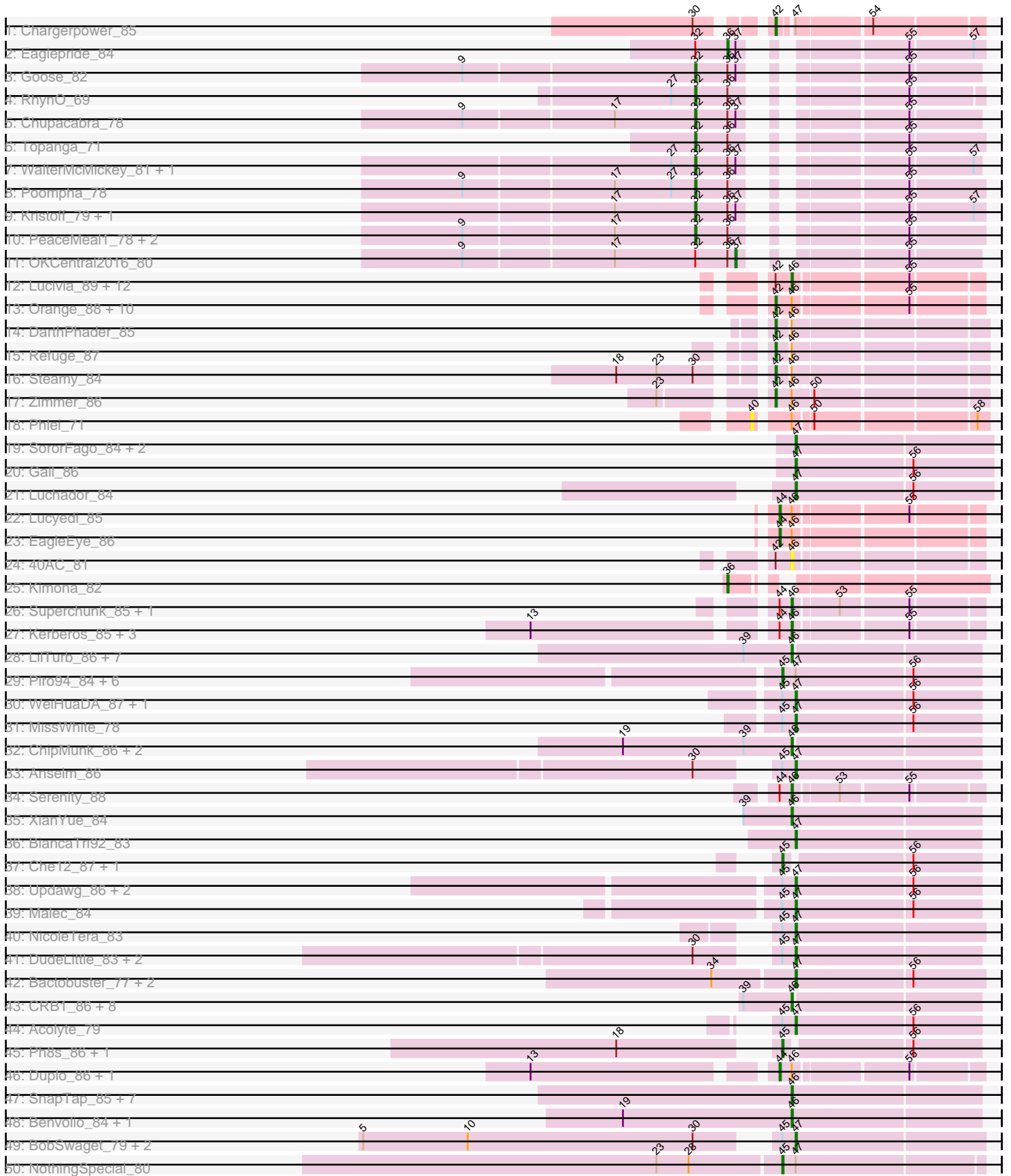
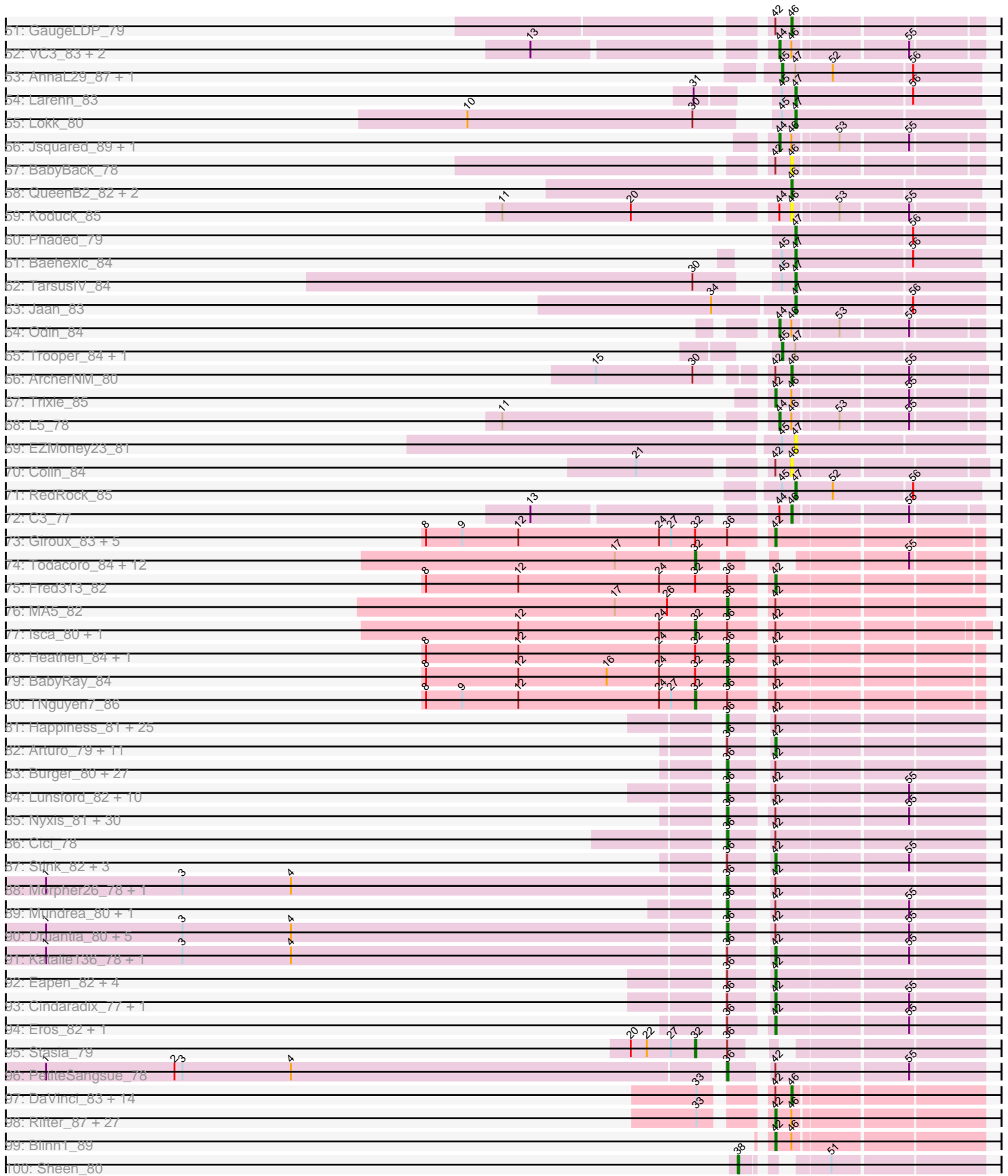


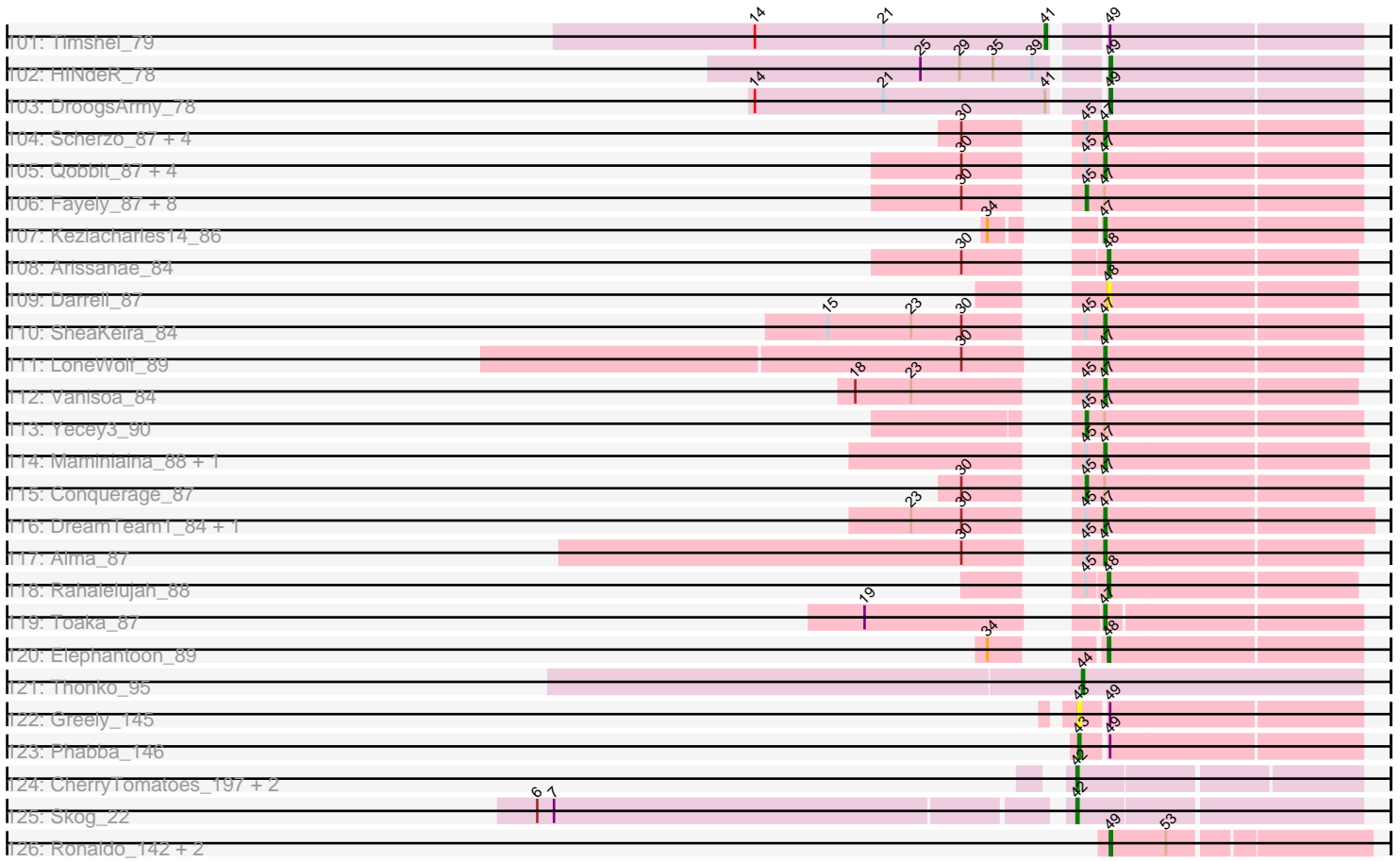
Pham 163263



Pham 163263



Pham 163263



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 163263 Report

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

Pham number 163263 has 410 members, 34 are drafts.

Phages represented in each track:

- Track 1 : Chargerpower_85
- Track 2 : Eaglepride_84
- Track 3 : Goose_82
- Track 4 : RhynO_69
- Track 5 : Chupacabra_78
- Track 6 : Topanga_71
- Track 7 : WalterMcMickey_81, Twister_82
- Track 8 : Poompha_78
- Track 9 : Kristoff_79, Rebeuca_82
- Track 10 : PeaceMeal1_78, Severus_79, Drake94_78
- Track 11 : OKCentral2016_80
- Track 12 : Lucivia_89, Joselito_86, Timothy_88, Aneem_89, Et2Brutus_88, Bowtie_84, Salz_84, Munch_87, Bachome_86, Insomnia_87, Ebony_87, Petersenfast_82, TinyTimmy_86
- Track 13 : Orange_88, Gilberta_86, MaCh_88, Fibonacci_88, Mabel_88, Sham4_85, Hutc2_85, Jabith_88, Mulciber_87, Flaverint_89, Snape_88
- Track 14 : DarthPhader_85
- Track 15 : Refuge_87
- Track 16 : Steamy_84
- Track 17 : Zimmer_86
- Track 18 : Phlei_71
- Track 19 : SororFago_84, Jeeves_86, Iwokeuplikedis_89
- Track 20 : Gail_86
- Track 21 : Luchador_84
- Track 22 : Lucyedi_85
- Track 23 : EagleEye_86
- Track 24 : 40AC_81
- Track 25 : Kimona_82
- Track 26 : Superchunk_85, Caraxes_86
- Track 27 : Kerberos_85, DBQu4n_85, Tomathan_85, Pomar16_85
- Track 28 : LilTurb_86, AbbyPaige_87, Turbido_86, Jerm_87, Agape74_87, Dignity_87, Leviathan_87, Smeagan_88
- Track 29 : Piro94_84, WideWale_86, HarryHoudini_85, MiculUcigas_85, NaSiaTalie_86, Flare16_85, Equemioh13_85
- Track 30 : WeiHuaDA_87, Kalpine_87
- Track 31 : MissWhite_78
- Track 32 : ChipMunk_86, KingCyrus_84, EvilGenius_85

- Track 33 : Anselm_86
- Track 34 : Serenity_88
- Track 35 : XianYue_84
- Track 36 : BiancaTri92_83
- Track 37 : Che12_87, SwirlSquare_88
- Track 38 : Updawg_86, Drake55_86, Centaur_85
- Track 39 : Malec_84
- Track 40 : NicoleTera_83
- Track 41 : DudeLittle_83, Retro23_85, Dalmatian_85
- Track 42 : Bactobuster_77, Lander_83, IronMan_82
- Track 43 : CRB1_86, VA6_85, AN3_85, JoshKayV_87, BengiVuitton_87, First_0086, Deloris_87, LadyBird_89, 20ES_87
- Track 44 : Acolyte_79
- Track 45 : Ph8s_86, Adzzy_86
- Track 46 : Duplo_86, StarStuff_85
- Track 47 : SnapTap_85, Crucio_85, FiringLine_85, QueenBeesly_85, Georgie2_87, SweetiePie_85, SemperFi_85, Power_85
- Track 48 : Benvolio_84, Echild_88
- Track 49 : BobSwaget_79, Rachaly_82, Miko_80
- Track 50 : NothingSpecial_80
- Track 51 : GaugeLDP_79
- Track 52 : VC3_83, ANI8_84, AN9_84
- Track 53 : AnnaL29_87, Loser_88
- Track 54 : Larenn_83
- Track 55 : Lokk_80
- Track 56 : Jsquared_89, TipsytheTRex_84
- Track 57 : BabyBack_78
- Track 58 : QueenB2_82, Heffalump_82, Fameo_83
- Track 59 : Koduck_85
- Track 60 : Phaded_79
- Track 61 : Baehexic_84
- Track 62 : TarsusIV_84
- Track 63 : Jaan_83
- Track 64 : Odin_84
- Track 65 : Trooper_84, Pukovnik_80
- Track 66 : ArcherNM_80
- Track 67 : Trixie_85
- Track 68 : L5_78
- Track 69 : EZMoney23_81
- Track 70 : Colin_84
- Track 71 : RedRock_85
- Track 72 : C3_77
- Track 73 : Giroux_83, BlueBird_87, Bugatti_86, Puppy_86, Pistachio_85, SaturnRing_86
- Track 74 : Todacoro_84, Noella_85, Veracruz_81, Norbert_80, QuinnKiro_83, Hookmount_84, Caviar_73, Popcicle_84, ResDef_82, Texage_82, Pocahontas_83, Margo_84, Lambert1_84
- Track 75 : Fred313_82
- Track 76 : MA5_82
- Track 77 : Isca_80, Phantastic_85
- Track 78 : Heathen_84, Scout_84
- Track 79 : BabyRay_84
- Track 80 : TNguyen7_86

- Track 81 : Happiness_81, Eurydice_83, Romney_81, LochMonster_83, Wilbur_82, Phelipe_82, CentreCat_82, Nebs_83, Cerulean_84, Scamp_82, DirtyDunning_81, ChampagnePapi_85, Kyee_82, Spino_81, PeterPeter_82, Ruin_82, Sabertooth_82, Ohfah_83, Maxo_84, Cintron_82, Kamy_81, ICleared_81, BangNhom_79, TroyPia_83, Dhanush_82, LittleB_82
- Track 82 : Arturo_79, MeeZee_81, NotAPhaseMom_81, Eagle_81, Cocoaberry_82, TygerBlood_82, Avle17_82, Kremtemulon_76, Gadost_82, Nemo27_81, Kingmustik0402_82, Houdini22_81
- Track 83 : Burger_80, Koreni_81, Chaph_82, Mazhar510_82, JoongJeon_81, Melvin_84, Bombshell_82, OKaNui_81, Millski_81, Alberto7_83, Thanksgivukkah_81, Caelakin_80, Phighter1804_82, Eris_81, Lorenzo_82, Bruiser_81, Medusa_81, Flux_83, Palestino_81, Maverick_81, Ulysses_81, Pipcraft_78, KFPoly_81, Phacado_82, Wander_82, Funston_81, Clarenza_81, Iracema64_82
- Track 84 : Lunsford_82, Shygu2_80, Achebe_77, Jaykayelowell_79, Xena_78, Sparxx_83, Shaka_80, JetBlade_83, Citius_82, Abdiel_81, Lemur_82
- Track 85 : Nyxis_81, Annyong_81, Pumbaa_82, Miramae_82, Taquarus_81, Connomayer_82, BubbleTrouble_81, Albee_82, LittleGuy_82, Polymorphads_83, Florean_82, Camperdownii_78, LappelDuVide_78, Baby16_82, YoSam321_82, Iceman_80, Tinybot_81, Phontbonne_82, Roosevelt_80, TiroTheta9_81, LHTSCC_84, BellusTerra_82, Peaches_80, Broseidon_82, Holli_81, Kratark_81, TinaFeyge_80, HamSlice_78, Morrow_84, Blackmoor_81, Bartimeaus_82
- Track 86 : Cici_78
- Track 87 : Stink_82, Obama12_83, AvatarAhPeg_82, Deano_79
- Track 88 : Morpher26_78, Wile_77
- Track 89 : Mundrea_80, Noelle_79
- Track 90 : Druantia_80, AbbysRanger_78, Perplexer_78, Backyardigan_76, Wizard007_78, Bumblebee11_77
- Track 91 : Katalie136_78, Badger_77
- Track 92 : Eapen_82, SheldonCooper_82, Relief_81, NorthStar_79, Skipitt_81
- Track 93 : Cindaradix_77, Datway_79
- Track 94 : Eros_82, Commander_80
- Track 95 : Stasia_79
- Track 96 : PetiteSangsue_78
- Track 97 : DaVinci_83, McFly_85, Yokurt_86, Artemis2UCLA_86, Priamo_86, Pmask_84, Lilbunny_84, Zaka_87, Candra_83, SuperCallie99_81, ToneTone_84, Isiphiwo_81, Garak_88, Tucker_87, Dorothea_82
- Track 98 : Rifter_87, Neeharika16_84, Kipper29_85, Gruunaga_86, Hoot_80, Koko_88, WunderPhul_87, Cookiedough_85, Helmet_88, CloudWang3_87, Hammer_87, Hexamo_86, Kazan_86, Zulu_88, EricB_83, SuperAwesome_85, Jordennis_83, Blue7_88, Newrala_84, Chartreuse_83, Roksolana_87, Indra_90, VohminGhazi_85, Wiks_86, SmellyB_85, BABullseye_78, Gladiator_83, JewelBug_77
- Track 99 : Blinn1_89
- Track 100 : Sheen_80
- Track 101 : Timshel_79
- Track 102 : HINdeR_78
- Track 103 : DroogsArmy_78
- Track 104 : Scherzo_87, Pioneer_89, Ugenie5_76, Beemo_89, Phonnegut_89
- Track 105 : Qobbit_87, Phaeder_89, ExplosioNervosa_87, Priya_87, EmyBug_83
- Track 106 : Fayely_87, Tubs_89, Spouty_84, Aliter_82, Eidsmoe_87, HortumSL17_90, Myxus_89, Catalina_91, PackMan_84
- Track 107 : Keziacharles14_86
- Track 108 : Arissanae_84

- Track 109 : Darrell_87
- Track 110 : SheaKeira_84
- Track 111 : LoneWolf_89
- Track 112 : Vanisoa_84
- Track 113 : Yecey3_90
- Track 114 : Maminiaina_88, BogosyJay_88
- Track 115 : Conquerage_87
- Track 116 : DreamTeam1_84, Charm_84
- Track 117 : Alma_87
- Track 118 : Rahalelujah_88
- Track 119 : Toaka_87
- Track 120 : Elephantoon_89
- Track 121 : Thonko_95
- Track 122 : Greely_145
- Track 123 : Phabba_146
- Track 124 : CherryTomatoes_197, SCentae_189, Pupper_190
- Track 125 : Skog_22
- Track 126 : Ronaldo_142, Ziko_144, Volt_145

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

The start number called the most often in the published annotations is 36, it was called in 113 of the 376 non-draft genes in the pham.

Genes that call this "Most Annotated" start:

- AbbysRanger_78, Abdiel_81, Achebe_77, Albee_82, Alberto7_83, Annyong_81, Baby16_82, BabyRay_84, Backyardigan_76, BangNhom_79, Bartimeaus_82, BellusTerra_82, Blackmoor_81, Bombshell_82, Broseidon_82, Bruiser_81, BubbleTrouble_81, Bumblebee11_77, Burger_80, Caelakin_80, Camperdownii_78, CentreCat_82, Cerulean_84, ChampagnePapi_85, Chaph_82, Cici_78, Cintron_82, Citius_82, Clarenza_81, Connomayer_82, Dhanush_82, DirtyDunning_81, Druantia_80, Eaglepride_84, Eris_81, Eurydice_83, Floean_82, Flux_83, Funston_81, HamSlice_78, Happiness_81, Heathen_84, Holli_81, ICleared_81, Iceman_80, Iracema64_82, Jaykayelowell_79, JetBlade_83, JoongJeon_81, KFPoly_81, Kampy_81, Kimona_82, Koreni_81, Kratark_81, Kyee_82, LHTSCC_84, LappelDuVide_78, Lemur_82, LittleB_82, LittleGuy_82, LochMonster_83, Lorenzo_82, Lunsford_82, MA5_82, Maverick_81, Maxo_84, Mazhar510_82, Medusa_81, Melvin_84, Millski_81, Miramae_82, Morpher26_78, Morrow_84, Mundrea_80, Nebs_83, Noelle_79, Nyxis_81, OKaNui_81, Ohfah_83, Palestino_81, Peaches_80, Perplexer_78, PeterPeter_82, PetiteSangsue_78, Phacado_82, Phelipe_82, Phighter1804_82, Phontbonne_82, Pipcraft_78, Polymorphads_83, Pumbaa_82, Romney_81, Roosevelt_80, Ruin_82, Sabertooth_82, Scamp_82, Scout_84, Shaka_80, Shygu2_80, Sparxx_83, Spino_81, Taquarus_81, Thanksgivukkah_81, TinaFeyge_80, Tinybot_81, TiroTheta9_81, TroyPia_83, Ulysses_81, Wander_82, Wilbur_82, Wile_77, Wizard007_78, Xena_78, YoSam321_82,

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

- Arturo_79, AvatarAhPeg_82, Avle17_82, Badger_77, BlueBird_87, Bugatti_86, Chupacabra_78, Cindaradix_77, Cocoaberry_82, Commander_80, Datway_79,

Deano_79, Drake94_78, Eagle_81, Eapen_82, Eros_82, Fred313_82, Gadost_82, Giroux_83, Goose_82, Houdini22_81, Isca_80, Katalie136_78, Kingmustik0402_82, Kremtemulon_76, Kristoff_79, MeeZee_81, Nemo27_81, NorthStar_79, NotAPhaseMom_81, OKCentral2016_80, Obama12_83, PeaceMeal1_78, Phantastic_85, Pistachio_85, Poompha_78, Puppy_86, Rebeuca_82, Relief_81, RhynO_69, SaturnRing_86, Severus_79, SheldonCooper_82, Skipitt_81, Stasia_79, Stink_82, TNguyen7_86, Topanga_71, Twister_82, TygerBlood_82, WalterMcMickey_81,

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

- 20ES_87, 40AC_81, AN3_85, AN9_84, ANI8_84, AbbyPaige_87, Acolyte_79, Adzzy_86, Agape74_87, Aliter_82, Alma_87, Aneem_89, AnnaL29_87, Anselm_86, ArcherNM_80, Arissanae_84, Artemis2UCLA_86, BABullseye_78, BabyBack_78, Bachome_86, Bactobuster_77, Baehexic_84, Beemo_89, BengiVuitton_87, Benvolio_84, BiancaTri92_83, Blinn1_89, Blue7_88, BobSwaget_79, BogosyJay_88, Bowtie_84, C3_77, CRB1_86, Candra_83, Caraxes_86, Catalina_91, Caviar_73, Centaur_85, Chargerpower_85, Charm_84, Chartreuse_83, Che12_87, CherryTomatoes_197, ChipMunk_86, CloudWang3_87, Colin_84, Conquerage_87, Cookiedough_85, Crucio_85, DBQu4n_85, DaVinci_83, Dalmatian_85, Darrell_87, DarthPhader_85, Deloris_87, Dignity_87, Dorothea_82, Drake55_86, DreamTeam1_84, DroogsArmy_78, DudeLittle_83, Duplo_86, EZMoney23_81, EagleEye_86, Ebony_87, Echild_88, Eidsmoe_87, Elephantoon_89, EmyBug_83, Equemioh13_85, EricB_83, Et2Brutus_88, EvilGenius_85, ExplosioNervosa_87, Fameo_83, Fayely_87, Fibonacci_88, FiringLine_85, First_0086, Flare16_85, Flaverint_89, Gail_86, Garak_88, GaugeLDP_79, Georgie2_87, Gilberta_86, Gladiator_83, Greely_145, Gruunaga_86, HINdeR_78, Hammer_87, HarryHoudini_85, Heffalump_82, Helmet_88, Hexamo_86, Hookmount_84, Hoot_80, HortumSL17_90, Hutc2_85, Indra_90, Insomnia_87, IronMan_82, Isiphiwo_81, Iwokeuplikedis_89, Jaan_83, Jabith_88, Jeeves_86, Jerm_87, JewelBug_77, Jordennis_83, Joselito_86, JoshKayV_87, Jsquared_89, Kalpine_87, Kazan_86, Kerberos_85, Keziacharles14_86, KingCyrus_84, Kipper29_85, Koduck_85, Koko_88, L5_78, LadyBird_89, Lambert1_84, Landor_83, Larenn_83, Leviathan_87, LilTurb_86, Lilbunny_84, Lokk_80, LoneWolf_89, Loser_88, Luchador_84, Lucivia_89, Lucyedi_85, MaCh_88, Mabel_88, Malec_84, Maminaiaina_88, Margo_84, McFly_85, MiculUcigas_85, Miko_80, MissWhite_78, Mulciber_87, Munch_87, Myxus_89, NaSiaTalie_86, Neeharika16_84, Newrala_84, NicoleTera_83, Noella_85, Norbert_80, NothingSpecial_80, Odin_84, Orange_88, PackMan_84, Petersenfast_82, Ph8s_86, Phabba_146, Phaded_79, Phaeder_89, Phlei_71, Phonnegut_89, Pioneer_89, Piro94_84, Pmask_84, Pocahontas_83, Pomar16_85, Popcicle_84, Power_85, Priamo_86, Priya_87, Pukovnik_80, Pupper_190, Qobbit_87, QueenB2_82, QueenBeesly_85, QuinnKiro_83, Rachaly_82, Rahalelujah_88, RedRock_85, Refuge_87, ResDef_82, Retro23_85, Rifter_87, Roksolana_87, Ronaldo_142, SCentae_189, Salz_84, Scherzo_87, SemperFi_85, Serenity_88, Sham4_85, SheaKeira_84, Sheen_80, Skog_22, Smeagan_88, SmellyB_85, SnapTap_85, Snape_88, SororFago_84, Spouty_84, StarStuff_85, Steamy_84, SuperAwesome_85, SuperCallie99_81, Superchunk_85, SweetiePie_85, SwirlSquare_88, TarsusIV_84, Texage_82, Thonko_95, Timothy_88, Timshel_79, TinyTimmy_86, TipsytheTRex_84, Toaka_87, Todacoro_84, Tomathan_85, ToneTone_84, Trixie_85, Trooper_84, Tubs_89, Tucker_87, Turbido_86, Ugenie5_76, Updawg_86, VA6_85, VC3_83, Vanisoa_84, Veracruz_81, VohminGhazi_85, Volt_145, WeiHuaDA_87, WideWale_86, Wiks_86, WunderPhul_87, XianYue_84, Yecey3_90, Yokurt_86, Zaka_87, Ziko_144, Zimmer_86, Zulu_88,

Summary by start number:

Start 32:

- Found in 41 of 410 (10.0%) of genes in pham
- Manual Annotations of this start: 28 of 376
- Called 70.7% of time when present
- Phage (with cluster) where this start called: Caviar_73 (A3), Chupacabra_78 (A10), Drake94_78 (A10), Goose_82 (A10), Hookmount_84 (A3), Isca_80 (A3), Kristoff_79 (A10), Lambert1_84 (A3), Margo_84 (A3), Noella_85 (A3), Norbert_80 (A3), PeaceMeal1_78 (A10), Phantastic_85 (A3), Pocahontas_83 (A3), Poompha_78 (A10), Popcicle_84 (A3), QuinnKiro_83 (A3), Rebeuca_82 (A10), ResDef_82 (A3), RhynO_69 (A10), Severus_79 (A10), Stasia_79 (A4), TNguyen7_86 (A3), Texage_82 (A3), Todacoro_84 (A3), Topanga_71 (A10), Twister_82 (A10), Veracruz_81 (A3), WalterMcMickey_81 (A10),

Start 36:

- Found in 165 of 410 (40.2%) of genes in pham
- Manual Annotations of this start: 113 of 376
- Called 69.1% of time when present
- Phage (with cluster) where this start called: AbbysRanger_78 (A4), Abdiel_81 (A4), Achebe_77 (A4), Albee_82 (A4), Alberto7_83 (A4), Annyong_81 (A4), Baby16_82 (A4), BabyRay_84 (A3), Backyardigan_76 (A4), BangNhom_79 (A4), Bartimeaus_82 (A4), BellusTerra_82 (A4), Blackmoor_81 (A4), Bombshell_82 (A4), Broseidon_82 (A4), Bruiser_81 (A4), BubbleTrouble_81 (A4), Bumblebee11_77 (A4), Burger_80 (A4), Caelakin_80 (A4), Camperdownii_78 (A4), CentreCat_82 (A4), Cerulean_84 (A4), ChampagnePapi_85 (A4), Chaph_82 (A4), Cici_78 (A4), Cintron_82 (A4), Citius_82 (A4), Clarenza_81 (A4), Connomayer_82 (A4), Dhanush_82 (A4), DirtyDunning_81 (A4), Druantia_80 (A4), Eaglepride_84 (A10), Eris_81 (A4), Eurydice_83 (A4), Florean_82 (A4), Flux_83 (A4), Funston_81 (A4), HamSlice_78 (A4), Happiness_81 (A4), Heathen_84 (A3), Holli_81 (A4), ICleared_81 (A4), Iceman_80 (A4), Iracema64_82 (A4), Jaykayelowell_79 (A4), JetBlade_83 (A4), JoongJeon_81 (A4), KFPoly_81 (A4), Kampy_81 (A4), Kimona_82 (A19), Koreni_81 (A4), Kratak_81 (A4), Kyee_82 (A4), LHTSCC_84 (A4), LappelDuVide_78 (A4), Lemur_82 (A4), LittleB_82 (A4), LittleGuy_82 (A4), LochMonster_83 (A4), Lorenzo_82 (A4), Lunsford_82 (A4), MA5_82 (A3), Maverick_81 (A4), Maxo_84 (A4), Mazhar510_82 (A4), Medusa_81 (A4), Melvin_84 (A4), Millski_81 (A4), Miramae_82 (A4), Morpher26_78 (A4), Morrow_84 (A4), Mundrea_80 (A4), Nebs_83 (A4), Noelle_79 (A4), Nyxis_81 (A4), OKaNui_81 (A4), Ohfah_83 (A4), Palestino_81 (A4), Peaches_80 (A4), Perplexer_78 (A4), PeterPeter_82 (A4), PetiteSangsue_78 (A4), Phacado_82 (A4), Phelipe_82 (A4), Phighter1804_82 (A4), Phontbonne_82 (A4), Pipcraft_78 (A4), Polymorphads_83 (A4), Pumbaa_82 (A4), Romney_81 (A4), Roosevelt_80 (A4), Ruin_82 (A4), Sabertooth_82 (A4), Scamp_82 (A4), Scout_84 (A3), Shaka_80 (A4), Shygu2_80 (A4), Sparxx_83 (A4), Spino_81 (A4), Taquarus_81 (A4), Thanksgivukkah_81 (A4), TinaFeyge_80 (A4), Tinybot_81 (A4), TiroTheta9_81 (A4), TroyPia_83 (A4), Ulysses_81 (A4), Wander_82 (A4), Wilbur_82 (A4), Wile_77 (A4), Wizard007_78 (A4), Xena_78 (A4), YoSam321_82 (A4),

Start 37:

- Found in 8 of 410 (2.0%) of genes in pham
- Manual Annotations of this start: 1 of 376
- Called 12.5% of time when present
- Phage (with cluster) where this start called: OKCentral2016_80 (A10),

Start 38:

- Found in 1 of 410 (0.2%) of genes in pham
- Manual Annotations of this start: 1 of 376
- Called 100.0% of time when present
- Phage (with cluster) where this start called: Sheen_80 (A7),

Start 40:

- Found in 1 of 410 (0.2%) of genes in pham
- No Manual Annotations of this start.
- Called 100.0% of time when present
- Phage (with cluster) where this start called: Phlei_71 (A13),

Start 41:

- Found in 2 of 410 (0.5%) of genes in pham
- Manual Annotations of this start: 1 of 376
- Called 50.0% of time when present
- Phage (with cluster) where this start called: Timshel_79 (A7),

Start 42:

- Found in 232 of 410 (56.6%) of genes in pham
- Manual Annotations of this start: 76 of 376
- Called 36.2% of time when present
- Phage (with cluster) where this start called: Arturo_79 (A4), AvatarAhPeg_82 (A4), Avle17_82 (A4), BABullseye_78 (A6), Badger_77 (A4), Blinn1_89 (A6), Blue7_88 (A6), BlueBird_87 (A3), Bugatti_86 (A3), Chargerpower_85 (A), Chartreuse_83 (A6), CherryTomatoes_197 (DO), Cindaradix_77 (A4), CloudWang3_87 (A6), Cocoaberry_82 (A4), Commander_80 (A4), Cookiedough_85 (A6), DarthPhader_85 (A12), Datway_79 (A4), Deano_79 (A4), Eagle_81 (A4), Eapen_82 (A4), EricB_83 (A6), Eros_82 (A4), Fibonacci_88 (A11), Flaverint_89 (A11), Fred313_82 (A3), Gadost_82 (A4), Gilberta_86 (A11), Giroux_83 (A3), Gladiator_83 (A6), Gruunaga_86 (A6), Hammer_87 (A6), Helmet_88 (A6), Hexamo_86 (A6), Hoot_80 (A6), Houdini22_81 (A4), Hutc2_85 (A11), Indra_90 (A6), Jabith_88 (A11), JewelBug_77 (A6), Jordennis_83 (A6), Katalie136_78 (A4), Kazan_86 (A6), Kingmustik0402_82 (A4), Kipper29_85 (A6), Koko_88 (A6), Kremtemulon_76 (A4), MaCh_88 (A11), Mabel_88 (A11), MeeZee_81 (A4), Mulciber_87 (A11), Neeharika16_84 (A6), Nemo27_81 (A4), Newrala_84 (A6), NorthStar_79 (A4), NotAPhaseMom_81 (A4), Obama12_83 (A4), Orange_88 (A11), Pistachio_85 (A3), Pupper_190 (DO), Puppy_86 (A3), Refuge_87 (A12), Relief_81 (A4), Rifter_87 (A6), Roksolana_87 (A6), SCentae_189 (DO), SaturnRing_86 (A3), Sham4_85 (A11), SheldonCooper_82 (A4), Skipitt_81 (A4), Skog_22 (DO), SmellyB_85 (A6), Snape_88 (A11), Steamy_84 (A12), Stink_82 (A4), SuperAwesome_85 (A6), Trixie_85 (A2), TygerBlood_82 (A4), VohminGhazi_85 (A6), Wiks_86 (A6), WunderPhul_87 (A6), Zimmer_86 (A12), Zulu_88 (A6),

Start 43:

- Found in 2 of 410 (0.5%) of genes in pham
- Manual Annotations of this start: 1 of 376
- Called 100.0% of time when present
- Phage (with cluster) where this start called: Greely_145 (C2), Phabba_146 (C2),

Start 44:

- Found in 21 of 410 (5.1%) of genes in pham

- Manual Annotations of this start: 12 of 376
- Called 57.1% of time when present
- Phage (with cluster) where this start called: AN9_84 (A2), ANI8_84 (A2), Duplo_86 (A2), EagleEye_86 (A16), Jsquared_89 (A2), L5_78 (A2), Lucyedi_85 (A16), Odin_84 (A2), StarStuff_85 (A2), Thonko_95 (B8), TipsytheTRex_84 (A2), VC3_83 (A2),

Start 45:

- Found in 67 of 410 (16.3%) of genes in pham
- Manual Annotations of this start: 25 of 376
- Called 40.3% of time when present
- Phage (with cluster) where this start called: Adzzy_86 (A2), Aliter_82 (A9), AnnaL29_87 (A2), Catalina_91 (A9), Che12_87 (A2), Conquerage_87 (A9), Eidsmoe_87 (A9), Equemioh13_85 (A2), Fayely_87 (A9), Flare16_85 (A2), HarryHoudini_85 (A2), HortumSL17_90 (A9), Loser_88 (A2), MiculUcigas_85 (A2), Myxus_89 (A9), NaSiaTalie_86 (A2), NothingSpecial_80 (A2), PackMan_84 (A9), Ph8s_86 (A2), Piro94_84 (A2), Pukovnik_80 (A2), Spouty_84 (A9), SwirlSquare_88 (A2), Trooper_84 (A2), Tubs_89 (A9), WideWale_86 (A2), Yecey3_90 (A9),

Start 46:

- Found in 133 of 410 (32.4%) of genes in pham
- Manual Annotations of this start: 61 of 376
- Called 57.1% of time when present
- Phage (with cluster) where this start called: 20ES_87 (A2), 40AC_81 (A17), AN3_85 (A2), AbbyPaige_87 (A2), Agape74_87 (A2), Aneem_89 (A11), ArcherNM_80 (A2), Artemis2UCLA_86 (A6), BabyBack_78 (A2), Bachome_86 (A11), BengiVuitton_87 (A2), Benvolio_84 (A2), Bowtie_84 (A11), C3_77 (A2), CRB1_86 (A2), Candra_83 (A6), Caraxes_86 (A2), ChipMunk_86 (A2), Colin_84 (A2), Crucio_85 (A2), DBQu4n_85 (A2), DaVinci_83 (A6), Deloris_87 (A2), Dignity_87 (A2), Dorothea_82 (A6), Ebony_87 (A11), Echild_88 (A2), Et2Brutus_88 (A11), EvilGenius_85 (A2), Fameo_83 (A2), FiringLine_85 (A2), First_0086 (A2), Garak_88 (A6), GaugeLDP_79 (A2), Georgie2_87 (A2), Heffalump_82 (A2), Insomnia_87 (A11), Isiphiwo_81 (A6), Jerm_87 (A2), Joselito_86 (A11), JoshKayV_87 (A2), Kerberos_85 (A2), KingCyrus_84 (A2), Koduck_85 (A2), LadyBird_89 (A2), Leviathan_87 (A2), LilTurb_86 (A2), Lilbunny_84 (A6), Lucivia_89 (A11), McFly_85 (A6), Munch_87 (A11), Petersenfast_82 (A11), Pmask_84 (A6), Pomar16_85 (A2), Power_85 (A2), Priamo_86 (A6), QueenB2_82 (A2), QueenBeesly_85 (A2), Salz_84 (A11), SemperFi_85 (A2), Serenity_88 (A2), Smeagan_88 (A2), SnapTap_85 (A2), SuperCallie99_81 (A6), Superchunk_85 (A2), SweetiePie_85 (A2), Timothy_88 (A11), TinyTimmy_86 (A11), Tomathan_85 (A2), ToneTone_84 (A6), Tucker_87 (A6), Turbido_86 (A2), VA6_85 (A2), XianYue_84 (A2), Yokurt_86 (A6), Zaka_87 (A6),

Start 47:

- Found in 77 of 410 (18.8%) of genes in pham
- Manual Annotations of this start: 49 of 376
- Called 68.8% of time when present
- Phage (with cluster) where this start called: Acolyte_79 (A2), Alma_87 (A9), Anselm_86 (A2), Bactobuster_77 (A2), Baehexic_84 (A2), Beemo_89 (A9), BiancaTri92_83 (A2), BobSwaget_79 (A2), BogosyJay_88 (A9), Centaur_85 (A2), Charm_84 (A9), Dalmatian_85 (A2), Drake55_86 (A2), DreamTeam1_84 (A9), DudeLittle_83 (A2), EZMoney23_81 (A2), EmyBug_83 (A9), ExplosioNervosa_87 (A9), Gail_86 (A14), IronMan_82 (A2), Iwokeuplikedis_89 (A2), Jaan_83 (A2), Jeeves_86 (A14), Kalpine_87 (A2), Keziacharles14_86 (A9), Landor_83 (A2), Larenn_83 (A2), Lokk_80 (A2), LoneWolf_89 (A9), Luchador_84 (A14), Malec_84

(A2), Maminiaina_88 (A9), Miko_80 (A2), MissWhite_78 (A2), NicoleTera_83 (A2), Phaded_79 (A2), Phaeder_89 (A9), Phonnegut_89 (A9), Pioneer_89 (A9), Priya_87 (A9), Qobbit_87 (A9), Rachaly_82 (A2), RedRock_85 (A2), Retro23_85 (A2), Scherzo_87 (A9), SheaKeira_84 (A9), SororFago_84 (A14), TarsusIV_84 (A2), Toaka_87 (A9), Ugenie5_76 (A9), Updawg_86 (A2), Vanisoa_84 (A9), WeiHuaDA_87 (A2),

Start 48:

- Found in 4 of 410 (1.0%) of genes in pham
- Manual Annotations of this start: 3 of 376
- Called 100.0% of time when present
- Phage (with cluster) where this start called: Arissanae_84 (A9), Darrell_87 (A9), Elephantoon_89 (A9), Rahalelujah_88 (A9),

Start 49:

- Found in 8 of 410 (2.0%) of genes in pham
- Manual Annotations of this start: 5 of 376
- Called 62.5% of time when present
- Phage (with cluster) where this start called: DroogsArmy_78 (A7), HINdeR_78 (A7), Ronaldo_142 (DP), Volt_145 (DP), Ziko_144 (DP),

Summary by clusters:

There are 19 clusters represented in this pham: A, A14, A17, A16, A11, A10, A13, DO, A12, A19, A3, A2, A4, A7, A6, A9, C2, B8, DP,

Info for manual annotations of cluster A:

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

Info for manual annotations of cluster A10:

- Start number 32 was manually annotated 12 times for cluster A10.
- Start number 36 was manually annotated 1 time for cluster A10.
- Start number 37 was manually annotated 1 time for cluster A10.

Info for manual annotations of cluster A11:

- Start number 42 was manually annotated 11 times for cluster A11.
- Start number 46 was manually annotated 10 times for cluster A11.

Info for manual annotations of cluster A12:

- Start number 42 was manually annotated 4 times for cluster A12.

Info for manual annotations of cluster A14:

- Start number 47 was manually annotated 4 times for cluster A14.

Info for manual annotations of cluster A16:

- Start number 44 was manually annotated 2 times for cluster A16.

Info for manual annotations of cluster A19:

- Start number 36 was manually annotated 1 time for cluster A19.

Info for manual annotations of cluster A2:

- Start number 42 was manually annotated 1 time for cluster A2.
- Start number 44 was manually annotated 9 times for cluster A2.
- Start number 45 was manually annotated 15 times for cluster A2.
- Start number 46 was manually annotated 40 times for cluster A2.
- Start number 47 was manually annotated 26 times for cluster A2.

Info for manual annotations of cluster A3:

- Start number 32 was manually annotated 15 times for cluster A3.
- Start number 36 was manually annotated 4 times for cluster A3.
- Start number 42 was manually annotated 4 times for cluster A3.

Info for manual annotations of cluster A4:

- Start number 32 was manually annotated 1 time for cluster A4.
- Start number 36 was manually annotated 107 times for cluster A4.
- Start number 42 was manually annotated 26 times for cluster A4.

Info for manual annotations of cluster A6:

- Start number 42 was manually annotated 26 times for cluster A6.
- Start number 46 was manually annotated 11 times for cluster A6.

Info for manual annotations of cluster A7:

- Start number 38 was manually annotated 1 time for cluster A7.
- Start number 41 was manually annotated 1 time for cluster A7.
- Start number 49 was manually annotated 2 times for cluster A7.

Info for manual annotations of cluster A9:

- Start number 45 was manually annotated 10 times for cluster A9.
- Start number 47 was manually annotated 19 times for cluster A9.
- Start number 48 was manually annotated 3 times for cluster A9.

Info for manual annotations of cluster B8:

- Start number 44 was manually annotated 1 time for cluster B8.

Info for manual annotations of cluster C2:

- Start number 43 was manually annotated 1 time for cluster C2.

Info for manual annotations of cluster DO:

- Start number 42 was manually annotated 3 times for cluster DO.

Info for manual annotations of cluster DP:

- Start number 49 was manually annotated 3 times for cluster DP.

Gene Information:

Gene: 20ES_87 Start: 48610, Stop: 48476, Start Num: 46

Candidate Starts for 20ES_87:

(39, 48646), (Start: 46 @48610 has 61 MA's),

Gene: 40AC_81 Start: 48267, Stop: 48139, Start Num: 46

Candidate Starts for 40AC_81:

(Start: 42 @48279 has 76 MA's), (Start: 46 @48267 has 61 MA's),

Gene: AN3_85 Start: 46868, Stop: 46734, Start Num: 46

Candidate Starts for AN3_85:

(39, 46904), (Start: 46 @46868 has 61 MA's),

Gene: AN9_84 Start: 47045, Stop: 46908, Start Num: 44

Candidate Starts for AN9_84:

(13, 47204), (Start: 44 @47045 has 12 MA's), (Start: 46 @47036 has 61 MA's), (55, 46958),

Gene: ANI8_84 Start: 47045, Stop: 46908, Start Num: 44

Candidate Starts for ANI8_84:

(13, 47204), (Start: 44 @47045 has 12 MA's), (Start: 46 @47036 has 61 MA's), (55, 46958),

Gene: AbbyPaige_87 Start: 48867, Stop: 48733, Start Num: 46

Candidate Starts for AbbyPaige_87:

(39, 48903), (Start: 46 @48867 has 61 MA's),

Gene: AbbysRanger_78 Start: 47702, Stop: 47532, Start Num: 36

Candidate Starts for AbbysRanger_78:

(1, 48197), (3, 48095), (4, 48014), (Start: 36 @47702 has 113 MA's), (Start: 42 @47678 has 76 MA's), (55, 47585),

Gene: Abdiel_81 Start: 48078, Stop: 47908, Start Num: 36

Candidate Starts for Abdiel_81:

(Start: 36 @48078 has 113 MA's), (Start: 42 @48054 has 76 MA's), (55, 47961),

Gene: Achebe_77 Start: 47681, Stop: 47511, Start Num: 36

Candidate Starts for Achebe_77:

(Start: 36 @47681 has 113 MA's), (Start: 42 @47657 has 76 MA's), (55, 47564),

Gene: Acolyte_79 Start: 47568, Stop: 47434, Start Num: 47

Candidate Starts for Acolyte_79:

(Start: 45 @47577 has 25 MA's), (Start: 47 @47568 has 49 MA's), (56, 47484),

Gene: Adzzy_86 Start: 47386, Stop: 47249, Start Num: 45

Candidate Starts for Adzzy_86:

(18, 47482), (Start: 45 @47386 has 25 MA's), (56, 47299),

Gene: Agape74_87 Start: 48843, Stop: 48709, Start Num: 46

Candidate Starts for Agape74_87:

(39, 48879), (Start: 46 @48843 has 61 MA's),

Gene: Albee_82 Start: 48066, Stop: 47896, Start Num: 36

Candidate Starts for Albee_82:

(Start: 36 @48066 has 113 MA's), (Start: 42 @48042 has 76 MA's), (55, 47949),

Gene: Alberto7_83 Start: 48403, Stop: 48233, Start Num: 36

Candidate Starts for Alberto7_83:

(Start: 36 @48403 has 113 MA's), (Start: 42 @48379 has 76 MA's),

Gene: Aliter_82 Start: 46009, Stop: 45866, Start Num: 45

Candidate Starts for Aliter_82:

(30, 46048), (Start: 45 @46009 has 25 MA's), (Start: 47 @46000 has 49 MA's),

Gene: Alma_87 Start: 48839, Stop: 48705, Start Num: 47
Candidate Starts for Alma_87:
(30, 48887), (Start: 45 @48848 has 25 MA's), (Start: 47 @48839 has 49 MA's),

Gene: Aneem_89 Start: 48093, Stop: 47965, Start Num: 46
Candidate Starts for Aneem_89:
(Start: 42 @48105 has 76 MA's), (Start: 46 @48093 has 61 MA's), (55, 48015),

Gene: AnnaL29_87 Start: 49009, Stop: 48866, Start Num: 45
Candidate Starts for AnnaL29_87:
(Start: 45 @49009 has 25 MA's), (Start: 47 @49000 has 49 MA's), (52, 48973), (56, 48916),

Gene: Annyong_81 Start: 48111, Stop: 47941, Start Num: 36
Candidate Starts for Annyong_81:
(Start: 36 @48111 has 113 MA's), (Start: 42 @48087 has 76 MA's), (55, 47994),

Gene: Anselm_86 Start: 48751, Stop: 48617, Start Num: 47
Candidate Starts for Anselm_86:
(30, 48799), (Start: 45 @48760 has 25 MA's), (Start: 47 @48751 has 49 MA's),

Gene: ArcherNM_80 Start: 48138, Stop: 48004, Start Num: 46
Candidate Starts for ArcherNM_80:
(15, 48261), (30, 48189), (Start: 42 @48150 has 76 MA's), (Start: 46 @48138 has 61 MA's), (55, 48057),

Gene: Arissanae_84 Start: 48711, Stop: 48583, Start Num: 48
Candidate Starts for Arissanae_84:
(30, 48759), (Start: 48 @48711 has 3 MA's),

Gene: Artemis2UCLA_86 Start: 46158, Stop: 46027, Start Num: 46
Candidate Starts for Artemis2UCLA_86:
(33, 46209), (Start: 42 @46170 has 76 MA's), (Start: 46 @46158 has 61 MA's),

Gene: Arturo_79 Start: 48170, Stop: 48024, Start Num: 42
Candidate Starts for Arturo_79:
(Start: 36 @48194 has 113 MA's), (Start: 42 @48170 has 76 MA's),

Gene: AvatarAhPeg_82 Start: 48295, Stop: 48149, Start Num: 42
Candidate Starts for AvatarAhPeg_82:
(Start: 36 @48319 has 113 MA's), (Start: 42 @48295 has 76 MA's), (55, 48202),

Gene: Avle17_82 Start: 48036, Stop: 47890, Start Num: 42
Candidate Starts for Avle17_82:
(Start: 36 @48060 has 113 MA's), (Start: 42 @48036 has 76 MA's),

Gene: BABullseye_78 Start: 44490, Stop: 44347, Start Num: 42
Candidate Starts for BABullseye_78:
(33, 44529), (Start: 42 @44490 has 76 MA's), (Start: 46 @44478 has 61 MA's),

Gene: Baby16_82 Start: 48077, Stop: 47907, Start Num: 36
Candidate Starts for Baby16_82:
(Start: 36 @48077 has 113 MA's), (Start: 42 @48053 has 76 MA's), (55, 47960),

Gene: BabyBack_78 Start: 48059, Stop: 47931, Start Num: 46
Candidate Starts for BabyBack_78:
(Start: 42 @48071 has 76 MA's), (Start: 46 @48059 has 61 MA's),

Gene: BabyRay_84 Start: 47109, Stop: 46939, Start Num: 36
Candidate Starts for BabyRay_84:
(8, 47334), (12, 47265), (16, 47199), (24, 47160), (Start: 32 @47133 has 28 MA's), (Start: 36 @47109 has 113 MA's), (Start: 42 @47082 has 76 MA's),

Gene: Bachome_86 Start: 46976, Stop: 46848, Start Num: 46
Candidate Starts for Bachome_86:
(Start: 42 @46988 has 76 MA's), (Start: 46 @46976 has 61 MA's), (55, 46898),

Gene: Backyardigan_76 Start: 47718, Stop: 47548, Start Num: 36
Candidate Starts for Backyardigan_76:
(1, 48213), (3, 48111), (4, 48030), (Start: 36 @47718 has 113 MA's), (Start: 42 @47694 has 76 MA's), (55, 47601),

Gene: Bactobuster_77 Start: 47335, Stop: 47198, Start Num: 47
Candidate Starts for Bactobuster_77:
(34, 47392), (Start: 47 @47335 has 49 MA's), (56, 47251),

Gene: Badger_77 Start: 47660, Stop: 47514, Start Num: 42
Candidate Starts for Badger_77:
(1, 48179), (3, 48077), (4, 47996), (Start: 36 @47684 has 113 MA's), (Start: 42 @47660 has 76 MA's), (55, 47567),

Gene: Baehexic_84 Start: 48234, Stop: 48100, Start Num: 47
Candidate Starts for Baehexic_84:
(Start: 45 @48243 has 25 MA's), (Start: 47 @48234 has 49 MA's), (56, 48150),

Gene: BangNhom_79 Start: 48503, Stop: 48333, Start Num: 36
Candidate Starts for BangNhom_79:
(Start: 36 @48503 has 113 MA's), (Start: 42 @48479 has 76 MA's),

Gene: Bartimeaus_82 Start: 48068, Stop: 47898, Start Num: 36
Candidate Starts for Bartimeaus_82:
(Start: 36 @48068 has 113 MA's), (Start: 42 @48044 has 76 MA's), (55, 47951),

Gene: Beemo_89 Start: 48833, Stop: 48699, Start Num: 47
Candidate Starts for Beemo_89:
(30, 48881), (Start: 45 @48842 has 25 MA's), (Start: 47 @48833 has 49 MA's),

Gene: BellusTerra_82 Start: 47931, Stop: 47761, Start Num: 36
Candidate Starts for BellusTerra_82:
(Start: 36 @47931 has 113 MA's), (Start: 42 @47907 has 76 MA's), (55, 47814),

Gene: BengiVuitton_87 Start: 48715, Stop: 48581, Start Num: 46
Candidate Starts for BengiVuitton_87:
(39, 48751), (Start: 46 @48715 has 61 MA's),

Gene: Benvolio_84 Start: 48484, Stop: 48347, Start Num: 46

Candidate Starts for Benvolio_84:
(19, 48610), (Start: 46 @48484 has 61 MA's),

Gene: BiancaTri92_83 Start: 48320, Stop: 48186, Start Num: 47
Candidate Starts for BiancaTri92_83:
(Start: 47 @48320 has 49 MA's),

Gene: Blackmoor_81 Start: 48068, Stop: 47898, Start Num: 36
Candidate Starts for Blackmoor_81:
(Start: 36 @48068 has 113 MA's), (Start: 42 @48044 has 76 MA's), (55, 47951),

Gene: Blinn1_89 Start: 47148, Stop: 47005, Start Num: 42
Candidate Starts for Blinn1_89:
(Start: 42 @47148 has 76 MA's), (Start: 46 @47136 has 61 MA's),

Gene: Blue7_88 Start: 46389, Stop: 46246, Start Num: 42
Candidate Starts for Blue7_88:
(33, 46428), (Start: 42 @46389 has 76 MA's), (Start: 46 @46377 has 61 MA's),

Gene: BlueBird_87 Start: 47517, Stop: 47374, Start Num: 42
Candidate Starts for BlueBird_87:
(8, 47769), (9, 47742), (12, 47700), (24, 47595), (27, 47586), (Start: 32 @47568 has 28 MA's), (Start: 36 @47544 has 113 MA's), (Start: 42 @47517 has 76 MA's),

Gene: BobSwaget_79 Start: 46253, Stop: 46116, Start Num: 47
Candidate Starts for BobSwaget_79:
(5, 46547), (10, 46469), (30, 46301), (Start: 45 @46262 has 25 MA's), (Start: 47 @46253 has 49 MA's),

Gene: BogosyJay_88 Start: 48878, Stop: 48741, Start Num: 47
Candidate Starts for BogosyJay_88:
(Start: 45 @48887 has 25 MA's), (Start: 47 @48878 has 49 MA's),

Gene: Bombshell_82 Start: 48063, Stop: 47893, Start Num: 36
Candidate Starts for Bombshell_82:
(Start: 36 @48063 has 113 MA's), (Start: 42 @48039 has 76 MA's),

Gene: Bowtie_84 Start: 46700, Stop: 46572, Start Num: 46
Candidate Starts for Bowtie_84:
(Start: 42 @46712 has 76 MA's), (Start: 46 @46700 has 61 MA's), (55, 46622),

Gene: Broseidon_82 Start: 48069, Stop: 47899, Start Num: 36
Candidate Starts for Broseidon_82:
(Start: 36 @48069 has 113 MA's), (Start: 42 @48045 has 76 MA's), (55, 47952),

Gene: Bruiser_81 Start: 48066, Stop: 47896, Start Num: 36
Candidate Starts for Bruiser_81:
(Start: 36 @48066 has 113 MA's), (Start: 42 @48042 has 76 MA's),

Gene: BubbleTrouble_81 Start: 48093, Stop: 47923, Start Num: 36
Candidate Starts for BubbleTrouble_81:
(Start: 36 @48093 has 113 MA's), (Start: 42 @48069 has 76 MA's), (55, 47976),

Gene: Bugatti_86 Start: 47517, Stop: 47374, Start Num: 42
Candidate Starts for Bugatti_86:
(8, 47769), (9, 47742), (12, 47700), (24, 47595), (27, 47586), (Start: 32 @47568 has 28 MA's), (Start: 36 @47544 has 113 MA's), (Start: 42 @47517 has 76 MA's),

Gene: Bumblebee11_77 Start: 47684, Stop: 47514, Start Num: 36
Candidate Starts for Bumblebee11_77:
(1, 48179), (3, 48077), (4, 47996), (Start: 36 @47684 has 113 MA's), (Start: 42 @47660 has 76 MA's), (55, 47567),

Gene: Burger_80 Start: 48066, Stop: 47896, Start Num: 36
Candidate Starts for Burger_80:
(Start: 36 @48066 has 113 MA's), (Start: 42 @48042 has 76 MA's),

Gene: C3_77 Start: 47036, Stop: 46908, Start Num: 46
Candidate Starts for C3_77:
(13, 47204), (Start: 44 @47045 has 12 MA's), (Start: 46 @47036 has 61 MA's), (55, 46958),

Gene: CRB1_86 Start: 48863, Stop: 48729, Start Num: 46
Candidate Starts for CRB1_86:
(39, 48899), (Start: 46 @48863 has 61 MA's),

Gene: Caelakin_80 Start: 48066, Stop: 47896, Start Num: 36
Candidate Starts for Caelakin_80:
(Start: 36 @48066 has 113 MA's), (Start: 42 @48042 has 76 MA's),

Gene: Camperdownii_78 Start: 47309, Stop: 47139, Start Num: 36
Candidate Starts for Camperdownii_78:
(Start: 36 @47309 has 113 MA's), (Start: 42 @47285 has 76 MA's), (55, 47192),

Gene: Candra_83 Start: 46183, Stop: 46052, Start Num: 46
Candidate Starts for Candra_83:
(33, 46234), (Start: 42 @46195 has 76 MA's), (Start: 46 @46183 has 61 MA's),

Gene: Caraxes_86 Start: 47335, Stop: 47207, Start Num: 46
Candidate Starts for Caraxes_86:
(Start: 44 @47344 has 12 MA's), (Start: 46 @47335 has 61 MA's), (53, 47305), (55, 47257),

Gene: Catalina_91 Start: 48956, Stop: 48813, Start Num: 45
Candidate Starts for Catalina_91:
(30, 48995), (Start: 45 @48956 has 25 MA's), (Start: 47 @48947 has 49 MA's),

Gene: Caviar_73 Start: 44224, Stop: 44060, Start Num: 32
Candidate Starts for Caviar_73:
(17, 44284), (Start: 32 @44224 has 28 MA's), (55, 44110),

Gene: Centaur_85 Start: 48112, Stop: 47978, Start Num: 47
Candidate Starts for Centaur_85:
(Start: 45 @48121 has 25 MA's), (Start: 47 @48112 has 49 MA's), (56, 48028),

Gene: CentreCat_82 Start: 48106, Stop: 47936, Start Num: 36
Candidate Starts for CentreCat_82:
(Start: 36 @48106 has 113 MA's), (Start: 42 @48082 has 76 MA's),

Gene: Cerulean_84 Start: 48504, Stop: 48334, Start Num: 36
Candidate Starts for Cerulean_84:
(Start: 36 @48504 has 113 MA's), (Start: 42 @48480 has 76 MA's),

Gene: ChampagnePapi_85 Start: 48506, Stop: 48336, Start Num: 36
Candidate Starts for ChampagnePapi_85:
(Start: 36 @48506 has 113 MA's), (Start: 42 @48482 has 76 MA's),

Gene: Chaph_82 Start: 48077, Stop: 47907, Start Num: 36
Candidate Starts for Chaph_82:
(Start: 36 @48077 has 113 MA's), (Start: 42 @48053 has 76 MA's),

Gene: Chargerpower_85 Start: 46897, Stop: 46760, Start Num: 42
Candidate Starts for Chargerpower_85:
(30, 46936), (Start: 42 @46897 has 76 MA's), (Start: 47 @46888 has 49 MA's), (54, 46837),

Gene: Charm_84 Start: 48231, Stop: 48091, Start Num: 47
Candidate Starts for Charm_84:
(23, 48306), (30, 48279), (Start: 45 @48240 has 25 MA's), (Start: 47 @48231 has 49 MA's),

Gene: Chartreuse_83 Start: 45496, Stop: 45353, Start Num: 42
Candidate Starts for Chartreuse_83:
(33, 45535), (Start: 42 @45496 has 76 MA's), (Start: 46 @45484 has 61 MA's),

Gene: Che12_87 Start: 47465, Stop: 47328, Start Num: 45
Candidate Starts for Che12_87:
(Start: 45 @47465 has 25 MA's), (56, 47378),

Gene: CherryTomatoes_197 Start: 134867, Stop: 135010, Start Num: 42
Candidate Starts for CherryTomatoes_197:
(Start: 42 @134867 has 76 MA's),

Gene: ChipMunk_86 Start: 49770, Stop: 49636, Start Num: 46
Candidate Starts for ChipMunk_86:
(19, 49896), (39, 49806), (Start: 46 @49770 has 61 MA's),

Gene: Chupacabra_78 Start: 47676, Stop: 47506, Start Num: 32
Candidate Starts for Chupacabra_78:
(9, 47844), (17, 47736), (Start: 32 @47676 has 28 MA's), (Start: 36 @47652 has 113 MA's), (Start: 37 @47646 has 1 MA's), (55, 47556),

Gene: Cici_78 Start: 47697, Stop: 47527, Start Num: 36
Candidate Starts for Cici_78:
(Start: 36 @47697 has 113 MA's), (Start: 42 @47673 has 76 MA's),

Gene: Cindaradix_77 Start: 48255, Stop: 48109, Start Num: 42
Candidate Starts for Cindaradix_77:
(Start: 36 @48279 has 113 MA's), (Start: 42 @48255 has 76 MA's), (55, 48162),

Gene: Cintron_82 Start: 48182, Stop: 48012, Start Num: 36
Candidate Starts for Cintron_82:
(Start: 36 @48182 has 113 MA's), (Start: 42 @48158 has 76 MA's),

Gene: Citius_82 Start: 48087, Stop: 47917, Start Num: 36
Candidate Starts for Citius_82:
(Start: 36 @48087 has 113 MA's), (Start: 42 @48063 has 76 MA's), (55, 47970),

Gene: Clarenza_81 Start: 48063, Stop: 47893, Start Num: 36
Candidate Starts for Clarenza_81:
(Start: 36 @48063 has 113 MA's), (Start: 42 @48039 has 76 MA's),

Gene: CloudWang3_87 Start: 46699, Stop: 46556, Start Num: 42
Candidate Starts for CloudWang3_87:
(33, 46738), (Start: 42 @46699 has 76 MA's), (Start: 46 @46687 has 61 MA's),

Gene: Cocoaberry_82 Start: 48043, Stop: 47897, Start Num: 42
Candidate Starts for Cocoaberry_82:
(Start: 36 @48067 has 113 MA's), (Start: 42 @48043 has 76 MA's),

Gene: Colin_84 Start: 49181, Stop: 49047, Start Num: 46
Candidate Starts for Colin_84:
(21, 49277), (Start: 42 @49193 has 76 MA's), (Start: 46 @49181 has 61 MA's),

Gene: Commander_80 Start: 48043, Stop: 47897, Start Num: 42
Candidate Starts for Commander_80:
(Start: 36 @48070 has 113 MA's), (Start: 42 @48043 has 76 MA's), (55, 47950),

Gene: Connomayer_82 Start: 48066, Stop: 47896, Start Num: 36
Candidate Starts for Connomayer_82:
(Start: 36 @48066 has 113 MA's), (Start: 42 @48042 has 76 MA's), (55, 47949),

Gene: Conquerage_87 Start: 48617, Stop: 48474, Start Num: 45
Candidate Starts for Conquerage_87:
(30, 48656), (Start: 45 @48617 has 25 MA's), (Start: 47 @48608 has 49 MA's),

Gene: Cookiedough_85 Start: 46803, Stop: 46660, Start Num: 42
Candidate Starts for Cookiedough_85:
(33, 46842), (Start: 42 @46803 has 76 MA's), (Start: 46 @46791 has 61 MA's),

Gene: Crucio_85 Start: 48717, Stop: 48580, Start Num: 46
Candidate Starts for Crucio_85:
(Start: 46 @48717 has 61 MA's),

Gene: DBQu4n_85 Start: 48081, Stop: 47953, Start Num: 46
Candidate Starts for DBQu4n_85:
(13, 48255), (Start: 44 @48090 has 12 MA's), (Start: 46 @48081 has 61 MA's), (55, 48003),

Gene: DaVinci_83 Start: 45538, Stop: 45407, Start Num: 46
Candidate Starts for DaVinci_83:
(33, 45589), (Start: 42 @45550 has 76 MA's), (Start: 46 @45538 has 61 MA's),

Gene: Dalmatian_85 Start: 48536, Stop: 48402, Start Num: 47
Candidate Starts for Dalmatian_85:
(30, 48584), (Start: 45 @48545 has 25 MA's), (Start: 47 @48536 has 49 MA's),

Gene: Darrell_87 Start: 48031, Stop: 47903, Start Num: 48
Candidate Starts for Darrell_87:
(Start: 48 @48031 has 3 MA's),

Gene: DarthPhader_85 Start: 49743, Stop: 49600, Start Num: 42
Candidate Starts for DarthPhader_85:
(Start: 42 @49743 has 76 MA's), (Start: 46 @49734 has 61 MA's),

Gene: Datway_79 Start: 47853, Stop: 47707, Start Num: 42
Candidate Starts for Datway_79:
(Start: 36 @47877 has 113 MA's), (Start: 42 @47853 has 76 MA's), (55, 47760),

Gene: Deano_79 Start: 48050, Stop: 47904, Start Num: 42
Candidate Starts for Deano_79:
(Start: 36 @48074 has 113 MA's), (Start: 42 @48050 has 76 MA's), (55, 47957),

Gene: Deloris_87 Start: 48408, Stop: 48274, Start Num: 46
Candidate Starts for Deloris_87:
(39, 48444), (Start: 46 @48408 has 61 MA's),

Gene: Dhanush_82 Start: 48069, Stop: 47899, Start Num: 36
Candidate Starts for Dhanush_82:
(Start: 36 @48069 has 113 MA's), (Start: 42 @48045 has 76 MA's),

Gene: Dignity_87 Start: 48950, Stop: 48816, Start Num: 46
Candidate Starts for Dignity_87:
(39, 48986), (Start: 46 @48950 has 61 MA's),

Gene: DirtyDunning_81 Start: 48078, Stop: 47908, Start Num: 36
Candidate Starts for DirtyDunning_81:
(Start: 36 @48078 has 113 MA's), (Start: 42 @48054 has 76 MA's),

Gene: Dorothea_82 Start: 46784, Stop: 46653, Start Num: 46
Candidate Starts for Dorothea_82:
(33, 46835), (Start: 42 @46796 has 76 MA's), (Start: 46 @46784 has 61 MA's),

Gene: Drake55_86 Start: 48363, Stop: 48229, Start Num: 47
Candidate Starts for Drake55_86:
(Start: 45 @48372 has 25 MA's), (Start: 47 @48363 has 49 MA's), (56, 48279),

Gene: Drake94_78 Start: 46836, Stop: 46663, Start Num: 32
Candidate Starts for Drake94_78:
(9, 47004), (17, 46896), (Start: 32 @46836 has 28 MA's), (Start: 36 @46812 has 113 MA's), (55, 46716),

Gene: DreamTeam1_84 Start: 48079, Stop: 47939, Start Num: 47
Candidate Starts for DreamTeam1_84:
(23, 48154), (30, 48127), (Start: 45 @48088 has 25 MA's), (Start: 47 @48079 has 49 MA's),

Gene: DroogsArmy_78 Start: 50033, Stop: 49902, Start Num: 49
Candidate Starts for DroogsArmy_78:
(14, 50210), (21, 50141), (Start: 41 @50054 has 1 MA's), (Start: 49 @50033 has 5 MA's),

Gene: Druantia_80 Start: 47893, Stop: 47723, Start Num: 36
Candidate Starts for Druantia_80:
(1, 48388), (3, 48286), (4, 48205), (Start: 36 @47893 has 113 MA's), (Start: 42 @47869 has 76 MA's),
(55, 47776),

Gene: DudeLittle_83 Start: 48254, Stop: 48120, Start Num: 47
Candidate Starts for DudeLittle_83:
(30, 48302), (Start: 45 @48263 has 25 MA's), (Start: 47 @48254 has 49 MA's),

Gene: Duplo_86 Start: 48147, Stop: 48010, Start Num: 44
Candidate Starts for Duplo_86:
(13, 48312), (Start: 44 @48147 has 12 MA's), (Start: 46 @48138 has 61 MA's), (55, 48060),

Gene: EZMoney23_81 Start: 47816, Stop: 47679, Start Num: 47
Candidate Starts for EZMoney23_81:
(Start: 45 @47825 has 25 MA's), (Start: 47 @47816 has 49 MA's),

Gene: Eagle_81 Start: 48104, Stop: 47958, Start Num: 42
Candidate Starts for Eagle_81:
(Start: 36 @48128 has 113 MA's), (Start: 42 @48104 has 76 MA's),

Gene: EagleEye_86 Start: 47944, Stop: 47807, Start Num: 44
Candidate Starts for EagleEye_86:
(Start: 44 @47944 has 12 MA's), (Start: 46 @47935 has 61 MA's),

Gene: Eaglepride_84 Start: 47732, Stop: 47583, Start Num: 36
Candidate Starts for Eaglepride_84:
(Start: 32 @47756 has 28 MA's), (Start: 36 @47732 has 113 MA's), (Start: 37 @47726 has 1 MA's),
(55, 47636), (57, 47591),

Gene: Eapen_82 Start: 48037, Stop: 47891, Start Num: 42
Candidate Starts for Eapen_82:
(Start: 36 @48061 has 113 MA's), (Start: 42 @48037 has 76 MA's),

Gene: Ebony_87 Start: 47664, Stop: 47536, Start Num: 46
Candidate Starts for Ebony_87:
(Start: 42 @47676 has 76 MA's), (Start: 46 @47664 has 61 MA's), (55, 47586),

Gene: Echild_88 Start: 48508, Stop: 48371, Start Num: 46
Candidate Starts for Echild_88:
(19, 48634), (Start: 46 @48508 has 61 MA's),

Gene: Eidsmoe_87 Start: 48610, Stop: 48467, Start Num: 45
Candidate Starts for Eidsmoe_87:
(30, 48649), (Start: 45 @48610 has 25 MA's), (Start: 47 @48601 has 49 MA's),

Gene: Elephantoon_89 Start: 48757, Stop: 48626, Start Num: 48
Candidate Starts for Elephantoon_89:
(34, 48790), (Start: 48 @48757 has 3 MA's),

Gene: EmyBug_83 Start: 48603, Stop: 48469, Start Num: 47
Candidate Starts for EmyBug_83:
(30, 48651), (Start: 45 @48612 has 25 MA's), (Start: 47 @48603 has 49 MA's),

Gene: Equemioh13_85 Start: 48350, Stop: 48207, Start Num: 45
Candidate Starts for Equemioh13_85:
(Start: 45 @48350 has 25 MA's), (Start: 47 @48341 has 49 MA's), (56, 48257),

Gene: EricB_83 Start: 45693, Stop: 45550, Start Num: 42
Candidate Starts for EricB_83:
(33, 45732), (Start: 42 @45693 has 76 MA's), (Start: 46 @45681 has 61 MA's),

Gene: Eris_81 Start: 48078, Stop: 47908, Start Num: 36
Candidate Starts for Eris_81:
(Start: 36 @48078 has 113 MA's), (Start: 42 @48054 has 76 MA's),

Gene: Eros_82 Start: 48047, Stop: 47901, Start Num: 42
Candidate Starts for Eros_82:
(Start: 36 @48074 has 113 MA's), (Start: 42 @48047 has 76 MA's), (55, 47954),

Gene: Et2Brutus_88 Start: 47941, Stop: 47813, Start Num: 46
Candidate Starts for Et2Brutus_88:
(Start: 42 @47953 has 76 MA's), (Start: 46 @47941 has 61 MA's), (55, 47863),

Gene: Eurydice_83 Start: 48103, Stop: 47933, Start Num: 36
Candidate Starts for Eurydice_83:
(Start: 36 @48103 has 113 MA's), (Start: 42 @48079 has 76 MA's),

Gene: EvilGenius_85 Start: 49771, Stop: 49637, Start Num: 46
Candidate Starts for EvilGenius_85:
(19, 49897), (39, 49807), (Start: 46 @49771 has 61 MA's),

Gene: ExplosioNervosa_87 Start: 48669, Stop: 48535, Start Num: 47
Candidate Starts for ExplosioNervosa_87:
(30, 48717), (Start: 45 @48678 has 25 MA's), (Start: 47 @48669 has 49 MA's),

Gene: Fameo_83 Start: 48269, Stop: 48132, Start Num: 46
Candidate Starts for Fameo_83:
(Start: 46 @48269 has 61 MA's),

Gene: Fayely_87 Start: 48586, Stop: 48443, Start Num: 45
Candidate Starts for Fayely_87:
(30, 48625), (Start: 45 @48586 has 25 MA's), (Start: 47 @48577 has 49 MA's),

Gene: Fibonacci_88 Start: 47959, Stop: 47819, Start Num: 42
Candidate Starts for Fibonacci_88:
(Start: 42 @47959 has 76 MA's), (Start: 46 @47947 has 61 MA's), (55, 47869),

Gene: FiringLine_85 Start: 48657, Stop: 48520, Start Num: 46
Candidate Starts for FiringLine_85:
(Start: 46 @48657 has 61 MA's),

Gene: First_0086 Start: 48510, Stop: 48376, Start Num: 46
Candidate Starts for First_0086:
(39, 48546), (Start: 46 @48510 has 61 MA's),

Gene: Flare16_85 Start: 48165, Stop: 48022, Start Num: 45
Candidate Starts for Flare16_85:
(Start: 45 @48165 has 25 MA's), (Start: 47 @48156 has 49 MA's), (56, 48072),

Gene: Flaverint_89 Start: 48103, Stop: 47963, Start Num: 42
Candidate Starts for Flaverint_89:
(Start: 42 @48103 has 76 MA's), (Start: 46 @48091 has 61 MA's), (55, 48013),

Gene: Florean_82 Start: 48065, Stop: 47895, Start Num: 36
Candidate Starts for Florean_82:
(Start: 36 @48065 has 113 MA's), (Start: 42 @48041 has 76 MA's), (55, 47948),

Gene: Flux_83 Start: 48064, Stop: 47894, Start Num: 36
Candidate Starts for Flux_83:
(Start: 36 @48064 has 113 MA's), (Start: 42 @48040 has 76 MA's),

Gene: Fred313_82 Start: 47147, Stop: 47004, Start Num: 42
Candidate Starts for Fred313_82:
(8, 47399), (12, 47330), (24, 47225), (Start: 32 @47198 has 28 MA's), (Start: 36 @47174 has 113 MA's), (Start: 42 @47147 has 76 MA's),

Gene: Funston_81 Start: 48063, Stop: 47893, Start Num: 36
Candidate Starts for Funston_81:
(Start: 36 @48063 has 113 MA's), (Start: 42 @48039 has 76 MA's),

Gene: Gadost_82 Start: 48043, Stop: 47897, Start Num: 42
Candidate Starts for Gadost_82:
(Start: 36 @48067 has 113 MA's), (Start: 42 @48043 has 76 MA's),

Gene: Gail_86 Start: 47979, Stop: 47836, Start Num: 47
Candidate Starts for Gail_86:
(Start: 47 @47979 has 49 MA's), (56, 47895),

Gene: Garak_88 Start: 46620, Stop: 46489, Start Num: 46
Candidate Starts for Garak_88:
(33, 46671), (Start: 42 @46632 has 76 MA's), (Start: 46 @46620 has 61 MA's),

Gene: GaugeLDP_79 Start: 47615, Stop: 47487, Start Num: 46
Candidate Starts for GaugeLDP_79:
(Start: 42 @47627 has 76 MA's), (Start: 46 @47615 has 61 MA's),

Gene: Georgie2_87 Start: 48861, Stop: 48724, Start Num: 46
Candidate Starts for Georgie2_87:
(Start: 46 @48861 has 61 MA's),

Gene: Gilberta_86 Start: 46979, Stop: 46839, Start Num: 42
Candidate Starts for Gilberta_86:
(Start: 42 @46979 has 76 MA's), (Start: 46 @46967 has 61 MA's), (55, 46889),

Gene: Giroux_83 Start: 47516, Stop: 47373, Start Num: 42
Candidate Starts for Giroux_83:
(8, 47768), (9, 47741), (12, 47699), (24, 47594), (27, 47585), (Start: 32 @47567 has 28 MA's), (Start: 36 @47543 has 113 MA's), (Start: 42 @47516 has 76 MA's),

Gene: Gladiator_83 Start: 46355, Stop: 46212, Start Num: 42
Candidate Starts for Gladiator_83:
(33, 46394), (Start: 42 @46355 has 76 MA's), (Start: 46 @46343 has 61 MA's),

Gene: Goose_82 Start: 47487, Stop: 47317, Start Num: 32
Candidate Starts for Goose_82:
(9, 47655), (Start: 32 @47487 has 28 MA's), (Start: 36 @47463 has 113 MA's), (Start: 37 @47457 has 1 MA's), (55, 47367),

Gene: Greely_145 Start: 89424, Stop: 89567, Start Num: 43
Candidate Starts for Greely_145:
(Start: 43 @89424 has 1 MA's), (Start: 49 @89436 has 5 MA's),

Gene: Gruunaga_86 Start: 46310, Stop: 46167, Start Num: 42
Candidate Starts for Gruunaga_86:
(33, 46349), (Start: 42 @46310 has 76 MA's), (Start: 46 @46298 has 61 MA's),

Gene: HINdeR_78 Start: 49444, Stop: 49313, Start Num: 49
Candidate Starts for HINdeR_78:
(25, 49534), (29, 49513), (35, 49495), (39, 49474), (Start: 49 @49444 has 5 MA's),

Gene: HamSlice_78 Start: 48065, Stop: 47895, Start Num: 36
Candidate Starts for HamSlice_78:
(Start: 36 @48065 has 113 MA's), (Start: 42 @48041 has 76 MA's), (55, 47948),

Gene: Hammer_87 Start: 46017, Stop: 45874, Start Num: 42
Candidate Starts for Hammer_87:
(33, 46056), (Start: 42 @46017 has 76 MA's), (Start: 46 @46005 has 61 MA's),

Gene: Happiness_81 Start: 48089, Stop: 47919, Start Num: 36
Candidate Starts for Happiness_81:
(Start: 36 @48089 has 113 MA's), (Start: 42 @48065 has 76 MA's),

Gene: HarryHoudini_85 Start: 48375, Stop: 48232, Start Num: 45
Candidate Starts for HarryHoudini_85:
(Start: 45 @48375 has 25 MA's), (Start: 47 @48366 has 49 MA's), (56, 48282),

Gene: Heathen_84 Start: 47262, Stop: 47092, Start Num: 36
Candidate Starts for Heathen_84:
(8, 47487), (12, 47418), (24, 47313), (Start: 32 @47286 has 28 MA's), (Start: 36 @47262 has 113 MA's), (Start: 42 @47235 has 76 MA's),

Gene: Heffalump_82 Start: 48737, Stop: 48600, Start Num: 46
Candidate Starts for Heffalump_82:
(Start: 46 @48737 has 61 MA's),

Gene: Helmet_88 Start: 46632, Stop: 46489, Start Num: 42
Candidate Starts for Helmet_88:
(33, 46671), (Start: 42 @46632 has 76 MA's), (Start: 46 @46620 has 61 MA's),

Gene: Hexamo_86 Start: 46185, Stop: 46042, Start Num: 42
Candidate Starts for Hexamo_86:

(33, 46224), (Start: 42 @46185 has 76 MA's), (Start: 46 @46173 has 61 MA's),

Gene: Holli_81 Start: 47856, Stop: 47686, Start Num: 36

Candidate Starts for Holli_81:

(Start: 36 @47856 has 113 MA's), (Start: 42 @47832 has 76 MA's), (55, 47739),

Gene: Hookmount_84 Start: 47227, Stop: 47063, Start Num: 32

Candidate Starts for Hookmount_84:

(17, 47287), (Start: 32 @47227 has 28 MA's), (55, 47113),

Gene: Hoot_80 Start: 44010, Stop: 43867, Start Num: 42

Candidate Starts for Hoot_80:

(33, 44049), (Start: 42 @44010 has 76 MA's), (Start: 46 @43998 has 61 MA's),

Gene: HortumSL17_90 Start: 48954, Stop: 48811, Start Num: 45

Candidate Starts for HortumSL17_90:

(30, 48993), (Start: 45 @48954 has 25 MA's), (Start: 47 @48945 has 49 MA's),

Gene: Houdini22_81 Start: 48043, Stop: 47897, Start Num: 42

Candidate Starts for Houdini22_81:

(Start: 36 @48067 has 113 MA's), (Start: 42 @48043 has 76 MA's),

Gene: Hutc2_85 Start: 46843, Stop: 46703, Start Num: 42

Candidate Starts for Hutc2_85:

(Start: 42 @46843 has 76 MA's), (Start: 46 @46831 has 61 MA's), (55, 46753),

Gene: ICleared_81 Start: 48134, Stop: 47964, Start Num: 36

Candidate Starts for ICleared_81:

(Start: 36 @48134 has 113 MA's), (Start: 42 @48110 has 76 MA's),

Gene: Iceman_80 Start: 48356, Stop: 48186, Start Num: 36

Candidate Starts for Iceman_80:

(Start: 36 @48356 has 113 MA's), (Start: 42 @48332 has 76 MA's), (55, 48239),

Gene: Indra_90 Start: 46633, Stop: 46490, Start Num: 42

Candidate Starts for Indra_90:

(33, 46672), (Start: 42 @46633 has 76 MA's), (Start: 46 @46621 has 61 MA's),

Gene: Insomnia_87 Start: 48125, Stop: 47997, Start Num: 46

Candidate Starts for Insomnia_87:

(Start: 42 @48137 has 76 MA's), (Start: 46 @48125 has 61 MA's), (55, 48047),

Gene: Iracema64_82 Start: 48330, Stop: 48160, Start Num: 36

Candidate Starts for Iracema64_82:

(Start: 36 @48330 has 113 MA's), (Start: 42 @48306 has 76 MA's),

Gene: IronMan_82 Start: 48859, Stop: 48722, Start Num: 47

Candidate Starts for IronMan_82:

(34, 48916), (Start: 47 @48859 has 49 MA's), (56, 48775),

Gene: Isca_80 Start: 46413, Stop: 46216, Start Num: 32

Candidate Starts for Isca_80:

(12, 46545), (24, 46440), (Start: 32 @46413 has 28 MA's), (Start: 36 @46389 has 113 MA's), (Start: 42 @46362 has 76 MA's),

Gene: Isiphiwo_81 Start: 45709, Stop: 45578, Start Num: 46
Candidate Starts for Isiphiwo_81:
(33, 45760), (Start: 42 @45721 has 76 MA's), (Start: 46 @45709 has 61 MA's),

Gene: Iwokeuplikedis_89 Start: 48834, Stop: 48700, Start Num: 47
Candidate Starts for Iwokeuplikedis_89:
(Start: 47 @48834 has 49 MA's),

Gene: Jaan_83 Start: 48967, Stop: 48830, Start Num: 47
Candidate Starts for Jaan_83:
(34, 49024), (Start: 47 @48967 has 49 MA's), (56, 48883),

Gene: Jabith_88 Start: 48151, Stop: 48011, Start Num: 42
Candidate Starts for Jabith_88:
(Start: 42 @48151 has 76 MA's), (Start: 46 @48139 has 61 MA's), (55, 48061),

Gene: Jaykayelowell_79 Start: 48059, Stop: 47889, Start Num: 36
Candidate Starts for Jaykayelowell_79:
(Start: 36 @48059 has 113 MA's), (Start: 42 @48035 has 76 MA's), (55, 47942),

Gene: Jeeves_86 Start: 46696, Stop: 46556, Start Num: 47
Candidate Starts for Jeeves_86:
(Start: 47 @46696 has 49 MA's),

Gene: Jerm_87 Start: 48918, Stop: 48784, Start Num: 46
Candidate Starts for Jerm_87:
(39, 48954), (Start: 46 @48918 has 61 MA's),

Gene: JetBlade_83 Start: 48094, Stop: 47924, Start Num: 36
Candidate Starts for JetBlade_83:
(Start: 36 @48094 has 113 MA's), (Start: 42 @48070 has 76 MA's), (55, 47977),

Gene: JewelBug_77 Start: 44488, Stop: 44333, Start Num: 42
Candidate Starts for JewelBug_77:
(33, 44527), (Start: 42 @44488 has 76 MA's), (Start: 46 @44476 has 61 MA's),

Gene: JoongJeon_81 Start: 48060, Stop: 47890, Start Num: 36
Candidate Starts for JoongJeon_81:
(Start: 36 @48060 has 113 MA's), (Start: 42 @48036 has 76 MA's),

Gene: Jordennis_83 Start: 46392, Stop: 46249, Start Num: 42
Candidate Starts for Jordennis_83:
(33, 46431), (Start: 42 @46392 has 76 MA's), (Start: 46 @46380 has 61 MA's),

Gene: Joselito_86 Start: 47845, Stop: 47717, Start Num: 46
Candidate Starts for Joselito_86:
(Start: 42 @47857 has 76 MA's), (Start: 46 @47845 has 61 MA's), (55, 47767),

Gene: JoshKayV_87 Start: 49086, Stop: 48952, Start Num: 46
Candidate Starts for JoshKayV_87:

(39, 49122), (Start: 46 @49086 has 61 MA's),

Gene: Jsquared_89 Start: 47958, Stop: 47821, Start Num: 44

Candidate Starts for Jsquared_89:

(Start: 44 @47958 has 12 MA's), (Start: 46 @47949 has 61 MA's), (53, 47919), (55, 47871),

Gene: KFPoly_81 Start: 48060, Stop: 47890, Start Num: 36

Candidate Starts for KFPoly_81:

(Start: 36 @48060 has 113 MA's), (Start: 42 @48036 has 76 MA's),

Gene: Kalpine_87 Start: 49082, Stop: 48948, Start Num: 47

Candidate Starts for Kalpine_87:

(Start: 45 @49091 has 25 MA's), (Start: 47 @49082 has 49 MA's), (56, 48998),

Gene: Kamy_81 Start: 48069, Stop: 47899, Start Num: 36

Candidate Starts for Kamy_81:

(Start: 36 @48069 has 113 MA's), (Start: 42 @48045 has 76 MA's),

Gene: Katalie136_78 Start: 47660, Stop: 47514, Start Num: 42

Candidate Starts for Katalie136_78:

(1, 48179), (3, 48077), (4, 47996), (Start: 36 @47684 has 113 MA's), (Start: 42 @47660 has 76 MA's), (55, 47567),

Gene: Kazan_86 Start: 46165, Stop: 46022, Start Num: 42

Candidate Starts for Kazan_86:

(33, 46204), (Start: 42 @46165 has 76 MA's), (Start: 46 @46153 has 61 MA's),

Gene: Kerberos_85 Start: 48101, Stop: 47973, Start Num: 46

Candidate Starts for Kerberos_85:

(13, 48275), (Start: 44 @48110 has 12 MA's), (Start: 46 @48101 has 61 MA's), (55, 48023),

Gene: Keziacharles14_86 Start: 49418, Stop: 49284, Start Num: 47

Candidate Starts for Keziacharles14_86:

(34, 49448), (Start: 47 @49418 has 49 MA's),

Gene: Kimona_82 Start: 46840, Stop: 46682, Start Num: 36

Candidate Starts for Kimona_82:

(Start: 36 @46840 has 113 MA's),

Gene: KingCyrus_84 Start: 49784, Stop: 49650, Start Num: 46

Candidate Starts for KingCyrus_84:

(19, 49910), (39, 49820), (Start: 46 @49784 has 61 MA's),

Gene: Kingmustik0402_82 Start: 48031, Stop: 47885, Start Num: 42

Candidate Starts for Kingmustik0402_82:

(Start: 36 @48055 has 113 MA's), (Start: 42 @48031 has 76 MA's),

Gene: Kipper29_85 Start: 46168, Stop: 46025, Start Num: 42

Candidate Starts for Kipper29_85:

(33, 46207), (Start: 42 @46168 has 76 MA's), (Start: 46 @46156 has 61 MA's),

Gene: Koduck_85 Start: 47288, Stop: 47160, Start Num: 46

Candidate Starts for Koduck_85:

(11, 47483), (20, 47387), (Start: 44 @47297 has 12 MA's), (Start: 46 @47288 has 61 MA's), (53, 47258), (55, 47210),

Gene: Koko_88 Start: 47022, Stop: 46879, Start Num: 42

Candidate Starts for Koko_88:

(33, 47061), (Start: 42 @47022 has 76 MA's), (Start: 46 @47010 has 61 MA's),

Gene: Koreni_81 Start: 47747, Stop: 47577, Start Num: 36

Candidate Starts for Koreni_81:

(Start: 36 @47747 has 113 MA's), (Start: 42 @47723 has 76 MA's),

Gene: Kratak_81 Start: 48100, Stop: 47930, Start Num: 36

Candidate Starts for Kratak_81:

(Start: 36 @48100 has 113 MA's), (Start: 42 @48076 has 76 MA's), (55, 47983),

Gene: Kremtemulon_76 Start: 47922, Stop: 47776, Start Num: 42

Candidate Starts for Kremtemulon_76:

(Start: 36 @47946 has 113 MA's), (Start: 42 @47922 has 76 MA's),

Gene: Kristoff_79 Start: 48111, Stop: 47938, Start Num: 32

Candidate Starts for Kristoff_79:

(17, 48171), (Start: 32 @48111 has 28 MA's), (Start: 36 @48087 has 113 MA's), (Start: 37 @48081 has 1 MA's), (55, 47991), (57, 47946),

Gene: Kyee_82 Start: 48061, Stop: 47891, Start Num: 36

Candidate Starts for Kyee_82:

(Start: 36 @48061 has 113 MA's), (Start: 42 @48037 has 76 MA's),

Gene: L5_78 Start: 47188, Stop: 47051, Start Num: 44

Candidate Starts for L5_78:

(11, 47374), (Start: 44 @47188 has 12 MA's), (Start: 46 @47179 has 61 MA's), (53, 47149), (55, 47101),

Gene: LHTSCC_84 Start: 48506, Stop: 48336, Start Num: 36

Candidate Starts for LHTSCC_84:

(Start: 36 @48506 has 113 MA's), (Start: 42 @48482 has 76 MA's), (55, 48389),

Gene: LadyBird_89 Start: 49008, Stop: 48874, Start Num: 46

Candidate Starts for LadyBird_89:

(39, 49044), (Start: 46 @49008 has 61 MA's),

Gene: Lambert1_84 Start: 47228, Stop: 47064, Start Num: 32

Candidate Starts for Lambert1_84:

(17, 47288), (Start: 32 @47228 has 28 MA's), (55, 47114),

Gene: Landor_83 Start: 48892, Stop: 48755, Start Num: 47

Candidate Starts for Landor_83:

(34, 48949), (Start: 47 @48892 has 49 MA's), (56, 48808),

Gene: LappelDuVide_78 Start: 48066, Stop: 47896, Start Num: 36

Candidate Starts for LappelDuVide_78:

(Start: 36 @48066 has 113 MA's), (Start: 42 @48042 has 76 MA's), (55, 47949),

Gene: Larenn_83 Start: 48362, Stop: 48228, Start Num: 47
Candidate Starts for Larenn_83:
(31, 48407), (Start: 45 @48371 has 25 MA's), (Start: 47 @48362 has 49 MA's), (56, 48278),

Gene: Lemur_82 Start: 48063, Stop: 47893, Start Num: 36
Candidate Starts for Lemur_82:
(Start: 36 @48063 has 113 MA's), (Start: 42 @48039 has 76 MA's), (55, 47946),

Gene: Leviathan_87 Start: 48999, Stop: 48865, Start Num: 46
Candidate Starts for Leviathan_87:
(39, 49035), (Start: 46 @48999 has 61 MA's),

Gene: LilTurb_86 Start: 48795, Stop: 48661, Start Num: 46
Candidate Starts for LilTurb_86:
(39, 48831), (Start: 46 @48795 has 61 MA's),

Gene: Lilbunny_84 Start: 46252, Stop: 46121, Start Num: 46
Candidate Starts for Lilbunny_84:
(33, 46303), (Start: 42 @46264 has 76 MA's), (Start: 46 @46252 has 61 MA's),

Gene: LittleB_82 Start: 48067, Stop: 47897, Start Num: 36
Candidate Starts for LittleB_82:
(Start: 36 @48067 has 113 MA's), (Start: 42 @48043 has 76 MA's),

Gene: LittleGuy_82 Start: 47957, Stop: 47784, Start Num: 36
Candidate Starts for LittleGuy_82:
(Start: 36 @47957 has 113 MA's), (Start: 42 @47930 has 76 MA's), (55, 47837),

Gene: LochMonster_83 Start: 48303, Stop: 48133, Start Num: 36
Candidate Starts for LochMonster_83:
(Start: 36 @48303 has 113 MA's), (Start: 42 @48279 has 76 MA's),

Gene: Lokk_80 Start: 46874, Stop: 46737, Start Num: 47
Candidate Starts for Lokk_80:
(10, 47090), (30, 46922), (Start: 45 @46883 has 25 MA's), (Start: 47 @46874 has 49 MA's),

Gene: LoneWolf_89 Start: 48940, Stop: 48806, Start Num: 47
Candidate Starts for LoneWolf_89:
(30, 48988), (Start: 47 @48940 has 49 MA's),

Gene: Lorenzo_82 Start: 48064, Stop: 47894, Start Num: 36
Candidate Starts for Lorenzo_82:
(Start: 36 @48064 has 113 MA's), (Start: 42 @48040 has 76 MA's),

Gene: Loser_88 Start: 49259, Stop: 49116, Start Num: 45
Candidate Starts for Loser_88:
(Start: 45 @49259 has 25 MA's), (Start: 47 @49250 has 49 MA's), (52, 49223), (56, 49166),

Gene: Luchador_84 Start: 47960, Stop: 47817, Start Num: 47
Candidate Starts for Luchador_84:
(Start: 47 @47960 has 49 MA's), (56, 47876),

Gene: Lucivia_89 Start: 48124, Stop: 47996, Start Num: 46

Candidate Starts for Lucivia_89:
(Start: 42 @48136 has 76 MA's), (Start: 46 @48124 has 61 MA's), (55, 48046),

Gene: Lucyedi_85 Start: 48143, Stop: 48006, Start Num: 44
Candidate Starts for Lucyedi_85:
(Start: 44 @48143 has 12 MA's), (Start: 46 @48134 has 61 MA's), (55, 48056),

Gene: Lunsford_82 Start: 48059, Stop: 47889, Start Num: 36
Candidate Starts for Lunsford_82:
(Start: 36 @48059 has 113 MA's), (Start: 42 @48035 has 76 MA's), (55, 47942),

Gene: MA5_82 Start: 46285, Stop: 46112, Start Num: 36
Candidate Starts for MA5_82:
(17, 46369), (26, 46330), (Start: 36 @46285 has 113 MA's), (Start: 42 @46258 has 76 MA's),

Gene: MaCh_88 Start: 48100, Stop: 47960, Start Num: 42
Candidate Starts for MaCh_88:
(Start: 42 @48100 has 76 MA's), (Start: 46 @48088 has 61 MA's), (55, 48010),

Gene: Mabel_88 Start: 48101, Stop: 47961, Start Num: 42
Candidate Starts for Mabel_88:
(Start: 42 @48101 has 76 MA's), (Start: 46 @48089 has 61 MA's), (55, 48011),

Gene: Malec_84 Start: 48932, Stop: 48798, Start Num: 47
Candidate Starts for Malec_84:
(Start: 45 @48941 has 25 MA's), (Start: 47 @48932 has 49 MA's), (56, 48848),

Gene: Maminiaina_88 Start: 48860, Stop: 48723, Start Num: 47
Candidate Starts for Maminiaina_88:
(Start: 45 @48869 has 25 MA's), (Start: 47 @48860 has 49 MA's),

Gene: Margo_84 Start: 47253, Stop: 47089, Start Num: 32
Candidate Starts for Margo_84:
(17, 47313), (Start: 32 @47253 has 28 MA's), (55, 47139),

Gene: Maverick_81 Start: 48063, Stop: 47893, Start Num: 36
Candidate Starts for Maverick_81:
(Start: 36 @48063 has 113 MA's), (Start: 42 @48039 has 76 MA's),

Gene: Maxo_84 Start: 48069, Stop: 47899, Start Num: 36
Candidate Starts for Maxo_84:
(Start: 36 @48069 has 113 MA's), (Start: 42 @48045 has 76 MA's),

Gene: Mazhar510_82 Start: 48064, Stop: 47894, Start Num: 36
Candidate Starts for Mazhar510_82:
(Start: 36 @48064 has 113 MA's), (Start: 42 @48040 has 76 MA's),

Gene: McFly_85 Start: 46492, Stop: 46361, Start Num: 46
Candidate Starts for McFly_85:
(33, 46543), (Start: 42 @46504 has 76 MA's), (Start: 46 @46492 has 61 MA's),

Gene: Medusa_81 Start: 48079, Stop: 47909, Start Num: 36
Candidate Starts for Medusa_81:

(Start: 36 @48079 has 113 MA's), (Start: 42 @48055 has 76 MA's),

Gene: MeeZee_81 Start: 48036, Stop: 47890, Start Num: 42

Candidate Starts for MeeZee_81:

(Start: 36 @48060 has 113 MA's), (Start: 42 @48036 has 76 MA's),

Gene: Melvin_84 Start: 48061, Stop: 47891, Start Num: 36

Candidate Starts for Melvin_84:

(Start: 36 @48061 has 113 MA's), (Start: 42 @48037 has 76 MA's),

Gene: MiculUcigas_85 Start: 48068, Stop: 47925, Start Num: 45

Candidate Starts for MiculUcigas_85:

(Start: 45 @48068 has 25 MA's), (Start: 47 @48059 has 49 MA's), (56, 47975),

Gene: Miko_80 Start: 47639, Stop: 47502, Start Num: 47

Candidate Starts for Miko_80:

(5, 47933), (10, 47855), (30, 47687), (Start: 45 @47648 has 25 MA's), (Start: 47 @47639 has 49 MA's),

Gene: Millski_81 Start: 48067, Stop: 47897, Start Num: 36

Candidate Starts for Millski_81:

(Start: 36 @48067 has 113 MA's), (Start: 42 @48043 has 76 MA's),

Gene: Miramae_82 Start: 47982, Stop: 47812, Start Num: 36

Candidate Starts for Miramae_82:

(Start: 36 @47982 has 113 MA's), (Start: 42 @47958 has 76 MA's), (55, 47865),

Gene: MissWhite_78 Start: 44927, Stop: 44793, Start Num: 47

Candidate Starts for MissWhite_78:

(Start: 45 @44936 has 25 MA's), (Start: 47 @44927 has 49 MA's), (56, 44843),

Gene: Morpher26_78 Start: 47705, Stop: 47535, Start Num: 36

Candidate Starts for Morpher26_78:

(1, 48200), (3, 48098), (4, 48017), (Start: 36 @47705 has 113 MA's), (Start: 42 @47681 has 76 MA's),

Gene: Morrow_84 Start: 48106, Stop: 47936, Start Num: 36

Candidate Starts for Morrow_84:

(Start: 36 @48106 has 113 MA's), (Start: 42 @48082 has 76 MA's), (55, 47989),

Gene: Mulciber_87 Start: 47956, Stop: 47816, Start Num: 42

Candidate Starts for Mulciber_87:

(Start: 42 @47956 has 76 MA's), (Start: 46 @47944 has 61 MA's), (55, 47866),

Gene: Munch_87 Start: 48093, Stop: 47965, Start Num: 46

Candidate Starts for Munch_87:

(Start: 42 @48105 has 76 MA's), (Start: 46 @48093 has 61 MA's), (55, 48015),

Gene: Mundrea_80 Start: 47944, Stop: 47774, Start Num: 36

Candidate Starts for Mundrea_80:

(Start: 36 @47944 has 113 MA's), (Start: 42 @47920 has 76 MA's), (55, 47827),

Gene: Myxus_89 Start: 48954, Stop: 48811, Start Num: 45

Candidate Starts for Myxus_89:

(30, 48993), (Start: 45 @48954 has 25 MA's), (Start: 47 @48945 has 49 MA's),

Gene: NaSiaTalie_86 Start: 48355, Stop: 48212, Start Num: 45

Candidate Starts for NaSiaTalie_86:

(Start: 45 @48355 has 25 MA's), (Start: 47 @48346 has 49 MA's), (56, 48262),

Gene: Nebs_83 Start: 48106, Stop: 47936, Start Num: 36

Candidate Starts for Nebs_83:

(Start: 36 @48106 has 113 MA's), (Start: 42 @48082 has 76 MA's),

Gene: Neeharika16_84 Start: 46254, Stop: 46111, Start Num: 42

Candidate Starts for Neeharika16_84:

(33, 46293), (Start: 42 @46254 has 76 MA's), (Start: 46 @46242 has 61 MA's),

Gene: Nemo27_81 Start: 48038, Stop: 47892, Start Num: 42

Candidate Starts for Nemo27_81:

(Start: 36 @48062 has 113 MA's), (Start: 42 @48038 has 76 MA's),

Gene: Newrala_84 Start: 46600, Stop: 46457, Start Num: 42

Candidate Starts for Newrala_84:

(33, 46639), (Start: 42 @46600 has 76 MA's), (Start: 46 @46588 has 61 MA's),

Gene: NicoleTera_83 Start: 48277, Stop: 48140, Start Num: 47

Candidate Starts for NicoleTera_83:

(Start: 45 @48286 has 25 MA's), (Start: 47 @48277 has 49 MA's),

Gene: Noella_85 Start: 47229, Stop: 47065, Start Num: 32

Candidate Starts for Noella_85:

(17, 47289), (Start: 32 @47229 has 28 MA's), (55, 47115),

Gene: Noelle_79 Start: 47911, Stop: 47741, Start Num: 36

Candidate Starts for Noelle_79:

(Start: 36 @47911 has 113 MA's), (Start: 42 @47887 has 76 MA's), (55, 47794),

Gene: Norbert_80 Start: 47226, Stop: 47062, Start Num: 32

Candidate Starts for Norbert_80:

(17, 47286), (Start: 32 @47226 has 28 MA's), (55, 47112),

Gene: NorthStar_79 Start: 48042, Stop: 47896, Start Num: 42

Candidate Starts for NorthStar_79:

(Start: 36 @48066 has 113 MA's), (Start: 42 @48042 has 76 MA's),

Gene: NotAPhaseMom_81 Start: 48043, Stop: 47897, Start Num: 42

Candidate Starts for NotAPhaseMom_81:

(Start: 36 @48067 has 113 MA's), (Start: 42 @48043 has 76 MA's),

Gene: NothingSpecial_80 Start: 48222, Stop: 48079, Start Num: 45

Candidate Starts for NothingSpecial_80:

(23, 48312), (28, 48288), (Start: 45 @48222 has 25 MA's), (Start: 47 @48213 has 49 MA's),

Gene: Nyxis_81 Start: 47951, Stop: 47778, Start Num: 36

Candidate Starts for Nyxis_81:

(Start: 36 @47951 has 113 MA's), (Start: 42 @47924 has 76 MA's), (55, 47831),

Gene: OKCentral2016_80 Start: 46884, Stop: 46744, Start Num: 37
Candidate Starts for OKCentral2016_80:
(9, 47082), (17, 46974), (Start: 32 @46914 has 28 MA's), (Start: 36 @46890 has 113 MA's), (Start: 37 @46884 has 1 MA's), (55, 46794),

Gene: OKaNui_81 Start: 48117, Stop: 47947, Start Num: 36
Candidate Starts for OKaNui_81:
(Start: 36 @48117 has 113 MA's), (Start: 42 @48093 has 76 MA's),

Gene: Obama12_83 Start: 48466, Stop: 48320, Start Num: 42
Candidate Starts for Obama12_83:
(Start: 36 @48490 has 113 MA's), (Start: 42 @48466 has 76 MA's), (55, 48373),

Gene: Odin_84 Start: 47817, Stop: 47680, Start Num: 44
Candidate Starts for Odin_84:
(Start: 44 @47817 has 12 MA's), (Start: 46 @47808 has 61 MA's), (53, 47778), (55, 47730),

Gene: Ohfah_83 Start: 48106, Stop: 47936, Start Num: 36
Candidate Starts for Ohfah_83:
(Start: 36 @48106 has 113 MA's), (Start: 42 @48082 has 76 MA's),

Gene: Orange_88 Start: 47655, Stop: 47515, Start Num: 42
Candidate Starts for Orange_88:
(Start: 42 @47655 has 76 MA's), (Start: 46 @47643 has 61 MA's), (55, 47565),

Gene: PackMan_84 Start: 46868, Stop: 46725, Start Num: 45
Candidate Starts for PackMan_84:
(30, 46907), (Start: 45 @46868 has 25 MA's), (Start: 47 @46859 has 49 MA's),

Gene: Palestino_81 Start: 48063, Stop: 47893, Start Num: 36
Candidate Starts for Palestino_81:
(Start: 36 @48063 has 113 MA's), (Start: 42 @48039 has 76 MA's),

Gene: PeaceMeal1_78 Start: 46844, Stop: 46671, Start Num: 32
Candidate Starts for PeaceMeal1_78:
(9, 47012), (17, 46904), (Start: 32 @46844 has 28 MA's), (Start: 36 @46820 has 113 MA's), (55, 46724),

Gene: Peaches_80 Start: 48071, Stop: 47898, Start Num: 36
Candidate Starts for Peaches_80:
(Start: 36 @48071 has 113 MA's), (Start: 42 @48044 has 76 MA's), (55, 47951),

Gene: Perplexer_78 Start: 47685, Stop: 47515, Start Num: 36
Candidate Starts for Perplexer_78:
(1, 48180), (3, 48078), (4, 47997), (Start: 36 @47685 has 113 MA's), (Start: 42 @47661 has 76 MA's), (55, 47568),

Gene: PeterPeter_82 Start: 48060, Stop: 47890, Start Num: 36
Candidate Starts for PeterPeter_82:
(Start: 36 @48060 has 113 MA's), (Start: 42 @48036 has 76 MA's),

Gene: Petersenfast_82 Start: 46524, Stop: 46396, Start Num: 46

Candidate Starts for Petersenfast_82:

(Start: 42 @46536 has 76 MA's), (Start: 46 @46524 has 61 MA's), (55, 46446),

Gene: PetiteSangsue_78 Start: 47688, Stop: 47518, Start Num: 36

Candidate Starts for PetiteSangsue_78:

(1, 48183), (2, 48087), (3, 48081), (4, 48000), (Start: 36 @47688 has 113 MA's), (Start: 42 @47664 has 76 MA's), (55, 47571),

Gene: Ph8s_86 Start: 47599, Stop: 47462, Start Num: 45

Candidate Starts for Ph8s_86:

(18, 47695), (Start: 45 @47599 has 25 MA's), (56, 47512),

Gene: Phabba_146 Start: 88539, Stop: 88682, Start Num: 43

Candidate Starts for Phabba_146:

(Start: 43 @88539 has 1 MA's), (Start: 49 @88551 has 5 MA's),

Gene: Phacado_82 Start: 48062, Stop: 47892, Start Num: 36

Candidate Starts for Phacado_82:

(Start: 36 @48062 has 113 MA's), (Start: 42 @48038 has 76 MA's),

Gene: Phaded_79 Start: 48851, Stop: 48714, Start Num: 47

Candidate Starts for Phaded_79:

(Start: 47 @48851 has 49 MA's), (56, 48767),

Gene: Phaeder_89 Start: 48820, Stop: 48686, Start Num: 47

Candidate Starts for Phaeder_89:

(30, 48868), (Start: 45 @48829 has 25 MA's), (Start: 47 @48820 has 49 MA's),

Gene: Phantastic_85 Start: 46741, Stop: 46544, Start Num: 32

Candidate Starts for Phantastic_85:

(12, 46873), (24, 46768), (Start: 32 @46741 has 28 MA's), (Start: 36 @46717 has 113 MA's), (Start: 42 @46690 has 76 MA's),

Gene: Phelipe_82 Start: 48027, Stop: 47857, Start Num: 36

Candidate Starts for Phelipe_82:

(Start: 36 @48027 has 113 MA's), (Start: 42 @48003 has 76 MA's),

Gene: Phighter1804_82 Start: 48127, Stop: 47957, Start Num: 36

Candidate Starts for Phighter1804_82:

(Start: 36 @48127 has 113 MA's), (Start: 42 @48103 has 76 MA's),

Gene: Phlei_71 Start: 45865, Stop: 45713, Start Num: 40

Candidate Starts for Phlei_71:

(40, 45865), (Start: 46 @45844 has 61 MA's), (50, 45832), (58, 45721),

Gene: Phonnegut_89 Start: 48832, Stop: 48698, Start Num: 47

Candidate Starts for Phonnegut_89:

(30, 48880), (Start: 45 @48841 has 25 MA's), (Start: 47 @48832 has 49 MA's),

Gene: Phontbonne_82 Start: 47967, Stop: 47794, Start Num: 36

Candidate Starts for Phontbonne_82:

(Start: 36 @47967 has 113 MA's), (Start: 42 @47940 has 76 MA's), (55, 47847),

Gene: Pioneer_89 Start: 48832, Stop: 48698, Start Num: 47
Candidate Starts for Pioneer_89:
(30, 48880), (Start: 45 @48841 has 25 MA's), (Start: 47 @48832 has 49 MA's),

Gene: Pipcraft_78 Start: 48067, Stop: 47897, Start Num: 36
Candidate Starts for Pipcraft_78:
(Start: 36 @48067 has 113 MA's), (Start: 42 @48043 has 76 MA's),

Gene: Piro94_84 Start: 48303, Stop: 48160, Start Num: 45
Candidate Starts for Piro94_84:
(Start: 45 @48303 has 25 MA's), (Start: 47 @48294 has 49 MA's), (56, 48210),

Gene: Pistachio_85 Start: 47064, Stop: 46921, Start Num: 42
Candidate Starts for Pistachio_85:
(8, 47316), (9, 47289), (12, 47247), (24, 47142), (27, 47133), (Start: 32 @47115 has 28 MA's), (Start: 36 @47091 has 113 MA's), (Start: 42 @47064 has 76 MA's),

Gene: Pmask_84 Start: 46789, Stop: 46658, Start Num: 46
Candidate Starts for Pmask_84:
(33, 46840), (Start: 42 @46801 has 76 MA's), (Start: 46 @46789 has 61 MA's),

Gene: Pocahontas_83 Start: 47224, Stop: 47060, Start Num: 32
Candidate Starts for Pocahontas_83:
(17, 47284), (Start: 32 @47224 has 28 MA's), (55, 47110),

Gene: Polymorphads_83 Start: 48087, Stop: 47917, Start Num: 36
Candidate Starts for Polymorphads_83:
(Start: 36 @48087 has 113 MA's), (Start: 42 @48063 has 76 MA's), (55, 47970),

Gene: Pomar16_85 Start: 48174, Stop: 48046, Start Num: 46
Candidate Starts for Pomar16_85:
(13, 48348), (Start: 44 @48183 has 12 MA's), (Start: 46 @48174 has 61 MA's), (55, 48096),

Gene: Poompha_78 Start: 46842, Stop: 46669, Start Num: 32
Candidate Starts for Poompha_78:
(9, 47010), (17, 46902), (27, 46860), (Start: 32 @46842 has 28 MA's), (Start: 36 @46818 has 113 MA's), (55, 46722),

Gene: Popcicle_84 Start: 47224, Stop: 47060, Start Num: 32
Candidate Starts for Popcicle_84:
(17, 47284), (Start: 32 @47224 has 28 MA's), (55, 47110),

Gene: Power_85 Start: 48860, Stop: 48723, Start Num: 46
Candidate Starts for Power_85:
(Start: 46 @48860 has 61 MA's),

Gene: Priamo_86 Start: 46033, Stop: 45902, Start Num: 46
Candidate Starts for Priamo_86:
(33, 46084), (Start: 42 @46045 has 76 MA's), (Start: 46 @46033 has 61 MA's),

Gene: Priya_87 Start: 48604, Stop: 48470, Start Num: 47
Candidate Starts for Priya_87:
(30, 48652), (Start: 45 @48613 has 25 MA's), (Start: 47 @48604 has 49 MA's),

Gene: Pukovnik_80 Start: 48328, Stop: 48182, Start Num: 45
Candidate Starts for Pukovnik_80:
(Start: 45 @48328 has 25 MA's), (Start: 47 @48319 has 49 MA's),

Gene: Pumbaa_82 Start: 48011, Stop: 47841, Start Num: 36
Candidate Starts for Pumbaa_82:
(Start: 36 @48011 has 113 MA's), (Start: 42 @47987 has 76 MA's), (55, 47894),

Gene: Pupper_190 Start: 134729, Stop: 134872, Start Num: 42
Candidate Starts for Pupper_190:
(Start: 42 @134729 has 76 MA's),

Gene: Puppy_86 Start: 47134, Stop: 46991, Start Num: 42
Candidate Starts for Puppy_86:
(8, 47386), (9, 47359), (12, 47317), (24, 47212), (27, 47203), (Start: 32 @47185 has 28 MA's), (Start: 36 @47161 has 113 MA's), (Start: 42 @47134 has 76 MA's),

Gene: Qobbit_87 Start: 48566, Stop: 48432, Start Num: 47
Candidate Starts for Qobbit_87:
(30, 48614), (Start: 45 @48575 has 25 MA's), (Start: 47 @48566 has 49 MA's),

Gene: QueenB2_82 Start: 47950, Stop: 47813, Start Num: 46
Candidate Starts for QueenB2_82:
(Start: 46 @47950 has 61 MA's),

Gene: QueenBeesly_85 Start: 48657, Stop: 48520, Start Num: 46
Candidate Starts for QueenBeesly_85:
(Start: 46 @48657 has 61 MA's),

Gene: QuinnKiro_83 Start: 47227, Stop: 47063, Start Num: 32
Candidate Starts for QuinnKiro_83:
(17, 47287), (Start: 32 @47227 has 28 MA's), (55, 47113),

Gene: Rachaly_82 Start: 47782, Stop: 47645, Start Num: 47
Candidate Starts for Rachaly_82:
(5, 48076), (10, 47998), (30, 47830), (Start: 45 @47791 has 25 MA's), (Start: 47 @47782 has 49 MA's),

Gene: Rahalelujah_88 Start: 48358, Stop: 48230, Start Num: 48
Candidate Starts for Rahalelujah_88:
(Start: 45 @48367 has 25 MA's), (Start: 48 @48358 has 3 MA's),

Gene: Rebeuca_82 Start: 48112, Stop: 47939, Start Num: 32
Candidate Starts for Rebeuca_82:
(17, 48172), (Start: 32 @48112 has 28 MA's), (Start: 36 @48088 has 113 MA's), (Start: 37 @48082 has 1 MA's), (55, 47992), (57, 47947),

Gene: RedRock_85 Start: 48903, Stop: 48769, Start Num: 47
Candidate Starts for RedRock_85:
(Start: 45 @48912 has 25 MA's), (Start: 47 @48903 has 49 MA's), (52, 48876), (56, 48819),

Gene: Refuge_87 Start: 50587, Stop: 50444, Start Num: 42

Candidate Starts for Refuge_87:
(Start: 42 @50587 has 76 MA's), (Start: 46 @50578 has 61 MA's),

Gene: Relief_81 Start: 48039, Stop: 47893, Start Num: 42
Candidate Starts for Relief_81:
(Start: 36 @48063 has 113 MA's), (Start: 42 @48039 has 76 MA's),

Gene: ResDef_82 Start: 47230, Stop: 47066, Start Num: 32
Candidate Starts for ResDef_82:
(17, 47290), (Start: 32 @47230 has 28 MA's), (55, 47116),

Gene: Retro23_85 Start: 48378, Stop: 48244, Start Num: 47
Candidate Starts for Retro23_85:
(30, 48426), (Start: 45 @48387 has 25 MA's), (Start: 47 @48378 has 49 MA's),

Gene: RhynO_69 Start: 43547, Stop: 43377, Start Num: 32
Candidate Starts for RhynO_69:
(27, 43565), (Start: 32 @43547 has 28 MA's), (Start: 36 @43523 has 113 MA's), (55, 43427),

Gene: Rifter_87 Start: 45812, Stop: 45669, Start Num: 42
Candidate Starts for Rifter_87:
(33, 45851), (Start: 42 @45812 has 76 MA's), (Start: 46 @45800 has 61 MA's),

Gene: Roksolana_87 Start: 46528, Stop: 46385, Start Num: 42
Candidate Starts for Roksolana_87:
(33, 46567), (Start: 42 @46528 has 76 MA's), (Start: 46 @46516 has 61 MA's),

Gene: Romney_81 Start: 48063, Stop: 47893, Start Num: 36
Candidate Starts for Romney_81:
(Start: 36 @48063 has 113 MA's), (Start: 42 @48039 has 76 MA's),

Gene: Ronaldo_142 Start: 66482, Stop: 66613, Start Num: 49
Candidate Starts for Ronaldo_142:
(Start: 49 @66482 has 5 MA's), (53, 66512),

Gene: Roosevelt_80 Start: 48068, Stop: 47898, Start Num: 36
Candidate Starts for Roosevelt_80:
(Start: 36 @48068 has 113 MA's), (Start: 42 @48044 has 76 MA's), (55, 47951),

Gene: Ruin_82 Start: 48059, Stop: 47889, Start Num: 36
Candidate Starts for Ruin_82:
(Start: 36 @48059 has 113 MA's), (Start: 42 @48035 has 76 MA's),

Gene: SCentae_189 Start: 134921, Stop: 135064, Start Num: 42
Candidate Starts for SCentae_189:
(Start: 42 @134921 has 76 MA's),

Gene: Sabertooth_82 Start: 48071, Stop: 47901, Start Num: 36
Candidate Starts for Sabertooth_82:
(Start: 36 @48071 has 113 MA's), (Start: 42 @48047 has 76 MA's),

Gene: Salz_84 Start: 46753, Stop: 46625, Start Num: 46
Candidate Starts for Salz_84:

(Start: 42 @46765 has 76 MA's), (Start: 46 @46753 has 61 MA's), (55, 46675),

Gene: SaturnRing_86 Start: 47517, Stop: 47374, Start Num: 42

Candidate Starts for SaturnRing_86:

(8, 47769), (9, 47742), (12, 47700), (24, 47595), (27, 47586), (Start: 32 @47568 has 28 MA's), (Start: 36 @47544 has 113 MA's), (Start: 42 @47517 has 76 MA's),

Gene: Scamp_82 Start: 48068, Stop: 47898, Start Num: 36

Candidate Starts for Scamp_82:

(Start: 36 @48068 has 113 MA's), (Start: 42 @48044 has 76 MA's),

Gene: Scherzo_87 Start: 48864, Stop: 48730, Start Num: 47

Candidate Starts for Scherzo_87:

(30, 48912), (Start: 45 @48873 has 25 MA's), (Start: 47 @48864 has 49 MA's),

Gene: Scout_84 Start: 46725, Stop: 46555, Start Num: 36

Candidate Starts for Scout_84:

(8, 46950), (12, 46881), (24, 46776), (Start: 32 @46749 has 28 MA's), (Start: 36 @46725 has 113 MA's), (Start: 42 @46698 has 76 MA's),

Gene: SemperFi_85 Start: 48545, Stop: 48408, Start Num: 46

Candidate Starts for SemperFi_85:

(Start: 46 @48545 has 61 MA's),

Gene: Serenity_88 Start: 47747, Stop: 47619, Start Num: 46

Candidate Starts for Serenity_88:

(Start: 44 @47756 has 12 MA's), (Start: 46 @47747 has 61 MA's), (53, 47717), (55, 47669),

Gene: Severus_79 Start: 46842, Stop: 46669, Start Num: 32

Candidate Starts for Severus_79:

(9, 47010), (17, 46902), (Start: 32 @46842 has 28 MA's), (Start: 36 @46818 has 113 MA's), (55, 46722),

Gene: Shaka_80 Start: 48064, Stop: 47894, Start Num: 36

Candidate Starts for Shaka_80:

(Start: 36 @48064 has 113 MA's), (Start: 42 @48040 has 76 MA's), (55, 47947),

Gene: Sham4_85 Start: 46851, Stop: 46711, Start Num: 42

Candidate Starts for Sham4_85:

(Start: 42 @46851 has 76 MA's), (Start: 46 @46839 has 61 MA's), (55, 46761),

Gene: SheaKeira_84 Start: 48104, Stop: 47970, Start Num: 47

Candidate Starts for SheaKeira_84:

(15, 48224), (23, 48179), (30, 48152), (Start: 45 @48113 has 25 MA's), (Start: 47 @48104 has 49 MA's),

Gene: Sheen_80 Start: 50105, Stop: 49956, Start Num: 38

Candidate Starts for Sheen_80:

(Start: 38 @50105 has 1 MA's), (51, 50063),

Gene: SheldonCooper_82 Start: 48480, Stop: 48334, Start Num: 42

Candidate Starts for SheldonCooper_82:

(Start: 36 @48504 has 113 MA's), (Start: 42 @48480 has 76 MA's),

Gene: Shygu2_80 Start: 48010, Stop: 47840, Start Num: 36
Candidate Starts for Shygu2_80:
(Start: 36 @48010 has 113 MA's), (Start: 42 @47986 has 76 MA's), (55, 47893),

Gene: Skipitt_81 Start: 48036, Stop: 47890, Start Num: 42
Candidate Starts for Skipitt_81:
(Start: 36 @48060 has 113 MA's), (Start: 42 @48036 has 76 MA's),

Gene: Skog_22 Start: 10918, Stop: 11064, Start Num: 42
Candidate Starts for Skog_22:
(6, 10645), (7, 10654), (Start: 42 @10918 has 76 MA's),

Gene: Smeagan_88 Start: 49090, Stop: 48956, Start Num: 46
Candidate Starts for Smeagan_88:
(39, 49126), (Start: 46 @49090 has 61 MA's),

Gene: SmellyB_85 Start: 46159, Stop: 46016, Start Num: 42
Candidate Starts for SmellyB_85:
(33, 46198), (Start: 42 @46159 has 76 MA's), (Start: 46 @46147 has 61 MA's),

Gene: SnapTap_85 Start: 48516, Stop: 48379, Start Num: 46
Candidate Starts for SnapTap_85:
(Start: 46 @48516 has 61 MA's),

Gene: Snape_88 Start: 47644, Stop: 47504, Start Num: 42
Candidate Starts for Snape_88:
(Start: 42 @47644 has 76 MA's), (Start: 46 @47632 has 61 MA's), (55, 47554),

Gene: SororFago_84 Start: 47898, Stop: 47755, Start Num: 47
Candidate Starts for SororFago_84:
(Start: 47 @47898 has 49 MA's),

Gene: Sparxx_83 Start: 48062, Stop: 47892, Start Num: 36
Candidate Starts for Sparxx_83:
(Start: 36 @48062 has 113 MA's), (Start: 42 @48038 has 76 MA's), (55, 47945),

Gene: Spino_81 Start: 48066, Stop: 47896, Start Num: 36
Candidate Starts for Spino_81:
(Start: 36 @48066 has 113 MA's), (Start: 42 @48042 has 76 MA's),

Gene: Spouty_84 Start: 48612, Stop: 48469, Start Num: 45
Candidate Starts for Spouty_84:
(30, 48651), (Start: 45 @48612 has 25 MA's), (Start: 47 @48603 has 49 MA's),

Gene: StarStuff_85 Start: 48145, Stop: 48008, Start Num: 44
Candidate Starts for StarStuff_85:
(13, 48310), (Start: 44 @48145 has 12 MA's), (Start: 46 @48136 has 61 MA's), (55, 48058),

Gene: Stasia_79 Start: 48019, Stop: 47846, Start Num: 32
Candidate Starts for Stasia_79:
(20, 48067), (22, 48055), (27, 48037), (Start: 32 @48019 has 28 MA's), (Start: 36 @47995 has 113 MA's),

Gene: Steamy_84 Start: 49557, Stop: 49414, Start Num: 42
Candidate Starts for Steamy_84:
(18, 49653), (23, 49623), (30, 49596), (Start: 42 @49557 has 76 MA's), (Start: 46 @49548 has 61 MA's),

Gene: Stink_82 Start: 48266, Stop: 48120, Start Num: 42
Candidate Starts for Stink_82:
(Start: 36 @48290 has 113 MA's), (Start: 42 @48266 has 76 MA's), (55, 48173),

Gene: SuperAwesome_85 Start: 46840, Stop: 46697, Start Num: 42
Candidate Starts for SuperAwesome_85:
(33, 46879), (Start: 42 @46840 has 76 MA's), (Start: 46 @46828 has 61 MA's),

Gene: SuperCallie99_81 Start: 46210, Stop: 46079, Start Num: 46
Candidate Starts for SuperCallie99_81:
(33, 46261), (Start: 42 @46222 has 76 MA's), (Start: 46 @46210 has 61 MA's),

Gene: Superchunk_85 Start: 47335, Stop: 47207, Start Num: 46
Candidate Starts for Superchunk_85:
(Start: 44 @47344 has 12 MA's), (Start: 46 @47335 has 61 MA's), (53, 47305), (55, 47257),

Gene: SweetiePie_85 Start: 48649, Stop: 48512, Start Num: 46
Candidate Starts for SweetiePie_85:
(Start: 46 @48649 has 61 MA's),

Gene: SwirlSquare_88 Start: 47074, Stop: 46937, Start Num: 45
Candidate Starts for SwirlSquare_88:
(Start: 45 @47074 has 25 MA's), (56, 46987),

Gene: TNguyen7_86 Start: 47526, Stop: 47332, Start Num: 32
Candidate Starts for TNguyen7_86:
(8, 47727), (9, 47700), (12, 47658), (24, 47553), (27, 47544), (Start: 32 @47526 has 28 MA's), (Start: 36 @47502 has 113 MA's), (Start: 42 @47475 has 76 MA's),

Gene: Taquarus_81 Start: 48075, Stop: 47902, Start Num: 36
Candidate Starts for Taquarus_81:
(Start: 36 @48075 has 113 MA's), (Start: 42 @48048 has 76 MA's), (55, 47955),

Gene: TarsusIV_84 Start: 48539, Stop: 48402, Start Num: 47
Candidate Starts for TarsusIV_84:
(30, 48587), (Start: 45 @48548 has 25 MA's), (Start: 47 @48539 has 49 MA's),

Gene: Texage_82 Start: 47228, Stop: 47064, Start Num: 32
Candidate Starts for Texage_82:
(17, 47288), (Start: 32 @47228 has 28 MA's), (55, 47114),

Gene: Thanksgivukkah_81 Start: 48064, Stop: 47894, Start Num: 36
Candidate Starts for Thanksgivukkah_81:
(Start: 36 @48064 has 113 MA's), (Start: 42 @48040 has 76 MA's),

Gene: Thonko_95 Start: 65603, Stop: 65454, Start Num: 44
Candidate Starts for Thonko_95:

(Start: 44 @65603 has 12 MA's),

Gene: Timothy_88 Start: 47609, Stop: 47481, Start Num: 46

Candidate Starts for Timothy_88:

(Start: 42 @47621 has 76 MA's), (Start: 46 @47609 has 61 MA's), (55, 47531),

Gene: Timshel_79 Start: 49897, Stop: 49745, Start Num: 41

Candidate Starts for Timshel_79:

(14, 50053), (21, 49984), (Start: 41 @49897 has 1 MA's), (Start: 49 @49876 has 5 MA's),

Gene: TinaFeyge_80 Start: 48061, Stop: 47891, Start Num: 36

Candidate Starts for TinaFeyge_80:

(Start: 36 @48061 has 113 MA's), (Start: 42 @48037 has 76 MA's), (55, 47944),

Gene: TinyTimmy_86 Start: 47338, Stop: 47210, Start Num: 46

Candidate Starts for TinyTimmy_86:

(Start: 42 @47350 has 76 MA's), (Start: 46 @47338 has 61 MA's), (55, 47260),

Gene: Tinybot_81 Start: 48093, Stop: 47923, Start Num: 36

Candidate Starts for Tinybot_81:

(Start: 36 @48093 has 113 MA's), (Start: 42 @48069 has 76 MA's), (55, 47976),

Gene: TipsytheTRex_84 Start: 47758, Stop: 47621, Start Num: 44

Candidate Starts for TipsytheTRex_84:

(Start: 44 @47758 has 12 MA's), (Start: 46 @47749 has 61 MA's), (53, 47719), (55, 47671),

Gene: TiroTheta9_81 Start: 48060, Stop: 47890, Start Num: 36

Candidate Starts for TiroTheta9_81:

(Start: 36 @48060 has 113 MA's), (Start: 42 @48036 has 76 MA's), (55, 47943),

Gene: Toaka_87 Start: 48704, Stop: 48573, Start Num: 47

Candidate Starts for Toaka_87:

(19, 48803), (Start: 47 @48704 has 49 MA's),

Gene: Todacoro_84 Start: 47227, Stop: 47063, Start Num: 32

Candidate Starts for Todacoro_84:

(17, 47287), (Start: 32 @47227 has 28 MA's), (55, 47113),

Gene: Tomathan_85 Start: 48214, Stop: 48086, Start Num: 46

Candidate Starts for Tomathan_85:

(13, 48388), (Start: 44 @48223 has 12 MA's), (Start: 46 @48214 has 61 MA's), (55, 48136),

Gene: ToneTone_84 Start: 46180, Stop: 46049, Start Num: 46

Candidate Starts for ToneTone_84:

(33, 46231), (Start: 42 @46192 has 76 MA's), (Start: 46 @46180 has 61 MA's),

Gene: Topanga_71 Start: 44568, Stop: 44395, Start Num: 32

Candidate Starts for Topanga_71:

(Start: 32 @44568 has 28 MA's), (Start: 36 @44544 has 113 MA's), (55, 44448),

Gene: Trixie_85 Start: 49116, Stop: 48976, Start Num: 42

Candidate Starts for Trixie_85:

(Start: 42 @49116 has 76 MA's), (Start: 46 @49104 has 61 MA's), (55, 49026),

Gene: Trooper_84 Start: 48107, Stop: 47961, Start Num: 45
Candidate Starts for Trooper_84:
(Start: 45 @48107 has 25 MA's), (Start: 47 @48098 has 49 MA's),

Gene: TroyPia_83 Start: 48101, Stop: 47931, Start Num: 36
Candidate Starts for TroyPia_83:
(Start: 36 @48101 has 113 MA's), (Start: 42 @48077 has 76 MA's),

Gene: Tubs_89 Start: 48829, Stop: 48686, Start Num: 45
Candidate Starts for Tubs_89:
(30, 48868), (Start: 45 @48829 has 25 MA's), (Start: 47 @48820 has 49 MA's),

Gene: Tucker_87 Start: 46383, Stop: 46252, Start Num: 46
Candidate Starts for Tucker_87:
(33, 46434), (Start: 42 @46395 has 76 MA's), (Start: 46 @46383 has 61 MA's),

Gene: Turbido_86 Start: 48811, Stop: 48677, Start Num: 46
Candidate Starts for Turbido_86:
(39, 48847), (Start: 46 @48811 has 61 MA's),

Gene: Twister_82 Start: 47776, Stop: 47606, Start Num: 32
Candidate Starts for Twister_82:
(27, 47794), (Start: 32 @47776 has 28 MA's), (Start: 36 @47752 has 113 MA's), (Start: 37 @47746 has 1 MA's), (55, 47656), (57, 47611),

Gene: TygerBlood_82 Start: 48042, Stop: 47896, Start Num: 42
Candidate Starts for TygerBlood_82:
(Start: 36 @48066 has 113 MA's), (Start: 42 @48042 has 76 MA's),

Gene: Ugenie5_76 Start: 46308, Stop: 46174, Start Num: 47
Candidate Starts for Ugenie5_76:
(30, 46356), (Start: 45 @46317 has 25 MA's), (Start: 47 @46308 has 49 MA's),

Gene: Ulysses_81 Start: 47749, Stop: 47579, Start Num: 36
Candidate Starts for Ulysses_81:
(Start: 36 @47749 has 113 MA's), (Start: 42 @47725 has 76 MA's),

Gene: Updawg_86 Start: 48341, Stop: 48207, Start Num: 47
Candidate Starts for Updawg_86:
(Start: 45 @48350 has 25 MA's), (Start: 47 @48341 has 49 MA's), (56, 48257),

Gene: VA6_85 Start: 48439, Stop: 48305, Start Num: 46
Candidate Starts for VA6_85:
(39, 48475), (Start: 46 @48439 has 61 MA's),

Gene: VC3_83 Start: 47045, Stop: 46908, Start Num: 44
Candidate Starts for VC3_83:
(13, 47204), (Start: 44 @47045 has 12 MA's), (Start: 46 @47036 has 61 MA's), (55, 46958),

Gene: Vanisoa_84 Start: 49036, Stop: 48905, Start Num: 47
Candidate Starts for Vanisoa_84:
(18, 49141), (23, 49111), (Start: 45 @49045 has 25 MA's), (Start: 47 @49036 has 49 MA's),

Gene: Veracruz_81 Start: 47228, Stop: 47064, Start Num: 32

Candidate Starts for Veracruz_81:

(17, 47288), (Start: 32 @47228 has 28 MA's), (55, 47114),

Gene: VohminGhazi_85 Start: 46160, Stop: 46017, Start Num: 42

Candidate Starts for VohminGhazi_85:

(33, 46199), (Start: 42 @46160 has 76 MA's), (Start: 46 @46148 has 61 MA's),

Gene: Volt_145 Start: 66646, Stop: 66777, Start Num: 49

Candidate Starts for Volt_145:

(Start: 49 @66646 has 5 MA's), (53, 66676),

Gene: WalterMcMickey_81 Start: 47776, Stop: 47606, Start Num: 32

Candidate Starts for WalterMcMickey_81:

(27, 47794), (Start: 32 @47776 has 28 MA's), (Start: 36 @47752 has 113 MA's), (Start: 37 @47746 has 1 MA's), (55, 47656), (57, 47611),

Gene: Wander_82 Start: 48060, Stop: 47890, Start Num: 36

Candidate Starts for Wander_82:

(Start: 36 @48060 has 113 MA's), (Start: 42 @48036 has 76 MA's),

Gene: WeiHuaDA_87 Start: 49366, Stop: 49232, Start Num: 47

Candidate Starts for WeiHuaDA_87:

(Start: 45 @49375 has 25 MA's), (Start: 47 @49366 has 49 MA's), (56, 49282),

Gene: WideWale_86 Start: 48350, Stop: 48207, Start Num: 45

Candidate Starts for WideWale_86:

(Start: 45 @48350 has 25 MA's), (Start: 47 @48341 has 49 MA's), (56, 48257),

Gene: Wiks_86 Start: 46263, Stop: 46120, Start Num: 42

Candidate Starts for Wiks_86:

(33, 46302), (Start: 42 @46263 has 76 MA's), (Start: 46 @46251 has 61 MA's),

Gene: Wilbur_82 Start: 48063, Stop: 47893, Start Num: 36

Candidate Starts for Wilbur_82:

(Start: 36 @48063 has 113 MA's), (Start: 42 @48039 has 76 MA's),

Gene: Wile_77 Start: 47714, Stop: 47544, Start Num: 36

Candidate Starts for Wile_77:

(1, 48209), (3, 48107), (4, 48026), (Start: 36 @47714 has 113 MA's), (Start: 42 @47690 has 76 MA's),

Gene: Wizard007_78 Start: 47440, Stop: 47270, Start Num: 36

Candidate Starts for Wizard007_78:

(1, 47935), (3, 47833), (4, 47752), (Start: 36 @47440 has 113 MA's), (Start: 42 @47416 has 76 MA's), (55, 47323),

Gene: WunderPhul_87 Start: 46261, Stop: 46118, Start Num: 42

Candidate Starts for WunderPhul_87:

(33, 46300), (Start: 42 @46261 has 76 MA's), (Start: 46 @46249 has 61 MA's),

Gene: Xena_78 Start: 47885, Stop: 47715, Start Num: 36

Candidate Starts for Xena_78:

(Start: 36 @47885 has 113 MA's), (Start: 42 @47861 has 76 MA's), (55, 47768),

Gene: XianYue_84 Start: 48596, Stop: 48459, Start Num: 46

Candidate Starts for XianYue_84:

(39, 48632), (Start: 46 @48596 has 61 MA's),

Gene: Yecey3_90 Start: 48586, Stop: 48443, Start Num: 45

Candidate Starts for Yecey3_90:

(Start: 45 @48586 has 25 MA's), (Start: 47 @48577 has 49 MA's),

Gene: YoSam321_82 Start: 48061, Stop: 47891, Start Num: 36

Candidate Starts for YoSam321_82:

(Start: 36 @48061 has 113 MA's), (Start: 42 @48037 has 76 MA's), (55, 47944),

Gene: Yokurt_86 Start: 46251, Stop: 46120, Start Num: 46

Candidate Starts for Yokurt_86:

(33, 46302), (Start: 42 @46263 has 76 MA's), (Start: 46 @46251 has 61 MA's),

Gene: Zaka_87 Start: 46251, Stop: 46120, Start Num: 46

Candidate Starts for Zaka_87:

(33, 46302), (Start: 42 @46263 has 76 MA's), (Start: 46 @46251 has 61 MA's),

Gene: Ziko_144 Start: 66950, Stop: 67081, Start Num: 49

Candidate Starts for Ziko_144:

(Start: 49 @66950 has 5 MA's), (53, 66980),

Gene: Zimmer_86 Start: 50022, Stop: 49876, Start Num: 42

Candidate Starts for Zimmer_86:

(23, 50088), (Start: 42 @50022 has 76 MA's), (Start: 46 @50010 has 61 MA's), (50, 49995),

Gene: Zulu_88 Start: 46641, Stop: 46498, Start Num: 42

Candidate Starts for Zulu_88:

(33, 46680), (Start: 42 @46641 has 76 MA's), (Start: 46 @46629 has 61 MA's),