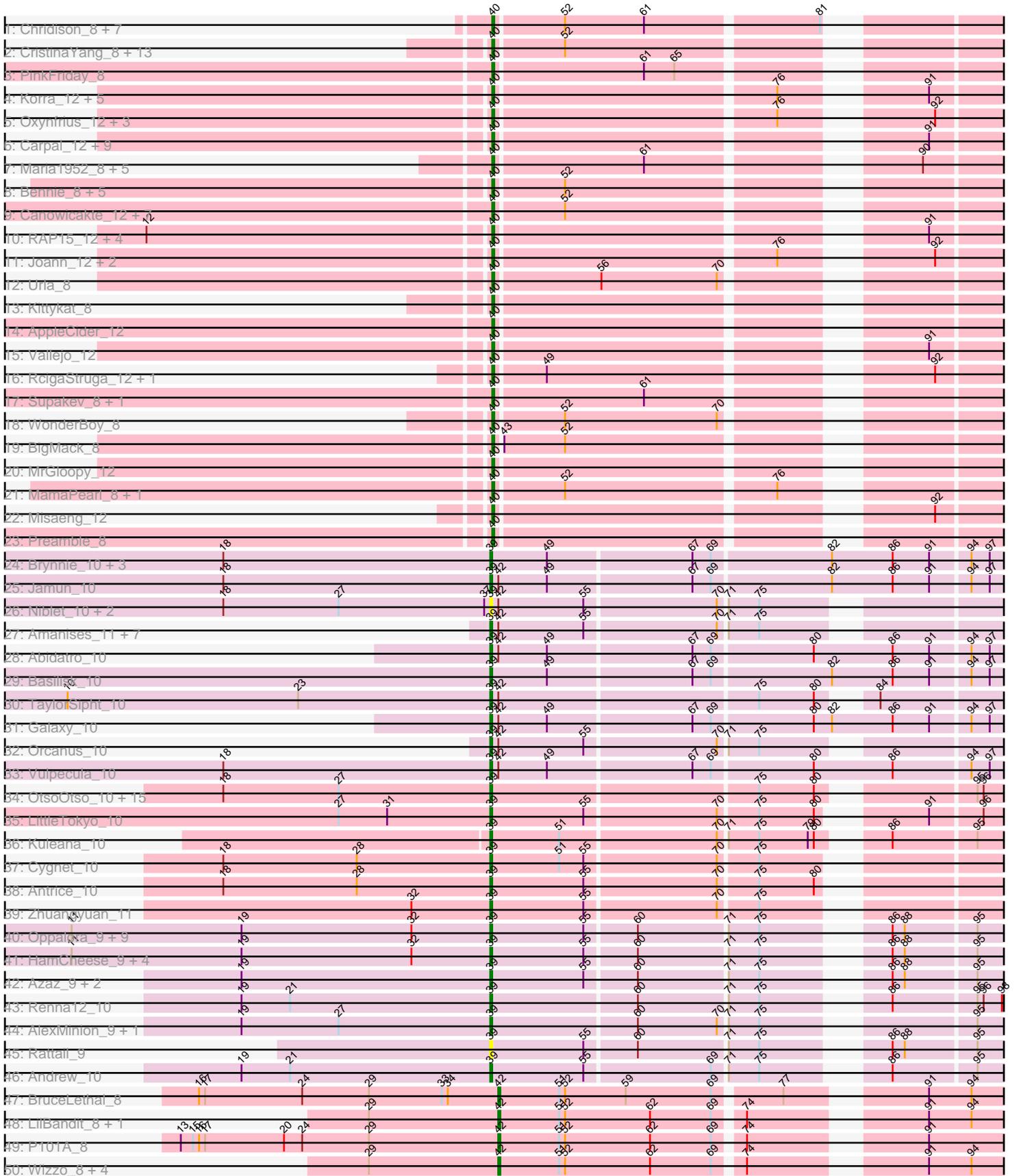
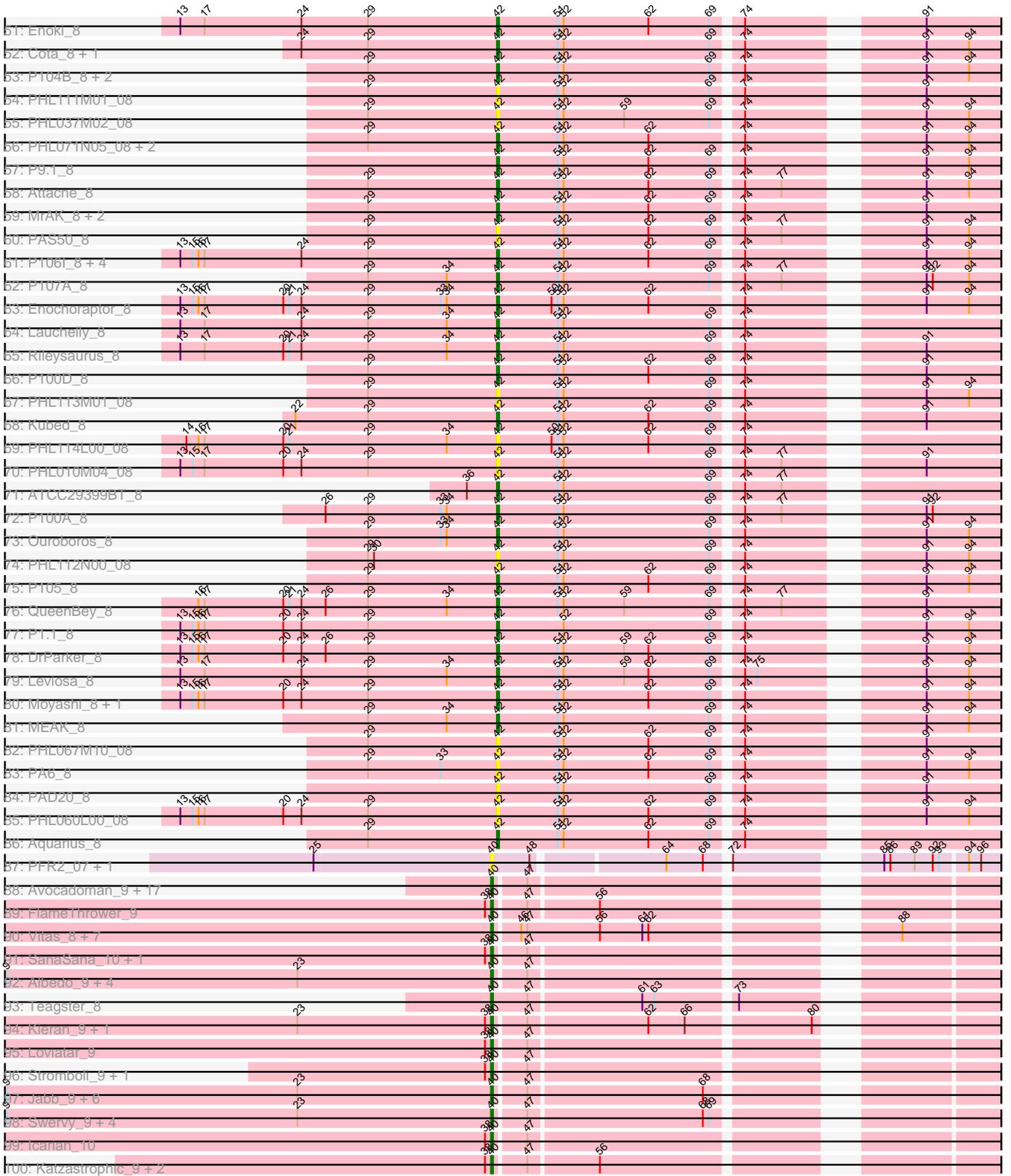


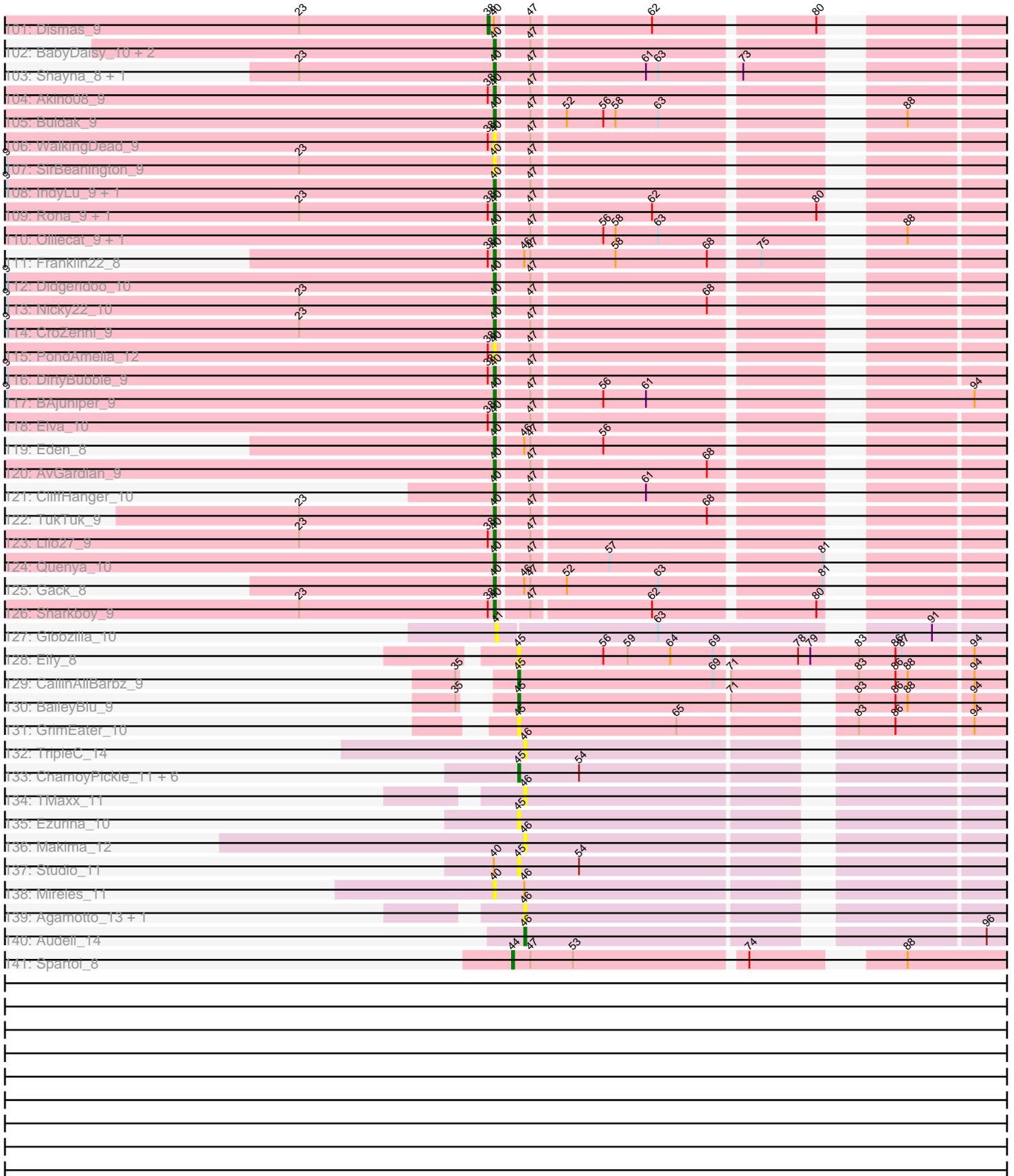
Zoomed Pham 290760



Zoomed Pham 290760



Zoomed Pham 290760



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 290760 Report

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

WARNING: Pham size does not match number of genes in report. Either unphamerated genes have been added (by you) or starterator has removed genes due to invalid start codon.

Pham number 290760 has 321 members, 63 are drafts.

Phages represented in each track:

- Track 1 : Chridison_8, AustinPowers_8, Riovina_8, Vulture_8, HunterDalle_8, Eunoia_8, Aledel_8, OMalley_8
- Track 2 : CristinaYang_8, Lucy_8, DrRobert_8, Christian_8, Nancia_8, Makoto_8, Bodacious_8, Lennox_8, PitaDog_8, Pterodactyl_8, LilStuart_8, Lasagna_8, ChewChew_8, OurGirlNessie_8
- Track 3 : PinkFriday_8
- Track 4 : Korra_12, Dino_12, Wawa_12, Kalizoi_12, BrotherBLo_12, Zorro_12
- Track 5 : Oxynfrius_12, Lakshmi_12, Albanese_12, GreenHearts_12
- Track 6 : Carpal_12, Potatoes_12, TattModd_12, Glenn_12, Cholula_12, Rozby_12, Fluke_12, Riverdale_12, Immaculata_12, Beethoven_12
- Track 7 : Maria1952_8, KingBob_8, Sergei_8, Daiboju_8, Temper16_8, Herb_8
- Track 8 : Bennie_8, HeadNerd_8, Moki_8, DreamTeam_8, Gisselle_8, Huckleberry_8
- Track 9 : Canowicakte_12, Suppi_12, Litotes_12, PartyCup_12, MrBoss_12, Wayne_12, Graynor_12, CallieOMalley_12
- Track 10 : RAP15_12, Savage2526_12, Jumboset_12, MeganNoll_12, Scuttle_12
- Track 11 : Joann_12, Greenhouse_12, Nubia_12
- Track 12 : Urla_8
- Track 13 : Kittykat_8
- Track 14 : AppleCider_12
- Track 15 : Vallejo_12
- Track 16 : RcigaStruga_12, Huntingdon_12
- Track 17 : Supakev_8, Pumancara_8
- Track 18 : WonderBoy_8
- Track 19 : BigMack_8
- Track 20 : MrGloopy_12
- Track 21 : MamaPearl_8, EstebanJulior_8
- Track 22 : Misaeng_12
- Track 23 : Preamble_8
- Track 24 : Brynnie_10, Chickaboom_9, WileyE_9, Ruchi_10
- Track 25 : Jamun_10
- Track 26 : Niblet_10, Zixiang_10, Chicken_10

- Track 27 : Amanises_11, Eesa_10, Pelletreau_11, Gravel_11, Toad24_11, Shen_11, Westrich_11, KendraB23_11
- Track 28 : Abidatro_10
- Track 29 : Basilisk_10
- Track 30 : TaylorSipht_10
- Track 31 : Galaxy_10
- Track 32 : Orcanus_10
- Track 33 : Vulpecula_10
- Track 34 : OtsoOtso_10, Cote_11, Pineda_11, Bibble12_11, Polka_10, Amelia_11, Bedetta_11, Melons_11, Lunar_11, PhirstandPhine_11, Coral_10, Colusalem_10, Kepler_10, Jerole_11, Daob_11, HannahPhantana_11
- Track 35 : LittleTokyo_10
- Track 36 : Kuleana_10
- Track 37 : Cygnet_10
- Track 38 : Antrice_10
- Track 39 : Zhuangyuan_11
- Track 40 : Oppalora_9, AmiCi24_9, DanHam62_9, Fingolfin_9, KHumphrey_9, Glotell_9, Juno112_9, AdoptaAdorbs_9, RedFox_9, Atlantica_9
- Track 41 : HamCheese_9, Camara_9, PhluffyCoco_9, Amphitrite_9, Laphuphu24k_9
- Track 42 : Azaz_9, Leona_9, Babushka_9
- Track 43 : Renna12_10
- Track 44 : AlexMinion_9, StuartMinion_9
- Track 45 : Rattail_9
- Track 46 : Andrew_10
- Track 47 : BruceLethal_8
- Track 48 : LilBandit_8, P14.4_8
- Track 49 : P101A_8
- Track 50 : Wizzo_8, Supernova_8, Solid_8, P107C_8, ATCC29399BC_8
- Track 51 : Enoki_8
- Track 52 : Cota_8, Keiki_8
- Track 53 : P104B_8, Procrass1_8, Stormborn_8
- Track 54 : PHL111M01_08
- Track 55 : PHL037M02_08
- Track 56 : PHL071N05_08, P108C_8, Pirate_8
- Track 57 : P9.1_8
- Track 58 : Attacne_8
- Track 59 : MrAK_8, P100.1_8, P104A_8
- Track 60 : PAS50_8
- Track 61 : P106I_8, P106M_8, P106L_8, P106C_8, P106A_8
- Track 62 : P107A_8
- Track 63 : Enochoraptor_8
- Track 64 : Lauchelly_8
- Track 65 : Rileysaurus_8
- Track 66 : P100D_8
- Track 67 : PHL113M01_08
- Track 68 : Kubed_8
- Track 69 : PHL114L00_08
- Track 70 : PHL010M04_08
- Track 71 : ATCC29399BT_8
- Track 72 : P100A_8
- Track 73 : Ouroboros_8
- Track 74 : PHL112N00_08

- Track 75 : P105_8
- Track 76 : QueenBey_8
- Track 77 : P1.1_8
- Track 78 : DrParker_8
- Track 79 : Leviosa_8
- Track 80 : Moyashi_8, SKKY_8
- Track 81 : MEAK_8
- Track 82 : PHL067M10_08
- Track 83 : PA6_8
- Track 84 : PAD20_8
- Track 85 : PHL060L00_08
- Track 86 : Aquarius_8
- Track 87 : PFR2_07, PFR1_07
- Track 88 : Avocadoman_9, Arroyo_10, Burritobowl_9, Johnathan_9, Cashington_9, BelmontSKP_10, Albright_9, Softsoap_9, Abigail_9, LimaBean_9, SansAfet_9, Doobus_9, DickRichards_9, AnnaLie_10, Solea_10, Bengal_9, PhigPhack_9, Milomuff_10
- Track 89 : FlameThrower_9
- Track 90 : Vitas_8, Clayda5_8, Brahms_8, Bernstein_8, Rollins_8, Coltrane_8, Armstrong_8, Skylord_8
- Track 91 : SanaSana_10, Stoor_9
- Track 92 : Albedo_9, Kenzers_9, BubbaBear_9, Phisb_9, Lynlen_9
- Track 93 : Teagster_8
- Track 94 : Kieran_9, ChiliPepper_9
- Track 95 : Loviatar_9
- Track 96 : Stromboli_9, BabyYoda_9
- Track 97 : Jabb_9, CupcakePrincess_9, MsUbiquitous_9, Pecas_9, QMacho_10, Jovita_9, Eula_9
- Track 98 : Swervy_9, AylexOG_10, SarBear_9, Slay_9, Finalfrontier_10
- Track 99 : Icarian_10
- Track 100 : Katzastrophic_9, Bachaco_9, Celaena_9
- Track 101 : Dismas_9
- Track 102 : BabyDaisy_10, Lahqtemish_9, PastaFagioli_9
- Track 103 : Shayna_8, SunnyD_8
- Track 104 : Akino08_9
- Track 105 : Buldak_9
- Track 106 : WalkingDead_9
- Track 107 : SirBeaington_9
- Track 108 : IndyLu_9, Kate33_9
- Track 109 : Rona_9, Kamdara_9
- Track 110 : Olliecat_9, Squirrel_9
- Track 111 : Franklin22_8
- Track 112 : Didgeridoo_10
- Track 113 : Nicky22_10
- Track 114 : CroZenni_9
- Track 115 : PondAmelia_12
- Track 116 : DirtyBubble_9
- Track 117 : BAjuniper_9
- Track 118 : Elva_10
- Track 119 : Eden_8
- Track 120 : AvGardian_9
- Track 121 : CliffHanger_10
- Track 122 : TukTuk_9

- Track 123 : Lilo27_9
- Track 124 : Quenya_10
- Track 125 : Gack_8
- Track 126 : Sharkboy_9
- Track 127 : Gibbzilla_10
- Track 128 : Elfy_8
- Track 129 : CallinAllBarbz_9
- Track 130 : BaileyBlu_9
- Track 131 : GrimEater_10
- Track 132 : TripleC_14
- Track 133 : ChamoyPickle_11, AnnabelLee_11, Roberts_11, Neuville_11, CardboardBox_11, ChipsNGuac_11, Gerri43_11
- Track 134 : TMaxx_11
- Track 135 : Ezurina_10
- Track 136 : Makima_12
- Track 137 : Studio_11
- Track 138 : Mireles_11
- Track 139 : Agamoto_13, LastNadiia_14
- Track 140 : Audell_14
- Track 141 : Sparto_8

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

The start number called the most often in the published annotations is 40, it was called in 163 of the 258 non-draft genes in the pham.

Genes that call this "Most Annotated" start:

- Abigail_9, Akino08_9, Albanese_12, Albedo_9, Albright_9, Aledel_8, AnnaLie_10, AppleCider_12, Armstrong_8, Arroyo_10, AustinPowers_8, AvGardian_9, Avocadoman_9, AylexOG_10, BAjuniper_9, BabyDaisy_10, BabyYoda_9, Bachaco_9, Beethoven_12, BelmontSKP_10, Bengal_9, Bennie_8, Bernstein_8, BigMack_8, Bodacious_8, Brahms_8, BrotherBLo_12, BubbaBear_9, Buldak_9, Burritobowl_9, CallieOMalley_12, Canowicakte_12, Carpal_12, Cashington_9, Celaena_9, ChewChew_8, ChiliPepper_9, Cholula_12, Chridison_8, Christian_8, Clayda5_8, CliffHanger_10, Coltrane_8, CristinaYang_8, CroZenni_9, CupcakePrincess_9, Daiboju_8, DickRichards_9, Didgeridoo_10, Dino_12, DirtyBubble_9, Doobus_9, DrRobert_8, DreamTeam_8, Eden_8, Elva_10, EstebanJulior_8, Eula_9, Eunoia_8, Finalfrontier_10, FlameThrower_9, Fluke_12, Franklin22_8, Gack_8, Gisselle_8, Glenn_12, Graynor_12, GreenHearts_12, Greenhouse_12, HeadNerd_8, Herb_8, Huckleberry_8, HunterDalle_8, Huntingdon_12, Icarian_10, Immaculata_12, IndyLu_9, Jabb_9, Joann_12, Johnathan_9, Jovita_9, Jumboset_12, Kalizoi_12, Kamdara_9, Kate33_9, Katzastrophic_9, Kenzers_9, Kieran_9, KingBob_8, Kittykat_8, Korra_12, Lahqtemish_9, Lakshmi_12, Lasagna_8, Lennox_8, LilStuart_8, Lilo27_9, LimaBean_9, Litotes_12, Loviatar_9, Lucy_8, Lynlen_9, Makoto_8, MamaPearl_8, Maria1952_8, MeganNoll_12, Milomuff_10, Mireles_11, Misaeng_12, Moki_8, MrBoss_12, MrGloopy_12, MsUbiquitous_9, Nancia_8, Nicky22_10, Nubia_12, OMalley_8, Olliecat_9, OurGirlNessie_8, Oxynfrius_12, PFR1_07, PFR2_07, PartyCup_12, PastaFagioli_9, Pecas_9, PhigPhack_9, Phisb_9, PinkFriday_8, PitaDog_8, PondAmelia_12, Potatoes_12, Preamble_8, Pterodactyl_8,

Pumancara_8, QMacho_10, Quenya_10, RAP15_12, RcigaStruga_12, Riovina_8, Riverdale_12, Rollins_8, Rona_9, Rozby_12, SanaSana_10, SansAfet_9, SarBear_9, Savage2526_12, Scuttle_12, Sergei_8, Sharkboy_9, Shayna_8, SirBearington_9, Skylord_8, Slay_9, Softsoap_9, Solea_10, Squirrel_9, Stoor_9, Stromboli_9, SunnyD_8, Supakev_8, Suppi_12, Swervy_9, TattModd_12, Teagster_8, Temper16_8, TukTuk_9, Urla_8, Vallejo_12, Vitas_8, Vulture_8, WalkingDead_9, Wawa_12, Wayne_12, WonderBoy_8, Zorro_12,

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

- Dismas_9, Studio_11,

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

- ATCC29399BC_8, ATCC29399BT_8, Abidatro_10, AdoptaAdorbs_9, Agamoto_13, AlexMinion_9, Amanises_11, Amelia_11, AmiCi24_9, Amphitrite_9, Andrew_10, AnnabelLee_11, Antrice_10, Aquarius_8, Atlantica_9, Attacne_8, Audell_14, Azaz_9, Babushka_9, BaileyBlu_9, Basilisk_10, Bedetta_11, Bibble12_11, BruceLethal_8, Brynnie_10, CallinAllBarbz_9, Camara_9, CardboardBox_11, ChamoyPickle_11, Chickaboom_9, Chicken_10, ChipsNGuac_11, Colusalem_10, Coral_10, Cota_8, Cote_11, Cygnet_10, DanHam62_9, Daob_11, DrParker_8, Eesa_10, Elfy_8, Enochoraptor_8, Enoki_8, Ezurina_10, Fingolfin_9, Galaxy_10, Gerri43_11, Gibbzilla_10, Glotell_9, Gravel_11, GrimEater_10, HamCheese_9, HannahPhantana_11, Jamun_10, Jerole_11, Juno112_9, KHumphrey_9, Keiki_8, KendraB23_11, Kepler_10, Kubed_8, Kuleana_10, Laphuphu24k_9, LastNadiia_14, Lauchelly_8, Leona_9, Leviosa_8, LilBandit_8, LittleTokyo_10, Lunar_11, MEAK_8, Makima_12, Melons_11, Moyashi_8, MrAK_8, Neuville_11, Niblet_10, Oppalora_9, Orcanus_10, OtsoOtso_10, Ouroboros_8, P1.1_8, P100.1_8, P100A_8, P100D_8, P101A_8, P104A_8, P104B_8, P105_8, P106A_8, P106C_8, P106I_8, P106L_8, P106M_8, P107A_8, P107C_8, P108C_8, P14.4_8, P9.1_8, PA6_8, PAD20_8, PAS50_8, PHL010M04_08, PHL037M02_08, PHL060L00_08, PHL067M10_08, PHL071N05_08, PHL111M01_08, PHL112N00_08, PHL113M01_08, PHL114L00_08, Pelletreau_11, PhirstandPhine_11, PhluffyCoco_9, Pineda_11, Pirate_8, Polka_10, Procrass1_8, QueenBey_8, Rattail_9, RedFox_9, Renna12_10, Rileysaurus_8, Roberts_11, Ruchi_10, SKKY_8, Shen_11, Solid_8, Spartoi_8, Stormborn_8, StuartMinion_9, Supernova_8, TMaxx_11, TaylorSipht_10, Toad24_11, TripleC_14, Vulpecula_10, Westrich_11, WileyE_9, Wizzo_8, Zhuangyuan_11, Zixiang_10,

Summary by start number:

Start 38:

- Found in 23 of 321 (7.2%) of genes in pham
- Manual Annotations of this start: 1 of 258
- Called 4.3% of time when present
- Phage (with cluster) where this start called: Dismas_9 (EB),

Start 39:

- Found in 66 of 321 (20.6%) of genes in pham
- Manual Annotations of this start: 44 of 258
- Called 100.0% of time when present
- Phage (with cluster) where this start called: Abidatro_10 (AS1), AdoptaAdorbs_9 (AS3), AlexMinion_9 (AS3), Amanises_11 (AS1), Amelia_11 (AS2), AmiCi24_9 (AS3), Amphitrite_9 (AS3), Andrew_10 (AS3), Antrice_10 (AS2), Atlantica_9 (AS3), Azaz_9 (AS3), Babushka_9 (AS3), Basilisk_10 (AS1), Bedetta_11 (AS2), Bibble12_11 (AS2),

Brynnie_10 (AS1), Camara_9 (AS3), Chickaboom_9 (AS1), Chicken_10 (AS1), Colusalem_10 (AS2), Coral_10 (AS2), Cote_11 (AS2), Cygnet_10 (AS2), DanHam62_9 (AS3), Daob_11 (AS2), Eesa_10 (AS1), Fingolfin_9 (AS3), Galaxy_10 (AS1), Glotell_9 (AS3), Gravel_11 (AS1), HamCheese_9 (AS3), HannahPhantana_11 (AS2), Jamun_10 (AS1), Jerole_11 (AS2), Juno112_9 (AS3), KHumphrey_9 (AS3), KendraB23_11 (AS1), Kepler_10 (AS2), Kuleana_10 (AS2), Laphuphu24k_9 (AS3), Leona_9 (AS3), LittleTokyo_10 (AS2), Lunar_11 (AS2), Melons_11 (AS2), Niblet_10 (AS1), Oppalora_9 (AS3), Orcanus_10 (AS1), OtsoOtso_10 (AS2), Pelletreau_11 (AS1), PhirstandPhine_11 (AS2), PhluffyCoco_9 (AS3), Pineda_11 (AS2), Polka_10 (AS2), Rattail_9 (AS3), RedFox_9 (AS3), Renna12_10 (AS3), Ruchi_10 (AS1), Shen_11 (AS1), StuartMinion_9 (AS3), TaylorSipht_10 (AS1), Toad24_11 (AS1), Vulpecula_10 (AS1), Westrich_11 (AS1), WileyE_9 (AS1), Zhuangyuan_11 (AS2), Zixiang_10 (AS1),

Start 40:

- Found in 178 of 321 (55.5%) of genes in pham
- Manual Annotations of this start: 163 of 258
- Called 98.9% of time when present
- Phage (with cluster) where this start called: Abigail_9 (EB), Akino08_9 (EB), Albanese_12 (AK), Albedo_9 (EB), Albright_9 (EB), Aledel_8 (AK), AnnaLie_10 (EB), AppleCider_12 (AK), Armstrong_8 (EB), Arroyo_10 (EB), AustinPowers_8 (AK), AvGuardian_9 (EB), Avocadoman_9 (EB), AylexOG_10 (EB), BAjuniper_9 (EB), BabyDaisy_10 (EB), BabyYoda_9 (EB), Bachaco_9 (EB), Beethoven_12 (AK), BelmontSKP_10 (EB), Bengal_9 (EB), Bennie_8 (AK), Bernstein_8 (EB), BigMack_8 (AK), Bodacious_8 (AK), Brahms_8 (EB), BrotherBLo_12 (AK), BubbaBear_9 (EB), Buldak_9 (EB), Burritobowl_9 (EB), CallieOMalley_12 (AK), Canowicakte_12 (AK), Carpal_12 (AK), Cashington_9 (EB), Celaena_9 (EB), ChewChew_8 (AK), ChiliPepper_9 (EB), Cholula_12 (AK), Chridison_8 (AK), Christian_8 (AK), Clayda5_8 (EB), CliffHanger_10 (EB), Coltrane_8 (EB), CristinaYang_8 (AK), CroZenni_9 (EB), CupcakePrincess_9 (EB), Daiboju_8 (AK), DickRichards_9 (EB), Didgeridoo_10 (EB), Dino_12 (AK), DirtyBubble_9 (EB), Doobus_9 (EB), DrRobert_8 (AK), DreamTeam_8 (AK), Eden_8 (EB), Elva_10 (EB), EstebanJulior_8 (AK), Eula_9 (EB), Eunoia_8 (AK), Finalfrontier_10 (EB), FlameThrower_9 (EB), Fluke_12 (AK), Franklin22_8 (EB), Gack_8 (EB), Gisselle_8 (AK), Glenn_12 (AK), Graynor_12 (AK), GreenHearts_12 (AK), Greenhouse_12 (AK), HeadNerd_8 (AK), Herb_8 (AK), Huckleberry_8 (AK), HunterDalle_8 (AK), Huntingdon_12 (AK), Icarian_10 (EB), Immaculata_12 (AK), IndyLu_9 (EB), Jabb_9 (EB), Joann_12 (AK), Johnathan_9 (EB), Jovita_9 (EB), Jumboset_12 (AK), Kalizoi_12 (AK), Kamdara_9 (EB), Kate33_9 (EB), Katzastrophic_9 (EB), Kenzers_9 (EB), Kieran_9 (EB), KingBob_8 (AK), Kittykat_8 (AK), Korra_12 (AK), Lahqtemish_9 (EB), Lakshmi_12 (AK), Lasagna_8 (AK), Lennox_8 (AK), LilStuart_8 (AK), Lilo27_9 (EB), LimaBean_9 (EB), Litotes_12 (AK), Loviatar_9 (EB), Lucy_8 (AK), Lynlen_9 (EB), Makoto_8 (AK), MamaPearl_8 (AK), Maria1952_8 (AK), MeganNoll_12 (AK), Milomuff_10 (EB), Mireles_11 (FR), Misaeng_12 (AK), Moki_8 (AK), MrBoss_12 (AK), MrGloopy_12 (AK), MsUbiquitous_9 (EB), Nancia_8 (AK), Nicky22_10 (EB), Nubia_12 (AK), OMalley_8 (AK), Olliecat_9 (EB), OurGirlNessie_8 (AK), Oxynfrius_12 (AK), PFR1_07 (BX), PFR2_07 (BX), PartyCup_12 (AK), PastaFagioli_9 (EB), Pecas_9 (EB), PhigPhack_9 (EB), Phisb_9 (EB), PinkFriday_8 (AK), PitaDog_8 (AK), PondAmelia_12 (EB), Potatoes_12 (AK), Preamble_8 (AK), Pterodactyl_8 (AK), Pumancara_8 (AK), QMacho_10 (EB), Quenya_10 (EB), RAP15_12 (AK), RcigaStruga_12 (AK), Rivovina_8 (AK), Riverdale_12 (AK), Rollins_8 (EB), Rona_9 (EB), Rozby_12 (AK), SanaSana_10 (EB), SansAfet_9 (EB), SarBear_9 (EB), Savage2526_12 (AK), Scuttle_12 (AK), Sergei_8 (AK), Sharkboy_9 (EB), Shayna_8 (EB), SirBeaington_9

(EB), Skylord_8 (EB), Slay_9 (EB), Softsoap_9 (EB), Solea_10 (EB), Squircle_9 (EB), Stoor_9 (EB), Stromboli_9 (EB), SunnyD_8 (EB), Supakev_8 (AK), Suppi_12 (AK), Swervy_9 (EB), TattModd_12 (AK), Teagster_8 (EB), Temper16_8 (AK), TukTuk_9 (EB), Urla_8 (AK), Vallejo_12 (AK), Vitas_8 (EB), Vulture_8 (AK), WalkingDead_9 (EB), Wawa_12 (AK), Wayne_12 (AK), WonderBoy_8 (AK), Zorro_12 (AK),

Start 41:

- Found in 1 of 321 (0.3%) of genes in pham
- No Manual Annotations of this start.
- Called 100.0% of time when present
- Phage (with cluster) where this start called: Gibbzilla_10 (FB),

Start 42:

- Found in 74 of 321 (23.1%) of genes in pham
- Manual Annotations of this start: 45 of 258
- Called 77.0% of time when present
- Phage (with cluster) where this start called: ATCC29399BC_8 (BU), ATCC29399BT_8 (BU), Aquarius_8 (BU), Attacne_8 (BU), BruceLethal_8 (BU), Cota_8 (BU), DrParker_8 (BU), Enochoraptor_8 (BU), Enoki_8 (BU), Keiki_8 (BU), Kubed_8 (BU), Lauchelly_8 (BU), Leviosa_8 (BU), LilBandit_8 (BU), MEAK_8 (BU), Moyashi_8 (BU), MrAK_8 (BU), Ouroboros_8 (BU), P1.1_8 (BU), P100.1_8 (BU), P100A_8 (BU), P100D_8 (BU), P101A_8 (BU), P104A_8 (BU), P104B_8 (BU), P105_8 (BU), P106A_8 (BU), P106C_8 (BU), P106I_8 (BU), P106L_8 (BU), P106M_8 (BU), P107A_8 (BU), P107C_8 (BU), P108C_8 (BU), P14.4_8 (BU), P9.1_8 (BU), PA6_8 (BU), PAD20_8 (BU), PAS50_8 (BU), PHL010M04_08 (BU), PHL037M02_08 (BU), PHL060L00_08 (BU), PHL067M10_08 (BU), PHL071N05_08 (BU), PHL111M01_08 (BU), PHL112N00_08 (BU), PHL113M01_08 (BU), PHL114L00_08 (BU), Pirate_8 (BU), Procrass1_8 (BU), QueenBey_8 (BU), Rileysaurus_8 (BU), SKKY_8 (BU), Solid_8 (BU), Stormborn_8 (BU), Supernova_8 (BU), Wizzo_8 (BU),

Start 44:

- Found in 1 of 321 (0.3%) of genes in pham
- Manual Annotations of this start: 1 of 258
- Called 100.0% of time when present
- Phage (with cluster) where this start called: Spartoi_8 (singleton),

Start 45:

- Found in 13 of 321 (4.0%) of genes in pham
- Manual Annotations of this start: 3 of 258
- Called 100.0% of time when present
- Phage (with cluster) where this start called: AnnabelLee_11 (FR), BaileyBlu_9 (FP), CallinAllBarbz_9 (FP), CardboardBox_11 (FR), ChamoyPickle_11 (FR), ChipsNGuac_11 (FR), Elfy_8 (FP), Ezurina_10 (FR), Gerri43_11 (FR), GrimEater_10 (FP), Neuville_11 (FR), Roberts_11 (FR), Studio_11 (FR),

Start 46:

- Found in 18 of 321 (5.6%) of genes in pham
- Manual Annotations of this start: 1 of 258
- Called 33.3% of time when present
- Phage (with cluster) where this start called: Agamoto_13 (FR), Audell_14 (FR), LastNadiia_14 (FR), Makima_12 (FR), TMaxx_11 (FR), TripleC_14 (FR),

Summary by clusters:

There are 11 clusters represented in this pham: AS3, AS2, FR, AK, AS1, FP, EB, BU, FB, singleton, BX,

Info for manual annotations of cluster AK:

- Start number 40 was manually annotated 84 times for cluster AK.

Info for manual annotations of cluster AS1:

- Start number 39 was manually annotated 13 times for cluster AS1.

Info for manual annotations of cluster AS2:

- Start number 39 was manually annotated 17 times for cluster AS2.

Info for manual annotations of cluster AS3:

- Start number 39 was manually annotated 14 times for cluster AS3.

Info for manual annotations of cluster BU:

- Start number 42 was manually annotated 45 times for cluster BU.

Info for manual annotations of cluster EB:

- Start number 38 was manually annotated 1 time for cluster EB.
- Start number 40 was manually annotated 79 times for cluster EB.

Info for manual annotations of cluster FP:

- Start number 45 was manually annotated 2 times for cluster FP.

Info for manual annotations of cluster FR:

- Start number 45 was manually annotated 1 time for cluster FR.
- Start number 46 was manually annotated 1 time for cluster FR.

Gene Information:

Gene: ATCC29399BC_8 Start: 6098, Stop: 6445, Start Num: 42

Candidate Starts for ATCC29399BC_8:

(29, 6035), (Start: 42 @6098 has 45 MA's), (51, 6128), (52, 6131), (62, 6173), (69, 6203), (74, 6215), (91, 6287), (94, 6308), (104, 6350), (109, 6374), (110, 6377), (111, 6392), (118, 6425),

Gene: ATCC29399BT_8 Start: 6095, Stop: 6442, Start Num: 42

Candidate Starts for ATCC29399BT_8:

(36, 6080), (Start: 42 @6095 has 45 MA's), (51, 6125), (52, 6128), (69, 6200), (74, 6212), (77, 6230), (104, 6347), (109, 6371), (110, 6374), (111, 6389), (117, 6416), (118, 6422),

Gene: Abidatro_10 Start: 7704, Stop: 8066, Start Num: 39

Candidate Starts for Abidatro_10:

(Start: 39 @7704 has 44 MA's), (Start: 42 @7707 has 45 MA's), (49, 7731), (67, 7800), (69, 7809), (80, 7857), (86, 7896), (91, 7914), (94, 7932), (97, 7941), (109, 8001),

Gene: Abigail_9 Start: 7444, Stop: 7773, Start Num: 40

Candidate Starts for Abigail_9:

(Start: 40 @7444 has 163 MA's), (47, 7459), (105, 7696), (115, 7741),

Gene: AdoptaAdorbs_9 Start: 7312, Stop: 7650, Start Num: 39

Candidate Starts for AdoptaAdorbs_9:

(5, 7018), (11, 7105), (19, 7189), (32, 7273), (Start: 39 @7312 has 44 MA's), (55, 7357), (60, 7381), (71, 7423), (75, 7438), (86, 7483), (88, 7489), (95, 7522), (105, 7570), (110, 7588),

Gene: Agamoto_13 Start: 10199, Stop: 10531, Start Num: 46

Candidate Starts for Agamoto_13:

(Start: 46 @10199 has 1 MA's),

Gene: Akino08_9 Start: 7563, Stop: 7892, Start Num: 40

Candidate Starts for Akino08_9:

(4, 7266), (Start: 38 @7560 has 1 MA's), (Start: 40 @7563 has 163 MA's), (47, 7578), (100, 7788), (105, 7815), (107, 7824), (113, 7848), (115, 7860),

Gene: Albanese_12 Start: 9846, Stop: 10184, Start Num: 40

Candidate Starts for Albanese_12:

(Start: 40 @9846 has 163 MA's), (76, 9978), (92, 10035), (114, 10143),

Gene: Albedo_9 Start: 7316, Stop: 7645, Start Num: 40

Candidate Starts for Albedo_9:

(9, 7076), (23, 7220), (Start: 40 @7316 has 163 MA's), (47, 7331), (105, 7568), (115, 7613), (117, 7619),

Gene: Albright_9 Start: 7325, Stop: 7654, Start Num: 40

Candidate Starts for Albright_9:

(Start: 40 @7325 has 163 MA's), (47, 7340), (105, 7577), (115, 7622),

Gene: Aledel_8 Start: 6923, Stop: 7261, Start Num: 40

Candidate Starts for Aledel_8:

(Start: 40 @6923 has 163 MA's), (52, 6956), (61, 6995), (81, 7076), (106, 7181), (108, 7190),

Gene: AlexMinion_9 Start: 7338, Stop: 7676, Start Num: 39

Candidate Starts for AlexMinion_9:

(19, 7215), (27, 7263), (Start: 39 @7338 has 44 MA's), (60, 7407), (70, 7446), (71, 7449), (75, 7464), (95, 7548), (105, 7596), (119, 7662),

Gene: Amanises_11 Start: 7899, Stop: 8240, Start Num: 39

Candidate Starts for Amanises_11:

(Start: 39 @7899 has 44 MA's), (Start: 42 @7902 has 45 MA's), (55, 7944), (70, 8007), (71, 8010), (75, 8025), (100, 8133), (105, 8160), (115, 8211),

Gene: Amelia_11 Start: 7903, Stop: 8244, Start Num: 39

Candidate Starts for Amelia_11:

(18, 7771), (27, 7828), (Start: 39 @7903 has 44 MA's), (75, 8029), (80, 8056), (95, 8116), (96, 8119), (100, 8137), (105, 8164), (115, 8215),

Gene: AmiCi24_9 Start: 7312, Stop: 7650, Start Num: 39

Candidate Starts for AmiCi24_9:

(5, 7018), (11, 7105), (19, 7189), (32, 7273), (Start: 39 @7312 has 44 MA's), (55, 7357), (60, 7381), (71, 7423), (75, 7438), (86, 7483), (88, 7489), (95, 7522), (105, 7570), (110, 7588),

Gene: Amphitrite_9 Start: 7310, Stop: 7648, Start Num: 39

Candidate Starts for Amphitrite_9:

(5, 7016), (11, 7103), (19, 7187), (32, 7271), (Start: 39 @7310 has 44 MA's), (55, 7355), (60, 7379), (71, 7421), (75, 7436), (86, 7481), (88, 7487), (95, 7520), (105, 7568),

Gene: Andrew_10 Start: 7691, Stop: 8029, Start Num: 39

Candidate Starts for Andrew_10:

(19, 7568), (21, 7592), (Start: 39 @7691 has 44 MA's), (55, 7736), (69, 7796), (71, 7802), (75, 7817), (86, 7862), (95, 7901), (102, 7931), (105, 7949),

Gene: AnnaLie_10 Start: 7671, Stop: 8000, Start Num: 40

Candidate Starts for AnnaLie_10:

(Start: 40 @7671 has 163 MA's), (47, 7686), (105, 7923), (115, 7968),

Gene: AnnabelLee_11 Start: 7129, Stop: 7464, Start Num: 45

Candidate Starts for AnnabelLee_11:

(Start: 45 @7129 has 3 MA's), (54, 7159), (105, 7381),

Gene: Antrice_10 Start: 7647, Stop: 7985, Start Num: 39

Candidate Starts for Antrice_10:

(18, 7515), (28, 7581), (Start: 39 @7647 has 44 MA's), (55, 7692), (70, 7755), (75, 7773), (80, 7800), (115, 7956),

Gene: AppleCider_12 Start: 9802, Stop: 10140, Start Num: 40

Candidate Starts for AppleCider_12:

(Start: 40 @9802 has 163 MA's),

Gene: Aquarius_8 Start: 6088, Stop: 6435, Start Num: 42

Candidate Starts for Aquarius_8:

(29, 6025), (Start: 42 @6088 has 45 MA's), (51, 6118), (52, 6121), (62, 6163), (69, 6193), (74, 6205), (103, 6337), (104, 6340), (110, 6367), (111, 6382), (118, 6415),

Gene: Armstrong_8 Start: 7093, Stop: 7425, Start Num: 40

Candidate Starts for Armstrong_8:

(4, 6796), (Start: 40 @7093 has 163 MA's), (Start: 46 @7105 has 1 MA's), (47, 7108), (56, 7144), (61, 7165), (62, 7168), (88, 7267), (105, 7348),

Gene: Arroyo_10 Start: 7795, Stop: 8124, Start Num: 40

Candidate Starts for Arroyo_10:

(Start: 40 @7795 has 163 MA's), (47, 7810), (105, 8047), (115, 8092),

Gene: Atlantica_9 Start: 7312, Stop: 7650, Start Num: 39

Candidate Starts for Atlantica_9:

(5, 7018), (11, 7105), (19, 7189), (32, 7273), (Start: 39 @7312 has 44 MA's), (55, 7357), (60, 7381), (71, 7423), (75, 7438), (86, 7483), (88, 7489), (95, 7522), (105, 7570), (110, 7588),

Gene: Attacne_8 Start: 6099, Stop: 6446, Start Num: 42

Candidate Starts for Attacne_8:

(29, 6036), (Start: 42 @6099 has 45 MA's), (51, 6129), (52, 6132), (62, 6174), (69, 6204), (74, 6216), (77, 6234), (91, 6288), (94, 6309), (104, 6351), (110, 6378), (111, 6393), (118, 6426),

Gene: Audell_14 Start: 10469, Stop: 10801, Start Num: 46

Candidate Starts for Audell_14:
(Start: 46 @10469 has 1 MA's), (96, 10673),

Gene: AustinPowers_8 Start: 6924, Stop: 7262, Start Num: 40
Candidate Starts for AustinPowers_8:
(Start: 40 @6924 has 163 MA's), (52, 6957), (61, 6996), (81, 7077), (106, 7182), (108, 7191),

Gene: AvGardian_9 Start: 7373, Stop: 7702, Start Num: 40
Candidate Starts for AvGardian_9:
(Start: 40 @7373 has 163 MA's), (47, 7388), (68, 7472), (99, 7595), (105, 7625), (113, 7658), (115, 7670),

Gene: Avocadoman_9 Start: 7383, Stop: 7712, Start Num: 40
Candidate Starts for Avocadoman_9:
(Start: 40 @7383 has 163 MA's), (47, 7398), (105, 7635), (115, 7680),

Gene: AylexOG_10 Start: 7667, Stop: 7996, Start Num: 40
Candidate Starts for AylexOG_10:
(9, 7427), (23, 7571), (Start: 40 @7667 has 163 MA's), (47, 7682), (68, 7766), (69, 7769), (99, 7889), (105, 7919), (107, 7928), (115, 7964),

Gene: Azaz_9 Start: 7363, Stop: 7701, Start Num: 39
Candidate Starts for Azaz_9:
(19, 7240), (Start: 39 @7363 has 44 MA's), (55, 7408), (60, 7432), (71, 7474), (75, 7489), (86, 7534), (88, 7540), (95, 7573), (105, 7621), (110, 7639),

Gene: BAjuniper_9 Start: 7266, Stop: 7598, Start Num: 40
Candidate Starts for BAjuniper_9:
(4, 6969), (9, 7026), (Start: 40 @7266 has 163 MA's), (47, 7281), (56, 7314), (61, 7335), (94, 7470),

Gene: Babushka_9 Start: 7360, Stop: 7698, Start Num: 39
Candidate Starts for Babushka_9:
(19, 7237), (Start: 39 @7360 has 44 MA's), (55, 7405), (60, 7429), (71, 7471), (75, 7486), (86, 7531), (88, 7537), (95, 7570), (105, 7618), (110, 7636),

Gene: BabyDaisy_10 Start: 7544, Stop: 7873, Start Num: 40
Candidate Starts for BabyDaisy_10:
(Start: 40 @7544 has 163 MA's), (47, 7559), (99, 7766), (105, 7796), (113, 7829), (115, 7841),

Gene: BabyYoda_9 Start: 7566, Stop: 7895, Start Num: 40
Candidate Starts for BabyYoda_9:
(Start: 38 @7563 has 1 MA's), (Start: 40 @7566 has 163 MA's), (47, 7581), (99, 7788), (100, 7791), (105, 7818), (115, 7863),

Gene: Bachaco_9 Start: 7457, Stop: 7786, Start Num: 40
Candidate Starts for Bachaco_9:
(Start: 38 @7454 has 1 MA's), (Start: 40 @7457 has 163 MA's), (47, 7472), (56, 7505), (99, 7679), (105, 7709), (115, 7754), (120, 7772),

Gene: BaileyBlu_9 Start: 6175, Stop: 6513, Start Num: 45
Candidate Starts for BaileyBlu_9:
(35, 6163), (Start: 45 @6175 has 3 MA's), (71, 6277), (83, 6322), (86, 6340), (88, 6346), (94, 6376),

Gene: Basilisk_10 Start: 8028, Stop: 8390, Start Num: 39

Candidate Starts for Basilisk_10:

(Start: 39 @8028 has 44 MA's), (49, 8055), (67, 8124), (69, 8133), (82, 8190), (86, 8220), (91, 8238), (94, 8256), (97, 8265), (109, 8325),

Gene: Bedetta_11 Start: 7903, Stop: 8244, Start Num: 39

Candidate Starts for Bedetta_11:

(18, 7771), (27, 7828), (Start: 39 @7903 has 44 MA's), (75, 8029), (80, 8056), (95, 8116), (96, 8119), (100, 8137), (105, 8164), (115, 8215),

Gene: Beethoven_12 Start: 9762, Stop: 10100, Start Num: 40

Candidate Starts for Beethoven_12:

(Start: 40 @9762 has 163 MA's), (91, 9948), (108, 10029), (114, 10059),

Gene: BelmontSKP_10 Start: 7671, Stop: 8000, Start Num: 40

Candidate Starts for BelmontSKP_10:

(Start: 40 @7671 has 163 MA's), (47, 7686), (105, 7923), (115, 7968),

Gene: Bengal_9 Start: 7325, Stop: 7654, Start Num: 40

Candidate Starts for Bengal_9:

(Start: 40 @7325 has 163 MA's), (47, 7340), (105, 7577), (115, 7622),

Gene: Bennie_8 Start: 6907, Stop: 7245, Start Num: 40

Candidate Starts for Bennie_8:

(Start: 40 @6907 has 163 MA's), (52, 6940), (114, 7204),

Gene: Bernstein_8 Start: 7153, Stop: 7485, Start Num: 40

Candidate Starts for Bernstein_8:

(4, 6856), (Start: 40 @7153 has 163 MA's), (Start: 46 @7165 has 1 MA's), (47, 7168), (56, 7204), (61, 7225), (62, 7228), (88, 7327), (105, 7408),

Gene: Bible12_11 Start: 7906, Stop: 8247, Start Num: 39

Candidate Starts for Bible12_11:

(18, 7774), (27, 7831), (Start: 39 @7906 has 44 MA's), (75, 8032), (80, 8059), (95, 8119), (96, 8122), (100, 8140), (105, 8167), (115, 8218),

Gene: BigMack_8 Start: 6907, Stop: 7245, Start Num: 40

Candidate Starts for BigMack_8:

(Start: 40 @6907 has 163 MA's), (43, 6910), (52, 6940), (114, 7204),

Gene: Bodacious_8 Start: 6905, Stop: 7243, Start Num: 40

Candidate Starts for Bodacious_8:

(Start: 40 @6905 has 163 MA's), (52, 6938), (114, 7202),

Gene: Brahms_8 Start: 7093, Stop: 7425, Start Num: 40

Candidate Starts for Brahms_8:

(4, 6796), (Start: 40 @7093 has 163 MA's), (Start: 46 @7105 has 1 MA's), (47, 7108), (56, 7144), (61, 7165), (62, 7168), (88, 7267), (105, 7348),

Gene: BrotherBLo_12 Start: 9769, Stop: 10107, Start Num: 40

Candidate Starts for BrotherBLo_12:

(Start: 40 @9769 has 163 MA's), (76, 9901), (91, 9955), (108, 10036), (114, 10066),

Gene: BruceLethal_8 Start: 6088, Stop: 6435, Start Num: 42

Candidate Starts for BruceLethal_8:

(16, 5941), (17, 5944), (24, 5992), (29, 6025), (33, 6061), (34, 6064), (Start: 42 @6088 has 45 MA's), (51, 6118), (52, 6121), (59, 6151), (69, 6193), (77, 6223), (91, 6277), (94, 6298), (103, 6337), (104, 6340), (109, 6364), (110, 6367), (111, 6382), (118, 6415),

Gene: Brynnie_10 Start: 7840, Stop: 8202, Start Num: 39

Candidate Starts for Brynnie_10:

(18, 7708), (Start: 39 @7840 has 44 MA's), (49, 7867), (67, 7936), (69, 7945), (82, 8002), (86, 8032), (91, 8050), (94, 8068), (97, 8077), (109, 8137),

Gene: BubbaBear_9 Start: 7316, Stop: 7645, Start Num: 40

Candidate Starts for BubbaBear_9:

(9, 7076), (23, 7220), (Start: 40 @7316 has 163 MA's), (47, 7331), (105, 7568), (115, 7613), (117, 7619),

Gene: Buldak_9 Start: 7601, Stop: 7930, Start Num: 40

Candidate Starts for Buldak_9:

(4, 7304), (Start: 40 @7601 has 163 MA's), (47, 7616), (52, 7631), (56, 7649), (58, 7655), (63, 7676), (88, 7772), (105, 7853), (113, 7886),

Gene: Burritobowl_9 Start: 7352, Stop: 7681, Start Num: 40

Candidate Starts for Burritobowl_9:

(Start: 40 @7352 has 163 MA's), (47, 7367), (105, 7604), (115, 7649),

Gene: CallieOMalley_12 Start: 9802, Stop: 10140, Start Num: 40

Candidate Starts for CallieOMalley_12:

(Start: 40 @9802 has 163 MA's), (52, 9835),

Gene: CallinAllBarbz_9 Start: 6185, Stop: 6523, Start Num: 45

Candidate Starts for CallinAllBarbz_9:

(35, 6173), (Start: 45 @6185 has 3 MA's), (69, 6281), (71, 6287), (83, 6332), (86, 6350), (88, 6356), (94, 6386),

Gene: Camara_9 Start: 7313, Stop: 7651, Start Num: 39

Candidate Starts for Camara_9:

(5, 7019), (11, 7106), (19, 7190), (32, 7274), (Start: 39 @7313 has 44 MA's), (55, 7358), (60, 7382), (71, 7424), (75, 7439), (86, 7484), (88, 7490), (95, 7523), (105, 7571),

Gene: Canowicakte_12 Start: 9837, Stop: 10175, Start Num: 40

Candidate Starts for Canowicakte_12:

(Start: 40 @9837 has 163 MA's), (52, 9870),

Gene: CardboardBox_11 Start: 7129, Stop: 7464, Start Num: 45

Candidate Starts for CardboardBox_11:

(Start: 45 @7129 has 3 MA's), (54, 7159), (105, 7381),

Gene: Carpal_12 Start: 9769, Stop: 10107, Start Num: 40

Candidate Starts for Carpal_12:

(Start: 40 @9769 has 163 MA's), (91, 9955), (108, 10036), (114, 10066),

Gene: Cashington_9 Start: 7342, Stop: 7671, Start Num: 40

Candidate Starts for Cashington_9:

(Start: 40 @7342 has 163 MA's), (47, 7357), (105, 7594), (115, 7639),

Gene: Celaena_9 Start: 7394, Stop: 7723, Start Num: 40

Candidate Starts for Celaena_9:

(Start: 38 @7391 has 1 MA's), (Start: 40 @7394 has 163 MA's), (47, 7409), (56, 7442), (99, 7616), (105, 7646), (115, 7691), (120, 7709),

Gene: ChamoyPickle_11 Start: 7129, Stop: 7464, Start Num: 45

Candidate Starts for ChamoyPickle_11:

(Start: 45 @7129 has 3 MA's), (54, 7159), (105, 7381),

Gene: ChewChew_8 Start: 6904, Stop: 7242, Start Num: 40

Candidate Starts for ChewChew_8:

(Start: 40 @6904 has 163 MA's), (52, 6937), (114, 7201),

Gene: Chickaboom_9 Start: 7385, Stop: 7747, Start Num: 39

Candidate Starts for Chickaboom_9:

(18, 7253), (Start: 39 @7385 has 44 MA's), (49, 7412), (67, 7481), (69, 7490), (82, 7547), (86, 7577), (91, 7595), (94, 7613), (97, 7622), (109, 7682),

Gene: Chicken_10 Start: 7688, Stop: 8029, Start Num: 39

Candidate Starts for Chicken_10:

(18, 7556), (27, 7613), (37, 7685), (Start: 39 @7688 has 44 MA's), (Start: 42 @7691 has 45 MA's), (55, 7733), (70, 7796), (71, 7799), (75, 7814), (100, 7922), (105, 7949), (109, 7964), (110, 7967), (115, 8000),

Gene: ChiliPepper_9 Start: 7553, Stop: 7882, Start Num: 40

Candidate Starts for ChiliPepper_9:

(4, 7256), (23, 7457), (Start: 38 @7550 has 1 MA's), (Start: 40 @7553 has 163 MA's), (47, 7568), (62, 7625), (66, 7643), (80, 7700), (99, 7775), (105, 7805), (115, 7850),

Gene: ChipsNGuac_11 Start: 7129, Stop: 7464, Start Num: 45

Candidate Starts for ChipsNGuac_11:

(Start: 45 @7129 has 3 MA's), (54, 7159), (105, 7381),

Gene: Cholula_12 Start: 9814, Stop: 10152, Start Num: 40

Candidate Starts for Cholula_12:

(Start: 40 @9814 has 163 MA's), (91, 10000), (108, 10081), (114, 10111),

Gene: Chridison_8 Start: 6924, Stop: 7262, Start Num: 40

Candidate Starts for Chridison_8:

(Start: 40 @6924 has 163 MA's), (52, 6957), (61, 6996), (81, 7077), (106, 7182), (108, 7191),

Gene: Christian_8 Start: 6905, Stop: 7243, Start Num: 40

Candidate Starts for Christian_8:

(Start: 40 @6905 has 163 MA's), (52, 6938), (114, 7202),

Gene: Clayda5_8 Start: 7093, Stop: 7425, Start Num: 40

Candidate Starts for Clayda5_8:

(4, 6796), (Start: 40 @7093 has 163 MA's), (Start: 46 @7105 has 1 MA's), (47, 7108), (56, 7144), (61, 7165), (62, 7168), (88, 7267), (105, 7348),

Gene: CliffHanger_10 Start: 7300, Stop: 7629, Start Num: 40

Candidate Starts for CliffHanger_10:

(Start: 40 @7300 has 163 MA's), (47, 7315), (61, 7369), (105, 7552), (116, 7600),

Gene: Coltrane_8 Start: 7093, Stop: 7425, Start Num: 40

Candidate Starts for Coltrane_8:

(4, 6796), (Start: 40 @7093 has 163 MA's), (Start: 46 @7105 has 1 MA's), (47, 7108), (56, 7144), (61, 7165), (62, 7168), (88, 7267), (105, 7348),

Gene: Colusalem_10 Start: 7742, Stop: 8083, Start Num: 39

Candidate Starts for Colusalem_10:

(18, 7610), (27, 7667), (Start: 39 @7742 has 44 MA's), (75, 7868), (80, 7895), (95, 7955), (96, 7958), (100, 7976), (105, 8003), (115, 8054),

Gene: Coral_10 Start: 7742, Stop: 8083, Start Num: 39

Candidate Starts for Coral_10:

(18, 7610), (27, 7667), (Start: 39 @7742 has 44 MA's), (75, 7868), (80, 7895), (95, 7955), (96, 7958), (100, 7976), (105, 8003), (115, 8054),

Gene: Cota_8 Start: 6106, Stop: 6453, Start Num: 42

Candidate Starts for Cota_8:

(24, 6010), (29, 6043), (Start: 42 @6106 has 45 MA's), (51, 6136), (52, 6139), (69, 6211), (74, 6223), (91, 6295), (94, 6316), (104, 6358), (109, 6382), (110, 6385), (111, 6400), (118, 6433),

Gene: Cote_11 Start: 7903, Stop: 8244, Start Num: 39

Candidate Starts for Cote_11:

(18, 7771), (27, 7828), (Start: 39 @7903 has 44 MA's), (75, 8029), (80, 8056), (95, 8116), (96, 8119), (100, 8137), (105, 8164), (115, 8215),

Gene: CristinaYang_8 Start: 6905, Stop: 7243, Start Num: 40

Candidate Starts for CristinaYang_8:

(Start: 40 @6905 has 163 MA's), (52, 6938), (114, 7202),

Gene: CroZenni_9 Start: 7325, Stop: 7654, Start Num: 40

Candidate Starts for CroZenni_9:

(4, 7028), (9, 7085), (23, 7229), (Start: 40 @7325 has 163 MA's), (47, 7340), (105, 7577), (115, 7622),

Gene: CupcakePrincess_9 Start: 7302, Stop: 7631, Start Num: 40

Candidate Starts for CupcakePrincess_9:

(9, 7062), (23, 7206), (Start: 40 @7302 has 163 MA's), (47, 7317), (68, 7401), (105, 7554), (115, 7599), (117, 7605),

Gene: Cygnet_10 Start: 7689, Stop: 8027, Start Num: 39

Candidate Starts for Cygnet_10:

(18, 7557), (28, 7623), (Start: 39 @7689 has 44 MA's), (51, 7722), (55, 7734), (70, 7797), (75, 7815), (105, 7947), (115, 7998),

Gene: Daiboju_8 Start: 6925, Stop: 7263, Start Num: 40

Candidate Starts for Daiboju_8:

(Start: 40 @6925 has 163 MA's), (61, 6997), (90, 7108), (106, 7183), (108, 7192), (118, 7243),

Gene: DanHam62_9 Start: 7312, Stop: 7650, Start Num: 39

Candidate Starts for DanHam62_9:

(5, 7018), (11, 7105), (19, 7189), (32, 7273), (Start: 39 @7312 has 44 MA's), (55, 7357), (60, 7381), (71, 7423), (75, 7438), (86, 7483), (88, 7489), (95, 7522), (105, 7570), (110, 7588),

Gene: Daob_11 Start: 7906, Stop: 8247, Start Num: 39

Candidate Starts for Daob_11:

(18, 7774), (27, 7831), (Start: 39 @7906 has 44 MA's), (75, 8032), (80, 8059), (95, 8119), (96, 8122), (100, 8140), (105, 8167), (115, 8218),

Gene: DickRichards_9 Start: 7819, Stop: 8148, Start Num: 40

Candidate Starts for DickRichards_9:

(Start: 40 @7819 has 163 MA's), (47, 7834), (105, 8071), (115, 8116),

Gene: Didgeridoo_10 Start: 7544, Stop: 7873, Start Num: 40

Candidate Starts for Didgeridoo_10:

(4, 7247), (7, 7289), (9, 7304), (Start: 40 @7544 has 163 MA's), (47, 7559), (99, 7766), (105, 7796), (113, 7829), (115, 7841),

Gene: Dino_12 Start: 9768, Stop: 10106, Start Num: 40

Candidate Starts for Dino_12:

(Start: 40 @9768 has 163 MA's), (76, 9900), (91, 9954), (108, 10035), (114, 10065),

Gene: DirtyBubble_9 Start: 7574, Stop: 7903, Start Num: 40

Candidate Starts for DirtyBubble_9:

(4, 7277), (9, 7334), (Start: 38 @7571 has 1 MA's), (Start: 40 @7574 has 163 MA's), (47, 7589), (99, 7796), (100, 7799), (105, 7826), (115, 7871),

Gene: Dismas_9 Start: 7550, Stop: 7882, Start Num: 38

Candidate Starts for Dismas_9:

(4, 7256), (23, 7457), (Start: 38 @7550 has 1 MA's), (Start: 40 @7553 has 163 MA's), (47, 7568), (62, 7625), (80, 7700), (99, 7775), (105, 7805), (115, 7850),

Gene: Doobus_9 Start: 7556, Stop: 7885, Start Num: 40

Candidate Starts for Doobus_9:

(Start: 40 @7556 has 163 MA's), (47, 7571), (105, 7808), (115, 7853),

Gene: DrParker_8 Start: 6113, Stop: 6460, Start Num: 42

Candidate Starts for DrParker_8:

(13, 5957), (15, 5963), (16, 5966), (17, 5969), (20, 6008), (24, 6017), (26, 6029), (29, 6050), (Start: 42 @6113 has 45 MA's), (51, 6143), (52, 6146), (59, 6176), (62, 6188), (69, 6218), (74, 6230), (91, 6302), (94, 6323), (104, 6365), (110, 6392), (111, 6407), (118, 6440),

Gene: DrRobert_8 Start: 6905, Stop: 7243, Start Num: 40

Candidate Starts for DrRobert_8:

(Start: 40 @6905 has 163 MA's), (52, 6938), (114, 7202),

Gene: DreamTeam_8 Start: 6951, Stop: 7289, Start Num: 40

Candidate Starts for DreamTeam_8:

(Start: 40 @6951 has 163 MA's), (52, 6984), (114, 7248),

Gene: Eden_8 Start: 7182, Stop: 7514, Start Num: 40

Candidate Starts for Eden_8:

(Start: 40 @7182 has 163 MA's), (Start: 46 @7194 has 1 MA's), (47, 7197), (56, 7233), (101, 7416),

Gene: Eesa_10 Start: 7902, Stop: 8243, Start Num: 39

Candidate Starts for Eesa_10:

(Start: 39 @7902 has 44 MA's), (Start: 42 @7905 has 45 MA's), (55, 7947), (70, 8010), (71, 8013), (75, 8028), (100, 8136), (105, 8163), (115, 8214),

Gene: Elfy_8 Start: 6109, Stop: 6465, Start Num: 45

Candidate Starts for Elfy_8:

(Start: 45 @6109 has 3 MA's), (56, 6151), (59, 6163), (64, 6184), (69, 6205), (78, 6244), (79, 6250), (83, 6274), (86, 6292), (87, 6295), (94, 6328), (106, 6382), (121, 6454),

Gene: Elva_10 Start: 7631, Stop: 7960, Start Num: 40

Candidate Starts for Elva_10:

(4, 7334), (Start: 38 @7628 has 1 MA's), (Start: 40 @7631 has 163 MA's), (47, 7646), (99, 7853), (100, 7856), (105, 7883), (115, 7928),

Gene: Enochoraptor_8 Start: 6109, Stop: 6456, Start Num: 42

Candidate Starts for Enochoraptor_8:

(13, 5953), (15, 5959), (16, 5962), (17, 5965), (20, 6004), (21, 6007), (24, 6013), (29, 6046), (33, 6082), (34, 6085), (Start: 42 @6109 has 45 MA's), (50, 6136), (51, 6139), (52, 6142), (62, 6184), (74, 6226), (91, 6298), (94, 6319), (104, 6361), (109, 6385), (110, 6388), (111, 6403), (118, 6436),

Gene: Enoki_8 Start: 6094, Stop: 6441, Start Num: 42

Candidate Starts for Enoki_8:

(13, 5938), (17, 5950), (24, 5998), (29, 6031), (Start: 42 @6094 has 45 MA's), (51, 6124), (52, 6127), (62, 6169), (69, 6199), (74, 6211), (91, 6283), (104, 6346), (109, 6370), (110, 6373), (111, 6388), (118, 6421),

Gene: EstebanJulior_8 Start: 6949, Stop: 7287, Start Num: 40

Candidate Starts for EstebanJulior_8:

(Start: 40 @6949 has 163 MA's), (52, 6982), (76, 7081), (114, 7246),

Gene: Eula_9 Start: 7323, Stop: 7652, Start Num: 40

Candidate Starts for Eula_9:

(9, 7083), (23, 7227), (Start: 40 @7323 has 163 MA's), (47, 7338), (68, 7422), (105, 7575), (115, 7620), (117, 7626),

Gene: Eunoia_8 Start: 6923, Stop: 7261, Start Num: 40

Candidate Starts for Eunoia_8:

(Start: 40 @6923 has 163 MA's), (52, 6956), (61, 6995), (81, 7076), (106, 7181), (108, 7190),

Gene: Ezurina_10 Start: 6694, Stop: 7029, Start Num: 45

Candidate Starts for Ezurina_10:

(Start: 45 @6694 has 3 MA's), (105, 6946),

Gene: Finalfrontier_10 Start: 7834, Stop: 8163, Start Num: 40

Candidate Starts for Finalfrontier_10:

(9, 7594), (23, 7738), (Start: 40 @7834 has 163 MA's), (47, 7849), (68, 7933), (69, 7936), (99, 8056), (105, 8086), (107, 8095), (115, 8131),

Gene: Fingolfin_9 Start: 7313, Stop: 7651, Start Num: 39

Candidate Starts for Fingolfin_9:

(5, 7019), (11, 7106), (19, 7190), (32, 7274), (Start: 39 @7313 has 44 MA's), (55, 7358), (60, 7382), (71, 7424), (75, 7439), (86, 7484), (88, 7490), (95, 7523), (105, 7571), (110, 7589),

Gene: FlameThrower_9 Start: 7282, Stop: 7611, Start Num: 40

Candidate Starts for FlameThrower_9:

(1, 6853), (4, 6985), (Start: 38 @7279 has 1 MA's), (Start: 40 @7282 has 163 MA's), (47, 7297), (56, 7330), (99, 7504), (105, 7534), (115, 7579), (120, 7597),

Gene: Fluke_12 Start: 9810, Stop: 10148, Start Num: 40

Candidate Starts for Fluke_12:

(Start: 40 @9810 has 163 MA's), (91, 9996), (108, 10077), (114, 10107),

Gene: Franklin22_8 Start: 7163, Stop: 7495, Start Num: 40

Candidate Starts for Franklin22_8:

(Start: 38 @7160 has 1 MA's), (Start: 40 @7163 has 163 MA's), (Start: 46 @7175 has 1 MA's), (47, 7178), (58, 7220), (68, 7265), (75, 7286), (105, 7418),

Gene: Gack_8 Start: 7233, Stop: 7565, Start Num: 40

Candidate Starts for Gack_8:

(Start: 40 @7233 has 163 MA's), (Start: 46 @7245 has 1 MA's), (47, 7248), (52, 7266), (63, 7311), (81, 7386), (105, 7488),

Gene: Galaxy_10 Start: 7711, Stop: 8073, Start Num: 39

Candidate Starts for Galaxy_10:

(Start: 39 @7711 has 44 MA's), (Start: 42 @7714 has 45 MA's), (49, 7738), (67, 7807), (69, 7816), (80, 7864), (82, 7873), (86, 7903), (91, 7921), (94, 7939), (97, 7948), (109, 8008),

Gene: Gerri43_11 Start: 7129, Stop: 7464, Start Num: 45

Candidate Starts for Gerri43_11:

(Start: 45 @7129 has 3 MA's), (54, 7159), (105, 7381),

Gene: Gibbzilla_10 Start: 6959, Stop: 7303, Start Num: 41

Candidate Starts for Gibbzilla_10:

(41, 6959), (63, 7037), (91, 7151),

Gene: Gisselle_8 Start: 6951, Stop: 7289, Start Num: 40

Candidate Starts for Gisselle_8:

(Start: 40 @6951 has 163 MA's), (52, 6984), (114, 7248),

Gene: Glenn_12 Start: 9820, Stop: 10158, Start Num: 40

Candidate Starts for Glenn_12:

(Start: 40 @9820 has 163 MA's), (91, 10006), (108, 10087), (114, 10117),

Gene: Glotell_9 Start: 7312, Stop: 7650, Start Num: 39

Candidate Starts for Glotell_9:

(5, 7018), (11, 7105), (19, 7189), (32, 7273), (Start: 39 @7312 has 44 MA's), (55, 7357), (60, 7381), (71, 7423), (75, 7438), (86, 7483), (88, 7489), (95, 7522), (105, 7570), (110, 7588),

Gene: Gravel_11 Start: 7898, Stop: 8239, Start Num: 39

Candidate Starts for Gravel_11:

(Start: 39 @7898 has 44 MA's), (Start: 42 @7901 has 45 MA's), (55, 7943), (70, 8006), (71, 8009), (75, 8024), (100, 8132), (105, 8159), (115, 8210),

Gene: Graynor_12 Start: 9826, Stop: 10164, Start Num: 40

Candidate Starts for Graynor_12:

(Start: 40 @9826 has 163 MA's), (52, 9859),

Gene: GreenHearts_12 Start: 9892, Stop: 10230, Start Num: 40

Candidate Starts for GreenHearts_12:

(Start: 40 @9892 has 163 MA's), (76, 10024), (92, 10081), (114, 10189),

Gene: Greenhouse_12 Start: 9817, Stop: 10155, Start Num: 40

Candidate Starts for Greenhouse_12:

(Start: 40 @9817 has 163 MA's), (76, 9949), (92, 10006), (106, 10075), (108, 10084), (114, 10114),

Gene: GrimEater_10 Start: 6187, Stop: 6525, Start Num: 45

Candidate Starts for GrimEater_10:

(Start: 45 @6187 has 3 MA's), (65, 6265), (83, 6334), (86, 6352), (94, 6388),

Gene: HamCheese_9 Start: 7312, Stop: 7650, Start Num: 39

Candidate Starts for HamCheese_9:

(5, 7018), (11, 7105), (19, 7189), (32, 7273), (Start: 39 @7312 has 44 MA's), (55, 7357), (60, 7381), (71, 7423), (75, 7438), (86, 7483), (88, 7489), (95, 7522), (105, 7570),

Gene: HannahPhantana_11 Start: 7906, Stop: 8247, Start Num: 39

Candidate Starts for HannahPhantana_11:

(18, 7774), (27, 7831), (Start: 39 @7906 has 44 MA's), (75, 8032), (80, 8059), (95, 8119), (96, 8122), (100, 8140), (105, 8167), (115, 8218),

Gene: HeadNerd_8 Start: 6907, Stop: 7245, Start Num: 40

Candidate Starts for HeadNerd_8:

(Start: 40 @6907 has 163 MA's), (52, 6940), (114, 7204),

Gene: Herb_8 Start: 6925, Stop: 7263, Start Num: 40

Candidate Starts for Herb_8:

(Start: 40 @6925 has 163 MA's), (61, 6997), (90, 7108), (106, 7183), (108, 7192), (118, 7243),

Gene: Huckleberry_8 Start: 6907, Stop: 7245, Start Num: 40

Candidate Starts for Huckleberry_8:

(Start: 40 @6907 has 163 MA's), (52, 6940), (114, 7204),

Gene: HunterDalle_8 Start: 6923, Stop: 7261, Start Num: 40

Candidate Starts for HunterDalle_8:

(Start: 40 @6923 has 163 MA's), (52, 6956), (61, 6995), (81, 7076), (106, 7181), (108, 7190),

Gene: Huntingdon_12 Start: 9803, Stop: 10141, Start Num: 40

Candidate Starts for Huntingdon_12:

(Start: 40 @9803 has 163 MA's), (49, 9827), (92, 9992), (108, 10070), (114, 10100), (118, 10121),

Gene: Icarian_10 Start: 7557, Stop: 7886, Start Num: 40

Candidate Starts for Icarian_10:

(4, 7260), (Start: 38 @7554 has 1 MA's), (Start: 40 @7557 has 163 MA's), (47, 7572), (100, 7782), (105, 7809), (115, 7854),

Gene: Immaculata_12 Start: 9814, Stop: 10152, Start Num: 40

Candidate Starts for Immaculata_12:

(Start: 40 @9814 has 163 MA's), (91, 10000), (108, 10081), (114, 10111),

Gene: IndyLu_9 Start: 7368, Stop: 7697, Start Num: 40

Candidate Starts for IndyLu_9:

(4, 7071), (7, 7113), (9, 7128), (Start: 40 @7368 has 163 MA's), (47, 7383), (99, 7590), (113, 7653), (115, 7665),

Gene: Jabb_9 Start: 7302, Stop: 7631, Start Num: 40

Candidate Starts for Jabb_9:

(9, 7062), (23, 7206), (Start: 40 @7302 has 163 MA's), (47, 7317), (68, 7401), (105, 7554), (115, 7599), (117, 7605),

Gene: Jamun_10 Start: 8052, Stop: 8414, Start Num: 39

Candidate Starts for Jamun_10:

(18, 7920), (Start: 39 @8052 has 44 MA's), (Start: 42 @8055 has 45 MA's), (49, 8079), (67, 8148), (69, 8157), (82, 8214), (86, 8244), (91, 8262), (94, 8280), (97, 8289), (109, 8349),

Gene: Jerole_11 Start: 7903, Stop: 8244, Start Num: 39

Candidate Starts for Jerole_11:

(18, 7771), (27, 7828), (Start: 39 @7903 has 44 MA's), (75, 8029), (80, 8056), (95, 8116), (96, 8119), (100, 8137), (105, 8164), (115, 8215),

Gene: Joann_12 Start: 9795, Stop: 10133, Start Num: 40

Candidate Starts for Joann_12:

(Start: 40 @9795 has 163 MA's), (76, 9927), (92, 9984), (106, 10053), (108, 10062), (114, 10092),

Gene: Johnathan_9 Start: 7325, Stop: 7654, Start Num: 40

Candidate Starts for Johnathan_9:

(Start: 40 @7325 has 163 MA's), (47, 7340), (105, 7577), (115, 7622),

Gene: Jovita_9 Start: 7424, Stop: 7753, Start Num: 40

Candidate Starts for Jovita_9:

(9, 7184), (23, 7328), (Start: 40 @7424 has 163 MA's), (47, 7439), (68, 7523), (105, 7676), (115, 7721), (117, 7727),

Gene: Jumboset_12 Start: 9763, Stop: 10101, Start Num: 40

Candidate Starts for Jumboset_12:

(12, 9598), (Start: 40 @9763 has 163 MA's), (91, 9949), (108, 10030), (114, 10060),

Gene: Juno112_9 Start: 7313, Stop: 7651, Start Num: 39

Candidate Starts for Juno112_9:

(5, 7019), (11, 7106), (19, 7190), (32, 7274), (Start: 39 @7313 has 44 MA's), (55, 7358), (60, 7382), (71, 7424), (75, 7439), (86, 7484), (88, 7490), (95, 7523), (105, 7571), (110, 7589),

Gene: KHumphrey_9 Start: 7312, Stop: 7650, Start Num: 39

Candidate Starts for KHumphrey_9:

(5, 7018), (11, 7105), (19, 7189), (32, 7273), (Start: 39 @7312 has 44 MA's), (55, 7357), (60, 7381), (71, 7423), (75, 7438), (86, 7483), (88, 7489), (95, 7522), (105, 7570), (110, 7588),

Gene: Kalizoi_12 Start: 9762, Stop: 10100, Start Num: 40

Candidate Starts for Kalizoi_12:

(Start: 40 @9762 has 163 MA's), (76, 9894), (91, 9948), (108, 10029), (114, 10059),

Gene: Kamdara_9 Start: 7552, Stop: 7881, Start Num: 40

Candidate Starts for Kamdara_9:

(4, 7255), (23, 7456), (Start: 38 @7549 has 1 MA's), (Start: 40 @7552 has 163 MA's), (47, 7567), (62, 7624), (80, 7699), (99, 7774), (105, 7804), (115, 7849),

Gene: Kate33_9 Start: 7367, Stop: 7696, Start Num: 40

Candidate Starts for Kate33_9:

(4, 7070), (7, 7112), (9, 7127), (Start: 40 @7367 has 163 MA's), (47, 7382), (99, 7589), (113, 7652), (115, 7664),

Gene: Katzastrophic_9 Start: 7457, Stop: 7786, Start Num: 40

Candidate Starts for Katzastrophic_9:

(Start: 38 @7454 has 1 MA's), (Start: 40 @7457 has 163 MA's), (47, 7472), (56, 7505), (99, 7679), (105, 7709), (115, 7754), (120, 7772),

Gene: Keiki_8 Start: 6106, Stop: 6453, Start Num: 42

Candidate Starts for Keiki_8:

(24, 6010), (29, 6043), (Start: 42 @6106 has 45 MA's), (51, 6136), (52, 6139), (69, 6211), (74, 6223), (91, 6295), (94, 6316), (104, 6358), (109, 6382), (110, 6385), (111, 6400), (118, 6433),

Gene: KendraB23_11 Start: 7899, Stop: 8240, Start Num: 39

Candidate Starts for KendraB23_11:

(Start: 39 @7899 has 44 MA's), (Start: 42 @7902 has 45 MA's), (55, 7944), (70, 8007), (71, 8010), (75, 8025), (100, 8133), (105, 8160), (115, 8211),

Gene: Kenzers_9 Start: 7339, Stop: 7668, Start Num: 40

Candidate Starts for Kenzers_9:

(9, 7099), (23, 7243), (Start: 40 @7339 has 163 MA's), (47, 7354), (105, 7591), (115, 7636), (117, 7642),

Gene: Kepler_10 Start: 7741, Stop: 8082, Start Num: 39

Candidate Starts for Kepler_10:

(18, 7609), (27, 7666), (Start: 39 @7741 has 44 MA's), (75, 7867), (80, 7894), (95, 7954), (96, 7957), (100, 7975), (105, 8002), (115, 8053),

Gene: Kieran_9 Start: 7556, Stop: 7885, Start Num: 40

Candidate Starts for Kieran_9:

(4, 7259), (23, 7460), (Start: 38 @7553 has 1 MA's), (Start: 40 @7556 has 163 MA's), (47, 7571), (62, 7628), (66, 7646), (80, 7703), (99, 7778), (105, 7808), (115, 7853),

Gene: KingBob_8 Start: 6925, Stop: 7263, Start Num: 40

Candidate Starts for KingBob_8:

(Start: 40 @6925 has 163 MA's), (61, 6997), (90, 7108), (106, 7183), (108, 7192), (118, 7243),

Gene: Kittykat_8 Start: 6948, Stop: 7286, Start Num: 40

Candidate Starts for Kittykat_8:

(Start: 40 @6948 has 163 MA's), (114, 7245),

Gene: Korra_12 Start: 9768, Stop: 10106, Start Num: 40

Candidate Starts for Korra_12:

(Start: 40 @9768 has 163 MA's), (76, 9900), (91, 9954), (108, 10035), (114, 10065),

Gene: Kubed_8 Start: 6096, Stop: 6443, Start Num: 42

Candidate Starts for Kubed_8:

(22, 5997), (29, 6033), (Start: 42 @6096 has 45 MA's), (51, 6126), (52, 6129), (62, 6171), (69, 6201), (74, 6213), (91, 6285), (104, 6348), (109, 6372), (110, 6375), (111, 6390), (118, 6423),

Gene: Kuleana_10 Start: 7701, Stop: 8042, Start Num: 39

Candidate Starts for Kuleana_10:

(Start: 39 @7701 has 44 MA's), (51, 7734), (70, 7809), (71, 7812), (75, 7827), (79, 7851), (80, 7854), (86, 7875), (95, 7914), (100, 7935), (105, 7962), (110, 7980), (115, 8013),

Gene: Lahqtemish_9 Start: 7412, Stop: 7741, Start Num: 40

Candidate Starts for Lahqtemish_9:

(Start: 40 @7412 has 163 MA's), (47, 7427), (99, 7634), (105, 7664), (113, 7697), (115, 7709),

Gene: Lakshmi_12 Start: 9822, Stop: 10160, Start Num: 40

Candidate Starts for Lakshmi_12:

(Start: 40 @9822 has 163 MA's), (76, 9954), (92, 10011), (114, 10119),

Gene: Laphuphu24k_9 Start: 7312, Stop: 7650, Start Num: 39

Candidate Starts for Laphuphu24k_9:

(5, 7018), (11, 7105), (19, 7189), (32, 7273), (Start: 39 @7312 has 44 MA's), (55, 7357), (60, 7381), (71, 7423), (75, 7438), (86, 7483), (88, 7489), (95, 7522), (105, 7570),

Gene: Lasagna_8 Start: 6905, Stop: 7243, Start Num: 40

Candidate Starts for Lasagna_8:

(Start: 40 @6905 has 163 MA's), (52, 6938), (114, 7202),

Gene: LastNadiia_14 Start: 9421, Stop: 9753, Start Num: 46

Candidate Starts for LastNadiia_14:

(Start: 46 @9421 has 1 MA's),

Gene: Lauchelly_8 Start: 6091, Stop: 6438, Start Num: 42

Candidate Starts for Lauchelly_8:

(13, 5935), (17, 5947), (24, 5995), (29, 6028), (34, 6067), (Start: 42 @6091 has 45 MA's), (51, 6121), (52, 6124), (69, 6196), (74, 6208), (104, 6343), (109, 6367), (110, 6370), (111, 6385), (118, 6418),

Gene: Lennox_8 Start: 6905, Stop: 7243, Start Num: 40

Candidate Starts for Lennox_8:

(Start: 40 @6905 has 163 MA's), (52, 6938), (114, 7202),

Gene: Leona_9 Start: 7363, Stop: 7701, Start Num: 39

Candidate Starts for Leona_9:

(19, 7240), (Start: 39 @7363 has 44 MA's), (55, 7408), (60, 7432), (71, 7474), (75, 7489), (86, 7534), (88, 7540), (95, 7573), (105, 7621), (110, 7639),

Gene: Leviosa_8 Start: 6112, Stop: 6459, Start Num: 42

Candidate Starts for Leviosa_8:

(13, 5956), (17, 5968), (24, 6016), (29, 6049), (34, 6088), (Start: 42 @6112 has 45 MA's), (51, 6142), (52, 6145), (59, 6175), (62, 6187), (69, 6217), (74, 6229), (75, 6235), (91, 6301), (94, 6322), (104, 6364), (109, 6388), (110, 6391), (111, 6406), (118, 6439),

Gene: LilBandit_8 Start: 6096, Stop: 6443, Start Num: 42

Candidate Starts for LilBandit_8:

(29, 6033), (Start: 42 @6096 has 45 MA's), (51, 6126), (52, 6129), (62, 6171), (69, 6201), (74, 6213), (91, 6285), (94, 6306), (104, 6348), (110, 6375), (111, 6390), (118, 6423),

Gene: LilStuart_8 Start: 6905, Stop: 7243, Start Num: 40

Candidate Starts for LilStuart_8:

(Start: 40 @6905 has 163 MA's), (52, 6938), (114, 7202),

Gene: Lilo27_9 Start: 7302, Stop: 7631, Start Num: 40

Candidate Starts for Lilo27_9:

(4, 7005), (7, 7047), (23, 7206), (Start: 38 @7299 has 1 MA's), (Start: 40 @7302 has 163 MA's), (47, 7317), (105, 7554), (115, 7599),

Gene: LimaBean_9 Start: 7325, Stop: 7654, Start Num: 40

Candidate Starts for LimaBean_9:

(Start: 40 @7325 has 163 MA's), (47, 7340), (105, 7577), (115, 7622),

Gene: Litotes_12 Start: 9790, Stop: 10128, Start Num: 40

Candidate Starts for Litotes_12:

(Start: 40 @9790 has 163 MA's), (52, 9823),

Gene: LittleTokyo_10 Start: 7645, Stop: 7983, Start Num: 39

Candidate Starts for LittleTokyo_10:

(3, 7219), (6, 7372), (27, 7570), (31, 7594), (Start: 39 @7645 has 44 MA's), (55, 7690), (70, 7753), (75, 7771), (80, 7798), (91, 7834), (96, 7858), (105, 7903), (115, 7954), (119, 7969),

Gene: Loviatar_9 Start: 7578, Stop: 7907, Start Num: 40

Candidate Starts for Loviatar_9:

(4, 7281), (Start: 38 @7575 has 1 MA's), (Start: 40 @7578 has 163 MA's), (47, 7593), (100, 7803), (105, 7830), (107, 7839), (113, 7863), (115, 7875),

Gene: Lucy_8 Start: 6896, Stop: 7234, Start Num: 40

Candidate Starts for Lucy_8:

(Start: 40 @6896 has 163 MA's), (52, 6929), (114, 7193),

Gene: Lunar_11 Start: 7903, Stop: 8244, Start Num: 39

Candidate Starts for Lunar_11:

(18, 7771), (27, 7828), (Start: 39 @7903 has 44 MA's), (75, 8029), (80, 8056), (95, 8116), (96, 8119), (100, 8137), (105, 8164), (115, 8215),

Gene: Lynlen_9 Start: 7339, Stop: 7668, Start Num: 40

Candidate Starts for Lynlen_9:

(9, 7099), (23, 7243), (Start: 40 @7339 has 163 MA's), (47, 7354), (105, 7591), (115, 7636), (117, 7642),

Gene: MEAK_8 Start: 6098, Stop: 6445, Start Num: 42

Candidate Starts for MEAK_8:

(29, 6035), (34, 6074), (Start: 42 @6098 has 45 MA's), (51, 6128), (52, 6131), (69, 6203), (74, 6215), (91, 6287), (94, 6308), (104, 6350), (110, 6377), (111, 6392), (118, 6425),

Gene: Makima_12 Start: 8520, Stop: 8837, Start Num: 46

Candidate Starts for Makima_12:

(Start: 46 @8520 has 1 MA's), (105, 8769),

Gene: Makoto_8 Start: 6905, Stop: 7243, Start Num: 40

Candidate Starts for Makoto_8:

(Start: 40 @6905 has 163 MA's), (52, 6938), (114, 7202),

Gene: MamaPearl_8 Start: 6949, Stop: 7287, Start Num: 40

Candidate Starts for MamaPearl_8:

(Start: 40 @6949 has 163 MA's), (52, 6982), (76, 7081), (114, 7246),

Gene: Maria1952_8 Start: 6925, Stop: 7263, Start Num: 40

Candidate Starts for Maria1952_8:

(Start: 40 @6925 has 163 MA's), (61, 6997), (90, 7108), (106, 7183), (108, 7192), (118, 7243),

Gene: MeganNoll_12 Start: 9820, Stop: 10158, Start Num: 40

Candidate Starts for MeganNoll_12:

(12, 9655), (Start: 40 @9820 has 163 MA's), (91, 10006), (108, 10087), (114, 10117),

Gene: Melons_11 Start: 7903, Stop: 8244, Start Num: 39

Candidate Starts for Melons_11:

(18, 7771), (27, 7828), (Start: 39 @7903 has 44 MA's), (75, 8029), (80, 8056), (95, 8116), (96, 8119), (100, 8137), (105, 8164), (115, 8215),

Gene: Milomuff_10 Start: 7711, Stop: 8040, Start Num: 40

Candidate Starts for Milomuff_10:

(Start: 40 @7711 has 163 MA's), (47, 7726), (105, 7963), (115, 8008),

Gene: Mireles_11 Start: 6901, Stop: 7233, Start Num: 40

Candidate Starts for Mireles_11:

(Start: 40 @6901 has 163 MA's), (Start: 46 @6916 has 1 MA's), (105, 7165),

Gene: Misaeng_12 Start: 9868, Stop: 10206, Start Num: 40

Candidate Starts for Misaeng_12:

(Start: 40 @9868 has 163 MA's), (92, 10057), (108, 10135), (114, 10165), (118, 10186),

Gene: Moki_8 Start: 6907, Stop: 7245, Start Num: 40

Candidate Starts for Moki_8:

(Start: 40 @6907 has 163 MA's), (52, 6940), (114, 7204),

Gene: Moyashi_8 Start: 6116, Stop: 6463, Start Num: 42

Candidate Starts for Moyashi_8:

(13, 5960), (15, 5966), (16, 5969), (17, 5972), (20, 6011), (24, 6020), (29, 6053), (Start: 42 @6116 has 45 MA's), (51, 6146), (52, 6149), (62, 6191), (69, 6221), (74, 6233), (91, 6305), (94, 6326), (104, 6368), (110, 6395), (111, 6410), (118, 6443),

Gene: MrAK_8 Start: 6125, Stop: 6472, Start Num: 42

Candidate Starts for MrAK_8:

(29, 6062), (Start: 42 @6125 has 45 MA's), (51, 6155), (52, 6158), (62, 6200), (69, 6230), (74, 6242), (91, 6314), (104, 6377), (110, 6404), (111, 6419), (118, 6452),

Gene: MrBoss_12 Start: 9790, Stop: 10128, Start Num: 40

Candidate Starts for MrBoss_12:

(Start: 40 @9790 has 163 MA's), (52, 9823),

Gene: MrGloopy_12 Start: 9753, Stop: 10091, Start Num: 40

Candidate Starts for MrGloopy_12:

(Start: 40 @9753 has 163 MA's), (108, 10020), (114, 10050),

Gene: MsUbiquitous_9 Start: 7302, Stop: 7631, Start Num: 40

Candidate Starts for MsUbiquitous_9:

(9, 7062), (23, 7206), (Start: 40 @7302 has 163 MA's), (47, 7317), (68, 7401), (105, 7554), (115, 7599), (117, 7605),

Gene: Nancia_8 Start: 6905, Stop: 7243, Start Num: 40

Candidate Starts for Nancia_8:

(Start: 40 @6905 has 163 MA's), (52, 6938), (114, 7202),

Gene: Neuville_11 Start: 7129, Stop: 7464, Start Num: 45

Candidate Starts for Neuville_11:

(Start: 45 @7129 has 3 MA's), (54, 7159), (105, 7381),

Gene: Niblet_10 Start: 7688, Stop: 8029, Start Num: 39

Candidate Starts for Niblet_10:

(18, 7556), (27, 7613), (37, 7685), (Start: 39 @7688 has 44 MA's), (Start: 42 @7691 has 45 MA's), (55, 7733), (70, 7796), (71, 7799), (75, 7814), (100, 7922), (105, 7949), (109, 7964), (110, 7967), (115, 8000),

Gene: Nicky22_10 Start: 7773, Stop: 8102, Start Num: 40

Candidate Starts for Nicky22_10:

(9, 7533), (23, 7677), (Start: 40 @7773 has 163 MA's), (47, 7788), (68, 7872), (99, 7995), (105, 8025), (115, 8070),

Gene: Nubia_12 Start: 9782, Stop: 10120, Start Num: 40

Candidate Starts for Nubia_12:

(Start: 40 @9782 has 163 MA's), (76, 9914), (92, 9971), (106, 10040), (108, 10049), (114, 10079),

Gene: OMalley_8 Start: 6923, Stop: 7261, Start Num: 40

Candidate Starts for OMalley_8:

(Start: 40 @6923 has 163 MA's), (52, 6956), (61, 6995), (81, 7076), (106, 7181), (108, 7190),

Gene: Olliecat_9 Start: 7556, Stop: 7885, Start Num: 40

Candidate Starts for Olliecat_9:

(Start: 40 @7556 has 163 MA's), (47, 7571), (56, 7604), (58, 7610), (63, 7631), (88, 7727), (105, 7808), (113, 7841),

Gene: Oppalora_9 Start: 7312, Stop: 7650, Start Num: 39

Candidate Starts for Oppalora_9:

(5, 7018), (11, 7105), (19, 7189), (32, 7273), (Start: 39 @7312 has 44 MA's), (55, 7357), (60, 7381), (71, 7423), (75, 7438), (86, 7483), (88, 7489), (95, 7522), (105, 7570), (110, 7588),

Gene: Orcanus_10 Start: 7692, Stop: 8033, Start Num: 39

Candidate Starts for Orcanus_10:

(Start: 39 @7692 has 44 MA's), (Start: 42 @7695 has 45 MA's), (55, 7737), (70, 7800), (71, 7803), (75, 7818), (100, 7926), (105, 7953), (115, 8004), (117, 8010),

Gene: OtsoOtso_10 Start: 7742, Stop: 8083, Start Num: 39

Candidate Starts for OtsoOtso_10:

(18, 7610), (27, 7667), (Start: 39 @7742 has 44 MA's), (75, 7868), (80, 7895), (95, 7955), (96, 7958), (100, 7976), (105, 8003), (115, 8054),

Gene: OurGirlNessie_8 Start: 6896, Stop: 7234, Start Num: 40

Candidate Starts for OurGirlNessie_8:

(Start: 40 @6896 has 163 MA's), (52, 6929), (114, 7193),

Gene: Ouroboros_8 Start: 6099, Stop: 6446, Start Num: 42

Candidate Starts for Ouroboros_8:

(29, 6036), (33, 6072), (34, 6075), (Start: 42 @6099 has 45 MA's), (51, 6129), (52, 6132), (69, 6204), (74, 6216), (91, 6288), (94, 6309), (104, 6351), (110, 6378), (111, 6393), (118, 6426),

Gene: Oxynfrius_12 Start: 9795, Stop: 10133, Start Num: 40

Candidate Starts for Oxynfrius_12:

(Start: 40 @9795 has 163 MA's), (76, 9927), (92, 9984), (114, 10092),

Gene: P1.1_8 Start: 6099, Stop: 6446, Start Num: 42

Candidate Starts for P1.1_8:

(13, 5943), (15, 5949), (16, 5952), (17, 5955), (20, 5994), (24, 6003), (29, 6036), (Start: 42 @6099 has 45 MA's), (52, 6132), (69, 6204), (74, 6216), (91, 6288), (94, 6309), (104, 6351), (109, 6375), (110, 6378), (111, 6393), (118, 6426),

Gene: P100.1_8 Start: 6089, Stop: 6436, Start Num: 42

Candidate Starts for P100.1_8:

(29, 6026), (Start: 42 @6089 has 45 MA's), (51, 6119), (52, 6122), (62, 6164), (69, 6194), (74, 6206), (91, 6278), (104, 6341), (110, 6368), (111, 6383), (118, 6416),

Gene: P100A_8 Start: 6111, Stop: 6458, Start Num: 42

Candidate Starts for P100A_8:

(26, 6027), (29, 6048), (33, 6084), (34, 6087), (Start: 42 @6111 has 45 MA's), (51, 6141), (52, 6144), (69, 6216), (74, 6228), (77, 6246), (91, 6300), (92, 6303), (104, 6363), (109, 6387), (110, 6390), (111, 6405), (118, 6438),

Gene: P100D_8 Start: 6093, Stop: 6440, Start Num: 42

Candidate Starts for P100D_8:

(29, 6030), (Start: 42 @6093 has 45 MA's), (51, 6123), (52, 6126), (62, 6168), (69, 6198), (74, 6210), (91, 6282), (104, 6345), (109, 6369), (110, 6372), (111, 6387), (118, 6420),

Gene: P101A_8 Start: 6092, Stop: 6439, Start Num: 42

Candidate Starts for P101A_8:

(13, 5936), (15, 5942), (16, 5945), (17, 5948), (20, 5987), (24, 5996), (29, 6029), (Start: 42 @6092 has 45 MA's), (51, 6122), (52, 6125), (62, 6167), (69, 6197), (74, 6209), (91, 6281), (104, 6344), (109, 6368), (110, 6371), (111, 6386), (118, 6419),

Gene: P104A_8 Start: 6094, Stop: 6441, Start Num: 42

Candidate Starts for P104A_8:

(29, 6031), (Start: 42 @6094 has 45 MA's), (51, 6124), (52, 6127), (62, 6169), (69, 6199), (74, 6211), (91, 6283), (104, 6346), (110, 6373), (111, 6388), (118, 6421),

Gene: P104B_8 Start: 6098, Stop: 6445, Start Num: 42

Candidate Starts for P104B_8:

(29, 6035), (Start: 42 @6098 has 45 MA's), (51, 6128), (52, 6131), (69, 6203), (74, 6215), (91, 6287), (94, 6308), (104, 6350), (109, 6374), (110, 6377), (111, 6392), (118, 6425),

Gene: P105_8 Start: 6088, Stop: 6435, Start Num: 42

Candidate Starts for P105_8:

(29, 6025), (Start: 42 @6088 has 45 MA's), (51, 6118), (52, 6121), (62, 6163), (69, 6193), (74, 6205), (91, 6277), (94, 6298), (103, 6337), (104, 6340), (109, 6364), (110, 6367), (111, 6382), (118, 6415),

Gene: P106A_8 Start: 6116, Stop: 6463, Start Num: 42

Candidate Starts for P106A_8:

(13, 5960), (15, 5966), (16, 5969), (17, 5972), (24, 6020), (29, 6053), (Start: 42 @6116 has 45 MA's), (51, 6146), (52, 6149), (62, 6191), (69, 6221), (74, 6233), (91, 6305), (94, 6326), (104, 6368), (110, 6395), (111, 6410), (118, 6443),

Gene: P106C_8 Start: 6116, Stop: 6463, Start Num: 42

Candidate Starts for P106C_8:

(13, 5960), (15, 5966), (16, 5969), (17, 5972), (24, 6020), (29, 6053), (Start: 42 @6116 has 45 MA's), (51, 6146), (52, 6149), (62, 6191), (69, 6221), (74, 6233), (91, 6305), (94, 6326), (104, 6368), (110, 6395), (111, 6410), (118, 6443),

Gene: P106I_8 Start: 6116, Stop: 6463, Start Num: 42

Candidate Starts for P106I_8:

(13, 5960), (15, 5966), (16, 5969), (17, 5972), (24, 6020), (29, 6053), (Start: 42 @6116 has 45 MA's), (51, 6146), (52, 6149), (62, 6191), (69, 6221), (74, 6233), (91, 6305), (94, 6326), (104, 6368), (110, 6395), (111, 6410), (118, 6443),

Gene: P106L_8 Start: 6116, Stop: 6463, Start Num: 42

Candidate Starts for P106L_8:

(13, 5960), (15, 5966), (16, 5969), (17, 5972), (24, 6020), (29, 6053), (Start: 42 @6116 has 45 MA's), (51, 6146), (52, 6149), (62, 6191), (69, 6221), (74, 6233), (91, 6305), (94, 6326), (104, 6368), (110, 6395), (111, 6410), (118, 6443),

Gene: P106M_8 Start: 6116, Stop: 6463, Start Num: 42

Candidate Starts for P106M_8:

(13, 5960), (15, 5966), (16, 5969), (17, 5972), (24, 6020), (29, 6053), (Start: 42 @6116 has 45 MA's), (51, 6146), (52, 6149), (62, 6191), (69, 6221), (74, 6233), (91, 6305), (94, 6326), (104, 6368), (110, 6395), (111, 6410), (118, 6443),

Gene: P107A_8 Start: 6102, Stop: 6449, Start Num: 42

Candidate Starts for P107A_8:

(29, 6039), (34, 6078), (Start: 42 @6102 has 45 MA's), (51, 6132), (52, 6135), (69, 6207), (74, 6219), (77, 6237), (91, 6291), (92, 6294), (94, 6312), (104, 6354), (109, 6378), (110, 6381), (111, 6396), (118, 6429),

Gene: P107C_8 Start: 6098, Stop: 6445, Start Num: 42

Candidate Starts for P107C_8:

(29, 6035), (Start: 42 @6098 has 45 MA's), (51, 6128), (52, 6131), (62, 6173), (69, 6203), (74, 6215), (91, 6287), (94, 6308), (104, 6350), (109, 6374), (110, 6377), (111, 6392), (118, 6425),

Gene: P108C_8 Start: 6102, Stop: 6449, Start Num: 42

Candidate Starts for P108C_8:

(29, 6039), (Start: 42 @6102 has 45 MA's), (51, 6132), (52, 6135), (62, 6177), (74, 6219), (91, 6291), (94, 6312), (104, 6354), (109, 6378), (110, 6381), (111, 6396), (118, 6429),

Gene: P14.4_8 Start: 6093, Stop: 6440, Start Num: 42

Candidate Starts for P14.4_8:

(29, 6030), (Start: 42 @6093 has 45 MA's), (51, 6123), (52, 6126), (62, 6168), (69, 6198), (74, 6210), (91, 6282), (94, 6303), (104, 6345), (110, 6372), (111, 6387), (118, 6420),

Gene: P9.1_8 Start: 6091, Stop: 6438, Start Num: 42

Candidate Starts for P9.1_8:

(Start: 42 @6091 has 45 MA's), (51, 6121), (52, 6124), (62, 6166), (69, 6196), (74, 6208), (91, 6280), (94, 6301), (104, 6343), (109, 6367), (110, 6370), (111, 6385), (118, 6418),

Gene: PA6_8 Start: 6101, Stop: 6448, Start Num: 42

Candidate Starts for PA6_8:

(29, 6038), (33, 6074), (Start: 42 @6101 has 45 MA's), (51, 6131), (52, 6134), (62, 6176), (69, 6206), (74, 6218), (91, 6290), (94, 6311), (103, 6350), (110, 6380), (111, 6395), (118, 6428),

Gene: PAD20_8 Start: 6099, Stop: 6446, Start Num: 42

Candidate Starts for PAD20_8:

(Start: 42 @6099 has 45 MA's), (51, 6129), (52, 6132), (69, 6204), (74, 6216), (91, 6288), (104, 6351), (109, 6375), (110, 6378), (111, 6393), (118, 6426),

Gene: PAS50_8 Start: 6096, Stop: 6443, Start Num: 42

Candidate Starts for PAS50_8:

(29, 6033), (Start: 42 @6096 has 45 MA's), (51, 6126), (52, 6129), (62, 6171), (69, 6201), (74, 6213), (77, 6231), (91, 6285), (94, 6306), (104, 6348), (109, 6372), (110, 6375), (111, 6390), (118, 6423),

Gene: PFR1_07 Start: 6932, Stop: 7273, Start Num: 40

Candidate Starts for PFR1_07:

(25, 6845), (Start: 40 @6932 has 163 MA's), (48, 6950), (64, 7010), (68, 7028), (72, 7037), (85, 7091), (86, 7094), (89, 7106), (92, 7115), (93, 7118), (94, 7130), (96, 7136), (109, 7196), (112, 7217), (117, 7241),

Gene: PFR2_07 Start: 6932, Stop: 7273, Start Num: 40

Candidate Starts for PFR2_07:

(25, 6845), (Start: 40 @6932 has 163 MA's), (48, 6950), (64, 7010), (68, 7028), (72, 7037), (85, 7091), (86, 7094), (89, 7106), (92, 7115), (93, 7118), (94, 7130), (96, 7136), (109, 7196), (112, 7217), (117, 7241),

Gene: PHL010M04_08 Start: 6091, Stop: 6438, Start Num: 42

Candidate Starts for PHL010M04_08:

(13, 5935), (15, 5941), (17, 5947), (20, 5986), (24, 5995), (29, 6028), (Start: 42 @6091 has 45 MA's), (51, 6121), (52, 6124), (69, 6196), (74, 6208), (77, 6226), (91, 6280), (104, 6343), (109, 6367), (110, 6370), (111, 6385), (118, 6418),

Gene: PHL037M02_08 Start: 6097, Stop: 6444, Start Num: 42

Candidate Starts for PHL037M02_08:

(29, 6034), (Start: 42 @6097 has 45 MA's), (51, 6127), (52, 6130), (59, 6160), (69, 6202), (74, 6214), (91, 6286), (94, 6307), (103, 6346), (104, 6349), (110, 6376), (111, 6391), (118, 6424),

Gene: PHL060L00_08 Start: 6089, Stop: 6436, Start Num: 42

Candidate Starts for PHL060L00_08:

(13, 5933), (15, 5939), (16, 5942), (17, 5945), (20, 5984), (24, 5993), (29, 6026), (Start: 42 @6089 has 45 MA's), (51, 6119), (52, 6122), (62, 6164), (69, 6194), (74, 6206), (91, 6278), (94, 6299), (104, 6341), (109, 6365), (110, 6368), (111, 6383), (118, 6416),

Gene: PHL067M10_08 Start: 6093, Stop: 6440, Start Num: 42

Candidate Starts for PHL067M10_08:

(29, 6030), (Start: 42 @6093 has 45 MA's), (51, 6123), (52, 6126), (62, 6168), (69, 6198), (74, 6210), (91, 6282), (103, 6342), (104, 6345), (110, 6372), (111, 6387), (118, 6420),

Gene: PHL071N05_08 Start: 6095, Stop: 6442, Start Num: 42

Candidate Starts for PHL071N05_08:

(29, 6032), (Start: 42 @6095 has 45 MA's), (51, 6125), (52, 6128), (62, 6170), (74, 6212), (91, 6284), (94, 6305), (104, 6347), (109, 6371), (110, 6374), (111, 6389), (118, 6422),

Gene: PHL111M01_08 Start: 6099, Stop: 6446, Start Num: 42

Candidate Starts for PHL111M01_08:

(29, 6036), (Start: 42 @6099 has 45 MA's), (51, 6129), (52, 6132), (69, 6204), (74, 6216), (91, 6288), (104, 6351), (109, 6375), (110, 6378), (111, 6393), (118, 6426),

Gene: PHL112N00_08 Start: 6099, Stop: 6446, Start Num: 42

Candidate Starts for PHL112N00_08:

(29, 6036), (30, 6039), (Start: 42 @6099 has 45 MA's), (51, 6129), (52, 6132), (69, 6204), (74, 6216), (91, 6288), (94, 6309), (103, 6348), (104, 6351), (110, 6378), (111, 6393), (118, 6426),

Gene: PHL113M01_08 Start: 6099, Stop: 6446, Start Num: 42

Candidate Starts for PHL113M01_08:

(29, 6036), (Start: 42 @6099 has 45 MA's), (51, 6129), (52, 6132), (69, 6204), (74, 6216), (91, 6288), (94, 6309), (104, 6351), (110, 6378), (111, 6393), (118, 6426),

Gene: PHL114L00_08 Start: 6098, Stop: 6445, Start Num: 42

Candidate Starts for PHL114L00_08:

(14, 5945), (16, 5951), (17, 5954), (20, 5993), (21, 5996), (29, 6035), (34, 6074), (Start: 42 @6098 has 45 MA's), (50, 6125), (51, 6128), (52, 6131), (62, 6173), (69, 6203), (74, 6215), (104, 6350), (110, 6377), (111, 6392), (118, 6425),

Gene: PartyCup_12 Start: 9837, Stop: 10175, Start Num: 40

Candidate Starts for PartyCup_12:

(Start: 40 @9837 has 163 MA's), (52, 9870),

Gene: PastaFagioli_9 Start: 7400, Stop: 7729, Start Num: 40

Candidate Starts for PastaFagioli_9:

(Start: 40 @7400 has 163 MA's), (47, 7415), (99, 7622), (105, 7652), (113, 7685), (115, 7697),

Gene: Pecas_9 Start: 7323, Stop: 7652, Start Num: 40

Candidate Starts for Pecas_9:

(9, 7083), (23, 7227), (Start: 40 @7323 has 163 MA's), (47, 7338), (68, 7422), (105, 7575), (115, 7620), (117, 7626),

Gene: Pelletreau_11 Start: 7898, Stop: 8239, Start Num: 39

Candidate Starts for Pelletreau_11:

(Start: 39 @7898 has 44 MA's), (Start: 42 @7901 has 45 MA's), (55, 7943), (70, 8006), (71, 8009), (75, 8024), (100, 8132), (105, 8159), (115, 8210),

Gene: PhigPhack_9 Start: 7354, Stop: 7683, Start Num: 40

Candidate Starts for PhigPhack_9:

(Start: 40 @7354 has 163 MA's), (47, 7369), (105, 7606), (115, 7651),

Gene: PhirstandPhine_11 Start: 7903, Stop: 8244, Start Num: 39

Candidate Starts for PhirstandPhine_11:

(18, 7771), (27, 7828), (Start: 39 @7903 has 44 MA's), (75, 8029), (80, 8056), (95, 8116), (96, 8119), (100, 8137), (105, 8164), (115, 8215),

Gene: Phisb_9 Start: 7316, Stop: 7645, Start Num: 40

Candidate Starts for Phisb_9:

(9, 7076), (23, 7220), (Start: 40 @7316 has 163 MA's), (47, 7331), (105, 7568), (115, 7613), (117, 7619),

Gene: PhluffyCoco_9 Start: 7312, Stop: 7650, Start Num: 39

Candidate Starts for PhluffyCoco_9:

(5, 7018), (11, 7105), (19, 7189), (32, 7273), (Start: 39 @7312 has 44 MA's), (55, 7357), (60, 7381), (71, 7423), (75, 7438), (86, 7483), (88, 7489), (95, 7522), (105, 7570),

Gene: Pineda_11 Start: 7903, Stop: 8244, Start Num: 39

Candidate Starts for Pineda_11:

(18, 7771), (27, 7828), (Start: 39 @7903 has 44 MA's), (75, 8029), (80, 8056), (95, 8116), (96, 8119), (100, 8137), (105, 8164), (115, 8215),

Gene: PinkFriday_8 Start: 6926, Stop: 7264, Start Num: 40

Candidate Starts for PinkFriday_8:

(2, 6494), (7, 6674), (8, 6680), (Start: 40 @6926 has 163 MA's), (61, 6998), (65, 7013), (106, 7184), (118, 7244),

Gene: Pirate_8 Start: 6091, Stop: 6438, Start Num: 42

Candidate Starts for Pirate_8:

(29, 6028), (Start: 42 @6091 has 45 MA's), (51, 6121), (52, 6124), (62, 6166), (74, 6208), (91, 6280), (94, 6301), (104, 6343), (109, 6367), (110, 6370), (111, 6385), (118, 6418),

Gene: PitaDog_8 Start: 6896, Stop: 7234, Start Num: 40

Candidate Starts for PitaDog_8:

(Start: 40 @6896 has 163 MA's), (52, 6929), (114, 7193),

Gene: Polka_10 Start: 7742, Stop: 8083, Start Num: 39

Candidate Starts for Polka_10:

(18, 7610), (27, 7667), (Start: 39 @7742 has 44 MA's), (75, 7868), (80, 7895), (95, 7955), (96, 7958), (100, 7976), (105, 8003), (115, 8054),

Gene: PondAmelia_12 Start: 7567, Stop: 7896, Start Num: 40

Candidate Starts for PondAmelia_12:

(4, 7270), (Start: 38 @7564 has 1 MA's), (Start: 40 @7567 has 163 MA's), (47, 7582), (105, 7819), (115, 7864),

Gene: Potatoes_12 Start: 9814, Stop: 10152, Start Num: 40

Candidate Starts for Potatoes_12:

(Start: 40 @9814 has 163 MA's), (91, 10000), (108, 10081), (114, 10111),

Gene: Preamble_8 Start: 6906, Stop: 7244, Start Num: 40

Candidate Starts for Preamble_8:

(2, 6477), (7, 6657), (8, 6663), (Start: 40 @6906 has 163 MA's), (114, 7203),

Gene: Procrass1_8 Start: 6098, Stop: 6445, Start Num: 42

Candidate Starts for Procrass1_8:

(29, 6035), (Start: 42 @6098 has 45 MA's), (51, 6128), (52, 6131), (69, 6203), (74, 6215), (91, 6287), (94, 6308), (104, 6350), (109, 6374), (110, 6377), (111, 6392), (118, 6425),

Gene: Pterodactyl_8 Start: 6897, Stop: 7235, Start Num: 40

Candidate Starts for Pterodactyl_8:

(Start: 40 @6897 has 163 MA's), (52, 6930), (114, 7194),

Gene: Pumancara_8 Start: 6925, Stop: 7263, Start Num: 40

Candidate Starts for Pumancara_8:

(2, 6493), (7, 6673), (8, 6679), (Start: 40 @6925 has 163 MA's), (61, 6997), (106, 7183), (118, 7243),

Gene: QMacho_10 Start: 7806, Stop: 8135, Start Num: 40

Candidate Starts for QMacho_10:

(9, 7566), (23, 7710), (Start: 40 @7806 has 163 MA's), (47, 7821), (68, 7905), (105, 8058), (115, 8103), (117, 8109),

Gene: QueenBey_8 Start: 6092, Stop: 6439, Start Num: 42

Candidate Starts for QueenBey_8:

(16, 5945), (17, 5948), (20, 5987), (21, 5990), (24, 5996), (26, 6008), (29, 6029), (34, 6068), (Start: 42 @6092 has 45 MA's), (51, 6122), (52, 6125), (59, 6155), (69, 6197), (74, 6209), (77, 6227), (91, 6281), (104, 6344), (109, 6368), (110, 6371), (111, 6386), (118, 6419),

Gene: Quenya_10 Start: 7452, Stop: 7781, Start Num: 40

Candidate Starts for Quenya_10:

(1, 7023), (4, 7155), (Start: 40 @7452 has 163 MA's), (47, 7467), (57, 7503), (81, 7602), (99, 7674), (110, 7722), (113, 7737),

Gene: RAP15_12 Start: 9820, Stop: 10158, Start Num: 40

Candidate Starts for RAP15_12:

(12, 9655), (Start: 40 @9820 has 163 MA's), (91, 10006), (108, 10087), (114, 10117),

Gene: Rattail_9 Start: 7363, Stop: 7701, Start Num: 39

Candidate Starts for Rattail_9:

(Start: 39 @7363 has 44 MA's), (55, 7408), (60, 7432), (71, 7474), (75, 7489), (86, 7534), (88, 7540), (95, 7573), (105, 7621), (110, 7639),

Gene: RcigaStruga_12 Start: 9803, Stop: 10141, Start Num: 40

Candidate Starts for RcigaStruga_12:

(Start: 40 @9803 has 163 MA's), (49, 9827), (92, 9992), (108, 10070), (114, 10100), (118, 10121),

Gene: RedFox_9 Start: 7312, Stop: 7650, Start Num: 39

Candidate Starts for RedFox_9:

(5, 7018), (11, 7105), (19, 7189), (32, 7273), (Start: 39 @7312 has 44 MA's), (55, 7357), (60, 7381), (71, 7423), (75, 7438), (86, 7483), (88, 7489), (95, 7522), (105, 7570), (110, 7588),

Gene: Renna12_10 Start: 7512, Stop: 7850, Start Num: 39

Candidate Starts for Renna12_10:

(19, 7389), (21, 7413), (Start: 39 @7512 has 44 MA's), (60, 7581), (71, 7623), (75, 7638), (86, 7683), (95, 7722), (96, 7725), (98, 7734), (103, 7758), (105, 7770), (110, 7788),

Gene: Rileysaurus_8 Start: 6087, Stop: 6434, Start Num: 42

Candidate Starts for Rileysaurus_8:

(13, 5931), (17, 5943), (20, 5982), (21, 5985), (24, 5991), (29, 6024), (34, 6063), (Start: 42 @6087 has 45 MA's), (51, 6117), (52, 6120), (69, 6192), (74, 6204), (91, 6276), (104, 6339), (109, 6363), (110, 6366), (111, 6381), (118, 6414),

Gene: Riovina_8 Start: 6923, Stop: 7261, Start Num: 40

Candidate Starts for Riovina_8:

(Start: 40 @6923 has 163 MA's), (52, 6956), (61, 6995), (81, 7076), (106, 7181), (108, 7190),

Gene: Riverdale_12 Start: 9751, Stop: 10089, Start Num: 40

Candidate Starts for Riverdale_12:

(Start: 40 @9751 has 163 MA's), (91, 9937), (108, 10018), (114, 10048),

Gene: Roberts_11 Start: 7129, Stop: 7464, Start Num: 45

Candidate Starts for Roberts_11:

(Start: 45 @7129 has 3 MA's), (54, 7159), (105, 7381),

Gene: Rollins_8 Start: 7153, Stop: 7485, Start Num: 40

Candidate Starts for Rollins_8:

(4, 6856), (Start: 40 @7153 has 163 MA's), (Start: 46 @7165 has 1 MA's), (47, 7168), (56, 7204), (61, 7225), (62, 7228), (88, 7327), (105, 7408),

Gene: Rona_9 Start: 7553, Stop: 7882, Start Num: 40

Candidate Starts for Rona_9:

(4, 7256), (23, 7457), (Start: 38 @7550 has 1 MA's), (Start: 40 @7553 has 163 MA's), (47, 7568), (62, 7625), (80, 7700), (99, 7775), (105, 7805), (115, 7850),

Gene: Rozby_12 Start: 9751, Stop: 10089, Start Num: 40

Candidate Starts for Rozby_12:

(Start: 40 @9751 has 163 MA's), (91, 9937), (108, 10018), (114, 10048),

Gene: Ruchi_10 Start: 7974, Stop: 8336, Start Num: 39

Candidate Starts for Ruchi_10:

(18, 7842), (Start: 39 @7974 has 44 MA's), (49, 8001), (67, 8070), (69, 8079), (82, 8136), (86, 8166), (91, 8184), (94, 8202), (97, 8211), (109, 8271),

Gene: SKKY_8 Start: 6123, Stop: 6470, Start Num: 42

Candidate Starts for SKKY_8:

(13, 5967), (15, 5973), (16, 5976), (17, 5979), (20, 6018), (24, 6027), (29, 6060), (Start: 42 @6123 has 45 MA's), (51, 6153), (52, 6156), (62, 6198), (69, 6228), (74, 6240), (91, 6312), (94, 6333), (104, 6375), (110, 6402), (111, 6417), (118, 6450),

Gene: SanaSana_10 Start: 7567, Stop: 7896, Start Num: 40

Candidate Starts for SanaSana_10:

(4, 7270), (Start: 38 @7564 has 1 MA's), (Start: 40 @7567 has 163 MA's), (47, 7582), (99, 7789), (105, 7819), (115, 7864),

Gene: SansAfet_9 Start: 7336, Stop: 7665, Start Num: 40

Candidate Starts for SansAfet_9:

(Start: 40 @7336 has 163 MA's), (47, 7351), (105, 7588), (115, 7633),

Gene: SarBear_9 Start: 7299, Stop: 7628, Start Num: 40

Candidate Starts for SarBear_9:

(9, 7059), (23, 7203), (Start: 40 @7299 has 163 MA's), (47, 7314), (68, 7398), (69, 7401), (99, 7521), (105, 7551), (107, 7560), (115, 7596),

Gene: Savage2526_12 Start: 9814, Stop: 10152, Start Num: 40

Candidate Starts for Savage2526_12:

(12, 9649), (Start: 40 @9814 has 163 MA's), (91, 10000), (108, 10081), (114, 10111),

Gene: Scuttle_12 Start: 9820, Stop: 10158, Start Num: 40

Candidate Starts for Scuttle_12:

(12, 9655), (Start: 40 @9820 has 163 MA's), (91, 10006), (108, 10087), (114, 10117),

Gene: Sergei_8 Start: 6925, Stop: 7263, Start Num: 40

Candidate Starts for Sergei_8:

(Start: 40 @6925 has 163 MA's), (61, 6997), (90, 7108), (106, 7183), (108, 7192), (118, 7243),

Gene: Sharkboy_9 Start: 7552, Stop: 7881, Start Num: 40

Candidate Starts for Sharkboy_9:

(4, 7255), (23, 7456), (Start: 38 @7549 has 1 MA's), (Start: 40 @7552 has 163 MA's), (47, 7567), (62, 7624), (80, 7699), (99, 7774), (105, 7804), (115, 7849),

Gene: Shayna_8 Start: 7158, Stop: 7490, Start Num: 40

Candidate Starts for Shayna_8:

(23, 7062), (Start: 40 @7158 has 163 MA's), (47, 7176), (61, 7230), (63, 7236), (73, 7272), (103, 7401), (115, 7458),

Gene: Shen_11 Start: 7899, Stop: 8240, Start Num: 39

Candidate Starts for Shen_11:

(Start: 39 @7899 has 44 MA's), (Start: 42 @7902 has 45 MA's), (55, 7944), (70, 8007), (71, 8010), (75, 8025), (100, 8133), (105, 8160), (115, 8211),

Gene: SirBeanington_9 Start: 7325, Stop: 7654, Start Num: 40

Candidate Starts for SirBeanington_9:

(9, 7085), (23, 7229), (Start: 40 @7325 has 163 MA's), (47, 7340), (105, 7577), (115, 7622), (117, 7628),

Gene: Skylord_8 Start: 7093, Stop: 7425, Start Num: 40

Candidate Starts for Skylord_8:

(4, 6796), (Start: 40 @7093 has 163 MA's), (Start: 46 @7105 has 1 MA's), (47, 7108), (56, 7144), (61, 7165), (62, 7168), (88, 7267), (105, 7348),

Gene: Slay_9 Start: 7775, Stop: 8104, Start Num: 40

Candidate Starts for Slay_9:

(9, 7535), (23, 7679), (Start: 40 @7775 has 163 MA's), (47, 7790), (68, 7874), (69, 7877), (99, 7997), (105, 8027), (107, 8036), (115, 8072),

Gene: Softsoap_9 Start: 7325, Stop: 7654, Start Num: 40

Candidate Starts for Softsoap_9:

(Start: 40 @7325 has 163 MA's), (47, 7340), (105, 7577), (115, 7622),

Gene: Solea_10 Start: 7711, Stop: 8040, Start Num: 40

Candidate Starts for Solea_10:

(Start: 40 @7711 has 163 MA's), (47, 7726), (105, 7963), (115, 8008),

Gene: Solid_8 Start: 6099, Stop: 6446, Start Num: 42

Candidate Starts for Solid_8:

(29, 6036), (Start: 42 @6099 has 45 MA's), (51, 6129), (52, 6132), (62, 6174), (69, 6204), (74, 6216), (91, 6288), (94, 6309), (104, 6351), (109, 6375), (110, 6378), (111, 6393), (118, 6426),

Gene: Spartoi_8 Start: 6006, Stop: 6344, Start Num: 44

Candidate Starts for Spartoi_8:

(Start: 44 @6006 has 1 MA's), (47, 6015), (53, 6036), (74, 6117), (88, 6174),

Gene: Squircle_9 Start: 7555, Stop: 7884, Start Num: 40

Candidate Starts for Squircle_9:

(Start: 40 @7555 has 163 MA's), (47, 7570), (56, 7603), (58, 7609), (63, 7630), (88, 7726), (105, 7807), (113, 7840),

Gene: Stoor_9 Start: 7564, Stop: 7893, Start Num: 40

Candidate Starts for Stoor_9:

(4, 7267), (Start: 38 @7561 has 1 MA's), (Start: 40 @7564 has 163 MA's), (47, 7579), (99, 7786), (105, 7816), (115, 7861),

Gene: Stormborn_8 Start: 6095, Stop: 6442, Start Num: 42

Candidate Starts for Stormborn_8:

(29, 6032), (Start: 42 @6095 has 45 MA's), (51, 6125), (52, 6128), (69, 6200), (74, 6212), (91, 6284), (94, 6305), (104, 6347), (109, 6371), (110, 6374), (111, 6389), (118, 6422),

Gene: Stromboli_9 Start: 7565, Stop: 7894, Start Num: 40

Candidate Starts for Stromboli_9:

(Start: 38 @7562 has 1 MA's), (Start: 40 @7565 has 163 MA's), (47, 7580), (99, 7787), (100, 7790), (105, 7817), (115, 7862),

Gene: StuartMinion_9 Start: 7338, Stop: 7676, Start Num: 39

Candidate Starts for StuartMinion_9:

(19, 7215), (27, 7263), (Start: 39 @7338 has 44 MA's), (60, 7407), (70, 7446), (71, 7449), (75, 7464), (95, 7548), (105, 7596), (119, 7662),

Gene: Studio_11 Start: 6885, Stop: 7220, Start Num: 45

Candidate Starts for Studio_11:

(Start: 40 @6873 has 163 MA's), (Start: 45 @6885 has 3 MA's), (54, 6915),

Gene: SunnyD_8 Start: 7158, Stop: 7490, Start Num: 40

Candidate Starts for SunnyD_8:

(23, 7062), (Start: 40 @7158 has 163 MA's), (47, 7176), (61, 7230), (63, 7236), (73, 7272), (103, 7401), (115, 7458),

Gene: Supakev_8 Start: 6925, Stop: 7263, Start Num: 40

Candidate Starts for Supakev_8:

(2, 6493), (7, 6673), (8, 6679), (Start: 40 @6925 has 163 MA's), (61, 6997), (106, 7183), (118, 7243),

Gene: Supernova_8 Start: 6091, Stop: 6438, Start Num: 42

Candidate Starts for Supernova_8:

(29, 6028), (Start: 42 @6091 has 45 MA's), (51, 6121), (52, 6124), (62, 6166), (69, 6196), (74, 6208), (91, 6280), (94, 6301), (104, 6343), (109, 6367), (110, 6370), (111, 6385), (118, 6418),

Gene: Suppi_12 Start: 9837, Stop: 10175, Start Num: 40

Candidate Starts for Suppi_12:
(Start: 40 @9837 has 163 MA's), (52, 9870),

Gene: Swervy_9 Start: 7299, Stop: 7628, Start Num: 40
Candidate Starts for Swervy_9:
(9, 7059), (23, 7203), (Start: 40 @7299 has 163 MA's), (47, 7314), (68, 7398), (69, 7401), (99, 7521),
(105, 7551), (107, 7560), (115, 7596),

Gene: TMaxx_11 Start: 7008, Stop: 7340, Start Num: 46
Candidate Starts for TMaxx_11:
(Start: 46 @7008 has 1 MA's), (104, 7248),

Gene: TattModd_12 Start: 9814, Stop: 10152, Start Num: 40
Candidate Starts for TattModd_12:
(Start: 40 @9814 has 163 MA's), (91, 10000), (108, 10081), (114, 10111),

Gene: TaylorSipht_10 Start: 7777, Stop: 8118, Start Num: 39
Candidate Starts for TaylorSipht_10:
(7, 7525), (10, 7570), (23, 7684), (Start: 39 @7777 has 44 MA's), (Start: 42 @7780 has 45 MA's), (75, 7903), (80, 7930), (84, 7945), (100, 8011), (105, 8038), (109, 8053), (115, 8089),

Gene: Teagster_8 Start: 7158, Stop: 7490, Start Num: 40
Candidate Starts for Teagster_8:
(Start: 40 @7158 has 163 MA's), (47, 7176), (61, 7230), (63, 7236), (73, 7272), (103, 7401), (115, 7458),

Gene: Temper16_8 Start: 6925, Stop: 7263, Start Num: 40
Candidate Starts for Temper16_8:
(Start: 40 @6925 has 163 MA's), (61, 6997), (90, 7108), (106, 7183), (108, 7192), (118, 7243),

Gene: Toad24_11 Start: 7899, Stop: 8240, Start Num: 39
Candidate Starts for Toad24_11:
(Start: 39 @7899 has 44 MA's), (Start: 42 @7902 has 45 MA's), (55, 7944), (70, 8007), (71, 8010), (75, 8025), (100, 8133), (105, 8160), (115, 8211),

Gene: TripleC_14 Start: 10502, Stop: 10834, Start Num: 46
Candidate Starts for TripleC_14:
(Start: 46 @10502 has 1 MA's), (116, 10805),

Gene: TukTuk_9 Start: 7299, Stop: 7628, Start Num: 40
Candidate Starts for TukTuk_9:
(23, 7203), (Start: 40 @7299 has 163 MA's), (47, 7314), (68, 7398), (105, 7551), (115, 7596), (117, 7602),

Gene: Urla_8 Start: 6952, Stop: 7290, Start Num: 40
Candidate Starts for Urla_8:
(Start: 40 @6952 has 163 MA's), (56, 7003), (70, 7060), (114, 7249),

Gene: Vallejo_12 Start: 9752, Stop: 10090, Start Num: 40
Candidate Starts for Vallejo_12:
(Start: 40 @9752 has 163 MA's), (91, 9938), (114, 10049),

Gene: Vitas_8 Start: 7093, Stop: 7425, Start Num: 40

Candidate Starts for Vitas_8:

(4, 6796), (Start: 40 @7093 has 163 MA's), (Start: 46 @7105 has 1 MA's), (47, 7108), (56, 7144), (61, 7165), (62, 7168), (88, 7267), (105, 7348),

Gene: Vulpecula_10 Start: 8050, Stop: 8412, Start Num: 39

Candidate Starts for Vulpecula_10:

(18, 7918), (Start: 39 @8050 has 44 MA's), (Start: 42 @8053 has 45 MA's), (49, 8077), (67, 8146), (69, 8155), (80, 8203), (86, 8242), (94, 8278), (97, 8287), (109, 8347),

Gene: Vulture_8 Start: 6923, Stop: 7261, Start Num: 40

Candidate Starts for Vulture_8:

(Start: 40 @6923 has 163 MA's), (52, 6956), (61, 6995), (81, 7076), (106, 7181), (108, 7190),

Gene: WalkingDead_9 Start: 7553, Stop: 7882, Start Num: 40

Candidate Starts for WalkingDead_9:

(4, 7256), (Start: 38 @7550 has 1 MA's), (Start: 40 @7553 has 163 MA's), (47, 7568), (100, 7778), (105, 7805), (107, 7814), (115, 7850),

Gene: Wawa_12 Start: 9789, Stop: 10127, Start Num: 40

Candidate Starts for Wawa_12:

(Start: 40 @9789 has 163 MA's), (76, 9921), (91, 9975), (108, 10056), (114, 10086),

Gene: Wayne_12 Start: 9883, Stop: 10221, Start Num: 40

Candidate Starts for Wayne_12:

(Start: 40 @9883 has 163 MA's), (52, 9916),

Gene: Westrich_11 Start: 7887, Stop: 8228, Start Num: 39

Candidate Starts for Westrich_11:

(Start: 39 @7887 has 44 MA's), (Start: 42 @7890 has 45 MA's), (55, 7932), (70, 7995), (71, 7998), (75, 8013), (100, 8121), (105, 8148), (115, 8199),

Gene: WileyE_9 Start: 7385, Stop: 7747, Start Num: 39

Candidate Starts for WileyE_9:

(18, 7253), (Start: 39 @7385 has 44 MA's), (49, 7412), (67, 7481), (69, 7490), (82, 7547), (86, 7577), (91, 7595), (94, 7613), (97, 7622), (109, 7682),

Gene: Wizzo_8 Start: 6103, Stop: 6450, Start Num: 42

Candidate Starts for Wizzo_8:

(29, 6040), (Start: 42 @6103 has 45 MA's), (51, 6133), (52, 6136), (62, 6178), (69, 6208), (74, 6220), (91, 6292), (94, 6313), (104, 6355), (109, 6379), (110, 6382), (111, 6397), (118, 6430),

Gene: WonderBoy_8 Start: 6905, Stop: 7243, Start Num: 40

Candidate Starts for WonderBoy_8:

(Start: 40 @6905 has 163 MA's), (52, 6938), (70, 7013), (114, 7202),

Gene: Zhuangyuan_11 Start: 8069, Stop: 8407, Start Num: 39

Candidate Starts for Zhuangyuan_11:

(32, 8030), (Start: 39 @8069 has 44 MA's), (55, 8114), (70, 8177), (75, 8195), (105, 8327), (115, 8378),

Gene: Zixiang_10 Start: 7688, Stop: 8029, Start Num: 39

Candidate Starts for Zixiang_10:

(18, 7556), (27, 7613), (37, 7685), (Start: 39 @7688 has 44 MA's), (Start: 42 @7691 has 45 MA's), (55, 7733), (70, 7796), (71, 7799), (75, 7814), (100, 7922), (105, 7949), (109, 7964), (110, 7967), (115,

8000),

Gene: Zorro_12 Start: 9768, Stop: 10106, Start Num: 40

Candidate Starts for Zorro_12:

(Start: 40 @9768 has 163 MA's), (76, 9900), (91, 9954), (108, 10035), (114, 10065),