(Start: 42 @40492 has 29 MA's), (Start: 45 @40486 has 53 MA's), (Start: 49 @40474 has 1 MA's), (67, 40408), (78, 40378), (83, 40354),

Gene: Sachima_62 Start: 40321, Stop: 40172, Start Num: 42

Candidate Starts for Sachima_62:

(Start: 42 @40321 has 29 MA's), (Start: 45 @40315 has 53 MA's), (Start: 49 @40303 has 1 MA's), (67, 40237), (78, 40207), (83, 40183),

Gene: Saintus_62 Start: 36672, Stop: 36499, Start Num: 31

Candidate Starts for Saintus_62:

(Start: 31 @36672 has 34 MA's), (37, 36654), (83, 36510),

Gene: SamScheppers_61 Start: 41229, Stop: 41393, Start Num: 43

Candidate Starts for SamScheppers_61:

(12, 41004), (28, 41181), (32, 41202), (Start: 43 @41229 has 130 MA's), (Start: 49 @41253 has 1 MA's), (65, 41316), (76, 41349), (83, 41382),

Gene: Samty_52 Start: 40420, Stop: 40581, Start Num: 45

Candidate Starts for Samty_52:

(Start: 45 @40420 has 53 MA's), (Start: 49 @40438 has 1 MA's), (56, 40474), (80, 40555), (83, 40570),

Gene: SamuelLPlaqson_61 Start: 42019, Stop: 42177, Start Num: 43

Candidate Starts for SamuelLPlaqson_61:

(Start: 43 @42019 has 130 MA's), (Start: 45 @42025 has 53 MA's), (Start: 49 @42043 has 1 MA's), (50, 42046), (78, 42142), (83, 42166), (84, 42169),

Gene: Scherzo_66 Start: 40652, Stop: 40503, Start Num: 42

Candidate Starts for Scherzo_66:

(Start: 42 @40652 has 29 MA's), (Start: 45 @40646 has 53 MA's), (Start: 49 @40634 has 1 MA's), (64, 40574), (67, 40568), (83, 40514),

Gene: Scorpia_64 Start: 40451, Stop: 40299, Start Num: 31

Candidate Starts for Scorpia_64:

(Start: 31 @40451 has 34 MA's), (33, 40445), (37, 40433), (75, 40346), (83, 40310),

Gene: SheaKeira_62 Start: 39772, Stop: 39614, Start Num: 42

Candidate Starts for SheaKeira_62:

(Start: 39 @39781 has 2 MA's), (Start: 42 @39772 has 29 MA's), (64, 39694), (72, 39670), (78, 39649), (81, 39634), (83, 39625),

Gene: ShiaSurprise_61 Start: 41447, Stop: 41611, Start Num: 43

Candidate Starts for ShiaSurprise_61:

(Start: 43 @41447 has 130 MA's), (Start: 45 @41453 has 53 MA's), (Start: 49 @41471 has 1 MA's), (68, 41546), (83, 41600), (84, 41603),

Gene: Skinny_125 Start: 65562, Stop: 65711, Start Num: 45

Candidate Starts for Skinny_125:

(Start: 45 @65562 has 53 MA's), (48, 65574), (51, 65595), (52, 65598), (54, 65604), (60, 65625), (83, 65700),

Gene: Slarp_63 Start: 40757, Stop: 40921, Start Num: 43

Candidate Starts for Slarp_63:

(12, 40532), (28, 40709), (32, 40730), (Start: 43 @40757 has 130 MA's), (Start: 49 @40781 has 1 MA's), (65, 40844), (76, 40877), (83, 40910),

Gene: SlimJimmy_119 Start: 64271, Stop: 64420, Start Num: 45

Candidate Starts for SlimJimmy_119:

(Start: 45 @64271 has 53 MA's), (48, 64283), (51, 64304), (52, 64307), (54, 64313), (60, 64334), (83, 64409),

Gene: Slimphazie_60 Start: 41114, Stop: 41278, Start Num: 43

Candidate Starts for Slimphazie_60:

(Start: 43 @41114 has 130 MA's), (Start: 45 @41120 has 53 MA's), (Start: 49 @41138 has 1 MA's), (68, 41213), (78, 41243), (80, 41252), (83, 41267),

Gene: Smeadley_67 Start: 39868, Stop: 39695, Start Num: 31

Candidate Starts for Smeadley_67:

(Start: 31 @39868 has 34 MA's), (37, 39850), (83, 39706),

Gene: Snenia_52 Start: 40419, Stop: 40577, Start Num: 45

Candidate Starts for Snenia_52:

(Start: 45 @40419 has 53 MA's), (Start: 49 @40437 has 1 MA's), (56, 40473), (80, 40551), (83, 40566),

Gene: SoSeph_55 Start: 40412, Stop: 40579, Start Num: 43

Candidate Starts for SoSeph_55:

(4, 40109), (6, 40118), (24, 40310), (Start: 43 @40412 has 130 MA's), (46, 40424), (Start: 49 @40436 has 1 MA's), (54, 40460), (68, 40511), (80, 40553), (83, 40568),

Gene: SororFago_64 Start: 40881, Stop: 40684, Start Num: 31

Candidate Starts for SororFago_64:

(14, 41076), (Start: 31 @40881 has 34 MA's), (57, 40779), (62, 40767), (76, 40728), (78, 40719), (83, 40695),

Gene: Spock_60 Start: 41251, Stop: 41415, Start Num: 43

Candidate Starts for Spock_60:

(Start: 43 @41251 has 130 MA's), (Start: 45 @41257 has 53 MA's), (Start: 49 @41275 has 1 MA's), (68, 41350), (83, 41404), (84, 41407),

Gene: Spouty_64 Start: 40006, Stop: 39857, Start Num: 42

Candidate Starts for Spouty_64:

(Start: 42 @40006 has 29 MA's), (Start: 45 @40000 has 53 MA's), (Start: 49 @39988 has 1 MA's), (67, 39922), (78, 39892), (83, 39868),

Gene: Steamy_60 Start: 39733, Stop: 39590, Start Num: 45

Candidate Starts for Steamy_60:

(3, 40096), (Start: 45 @39733 has 53 MA's), (Start: 49 @39715 has 1 MA's), (78, 39625), (83, 39601), (84, 39598),

Gene: Stellammi_74 Start: 39941, Stop: 40081, Start Num: 45

Candidate Starts for Stellammi_74:

(Start: 45 @39941 has 53 MA's), (59, 40001), (71, 40025), (81, 40061), (83, 40070),

Gene: Stephig9_66 Start: 39802, Stop: 39629, Start Num: 31

Candidate Starts for Stephig9_66:

(Start: 31 @39802 has 34 MA's), (37, 39784), (83, 39640),

Gene: Stinson_61 Start: 41616, Stop: 41780, Start Num: 43

Candidate Starts for Stinson_61:

(Start: 43 @41616 has 130 MA's), (Start: 45 @41622 has 53 MA's), (Start: 49 @41640 has 1 MA's), (66, 41709), (68, 41715), (83, 41769), (84, 41772),

Gene: Sulley_60 Start: 41302, Stop: 41466, Start Num: 43

Candidate Starts for Sulley_60:

(Start: 43 @41302 has 130 MA's), (Start: 45 @41308 has 53 MA's), (Start: 49 @41326 has 1 MA's), (66, 41395), (68, 41401), (78, 41431), (83, 41455), (84, 41458),

Gene: Sunhee_66 Start: 39448, Stop: 39299, Start Num: 43

Candidate Starts for Sunhee_66:

(22, 39601), (Start: 43 @39448 has 130 MA's), (Start: 45 @39442 has 53 MA's), (64, 39379), (71, 39355), (83, 39310),

Gene: Superchunk_63 Start: 38825, Stop: 38673, Start Num: 45

Candidate Starts for Superchunk_63:

(Start: 45 @38825 has 53 MA's), (74, 38732), (78, 38720), (83, 38696), (84, 38693),

Gene: SwirlSquare_68 Start: 39747, Stop: 39595, Start Num: 45

Candidate Starts for SwirlSquare_68:

(Start: 45 @39747 has 53 MA's), (74, 39654), (78, 39642), (81, 39627), (83, 39618), (84, 39615),

Gene: SydNat_62 Start: 40613, Stop: 40461, Start Num: 31

Candidate Starts for SydNat_62:

(Start: 31 @40613 has 34 MA's), (37, 40595), (76, 40505), (83, 40472),

Gene: Tachez_60 Start: 41095, Stop: 41259, Start Num: 43

Candidate Starts for Tachez_60:

(Start: 43 @41095 has 130 MA's), (Start: 45 @41101 has 53 MA's), (Start: 49 @41119 has 1 MA's), (68, 41194), (83, 41248), (84, 41251),

Gene: TaiwanKao_62 Start: 41384, Stop: 41548, Start Num: 43

Candidate Starts for TaiwanKao_62:

(Start: 43 @41384 has 130 MA's), (Start: 45 @41390 has 53 MA's), (Start: 49 @41408 has 1 MA's), (68, 41483), (83, 41537), (84, 41540),

Gene: Taquito_62 Start: 40992, Stop: 41156, Start Num: 43

Candidate Starts for Taquito_62:

(12, 40767), (28, 40944), (32, 40965), (Start: 43 @40992 has 130 MA's), (Start: 49 @41016 has 1 MA's), (65, 41079), (76, 41112), (83, 41145),

Gene: Thyatira_57 Start: 42370, Stop: 42537, Start Num: 43

Candidate Starts for Thyatira_57:

(Start: 43 @42370 has 130 MA's), (46, 42382), (Start: 49 @42394 has 1 MA's), (54, 42418), (68, 42469), (80, 42511), (83, 42526),

Gene: TingHuaYa_62 Start: 40455, Stop: 40625, Start Num: 43

Candidate Starts for TingHuaYa_62:

(40, 40452), (Start: 43 @40455 has 130 MA's), (46, 40467), (64, 40545), (67, 40557), (83, 40614), (84, 40617),

Gene: TiniBug_61 Start: 42015, Stop: 42173, Start Num: 43

Candidate Starts for TiniBug_61:

(Start: 43 @42015 has 130 MA's), (Start: 45 @42021 has 53 MA's), (Start: 49 @42039 has 1 MA's), (50, 42042), (78, 42138), (83, 42162), (84, 42165),

Gene: TipsytheTRex_61 Start: 39632, Stop: 39480, Start Num: 45
Candidate Starts for TipsytheTRex_61:
(15, 39854), (Start: 45 @39632 has 53 MA's), (70, 39551), (78, 39527), (83, 39503),

Gene: Tiri_61 Start: 41410, Stop: 41577, Start Num: 43
Candidate Starts for Tiri_61:
(10, 41149), (Start: 43 @41410 has 130 MA's), (Start: 45 @41416 has 53 MA's), (68, 41512), (78, 41542), (80, 41551), (83, 41566), (84, 41569),

Gene: Toaka_66 Start: 40403, Stop: 40245, Start Num: 39
Candidate Starts for Toaka_66:
(Start: 39 @40403 has 2 MA's), (Start: 42 @40394 has 29 MA's), (67, 40310), (81, 40265), (83, 40256),

Gene: Topper_60 Start: 41250, Stop: 41414, Start Num: 43
Candidate Starts for Topper_60:
(Start: 43 @41250 has 130 MA's), (Start: 45 @41256 has 53 MA's), (Start: 49 @41274 has 1 MA's), (68, 41349), (83, 41403), (84, 41406),

Gene: TpudiCK_121 Start: 63284, Stop: 63433, Start Num: 45
Candidate Starts for TpudiCK_121:
(Start: 45 @63284 has 53 MA's), (48, 63296), (51, 63317), (52, 63320), (54, 63326), (60, 63347), (83, 63422),

Gene: TreyKay_61 Start: 41322, Stop: 41486, Start Num: 43
Candidate Starts for TreyKay_61:
(Start: 43 @41322 has 130 MA's), (Start: 45 @41328 has 53 MA's), (Start: 49 @41346 has 1 MA's), (83, 41475), (84, 41478),

Gene: TriFive_54 Start: 40418, Stop: 40576, Start Num: 45
Candidate Starts for TriFive_54:
(Start: 45 @40418 has 53 MA's), (Start: 49 @40436 has 1 MA's), (56, 40472), (80, 40550), (83, 40565),

Gene: TruffulaTree_60 Start: 41110, Stop: 41274, Start Num: 43
Candidate Starts for TruffulaTree_60:
(Start: 43 @41110 has 130 MA's), (Start: 45 @41116 has 53 MA's), (Start: 49 @41134 has 1 MA's), (68, 41209), (78, 41239), (80, 41248), (83, 41263),

Gene: Tubs_66 Start: 40295, Stop: 40146, Start Num: 42
Candidate Starts for Tubs_66:
(Start: 42 @40295 has 29 MA's), (Start: 45 @40289 has 53 MA's), (Start: 49 @40277 has 1 MA's), (67, 40211), (78, 40181), (83, 40157),

Gene: Twitch_60 Start: 41252, Stop: 41416, Start Num: 43
Candidate Starts for Twitch_60:
(Start: 43 @41252 has 130 MA's), (Start: 45 @41258 has 53 MA's), (Start: 49 @41276 has 1 MA's), (68, 41351), (83, 41405), (84, 41408),

Gene: TyDawg_114 Start: 63287, Stop: 63436, Start Num: 45
Candidate Starts for TyDawg_114:
(Start: 45 @63287 has 53 MA's), (48, 63299), (51, 63320), (52, 63323), (54, 63329), (60, 63350), (83, 63425),

Gene: Ugenie5_62 Start: 40651, Stop: 40502, Start Num: 42

Candidate Starts for Ugenie5_62:

(Start: 42 @40651 has 29 MA's), (Start: 45 @40645 has 53 MA's), (Start: 49 @40633 has 1 MA's), (64, 40573), (67, 40567), (83, 40513),

Gene: UnionJack_63 Start: 39933, Stop: 39781, Start Num: 31

Candidate Starts for UnionJack_63:

(Start: 31 @39933 has 34 MA's), (33, 39927), (37, 39915), (75, 39828), (83, 39792),

Gene: Urkel_61 Start: 42019, Stop: 42177, Start Num: 43

Candidate Starts for Urkel_61:

(Start: 43 @42019 has 130 MA's), (Start: 45 @42025 has 53 MA's), (Start: 49 @42043 has 1 MA's), (50, 42046), (78, 42142), (83, 42166), (84, 42169),

Gene: Vanisoa_65 Start: 41342, Stop: 41196, Start Num: 41

Candidate Starts for Vanisoa_65:

(Start: 39 @41348 has 2 MA's), (Start: 41 @41342 has 2 MA's), (83, 41207),

Gene: Veliki_61 Start: 41096, Stop: 41254, Start Num: 43

Candidate Starts for Veliki_61:

(Start: 43 @41096 has 130 MA's), (Start: 45 @41102 has 53 MA's), (Start: 49 @41120 has 1 MA's), (68, 41189), (83, 41243), (84, 41246),

Gene: ViviJ_53 Start: 38125, Stop: 38292, Start Num: 43

Candidate Starts for ViviJ_53:

(24, 38023), (Start: 43 @38125 has 130 MA's), (46, 38137), (Start: 49 @38149 has 1 MA's), (54, 38173), (68, 38224), (83, 38281), (84, 38284),

Gene: Waterfoul_56 Start: 40474, Stop: 40641, Start Num: 43

Candidate Starts for Waterfoul_56:

(4, 40171), (6, 40180), (24, 40372), (Start: 43 @40474 has 130 MA's), (46, 40486), (Start: 49 @40498 has 1 MA's), (54, 40522), (68, 40573), (80, 40615), (83, 40630),

Gene: Whirlwind_53 Start: 40234, Stop: 40392, Start Num: 45

Candidate Starts for Whirlwind_53:

(Start: 45 @40234 has 53 MA's), (83, 40381),

Gene: Wintermute_63 Start: 40987, Stop: 41151, Start Num: 43

Candidate Starts for Wintermute_63:

(12, 40762), (28, 40939), (32, 40960), (Start: 43 @40987 has 130 MA's), (Start: 49 @41011 has 1 MA's), (65, 41074), (76, 41107), (83, 41140),

Gene: WorldCup_63 Start: 39916, Stop: 39767, Start Num: 42

Candidate Starts for WorldCup_63:

(Start: 39 @39925 has 2 MA's), (Start: 42 @39916 has 29 MA's), (65, 39835), (67, 39832), (83, 39778),

Gene: Y10_61 Start: 40915, Stop: 41079, Start Num: 43

Candidate Starts for Y10_61:

(12, 40690), (28, 40867), (32, 40888), (Start: 43 @40915 has 130 MA's), (Start: 49 @40939 has 1 MA's), (65, 41002), (76, 41035), (83, 41068),

Gene: Y2_61 Start: 40915, Stop: 41079, Start Num: 43

Candidate Starts for Y2_61:

(12, 40690), (28, 40867), (32, 40888), (Start: 43 @40915 has 130 MA's), (Start: 49 @40939 has 1 MA's), (65, 41002), (76, 41035), (83, 41068),

Gene: YasnayaPolyana_62 Start: 40840, Stop: 41004, Start Num: 43

Candidate Starts for YasnayaPolyana_62:

(12, 40615), (28, 40792), (32, 40813), (Start: 43 @40840 has 130 MA's), (Start: 49 @40864 has 1 MA's), (65, 40927), (76, 40960), (83, 40993),

Gene: Yecey3_67 Start: 40309, Stop: 40154, Start Num: 95

Candidate Starts for Yecey3_67:

(Start: 95 @40309 has 1 MA's), (97, 40174), (98, 40165),

Gene: YoureAdopted_59 Start: 41239, Stop: 41403, Start Num: 43

Candidate Starts for YoureAdopted_59:

(Start: 43 @41239 has 130 MA's), (Start: 45 @41245 has 53 MA's), (78, 41368), (83, 41392),

Gene: Yunkel11_63 Start: 40947, Stop: 41123, Start Num: 43

Candidate Starts for Yunkel11_63:

(Start: 43 @40947 has 130 MA's), (46, 40959), (50, 40974), (64, 41043), (67, 41055), (83, 41112), (84, 41115),

Gene: Zabiza_55 Start: 37430, Stop: 37594, Start Num: 43

Candidate Starts for Zabiza_55:

(35, 37415), (Start: 43 @37430 has 130 MA's), (Start: 45 @37436 has 53 MA's), (Start: 49 @37454 has 1 MA's), (83, 37583), (84, 37586),

Gene: Zavala_62 Start: 41395, Stop: 41559, Start Num: 43

Candidate Starts for Zavala_62:

(Start: 43 @41395 has 130 MA's), (Start: 45 @41401 has 53 MA's), (Start: 49 @41419 has 1 MA's), (68, 41494), (83, 41548), (84, 41551),

Gene: Zimmer_61 Start: 40965, Stop: 40825, Start Num: 45

Candidate Starts for Zimmer_61:

(7, 41262), (8, 41250), (17, 41172), (Start: 45 @40965 has 53 MA's), (46, 40959), (Start: 49 @40947 has 1 MA's), (78, 40860), (81, 40845), (83, 40836),

Gene: Zolita_61 Start: 40617, Stop: 40465, Start Num: 31

Candidate Starts for Zolita_61:

(Start: 31 @40617 has 34 MA's), (37, 40599), (76, 40509), (83, 40476),