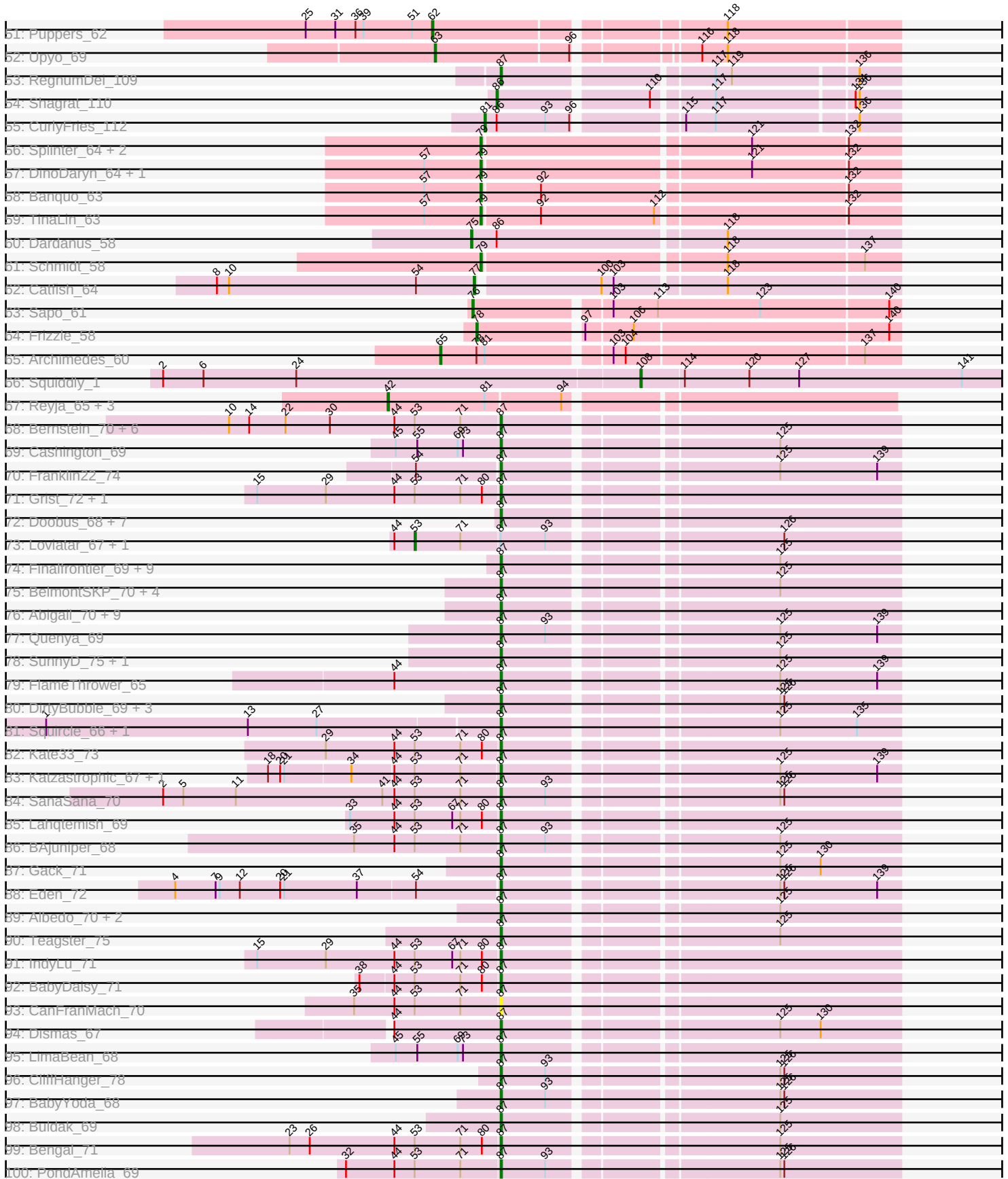


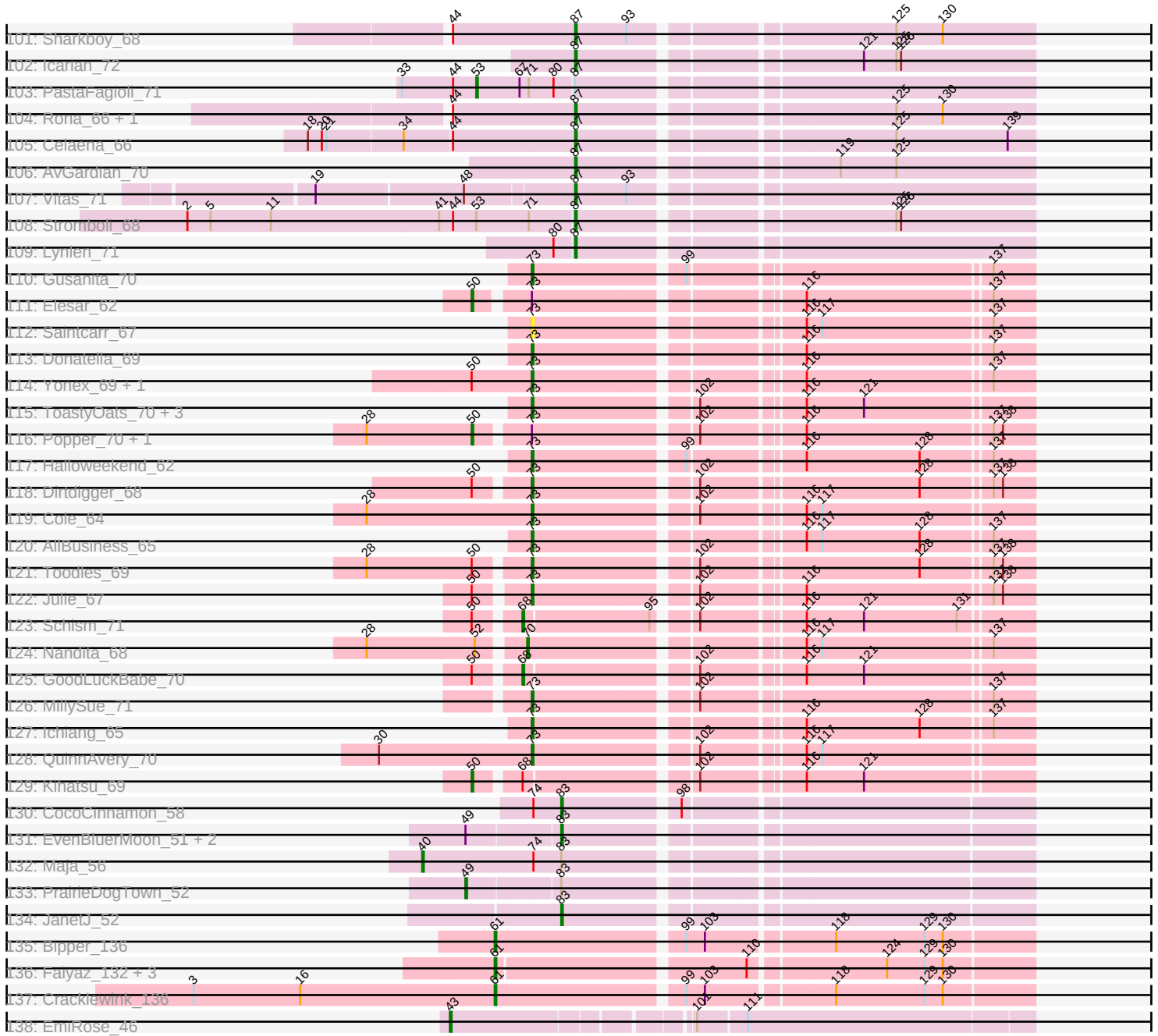
Pham 330418



Pham 330418



Pham 330418



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 330418 Report

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

Pham number 330418 has 282 members, 17 are drafts.

Phages represented in each track:

- Track 1 : Bodacious_61, CristinaYang_61, Nancia_61, LilStuart_60, Lasagna_59
- Track 2 : Korra_62, Savage2526_61, Potatoes_62, BrotherBLo_62, Cholula_62, Carpal_61, Zorro_62, TattModd_61, Rozby_60, Immaculata_62, Kalizoi_62, Riverdale_61, Beethoven_63, Wawa_62
- Track 3 : Chridison_57, Supakev_60
- Track 4 : Greenhouse_61, Albanese_61
- Track 5 : Vulture_60, HunterDalle_60
- Track 6 : PitaDog_61, Christian_61
- Track 7 : Misaeng_61
- Track 8 : RcigaStruga_62
- Track 9 : Bennie_63
- Track 10 : Pumanacara_61, PinkFriday_61
- Track 11 : BigMack_61
- Track 12 : Pterodactyl_61, Lennox_61, Makoto_60, WonderBoy_59, ChewChew_61, OurGirlNessie_59
- Track 13 : PartyCup_62, Wayne_64, Suppi_62, Graynor_65, Canowicakte_62, MrBoss_63
- Track 14 : Scuttle_61, MrGloopy_62, RAP15_63, Glenn_64, Vallejo_62, Fluke_62, Dino_62, MeganNoll_63
- Track 15 : Eunoia_62, Aledel_60, AustinPowers_60, OMalley_60, Riovina_60
- Track 16 : CallieOMalley_62, Litotes_62
- Track 17 : Herb_60, Maria1952_59, KingBob_60, Daiboju_60, Sergei_60, Temper16_60
- Track 18 : Huntingdon_61
- Track 19 : Kittykat_65, Preamble_64
- Track 20 : Huckleberry_62, Moki_62, HeadNerd_62
- Track 21 : MamaPearl_60, EstebanJulior_60, Ura_62
- Track 22 : Gisselle_61, DreamTeam_61
- Track 23 : Lucy_60, DrRobert_59
- Track 24 : GreenHearts_62, Lakshmi_61
- Track 25 : Joann_63, Oxyfrieus_62
- Track 26 : Nubia_61
- Track 27 : AppleCider_61
- Track 28 : Jumboset_62
- Track 29 : Abidatro_66
- Track 30 : Basilisk_66
- Track 31 : Chicken_65, Niblet_63

- Track 32 : TaylorSipht_65
- Track 33 : Vulpecula_64
- Track 34 : Orcanus_65
- Track 35 : Chickaboom_66, Brynnie_64, WileyE_66
- Track 36 : Galaxy_65
- Track 37 : Eesa_65, Amanises_68, Zixiang_65
- Track 38 : Toad24_68, KendraB23_76
- Track 39 : Ruchi_64
- Track 40 : Jamun_63
- Track 41 : LittleTokyo_73, Cygnet_73
- Track 42 : Antrice_75
- Track 43 : Zhuangyuan_77
- Track 44 : Laphuphu24k_68, KHumphrey_70, Glotell_71, Rattail_71, Juno112_69, DanHam62_70, Fingolfin_71, PhluffyCoco_68, AmiCi24_68, Amphitrite_69, Camara_69, RedFox_71, Atlantica_70, AdoptaAdorbs_68, HamCheese_69, Oppalora_68
- Track 45 : Leona_68, Azaz_71
- Track 46 : Renna12_72
- Track 47 : AlexMinion_69, StuartMinion_61
- Track 48 : Babushka_66
- Track 49 : Mahdia_60
- Track 50 : Widow_62
- Track 51 : Puppies_62
- Track 52 : Upyo_69
- Track 53 : RegnumDei_109
- Track 54 : Shagrat_110
- Track 55 : CurlyFries_112
- Track 56 : Splinter_64, TZGordon_65, Vendetta_64
- Track 57 : DinoDaryn_64, Huffy_64
- Track 58 : Banquo_63
- Track 59 : TinaLin_63
- Track 60 : Dardanus_58
- Track 61 : Schmidt_58
- Track 62 : Catfish_64
- Track 63 : Sapo_61
- Track 64 : Frizzle_58
- Track 65 : Archimedes_60
- Track 66 : Squiddly_1
- Track 67 : Reyja_65, DinoNuggets_64, Hibiscus_63, Jojo24_63
- Track 68 : Bernstein_70, Skylord_70, Brahms_70, Clayda5_72, Coltrane_70, Rollins_70, Armstrong_70
- Track 69 : Cashington_69
- Track 70 : Franklin22_74
- Track 71 : Grist_72, Didgeridoo_75
- Track 72 : Doobus_68, Albright_69, Milomuff_72, Softsoap_71, BubbaBear_68, Solea_73, DickRichards_68, Avocadoman_69
- Track 73 : Loviatar_67, Akino08_66
- Track 74 : Finalfrontier_69, Eula_69, TukTuk_70, Pecas_70, Jovita_68, Nicky22_69, AylexOG_71, Swervy_70, Lilo27_70, Slay_70
- Track 75 : BelmontSKP_70, PhigPhack_73, Arroyo_71, AnnaLie_70, SansAfet_72
- Track 76 : Abigail_70, CupcakePrincess_71, MsUbiquitous_71, Jabb_71, QMacho_72, Johnathan_70, SarBear_72, Phisb_72, Burritobowl_72, CroZenni_71
- Track 77 : Quenya_69

- Track 78 : SunnyD_75, Shayna_75
- Track 79 : FlameThrower_65
- Track 80 : DirtyBubble_69, Elva_73, Stoor_69, WalkingDead_71
- Track 81 : Squircle_66, Olliecat_66
- Track 82 : Kate33_73
- Track 83 : Katzastrophic_67, Bachaco_66
- Track 84 : SanaSana_70
- Track 85 : Lahqtemish_69
- Track 86 : BAjuniper_68
- Track 87 : Gack_71
- Track 88 : Eden_72
- Track 89 : Albedo_70, Kenzers_69, SirBeanington_70
- Track 90 : Teagster_75
- Track 91 : IndyLu_71
- Track 92 : BabyDaisy_71
- Track 93 : CanFranMach_70
- Track 94 : Dismas_67
- Track 95 : LimaBean_68
- Track 96 : CliffHanger_78
- Track 97 : BabyYoda_68
- Track 98 : Buldak_69
- Track 99 : Bengal_71
- Track 100 : PondAmelia_69
- Track 101 : Sharkboy_68
- Track 102 : Icarian_72
- Track 103 : PastaFagioli_71
- Track 104 : Rona_66, Kieran_65
- Track 105 : Celaena_66
- Track 106 : AvGardian_70
- Track 107 : Vitas_71
- Track 108 : Stromboli_68
- Track 109 : Lynlen_71
- Track 110 : Gusanita_70
- Track 111 : Elesar_62
- Track 112 : Saintcarr_67
- Track 113 : Donatella_69
- Track 114 : Yonex_69, Ryan_70
- Track 115 : ToastyOats_70, Lenoxika_66, Zaheer_69, Guinevere_71
- Track 116 : Popper_70, IsHungry_64
- Track 117 : Halloweekend_62
- Track 118 : Dirtdigger_68
- Track 119 : Cole_64
- Track 120 : AllBusiness_65
- Track 121 : Toodles_69
- Track 122 : Julie_67
- Track 123 : Schism_71
- Track 124 : Nandita_68
- Track 125 : GoodLuckBabe_70
- Track 126 : MillySue_71
- Track 127 : Ichiang_65
- Track 128 : QuinnAvery_70
- Track 129 : Kihatsu_69
- Track 130 : CocoCinnamon_58

- Track 131 : EvenBluerMoon_51, Hereford_52, Aoka_54
- Track 132 : Maja_56
- Track 133 : PrairieDogTown_52
- Track 134 : JanetJ_52
- Track 135 : Bipper_136
- Track 136 : Faiyaz_132, Hilltopfarm_134, AuntGwenStacy_130, Typha_129
- Track 137 : Cracklewink_136
- Track 138 : EmiRose_46

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

The start number called the most often in the published annotations is 87, it was called in 80 of the 265 non-draft genes in the pham.

Genes that call this "Most Annotated" start:

- Abigail_70, Albedo_70, Albright_69, AnnaLie_70, Armstrong_70, Arroyo_71, AvGardian_70, Avocadoman_69, AylexOG_71, BAjuniper_68, BabyDaisy_71, BabyYoda_68, Bachaco_66, BelmontSKP_70, Bengal_71, Bernstein_70, Brahms_70, BubbaBear_68, Buldak_69, Burritobowl_72, CanFranMach_70, Cashington_69, Celaena_66, Clayda5_72, CliffHanger_78, Coltrane_70, CroZenni_71, CupcakePrincess_71, DickRichards_68, Didgeridoo_75, DirtyBubble_69, Dismas_67, Doobus_68, Eden_72, Elva_73, Eula_69, Finalfrontier_69, FlameThrower_65, Franklin22_74, Gack_71, Grist_72, Icarian_72, IndyLu_71, Jabb_71, Johnathan_70, Jovita_68, Kate33_73, Katzastrophic_67, Kenzers_69, Kieran_65, Lahqtemish_69, Lilo27_70, LimaBean_68, Lynlen_71, Milomuff_72, MsUbiquitous_71, Nicky22_69, Olliecat_66, Pecas_70, PhigPhack_73, Phisb_72, PondAmelia_69, QMacho_72, Quenya_69, RegnumDei_109, Rollins_70, Rona_66, SanaSana_70, SansAfet_72, SarBear_72, Sharkboy_68, Shayna_75, SirBeanington_70, Skylord_70, Slay_70, Softsoap_71, Solea_73, Squirrel_66, Stoor_69, Stromboli_68, SunnyD_75, Swervy_70, Teagster_75, TukTuk_70, Vitas_71, WalkingDead_71,

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

- Akino08_66, Loviatar_67, PastaFagioli_71,

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

- Abidatro_66, AdoptaAdorbs_68, Albanese_61, Aledel_60, AlexMinion_69, AllBusiness_65, Amanises_68, AmiCi24_68, Amphitrite_69, Antrice_75, Aoka_54, AppleCider_61, Archimedes_60, Atlantica_70, AuntGwenStacy_130, AustinPowers_60, Azaz_71, Babushka_66, Banquo_63, Basilisk_66, Beethoven_63, Bennie_63, BigMack_61, Bipper_136, Bodacious_61, BrotherBLo_62, Brynnie_64, CallieOMalley_62, Camara_69, Canowicakte_62, Carpal_61, Catfish_64, ChewChew_61, Chickaboom_66, Chicken_65, Cholula_62, Chridison_57, Christian_61, CocoCinnamon_58, Cole_64, Cracklewink_136, CristinaYang_61, CurlyFries_112, Cygnet_73, Daiboju_60, DanHam62_70, Dardanus_58, DinoDaryn_64, DinoNuggets_64, Dino_62, DirtDigger_68, Donatella_69, DrRobert_59, DreamTeam_61, Eesa_65, Elesar_62, EmiRose_46, EstebanJulior_60, Eunoia_62, EvenBluerMoon_51, Faiyaz_132, Fingolfin_71, Fluke_62, Frizzle_58, Galaxy_65, Gisselle_61, Glenn_64, Glotell_71, GoodLuckBabe_70, Graynor_65, GreenHearts_62, Greenhouse_61, Guinevere_71, Gusanita_70, HalloweenWeekend_62, HamCheese_69, HeadNerd_62, Herb_60, Hereford_52, Hibiscus_63,

Hilltopfarm_134, Huckleberry_62, Huffy_64, HunterDalle_60, Huntingdon_61, Ichiang_65, Immaculata_62, IsHungry_64, Jamun_63, JanetJ_52, Joann_63, Jojo24_63, Julie_67, Jumboset_62, Juno112_69, KHumphrey_70, Kalizoi_62, KendraB23_76, Kihatsu_69, KingBob_60, Kittykat_65, Korra_62, Lakshmi_61, Laphuphu24k_68, Lasagna_59, Lennox_61, Lenoxika_66, Leona_68, LilStuart_60, Litotes_62, LittleTokyo_73, Lucy_60, Mahdia_60, Maja_56, Makoto_60, MamaPearl_60, Maria1952_59, MeganNoll_63, MillySue_71, Misaeng_61, Moki_62, MrBoss_63, MrGloopy_62, Nancia_61, Nandita_68, Niblet_63, Nubia_61, OMalley_60, Oppalora_68, Orcanus_65, OurGirlNessie_59, Oxyfrieus_62, PartyCup_62, PhluffyCoco_68, PinkFriday_61, PitaDog_61, Popper_70, Potatoes_62, PrairieDogTown_52, Preamble_64, Pterodactyl_61, Pumancara_61, Puppies_62, QuinnAvery_70, RAP15_63, Rattail_71, RcigaStruga_62, RedFox_71, Renna12_72, Reyja_65, Riovina_60, Riverdale_61, Rozby_60, Ruchi_64, Ryan_70, Saintcarr_67, Sapo_61, Savage2526_61, Schism_71, Schmidt_58, Scuttle_61, Sergei_60, Shagrat_110, Splinter_64, Squiddly_1, StuartMinion_61, Supakev_60, Suppi_62, TZGordon_65, TattModd_61, TaylorSipht_65, Temper16_60, TinaLin_63, Toad24_68, ToastyOats_70, Toodles_69, Typha_129, Upyo_69, Urla_62, Vallejo_62, Vendetta_64, Vulpecula_64, Vulture_60, Wawa_62, Wayne_64, Widow_62, WileyE_66, WonderBoy_59, Yonex_69, Zaheer_69, Zhuangyuan_77, Zixiang_65, Zorro_62,

Summary by start number:

Start 40:

- Found in 1 of 282 (0.4%) of genes in pham
- Manual Annotations of this start: 1 of 265
- Called 100.0% of time when present
- Phage (with cluster) where this start called: Maja_56 (FO),

Start 42:

- Found in 6 of 282 (2.1%) of genes in pham
- Manual Annotations of this start: 3 of 265
- Called 66.7% of time when present
- Phage (with cluster) where this start called: DinoNuggs_64 (DY), Hibiscus_63 (DY), Jojo24_63 (DY), Reyja_65 (DY),

Start 43:

- Found in 1 of 282 (0.4%) of genes in pham
- Manual Annotations of this start: 1 of 265
- Called 100.0% of time when present
- Phage (with cluster) where this start called: EmiRose_46 (singleton),

Start 49:

- Found in 4 of 282 (1.4%) of genes in pham
- Manual Annotations of this start: 1 of 265
- Called 25.0% of time when present
- Phage (with cluster) where this start called: PrairieDogTown_52 (FO),

Start 50:

- Found in 12 of 282 (4.3%) of genes in pham
- Manual Annotations of this start: 4 of 265
- Called 33.3% of time when present

- Phage (with cluster) where this start called: Elesar_62 (FF), IsHungry_64 (FF), Kihatsu_69 (FF), Popper_70 (FF),

Start 53:

- Found in 24 of 282 (8.5%) of genes in pham
- Manual Annotations of this start: 3 of 265
- Called 12.5% of time when present
- Phage (with cluster) where this start called: Akino08_66 (EB), Loviatar_67 (EB), PastaFagioli_71 (EB),

Start 56:

- Found in 9 of 282 (3.2%) of genes in pham
- Manual Annotations of this start: 2 of 265
- Called 22.2% of time when present
- Phage (with cluster) where this start called: HunterDalle_60 (AK), Vulture_60 (AK),

Start 58:

- Found in 1 of 282 (0.4%) of genes in pham
- Manual Annotations of this start: 1 of 265
- Called 100.0% of time when present
- Phage (with cluster) where this start called: Mahdia_60 (CD),

Start 61:

- Found in 6 of 282 (2.1%) of genes in pham
- Manual Annotations of this start: 6 of 265
- Called 100.0% of time when present
- Phage (with cluster) where this start called: AuntGwenStacy_130 (Y), Bipper_136 (Y), Cracklewink_136 (Y), Faiyaz_132 (Y), Hilltopfarm_134 (Y), Typha_129 (Y),

Start 62:

- Found in 2 of 282 (0.7%) of genes in pham
- Manual Annotations of this start: 2 of 265
- Called 100.0% of time when present
- Phage (with cluster) where this start called: Puppies_62 (CD), Widow_62 (CD),

Start 63:

- Found in 2 of 282 (0.7%) of genes in pham
- Manual Annotations of this start: 1 of 265
- Called 50.0% of time when present
- Phage (with cluster) where this start called: Upyo_69 (CD),

Start 65:

- Found in 1 of 282 (0.4%) of genes in pham
- Manual Annotations of this start: 1 of 265
- Called 100.0% of time when present
- Phage (with cluster) where this start called: Archimedes_60 (DA),

Start 68:

- Found in 3 of 282 (1.1%) of genes in pham
- Manual Annotations of this start: 2 of 265
- Called 66.7% of time when present
- Phage (with cluster) where this start called: GoodLuckBabe_70 (FF), Schism_71 (FF),

Start 70:

- Found in 1 of 282 (0.4%) of genes in pham
- Manual Annotations of this start: 1 of 265
- Called 100.0% of time when present
- Phage (with cluster) where this start called: Nandita_68 (FF),

Start 73:

- Found in 31 of 282 (11.0%) of genes in pham
- Manual Annotations of this start: 15 of 265
- Called 58.1% of time when present
- Phage (with cluster) where this start called: AllBusiness_65 (FF), Cole_64 (FF), Dirdigger_68 (FF), Donatella_69 (FF), Guinevere_71 (FF), Gusanita_70 (FF), Halloweekend_62 (FF), Ichiang_65 (FF), Julie_67 (FF), Lenoxika_66 (FF), MillySue_71 (FF), QuinnAvery_70 (FF), Ryan_70 (FF), Saintcarr_67 (FF), ToastyOats_70 (FF), Toodles_69 (FF), Yonex_69 (FF), Zaheer_69 (FF),

Start 74:

- Found in 6 of 282 (2.1%) of genes in pham
- Manual Annotations of this start: 4 of 265
- Called 66.7% of time when present
- Phage (with cluster) where this start called: AlexMinion_69 (AS3), Babushka_66 (AS3), Renna12_72 (AS3), StuartMinion_61 (AS3),

Start 75:

- Found in 17 of 282 (6.0%) of genes in pham
- Manual Annotations of this start: 13 of 265
- Called 100.0% of time when present
- Phage (with cluster) where this start called: AdoptaAdorbs_68 (AS3), AmiCi24_68 (AS3), Amphitrite_69 (AS3), Atlantica_70 (AS3), Camara_69 (AS3), DanHam62_70 (AS3), Dardanus_58 (CU3), Fingolfin_71 (AS3), Glotell_71 (AS3), HamCheese_69 (AS3), Juno112_69 (AS3), KHumphrey_70 (AS3), Laphuphu24k_68 (AS3), Oppalora_68 (AS3), PhluffyCoco_68 (AS3), Rattail_71 (AS3), RedFox_71 (AS3),

Start 76:

- Found in 8 of 282 (2.8%) of genes in pham
- Manual Annotations of this start: 2 of 265
- Called 25.0% of time when present
- Phage (with cluster) where this start called: Basilisk_66 (AS1), Sapo_61 (DA),

Start 77:

- Found in 1 of 282 (0.4%) of genes in pham
- Manual Annotations of this start: 1 of 265
- Called 100.0% of time when present
- Phage (with cluster) where this start called: Catfish_64 (CU5),

Start 78:

- Found in 3 of 282 (1.1%) of genes in pham
- Manual Annotations of this start: 1 of 265
- Called 33.3% of time when present
- Phage (with cluster) where this start called: Frizzle_58 (DA),

Start 79:

- Found in 8 of 282 (2.8%) of genes in pham
- Manual Annotations of this start: 8 of 265
- Called 100.0% of time when present
- Phage (with cluster) where this start called: Banquo_63 (CU1), DinoDaryn_64 (CU1), Huffy_64 (CU1), Schmidt_58 (CU4), Splinter_64 (CU1), TZGordon_65 (CU1), TinaLin_63 (CU1), Vendetta_64 (CU1),

Start 80:

- Found in 11 of 282 (3.9%) of genes in pham
- Manual Annotations of this start: 2 of 265
- Called 18.2% of time when present
- Phage (with cluster) where this start called: Azaz_71 (AS3), Leona_68 (AS3),

Start 81:

- Found in 6 of 282 (2.1%) of genes in pham
- Manual Annotations of this start: 1 of 265
- Called 16.7% of time when present
- Phage (with cluster) where this start called: CurlyFries_112 (CF),

Start 82:

- Found in 3 of 282 (1.1%) of genes in pham
- Manual Annotations of this start: 1 of 265
- Called 33.3% of time when present
- Phage (with cluster) where this start called: Huntingdon_61 (AK),

Start 83:

- Found in 29 of 282 (10.3%) of genes in pham
- Manual Annotations of this start: 25 of 265
- Called 89.7% of time when present
- Phage (with cluster) where this start called: Abidatro_66 (AS1), Amanises_68 (AS1), Antrice_75 (AS2), Aoka_54 (FO), Brynnie_64 (AS1), Chickaboom_66 (AS1), Chicken_65 (AS1), CocoCinnamon_58 (FO), Cygnet_73 (AS2), Eesa_65 (AS1), EvenBluerMoon_51 (FO), Galaxy_65 (AS1), Hereford_52 (FO), Jamun_63 (AS1), JanetJ_52 (FO), KendraB23_76 (AS1), LittleTokyo_73 (AS2), Niblet_63 (AS1), Orcanus_65 (AS1), Ruchi_64 (AS1), TaylorSipht_65 (AS1), Toad24_68 (AS1), Vulpecula_64 (AS1), WileyE_66 (AS1), Zhuangyuan_77 (AS2), Zixiang_65 (AS1),

Start 84:

- Found in 47 of 282 (16.7%) of genes in pham
- Manual Annotations of this start: 13 of 265
- Called 27.7% of time when present
- Phage (with cluster) where this start called: Bennie_63 (AK), Christian_61 (AK), Dino_62 (AK), DrRobert_59 (AK), Fluke_62 (AK), Glenn_64 (AK), Lucy_60 (AK), MeganNoll_63 (AK), MrGloopy_62 (AK), PitaDog_61 (AK), RAP15_63 (AK), Scuttle_61 (AK), Vallejo_62 (AK),

Start 85:

- Found in 8 of 282 (2.8%) of genes in pham
- Manual Annotations of this start: 4 of 265
- Called 75.0% of time when present
- Phage (with cluster) where this start called: Canowicakte_62 (AK), Graynor_65 (AK), MrBoss_63 (AK), PartyCup_62 (AK), Suppi_62 (AK), Wayne_64 (AK),

Start 86:

- Found in 3 of 282 (1.1%) of genes in pham
- Manual Annotations of this start: 1 of 265
- Called 33.3% of time when present
- Phage (with cluster) where this start called: Shagrat_110 (CF),

Start 87:

- Found in 89 of 282 (31.6%) of genes in pham
- Manual Annotations of this start: 80 of 265
- Called 96.6% of time when present
- Phage (with cluster) where this start called: Abigail_70 (EB), Albedo_70 (EB), Albright_69 (EB), AnnaLie_70 (EB), Armstrong_70 (EB), Arroyo_71 (EB), AvGardian_70 (EB), Avocadoman_69 (EB), AylexOG_71 (EB), BAjuniper_68 (EB), BabyDaisy_71 (EB), BabyYoda_68 (EB), Bachaco_66 (EB), BelmontSKP_70 (EB), Bengal_71 (EB), Bernstein_70 (EB), Brahms_70 (EB), BubbaBear_68 (EB), Buldak_69 (EB), Burritobowl_72 (EB), CanFranMach_70 (EB), Cashington_69 (EB), Celaena_66 (EB), Clayda5_72 (EB), CliffHanger_78 (EB), Coltrane_70 (EB), CroZenni_71 (EB), CupcakePrincess_71 (EB), DickRichards_68 (EB), Didgeridoo_75 (EB), DirtyBubble_69 (EB), Dismas_67 (EB), Doobus_68 (EB), Eden_72 (EB), Elva_73 (EB), Eula_69 (EB), Finalfrontier_69 (EB), FlameThrower_65 (EB), Franklin22_74 (EB), Gack_71 (EB), Grist_72 (EB), Icarian_72 (EB), IndyLu_71 (EB), Jabb_71 (EB), Johnathan_70 (EB), Jovita_68 (EB), Kate33_73 (EB), Katzastrophic_67 (EB), Kenzers_69 (EB), Kieran_65 (EB), Lahqtemish_69 (EB), Lilo27_70 (EB), LimaBean_68 (EB), Lynlen_71 (EB), Milomuff_72 (EB), MsUbiquitous_71 (EB), Nicky22_69 (EB), Olliecat_66 (EB), Pecas_70 (EB), PhigPhack_73 (EB), Phisb_72 (EB), PondAmelia_69 (EB), QMacho_72 (EB), Quenya_69 (EB), RegnumDei_109 (CF), Rollins_70 (EB), Rona_66 (EB), SanaSana_70 (EB), SansAfet_72 (EB), SarBear_72 (EB), Sharkboy_68 (EB), Shayna_75 (EB), SirBeannington_70 (EB), Skylord_70 (EB), Slay_70 (EB), Softsoap_71 (EB), Solea_73 (EB), Squircle_66 (EB), Stoor_69 (EB), Stromboli_68 (EB), SunnyD_75 (EB), Swervy_70 (EB), Teagster_75 (EB), TukTuk_70 (EB), Vitas_71 (EB), WalkingDead_71 (EB),

Start 89:

- Found in 9 of 282 (3.2%) of genes in pham
- Manual Annotations of this start: 1 of 265
- Called 11.1% of time when present
- Phage (with cluster) where this start called: AppleCider_61 (AK),

Start 90:

- Found in 86 of 282 (30.5%) of genes in pham
- Manual Annotations of this start: 63 of 265
- Called 73.3% of time when present
- Phage (with cluster) where this start called: Albanese_61 (AK), Aledel_60 (AK), AustinPowers_60 (AK), Beethoven_63 (AK), BigMack_61 (AK), Bodacious_61 (AK), BrotherBLo_62 (AK), CallieOMalley_62 (AK), Carpal_61 (AK), ChewChew_61 (AK), Cholula_62 (AK), Chridison_57 (AK), CristinaYang_61 (AK), Daiboju_60 (AK), DreamTeam_61 (AK), EstebanJulior_60 (AK), Eunoia_62 (AK), Gisselle_61 (AK), GreenHearts_62 (AK), Greenhouse_61 (AK), HeadNerd_62 (AK), Herb_60 (AK), Huckleberry_62 (AK), Immaculata_62 (AK), Joann_63 (AK), Jumboset_62 (AK), Kalizoi_62 (AK), KingBob_60 (AK), Kittykat_65 (AK), Korra_62 (AK), Lakshmi_61 (AK), Lasagna_59 (AK), Lennox_61 (AK), LilStuart_60 (AK), Litotes_62 (AK), Makoto_60 (AK), MamaPearl_60 (AK), Maria1952_59 (AK), Misaeng_61 (AK),

Moki_62 (AK), Nancia_61 (AK), Nubia_61 (AK), OMalley_60 (AK), OurGirlNessie_59 (AK), Oxynfrius_62 (AK), PinkFriday_61 (AK), Potatoes_62 (AK), Preamble_64 (AK), Pterodactyl_61 (AK), Pumancara_61 (AK), RcigaStruga_62 (AK), Riovina_60 (AK), Riverdale_61 (AK), Rozby_60 (AK), Savage2526_61 (AK), Sergei_60 (AK), Supakev_60 (AK), TattModd_61 (AK), Temper16_60 (AK), Urla_62 (AK), Wawa_62 (AK), WonderBoy_59 (AK), Zorro_62 (AK),

Start 108:

- Found in 1 of 282 (0.4%) of genes in pham
- Manual Annotations of this start: 1 of 265
- Called 100.0% of time when present
- Phage (with cluster) where this start called: Squiddly_1 (DN2),

Summary by clusters:

There are 18 clusters represented in this pham: AS3, AS2, AS1, CU4, DA, CU1, AK, DN2, CF, EB, CU5, FF, DY, Y, CU3, singleton, CD, FO,

Info for manual annotations of cluster AK:

- Start number 56 was manually annotated 2 times for cluster AK.
- Start number 82 was manually annotated 1 time for cluster AK.
- Start number 84 was manually annotated 13 times for cluster AK.
- Start number 85 was manually annotated 4 times for cluster AK.
- Start number 89 was manually annotated 1 time for cluster AK.
- Start number 90 was manually annotated 63 times for cluster AK.

Info for manual annotations of cluster AS1:

- Start number 76 was manually annotated 1 time for cluster AS1.
- Start number 83 was manually annotated 16 times for cluster AS1.

Info for manual annotations of cluster AS2:

- Start number 83 was manually annotated 4 times for cluster AS2.

Info for manual annotations of cluster AS3:

- Start number 74 was manually annotated 4 times for cluster AS3.
- Start number 75 was manually annotated 12 times for cluster AS3.
- Start number 80 was manually annotated 2 times for cluster AS3.

Info for manual annotations of cluster CD:

- Start number 58 was manually annotated 1 time for cluster CD.
- Start number 62 was manually annotated 2 times for cluster CD.
- Start number 63 was manually annotated 1 time for cluster CD.

Info for manual annotations of cluster CF:

- Start number 81 was manually annotated 1 time for cluster CF.
- Start number 86 was manually annotated 1 time for cluster CF.
- Start number 87 was manually annotated 1 time for cluster CF.

Info for manual annotations of cluster CU1:

- Start number 79 was manually annotated 7 times for cluster CU1.

Info for manual annotations of cluster CU3:

- Start number 75 was manually annotated 1 time for cluster CU3.

Info for manual annotations of cluster CU4:

- Start number 79 was manually annotated 1 time for cluster CU4.

Info for manual annotations of cluster CU5:

- Start number 77 was manually annotated 1 time for cluster CU5.

Info for manual annotations of cluster DA:

- Start number 65 was manually annotated 1 time for cluster DA.
- Start number 76 was manually annotated 1 time for cluster DA.
- Start number 78 was manually annotated 1 time for cluster DA.

Info for manual annotations of cluster DN2:

- Start number 108 was manually annotated 1 time for cluster DN2.

Info for manual annotations of cluster DY:

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

Info for manual annotations of cluster EB:

- Start number 53 was manually annotated 3 times for cluster EB.
- Start number 87 was manually annotated 79 times for cluster EB.

Info for manual annotations of cluster FF:

- Start number 50 was manually annotated 4 times for cluster FF.
- Start number 68 was manually annotated 2 times for cluster FF.
- Start number 70 was manually annotated 1 time for cluster FF.
- Start number 73 was manually annotated 15 times for cluster FF.

Info for manual annotations of cluster FO:

- Start number 40 was manually annotated 1 time for cluster FO.
- Start number 49 was manually annotated 1 time for cluster FO.
- Start number 83 was manually annotated 5 times for cluster FO.

Info for manual annotations of cluster Y:

- Start number 61 was manually annotated 6 times for cluster Y.

Gene Information:

Gene: Abidatro_66 Start: 38766, Stop: 39044, Start Num: 83

Candidate Starts for Abidatro_66:

(28, 38640), (Start: 83 @38766 has 25 MA's),

Gene: Abigail_70 Start: 40540, Stop: 40815, Start Num: 87

Candidate Starts for Abigail_70:

(Start: 87 @40540 has 80 MA's),

Gene: AdoptaAdorbs_68 Start: 37992, Stop: 38279, Start Num: 75

Candidate Starts for AdoptaAdorbs_68:

(Start: 75 @37992 has 13 MA's), (117, 38145), (128, 38208),

Gene: Akino08_66 Start: 42028, Stop: 42363, Start Num: 53

Candidate Starts for Akino08_66:

(44, 42013), (Start: 53 @42028 has 3 MA's), (71, 42061), (Start: 87 @42088 has 80 MA's), (93, 42121), (126, 42277),

Gene: Albanese_61 Start: 43774, Stop: 44034, Start Num: 90

Candidate Starts for Albanese_61:

(Start: 90 @43774 has 63 MA's), (91, 43780), (102, 43831), (103, 43834), (130, 43978),

Gene: Albedo_70 Start: 41350, Stop: 41625, Start Num: 87

Candidate Starts for Albedo_70:

(Start: 87 @41350 has 80 MA's), (125, 41536),

Gene: Albright_69 Start: 40420, Stop: 40695, Start Num: 87

Candidate Starts for Albright_69:

(Start: 87 @40420 has 80 MA's),

Gene: Aledel_60 Start: 43400, Stop: 43660, Start Num: 90

Candidate Starts for Aledel_60:

(Start: 56 @43331 has 2 MA's), (66, 43352), (Start: 90 @43400 has 63 MA's), (93, 43421), (105, 43472),

Gene: AlexMinion_69 Start: 37930, Stop: 38223, Start Num: 74

Candidate Starts for AlexMinion_69:

(47, 37888), (Start: 74 @37930 has 4 MA's), (117, 38089), (137, 38197),

Gene: AllBusiness_65 Start: 43063, Stop: 43359, Start Num: 73

Candidate Starts for AllBusiness_65:

(Start: 73 @43063 has 15 MA's), (116, 43219), (117, 43228), (128, 43291), (137, 43333),

Gene: Amanises_68 Start: 39398, Stop: 39676, Start Num: 83

Candidate Starts for Amanises_68:

(Start: 83 @39398 has 25 MA's), (140, 39668),

Gene: AmiCi24_68 Start: 38101, Stop: 38388, Start Num: 75

Candidate Starts for AmiCi24_68:

(Start: 75 @38101 has 13 MA's), (117, 38254), (128, 38317),

Gene: Amphitrite_69 Start: 38005, Stop: 38292, Start Num: 75

Candidate Starts for Amphitrite_69:

(Start: 75 @38005 has 13 MA's), (117, 38158), (128, 38221),

Gene: AnnaLie_70 Start: 41202, Stop: 41477, Start Num: 87

Candidate Starts for AnnaLie_70:

(Start: 87 @41202 has 80 MA's), (125, 41388),

Gene: Antrice_75 Start: 38862, Stop: 39140, Start Num: 83

Candidate Starts for Antrice_75:

(Start: 78 @38853 has 1 MA's), (Start: 83 @38862 has 25 MA's),

Gene: Aoka_54 Start: 36392, Stop: 36673, Start Num: 83

Candidate Starts for Aoka_54:

(Start: 49 @36335 has 1 MA's), (Start: 83 @36392 has 25 MA's),

Gene: AppleCider_61 Start: 43353, Stop: 43619, Start Num: 89

Candidate Starts for AppleCider_61:

(Start: 89 @43353 has 1 MA's), (Start: 90 @43359 has 63 MA's),

Gene: Archimedes_60 Start: 44555, Stop: 44878, Start Num: 65

Candidate Starts for Archimedes_60:

(Start: 65 @44555 has 1 MA's), (Start: 78 @44582 has 1 MA's), (Start: 81 @44588 has 1 MA's), (103, 44672), (104, 44681), (137, 44852),

Gene: Armstrong_70 Start: 39580, Stop: 39855, Start Num: 87

Candidate Starts for Armstrong_70:

(10, 39382), (14, 39397), (22, 39424), (30, 39457), (44, 39505), (Start: 53 @39520 has 3 MA's), (71, 39553), (Start: 87 @39580 has 80 MA's),

Gene: Arroyo_71 Start: 41666, Stop: 41941, Start Num: 87

Candidate Starts for Arroyo_71:

(Start: 87 @41666 has 80 MA's), (125, 41852),

Gene: Atlantica_70 Start: 38103, Stop: 38390, Start Num: 75

Candidate Starts for Atlantica_70:

(Start: 75 @38103 has 13 MA's), (117, 38256), (128, 38319),

Gene: AuntGwenStacy_130 Start: 74981, Stop: 75304, Start Num: 61

Candidate Starts for AuntGwenStacy_130:

(Start: 61 @74981 has 6 MA's), (110, 75131), (124, 75212), (129, 75236), (130, 75248),

Gene: AustinPowers_60 Start: 43422, Stop: 43682, Start Num: 90

Candidate Starts for AustinPowers_60:

(Start: 56 @43353 has 2 MA's), (66, 43374), (Start: 90 @43422 has 63 MA's), (93, 43443), (105, 43494),

Gene: AvGardian_70 Start: 41184, Stop: 41459, Start Num: 87

Candidate Starts for AvGardian_70:

(Start: 87 @41184 has 80 MA's), (119, 41334), (125, 41370),

Gene: Avocadoman_69 Start: 40737, Stop: 41012, Start Num: 87

Candidate Starts for Avocadoman_69:

(Start: 87 @40737 has 80 MA's),

Gene: AylexOG_71 Start: 41421, Stop: 41696, Start Num: 87

Candidate Starts for AylexOG_71:

(Start: 87 @41421 has 80 MA's), (125, 41607),

Gene: Azaz_71 Start: 38251, Stop: 38532, Start Num: 80

Candidate Starts for Azaz_71:

(Start: 80 @38251 has 2 MA's), (117, 38398), (128, 38461),

Gene: BAjuniper_68 Start: 41633, Stop: 41908, Start Num: 87

Candidate Starts for BAjuniper_68:

(35, 41528), (44, 41558), (Start: 53 @41573 has 3 MA's), (71, 41606), (Start: 87 @41633 has 80 MA's), (93, 41666), (125, 41819),

Gene: Babushka_66 Start: 38003, Stop: 38302, Start Num: 74

Candidate Starts for Babushka_66:

(Start: 74 @38003 has 4 MA's), (117, 38168), (128, 38231),

Gene: BabyDaisy_71 Start: 41763, Stop: 42038, Start Num: 87

Candidate Starts for BabyDaisy_71:

(38, 41664), (44, 41688), (Start: 53 @41703 has 3 MA's), (71, 41736), (Start: 80 @41751 has 2 MA's), (Start: 87 @41763 has 80 MA's),

Gene: BabyYoda_68 Start: 41093, Stop: 41368, Start Num: 87

Candidate Starts for BabyYoda_68:

(Start: 87 @41093 has 80 MA's), (93, 41126), (125, 41279), (126, 41282),

Gene: Bachaco_66 Start: 42043, Stop: 42318, Start Num: 87

Candidate Starts for Bachaco_66:

(18, 41878), (20, 41887), (21, 41890), (34, 41938), (44, 41968), (Start: 53 @41983 has 3 MA's), (71, 42016), (Start: 87 @42043 has 80 MA's), (125, 42229), (139, 42301),

Gene: Banquo_63 Start: 39126, Stop: 39422, Start Num: 79

Candidate Starts for Banquo_63:

(57, 39084), (Start: 79 @39126 has 8 MA's), (92, 39168), (132, 39384),

Gene: Basilisk_66 Start: 38281, Stop: 38571, Start Num: 76

Candidate Starts for Basilisk_66:

(30, 38188), (Start: 42 @38218 has 3 MA's), (Start: 76 @38281 has 2 MA's), (Start: 83 @38293 has 25 MA's),

Gene: Beethoven_63 Start: 43598, Stop: 43858, Start Num: 90

Candidate Starts for Beethoven_63:

(Start: 84 @43580 has 13 MA's), (Start: 90 @43598 has 63 MA's), (92, 43616), (105, 43670),

Gene: BelmontSKP_70 Start: 41202, Stop: 41477, Start Num: 87

Candidate Starts for BelmontSKP_70:

(Start: 87 @41202 has 80 MA's), (125, 41388),

Gene: Bengal_71 Start: 41208, Stop: 41483, Start Num: 87

Candidate Starts for Bengal_71:

(23, 41055), (26, 41070), (44, 41133), (Start: 53 @41148 has 3 MA's), (71, 41181), (Start: 80 @41196 has 2 MA's), (Start: 87 @41208 has 80 MA's), (125, 41394),

Gene: Bennie_63 Start: 42720, Stop: 42998, Start Num: 84

Candidate Starts for Bennie_63:

(Start: 84 @42720 has 13 MA's), (Start: 90 @42738 has 63 MA's), (92, 42756), (105, 42810), (133, 42963),

Gene: Bernstein_70 Start: 39578, Stop: 39853, Start Num: 87

Candidate Starts for Bernstein_70:

(10, 39380), (14, 39395), (22, 39422), (30, 39455), (44, 39503), (Start: 53 @39518 has 3 MA's), (71, 39551), (Start: 87 @39578 has 80 MA's),

Gene: BigMack_61 Start: 43021, Stop: 43281, Start Num: 90

Candidate Starts for BigMack_61:

(Start: 84 @43003 has 13 MA's), (Start: 90 @43021 has 63 MA's), (92, 43039), (126, 43198), (133, 43246),

Gene: Bipper_136 Start: 77103, Stop: 77429, Start Num: 61
Candidate Starts for Bipper_136:
(Start: 61 @77103 has 6 MA's), (99, 77217), (103, 77229), (118, 77304), (129, 77361), (130, 77373),

Gene: Bodacious_61 Start: 42903, Stop: 43163, Start Num: 90
Candidate Starts for Bodacious_61:
(Start: 84 @42885 has 13 MA's), (Start: 90 @42903 has 63 MA's), (92, 42921), (126, 43080), (137, 43137), (138, 43143),

Gene: Brahms_70 Start: 39480, Stop: 39755, Start Num: 87
Candidate Starts for Brahms_70:
(10, 39282), (14, 39297), (22, 39324), (30, 39357), (44, 39405), (Start: 53 @39420 has 3 MA's), (71, 39453), (Start: 87 @39480 has 80 MA's),

Gene: BrotherBLo_62 Start: 43314, Stop: 43574, Start Num: 90
Candidate Starts for BrotherBLo_62:
(Start: 84 @43296 has 13 MA's), (Start: 90 @43314 has 63 MA's), (92, 43332), (105, 43386),

Gene: Brynnie_64 Start: 38238, Stop: 38516, Start Num: 83
Candidate Starts for Brynnie_64:
(Start: 76 @38226 has 2 MA's), (Start: 83 @38238 has 25 MA's),

Gene: BubbaBear_68 Start: 41351, Stop: 41626, Start Num: 87
Candidate Starts for BubbaBear_68:
(Start: 87 @41351 has 80 MA's),

Gene: Buldak_69 Start: 39158, Stop: 39433, Start Num: 87
Candidate Starts for Buldak_69:
(Start: 87 @39158 has 80 MA's), (125, 39344),

Gene: Burritobowl_72 Start: 40954, Stop: 41229, Start Num: 87
Candidate Starts for Burritobowl_72:
(Start: 87 @40954 has 80 MA's),

Gene: CallieOMalley_62 Start: 43522, Stop: 43782, Start Num: 90
Candidate Starts for CallieOMalley_62:
(Start: 73 @43489 has 15 MA's), (Start: 85 @43510 has 4 MA's), (88, 43516), (Start: 90 @43522 has 63 MA's),

Gene: Camara_69 Start: 37993, Stop: 38280, Start Num: 75
Candidate Starts for Camara_69:
(Start: 75 @37993 has 13 MA's), (117, 38146), (128, 38209),

Gene: CanFranMach_70 Start: 41004, Stop: 41279, Start Num: 87
Candidate Starts for CanFranMach_70:
(35, 40899), (44, 40929), (Start: 53 @40944 has 3 MA's), (71, 40977), (Start: 87 @41004 has 80 MA's),

Gene: Canowicakte_62 Start: 43562, Stop: 43834, Start Num: 85
Candidate Starts for Canowicakte_62:
(Start: 73 @43541 has 15 MA's), (Start: 85 @43562 has 4 MA's), (88, 43568), (Start: 90 @43574 has 63 MA's),

Gene: Carpal_61 Start: 43369, Stop: 43629, Start Num: 90

Candidate Starts for Carpal_61:

(Start: 84 @43351 has 13 MA's), (Start: 90 @43369 has 63 MA's), (92, 43387), (105, 43441),

Gene: Cashington_69 Start: 41137, Stop: 41412, Start Num: 87

Candidate Starts for Cashington_69:

(45, 41062), (55, 41077), (69, 41107), (Start: 73 @41110 has 15 MA's), (Start: 87 @41137 has 80 MA's), (125, 41323),

Gene: Catfish_64 Start: 41148, Stop: 41444, Start Num: 77

Candidate Starts for Catfish_64:

(8, 40959), (10, 40968), (54, 41106), (Start: 77 @41148 has 1 MA's), (100, 41235), (103, 41244), (118, 41319),

Gene: Celaena_66 Start: 41809, Stop: 42084, Start Num: 87

Candidate Starts for Celaena_66:

(18, 41641), (20, 41650), (21, 41653), (34, 41701), (44, 41731), (Start: 87 @41809 has 80 MA's), (125, 41995), (139, 42067),

Gene: ChewChew_61 Start: 43103, Stop: 43363, Start Num: 90

Candidate Starts for ChewChew_61:

(Start: 84 @43085 has 13 MA's), (Start: 90 @43103 has 63 MA's), (92, 43121), (106, 43178), (126, 43280), (137, 43337), (138, 43343),

Gene: Chickaboom_66 Start: 38402, Stop: 38680, Start Num: 83

Candidate Starts for Chickaboom_66:

(Start: 76 @38390 has 2 MA's), (Start: 83 @38402 has 25 MA's),

Gene: Chicken_65 Start: 39158, Stop: 39436, Start Num: 83

Candidate Starts for Chicken_65:

(17, 39047), (60, 39116), (64, 39122), (Start: 83 @39158 has 25 MA's),

Gene: Cholula_62 Start: 43324, Stop: 43584, Start Num: 90

Candidate Starts for Cholula_62:

(Start: 84 @43306 has 13 MA's), (Start: 90 @43324 has 63 MA's), (92, 43342), (105, 43396),

Gene: Chridison_57 Start: 42676, Stop: 42936, Start Num: 90

Candidate Starts for Chridison_57:

(Start: 56 @42607 has 2 MA's), (66, 42628), (Start: 90 @42676 has 63 MA's), (92, 42694), (93, 42697), (105, 42748),

Gene: Christian_61 Start: 42727, Stop: 43005, Start Num: 84

Candidate Starts for Christian_61:

(Start: 84 @42727 has 13 MA's), (Start: 90 @42745 has 63 MA's), (92, 42763), (106, 42820), (126, 42922), (137, 42979), (138, 42985),

Gene: Clayda5_72 Start: 39546, Stop: 39821, Start Num: 87

Candidate Starts for Clayda5_72:

(10, 39348), (14, 39363), (22, 39390), (30, 39423), (44, 39471), (Start: 53 @39486 has 3 MA's), (71, 39519), (Start: 87 @39546 has 80 MA's),

Gene: CliffHanger_78 Start: 40817, Stop: 41092, Start Num: 87

Candidate Starts for CliffHanger_78:

(Start: 87 @40817 has 80 MA's), (93, 40850), (125, 41003), (126, 41006),

Gene: CocoCinnamon_58 Start: 36037, Stop: 36318, Start Num: 83

Candidate Starts for CocoCinnamon_58:

(Start: 74 @36019 has 4 MA's), (Start: 83 @36037 has 25 MA's), (98, 36106),

Gene: Cole_64 Start: 41483, Stop: 41779, Start Num: 73

Candidate Starts for Cole_64:

(28, 41378), (Start: 73 @41483 has 15 MA's), (102, 41579), (116, 41639), (117, 41648),

Gene: Coltrane_70 Start: 39480, Stop: 39755, Start Num: 87

Candidate Starts for Coltrane_70:

(10, 39282), (14, 39297), (22, 39324), (30, 39357), (44, 39405), (Start: 53 @39420 has 3 MA's), (71, 39453), (Start: 87 @39480 has 80 MA's),

Gene: Cracklewink_136 Start: 76262, Stop: 76588, Start Num: 61

Candidate Starts for Cracklewink_136:

(3, 76067), (16, 76136), (Start: 61 @76262 has 6 MA's), (99, 76376), (103, 76388), (118, 76463), (129, 76520), (130, 76532),

Gene: CristinaYang_61 Start: 43030, Stop: 43290, Start Num: 90

Candidate Starts for CristinaYang_61:

(Start: 84 @43012 has 13 MA's), (Start: 90 @43030 has 63 MA's), (92, 43048), (126, 43207), (137, 43264), (138, 43270),

Gene: CroZenni_71 Start: 41008, Stop: 41283, Start Num: 87

Candidate Starts for CroZenni_71:

(Start: 87 @41008 has 80 MA's),

Gene: CupcakePrincess_71 Start: 41251, Stop: 41526, Start Num: 87

Candidate Starts for CupcakePrincess_71:

(Start: 87 @41251 has 80 MA's),

Gene: CurlyFries_112 Start: 57829, Stop: 58110, Start Num: 81

Candidate Starts for CurlyFries_112:

(Start: 81 @57829 has 1 MA's), (Start: 86 @57838 has 1 MA's), (93, 57874), (96, 57892), (115, 57961), (117, 57982), (136, 58081),

Gene: Cygnet_73 Start: 39144, Stop: 39422, Start Num: 83

Candidate Starts for Cygnet_73:

(Start: 83 @39144 has 25 MA's), (125, 39336),

Gene: Daiboju_60 Start: 43614, Stop: 43871, Start Num: 90

Candidate Starts for Daiboju_60:

(Start: 89 @43605 has 1 MA's), (Start: 90 @43614 has 63 MA's), (92, 43632), (107, 43689), (122, 43767),

Gene: DanHam62_70 Start: 38102, Stop: 38389, Start Num: 75

Candidate Starts for DanHam62_70:

(Start: 75 @38102 has 13 MA's), (117, 38255), (128, 38318),

Gene: Dardanus_58 Start: 37373, Stop: 37678, Start Num: 75

Candidate Starts for Dardanus_58:

(Start: 75 @37373 has 13 MA's), (Start: 86 @37391 has 1 MA's), (118, 37553),

Gene: DickRichards_68 Start: 40877, Stop: 41152, Start Num: 87

Candidate Starts for DickRichards_68:

(Start: 87 @40877 has 80 MA's),

Gene: Didgeridoo_75 Start: 42192, Stop: 42467, Start Num: 87

Candidate Starts for Didgeridoo_75:

(15, 42015), (29, 42066), (44, 42117), (Start: 53 @42132 has 3 MA's), (71, 42165), (Start: 80 @42180 has 2 MA's), (Start: 87 @42192 has 80 MA's),

Gene: Dino_62 Start: 43208, Stop: 43486, Start Num: 84

Candidate Starts for Dino_62:

(Start: 84 @43208 has 13 MA's), (Start: 90 @43226 has 63 MA's), (92, 43244), (105, 43298),

Gene: DinoDaryn_64 Start: 39227, Stop: 39523, Start Num: 79

Candidate Starts for DinoDaryn_64:

(57, 39185), (Start: 79 @39227 has 8 MA's), (121, 39416), (132, 39485),

Gene: DinoNuggs_64 Start: 41077, Stop: 41433, Start Num: 42

Candidate Starts for DinoNuggs_64:

(Start: 42 @41077 has 3 MA's), (Start: 81 @41149 has 1 MA's), (94, 41203),

Gene: Dirtdigger_68 Start: 41774, Stop: 42070, Start Num: 73

Candidate Starts for Dirtdigger_68:

(Start: 50 @41744 has 4 MA's), (Start: 73 @41774 has 15 MA's), (102, 41870), (128, 42002), (137, 42044), (138, 42050),

Gene: DirtyBubble_69 Start: 41228, Stop: 41503, Start Num: 87

Candidate Starts for DirtyBubble_69:

(Start: 87 @41228 has 80 MA's), (125, 41414), (126, 41417),

Gene: Dismas_67 Start: 41256, Stop: 41531, Start Num: 87

Candidate Starts for Dismas_67:

(44, 41181), (Start: 87 @41256 has 80 MA's), (125, 41442), (130, 41472),

Gene: Donatella_69 Start: 42522, Stop: 42818, Start Num: 73

Candidate Starts for Donatella_69:

(Start: 73 @42522 has 15 MA's), (116, 42678), (137, 42792),

Gene: Doobus_68 Start: 40732, Stop: 41007, Start Num: 87

Candidate Starts for Doobus_68:

(Start: 87 @40732 has 80 MA's),

Gene: DrRobert_59 Start: 42246, Stop: 42524, Start Num: 84

Candidate Starts for DrRobert_59:

(Start: 84 @42246 has 13 MA's), (Start: 90 @42264 has 63 MA's), (92, 42282), (126, 42441), (137, 42498), (138, 42504),

Gene: DreamTeam_61 Start: 42752, Stop: 43012, Start Num: 90

Candidate Starts for DreamTeam_61:

(Start: 84 @42734 has 13 MA's), (Start: 90 @42752 has 63 MA's), (92, 42770), (106, 42827), (122, 42908),

Gene: Eden_72 Start: 40483, Stop: 40758, Start Num: 87

Candidate Starts for Eden_72:

(4, 40246), (7, 40276), (9, 40279), (12, 40294), (20, 40324), (21, 40327), (37, 40381), (54, 40423),
(Start: 87 @40483 has 80 MA's), (125, 40669), (126, 40672), (139, 40741),

Gene: Eesa_65 Start: 39439, Stop: 39717, Start Num: 83

Candidate Starts for Eesa_65:

(Start: 83 @39439 has 25 MA's), (140, 39709),

Gene: Elesar_62 Start: 42571, Stop: 42897, Start Num: 50

Candidate Starts for Elesar_62:

(Start: 50 @42571 has 4 MA's), (Start: 73 @42601 has 15 MA's), (116, 42757), (137, 42871),

Gene: Elva_73 Start: 41675, Stop: 41950, Start Num: 87

Candidate Starts for Elva_73:

(Start: 87 @41675 has 80 MA's), (125, 41861), (126, 41864),

Gene: EmiRose_46 Start: 36892, Stop: 37236, Start Num: 43

Candidate Starts for EmiRose_46:

(Start: 43 @36892 has 1 MA's), (101, 37030), (111, 37060),

Gene: EstebanJulior_60 Start: 43409, Stop: 43669, Start Num: 90

Candidate Starts for EstebanJulior_60:

(Start: 90 @43409 has 63 MA's), (92, 43427), (106, 43484),

Gene: Eula_69 Start: 40916, Stop: 41191, Start Num: 87

Candidate Starts for Eula_69:

(Start: 87 @40916 has 80 MA's), (125, 41102),

Gene: Eunoia_62 Start: 44077, Stop: 44337, Start Num: 90

Candidate Starts for Eunoia_62:

(Start: 56 @44008 has 2 MA's), (66, 44029), (Start: 90 @44077 has 63 MA's), (93, 44098), (105, 44149),

Gene: EvenBluerMoon_51 Start: 35879, Stop: 36160, Start Num: 83

Candidate Starts for EvenBluerMoon_51:

(Start: 49 @35822 has 1 MA's), (Start: 83 @35879 has 25 MA's),

Gene: Faiyaz_132 Start: 75303, Stop: 75626, Start Num: 61

Candidate Starts for Faiyaz_132:

(Start: 61 @75303 has 6 MA's), (110, 75453), (124, 75534), (129, 75558), (130, 75570),

Gene: Finalfrontier_69 Start: 41583, Stop: 41858, Start Num: 87

Candidate Starts for Finalfrontier_69:

(Start: 87 @41583 has 80 MA's), (125, 41769),

Gene: Fingolfin_71 Start: 38104, Stop: 38391, Start Num: 75

Candidate Starts for Fingolfin_71:

(Start: 75 @38104 has 13 MA's), (117, 38257), (128, 38320),

Gene: FlameThrower_65 Start: 40846, Stop: 41121, Start Num: 87

Candidate Starts for FlameThrower_65:

(44, 40768), (Start: 87 @40846 has 80 MA's), (125, 41032), (139, 41104),

Gene: Fluke_62 Start: 43458, Stop: 43736, Start Num: 84

Candidate Starts for Fluke_62:

(Start: 84 @43458 has 13 MA's), (Start: 90 @43476 has 63 MA's), (92, 43494), (105, 43548),

Gene: Franklin22_74 Start: 40216, Stop: 40491, Start Num: 87

Candidate Starts for Franklin22_74:

(54, 40156), (Start: 87 @40216 has 80 MA's), (125, 40402), (139, 40474),

Gene: Frizzle_58 Start: 45018, Stop: 45314, Start Num: 78

Candidate Starts for Frizzle_58:

(Start: 78 @45018 has 1 MA's), (97, 45090), (106, 45123), (140, 45306),

Gene: Gack_71 Start: 40197, Stop: 40472, Start Num: 87

Candidate Starts for Gack_71:

(Start: 87 @40197 has 80 MA's), (125, 40383), (130, 40413),

Gene: Galaxy_65 Start: 37453, Stop: 37731, Start Num: 83

Candidate Starts for Galaxy_65:

(22, 37303), (28, 37327), (39, 37360), (Start: 83 @37453 has 25 MA's), (128, 37660),

Gene: Gisselle_61 Start: 42752, Stop: 43012, Start Num: 90

Candidate Starts for Gisselle_61:

(Start: 84 @42734 has 13 MA's), (Start: 90 @42752 has 63 MA's), (92, 42770), (106, 42827), (122, 42908),

Gene: Glenn_64 Start: 44035, Stop: 44313, Start Num: 84

Candidate Starts for Glenn_64:

(Start: 84 @44035 has 13 MA's), (Start: 90 @44053 has 63 MA's), (92, 44071), (105, 44125),

Gene: Glotell_71 Start: 38150, Stop: 38437, Start Num: 75

Candidate Starts for Glotell_71:

(Start: 75 @38150 has 13 MA's), (117, 38303), (128, 38366),

Gene: GoodLuckBabe_70 Start: 41904, Stop: 42203, Start Num: 68

Candidate Starts for GoodLuckBabe_70:

(Start: 50 @41880 has 4 MA's), (Start: 68 @41904 has 2 MA's), (102, 42003), (116, 42063), (121, 42099),

Gene: Graynor_65 Start: 43171, Stop: 43443, Start Num: 85

Candidate Starts for Graynor_65:

(Start: 73 @43150 has 15 MA's), (Start: 85 @43171 has 4 MA's), (88, 43177), (Start: 90 @43183 has 63 MA's),

Gene: GreenHearts_62 Start: 43911, Stop: 44171, Start Num: 90

Candidate Starts for GreenHearts_62:

(Start: 90 @43911 has 63 MA's), (91, 43917), (102, 43968), (103, 43971), (105, 43983), (130, 44115),

Gene: Greenhouse_61 Start: 43637, Stop: 43897, Start Num: 90

Candidate Starts for Greenhouse_61:

(Start: 90 @43637 has 63 MA's), (91, 43643), (102, 43694), (103, 43697), (130, 43841),

Gene: Grist_72 Start: 41525, Stop: 41800, Start Num: 87

Candidate Starts for Grist_72:

(15, 41348), (29, 41399), (44, 41450), (Start: 53 @41465 has 3 MA's), (71, 41498), (Start: 80 @41513 has 2 MA's), (Start: 87 @41525 has 80 MA's),

Gene: Guinevere_71 Start: 41765, Stop: 42061, Start Num: 73

Candidate Starts for Guinevere_71:

(Start: 73 @41765 has 15 MA's), (102, 41861), (116, 41921), (121, 41957),

Gene: Gusanita_70 Start: 42391, Stop: 42687, Start Num: 73

Candidate Starts for Gusanita_70:

(Start: 73 @42391 has 15 MA's), (99, 42481), (137, 42661),

Gene: Halloweekend_62 Start: 41095, Stop: 41391, Start Num: 73

Candidate Starts for Halloweekend_62:

(Start: 73 @41095 has 15 MA's), (99, 41185), (116, 41251), (128, 41323), (137, 41365),

Gene: HamCheese_69 Start: 38089, Stop: 38376, Start Num: 75

Candidate Starts for HamCheese_69:

(Start: 75 @38089 has 13 MA's), (117, 38242), (128, 38305),

Gene: HeadNerd_62 Start: 42632, Stop: 42892, Start Num: 90

Candidate Starts for HeadNerd_62:

(Start: 84 @42614 has 13 MA's), (Start: 90 @42632 has 63 MA's), (92, 42650), (106, 42707), (126, 42809), (133, 42857),

Gene: Herb_60 Start: 43613, Stop: 43870, Start Num: 90

Candidate Starts for Herb_60:

(Start: 89 @43604 has 1 MA's), (Start: 90 @43613 has 63 MA's), (92, 43631), (107, 43688), (122, 43766),

Gene: Hereford_52 Start: 35583, Stop: 35864, Start Num: 83

Candidate Starts for Hereford_52:

(Start: 49 @35526 has 1 MA's), (Start: 83 @35583 has 25 MA's),

Gene: Hibiscus_63 Start: 39480, Stop: 39836, Start Num: 42

Candidate Starts for Hibiscus_63:

(Start: 42 @39480 has 3 MA's), (Start: 81 @39552 has 1 MA's), (94, 39606),

Gene: Hilltopfarm_134 Start: 76128, Stop: 76451, Start Num: 61

Candidate Starts for Hilltopfarm_134:

(Start: 61 @76128 has 6 MA's), (110, 76278), (124, 76359), (129, 76383), (130, 76395),

Gene: Huckleberry_62 Start: 42636, Stop: 42896, Start Num: 90

Candidate Starts for Huckleberry_62:

(Start: 84 @42618 has 13 MA's), (Start: 90 @42636 has 63 MA's), (92, 42654), (106, 42711), (126, 42813), (133, 42861),

Gene: Huff_64 Start: 39227, Stop: 39523, Start Num: 79

Candidate Starts for Huff_64:

(57, 39185), (Start: 79 @39227 has 8 MA's), (121, 39416), (132, 39485),

Gene: HunterDalle_60 Start: 42928, Stop: 43257, Start Num: 56

Candidate Starts for HunterDalle_60:

(Start: 56 @42928 has 2 MA's), (66, 42949), (Start: 90 @42997 has 63 MA's), (92, 43015), (93, 43018), (105, 43069),

Gene: Huntingdon_61 Start: 43533, Stop: 43811, Start Num: 82

Candidate Starts for Huntingdon_61:

(Start: 82 @43533 has 1 MA's), (Start: 90 @43551 has 63 MA's), (102, 43608), (103, 43611), (105, 43623), (130, 43755),

Gene: Icarian_72 Start: 41856, Stop: 42131, Start Num: 87

Candidate Starts for Icarian_72:

(Start: 87 @41856 has 80 MA's), (121, 42021), (125, 42042), (126, 42045),

Gene: Ichiang_65 Start: 41204, Stop: 41500, Start Num: 73

Candidate Starts for Ichiang_65:

(Start: 73 @41204 has 15 MA's), (116, 41360), (128, 41432), (137, 41474),

Gene: Immaculata_62 Start: 43324, Stop: 43584, Start Num: 90

Candidate Starts for Immaculata_62:

(Start: 84 @43306 has 13 MA's), (Start: 90 @43324 has 63 MA's), (92, 43342), (105, 43396),

Gene: IndyLu_71 Start: 41495, Stop: 41770, Start Num: 87

Candidate Starts for IndyLu_71:

(15, 41318), (29, 41369), (44, 41420), (Start: 53 @41435 has 3 MA's), (67, 41462), (71, 41468), (Start: 80 @41483 has 2 MA's), (Start: 87 @41495 has 80 MA's),

Gene: IsHungry_64 Start: 40246, Stop: 40572, Start Num: 50

Candidate Starts for IsHungry_64:

(28, 40180), (Start: 50 @40246 has 4 MA's), (Start: 73 @40276 has 15 MA's), (102, 40372), (116, 40432), (137, 40546), (138, 40552),

Gene: Jabb_71 Start: 41251, Stop: 41526, Start Num: 87

Candidate Starts for Jabb_71:

(Start: 87 @41251 has 80 MA's),

Gene: Jamun_63 Start: 38467, Stop: 38745, Start Num: 83

Candidate Starts for Jamun_63:

(17, 38326), (Start: 50 @38413 has 4 MA's), (72, 38449), (Start: 76 @38455 has 2 MA's), (Start: 83 @38467 has 25 MA's),

Gene: JanetJ_52 Start: 36634, Stop: 36915, Start Num: 83

Candidate Starts for JanetJ_52:

(Start: 83 @36634 has 25 MA's),

Gene: Joann_63 Start: 43843, Stop: 44103, Start Num: 90

Candidate Starts for Joann_63:

(Start: 90 @43843 has 63 MA's), (102, 43900), (103, 43903), (130, 44047),

Gene: Johnathan_70 Start: 40508, Stop: 40783, Start Num: 87

Candidate Starts for Johnathan_70:

(Start: 87 @40508 has 80 MA's),

Gene: Jojo24_63 Start: 40163, Stop: 40516, Start Num: 42

Candidate Starts for Jojo24_63:
(Start: 42 @40163 has 3 MA's), (Start: 81 @40235 has 1 MA's), (94, 40289),

Gene: Jovita_68 Start: 40684, Stop: 40959, Start Num: 87
Candidate Starts for Jovita_68:
(Start: 87 @40684 has 80 MA's), (125, 40870),

Gene: Julie_67 Start: 41903, Stop: 42199, Start Num: 73
Candidate Starts for Julie_67:
(Start: 50 @41873 has 4 MA's), (Start: 73 @41903 has 15 MA's), (102, 41999), (116, 42059), (137, 42173), (138, 42179),

Gene: Jumboset_62 Start: 43444, Stop: 43704, Start Num: 90
Candidate Starts for Jumboset_62:
(Start: 84 @43426 has 13 MA's), (Start: 90 @43444 has 63 MA's), (92, 43462), (103, 43504), (105, 43516),

Gene: Juno112_69 Start: 38104, Stop: 38391, Start Num: 75
Candidate Starts for Juno112_69:
(Start: 75 @38104 has 13 MA's), (117, 38257), (128, 38320),

Gene: KHumphrey_70 Start: 37978, Stop: 38265, Start Num: 75
Candidate Starts for KHumphrey_70:
(Start: 75 @37978 has 13 MA's), (117, 38131), (128, 38194),

Gene: Kalizoi_62 Start: 43182, Stop: 43442, Start Num: 90
Candidate Starts for Kalizoi_62:
(Start: 84 @43164 has 13 MA's), (Start: 90 @43182 has 63 MA's), (92, 43200), (105, 43254),

Gene: Kate33_73 Start: 41226, Stop: 41501, Start Num: 87
Candidate Starts for Kate33_73:
(29, 41100), (44, 41151), (Start: 53 @41166 has 3 MA's), (71, 41199), (Start: 80 @41214 has 2 MA's), (Start: 87 @41226 has 80 MA's),

Gene: Katzastrophic_67 Start: 41352, Stop: 41627, Start Num: 87
Candidate Starts for Katzastrophic_67:
(18, 41187), (20, 41196), (21, 41199), (34, 41247), (44, 41277), (Start: 53 @41292 has 3 MA's), (71, 41325), (Start: 87 @41352 has 80 MA's), (125, 41538), (139, 41610),

Gene: KendraB23_76 Start: 39417, Stop: 39695, Start Num: 83
Candidate Starts for KendraB23_76:
(28, 39363), (Start: 83 @39417 has 25 MA's), (140, 39687),

Gene: Kenzers_69 Start: 40798, Stop: 41073, Start Num: 87
Candidate Starts for Kenzers_69:
(Start: 87 @40798 has 80 MA's), (125, 40984),

Gene: Kieran_65 Start: 41080, Stop: 41355, Start Num: 87
Candidate Starts for Kieran_65:
(44, 41005), (Start: 87 @41080 has 80 MA's), (125, 41266), (130, 41296),

Gene: Kihatsu_69 Start: 42860, Stop: 43183, Start Num: 50
Candidate Starts for Kihatsu_69:

(Start: 50 @42860 has 4 MA's), (Start: 68 @42884 has 2 MA's), (102, 42983), (116, 43043), (121, 43079),

Gene: KingBob_60 Start: 43614, Stop: 43871, Start Num: 90

Candidate Starts for KingBob_60:

(Start: 89 @43605 has 1 MA's), (Start: 90 @43614 has 63 MA's), (92, 43632), (107, 43689), (122, 43767),

Gene: Kittykat_65 Start: 43266, Stop: 43526, Start Num: 90

Candidate Starts for Kittykat_65:

(Start: 84 @43248 has 13 MA's), (Start: 90 @43266 has 63 MA's), (92, 43284), (106, 43341), (122, 43422), (126, 43443),

Gene: Korra_62 Start: 43371, Stop: 43631, Start Num: 90

Candidate Starts for Korra_62:

(Start: 84 @43353 has 13 MA's), (Start: 90 @43371 has 63 MA's), (92, 43389), (105, 43443),

Gene: Lahqtemish_69 Start: 41710, Stop: 41985, Start Num: 87

Candidate Starts for Lahqtemish_69:

(33, 41602), (44, 41635), (Start: 53 @41650 has 3 MA's), (67, 41677), (71, 41683), (Start: 80 @41698 has 2 MA's), (Start: 87 @41710 has 80 MA's),

Gene: Lakshmi_61 Start: 43678, Stop: 43938, Start Num: 90

Candidate Starts for Lakshmi_61:

(Start: 90 @43678 has 63 MA's), (91, 43684), (102, 43735), (103, 43738), (105, 43750), (130, 43882),

Gene: Laphuphu24k_68 Start: 38089, Stop: 38376, Start Num: 75

Candidate Starts for Laphuphu24k_68:

(Start: 75 @38089 has 13 MA's), (117, 38242), (128, 38305),

Gene: Lasagna_59 Start: 42266, Stop: 42526, Start Num: 90

Candidate Starts for Lasagna_59:

(Start: 84 @42248 has 13 MA's), (Start: 90 @42266 has 63 MA's), (92, 42284), (126, 42443), (137, 42500), (138, 42506),

Gene: Lennox_61 Start: 42751, Stop: 43011, Start Num: 90

Candidate Starts for Lennox_61:

(Start: 84 @42733 has 13 MA's), (Start: 90 @42751 has 63 MA's), (92, 42769), (106, 42826), (126, 42928), (137, 42985), (138, 42991),

Gene: Lenoxika_66 Start: 41766, Stop: 42062, Start Num: 73

Candidate Starts for Lenoxika_66:

(Start: 73 @41766 has 15 MA's), (102, 41862), (116, 41922), (121, 41958),

Gene: Leona_68 Start: 38237, Stop: 38518, Start Num: 80

Candidate Starts for Leona_68:

(Start: 80 @38237 has 2 MA's), (117, 38384), (128, 38447),

Gene: LilStuart_60 Start: 42614, Stop: 42874, Start Num: 90

Candidate Starts for LilStuart_60:

(Start: 84 @42596 has 13 MA's), (Start: 90 @42614 has 63 MA's), (92, 42632), (126, 42791), (137, 42848), (138, 42854),

Gene: Lilo27_70 Start: 41100, Stop: 41375, Start Num: 87

Candidate Starts for Lilo27_70:

(Start: 87 @41100 has 80 MA's), (125, 41286),

Gene: LimaBean_68 Start: 40790, Stop: 41065, Start Num: 87

Candidate Starts for LimaBean_68:

(45, 40715), (55, 40730), (69, 40760), (Start: 73 @40763 has 15 MA's), (Start: 87 @40790 has 80 MA's),

Gene: Litotes_62 Start: 43156, Stop: 43416, Start Num: 90

Candidate Starts for Litotes_62:

(Start: 73 @43123 has 15 MA's), (Start: 85 @43144 has 4 MA's), (88, 43150), (Start: 90 @43156 has 63 MA's),

Gene: LittleTokyo_73 Start: 38604, Stop: 38882, Start Num: 83

Candidate Starts for LittleTokyo_73:

(Start: 83 @38604 has 25 MA's), (125, 38796),

Gene: Loviatar_67 Start: 42044, Stop: 42379, Start Num: 53

Candidate Starts for Loviatar_67:

(44, 42029), (Start: 53 @42044 has 3 MA's), (71, 42077), (Start: 87 @42104 has 80 MA's), (93, 42137), (126, 42293),

Gene: Lucy_60 Start: 42591, Stop: 42869, Start Num: 84

Candidate Starts for Lucy_60:

(Start: 84 @42591 has 13 MA's), (Start: 90 @42609 has 63 MA's), (92, 42627), (126, 42786), (137, 42843), (138, 42849),

Gene: Lynlen_71 Start: 40984, Stop: 41259, Start Num: 87

Candidate Starts for Lynlen_71:

(Start: 80 @40972 has 2 MA's), (Start: 87 @40984 has 80 MA's),

Gene: Mahdia_60 Start: 41790, Stop: 42113, Start Num: 58

Candidate Starts for Mahdia_60:

(Start: 58 @41790 has 1 MA's), (Start: 63 @41796 has 1 MA's), (116, 41970), (118, 41988), (132, 42075),

Gene: Maja_56 Start: 36343, Stop: 36714, Start Num: 40

Candidate Starts for Maja_56:

(Start: 40 @36343 has 1 MA's), (Start: 74 @36415 has 4 MA's), (Start: 83 @36433 has 25 MA's),

Gene: Makoto_60 Start: 42571, Stop: 42831, Start Num: 90

Candidate Starts for Makoto_60:

(Start: 84 @42553 has 13 MA's), (Start: 90 @42571 has 63 MA's), (92, 42589), (106, 42646), (126, 42748), (137, 42805), (138, 42811),

Gene: MamaPearl_60 Start: 43409, Stop: 43669, Start Num: 90

Candidate Starts for MamaPearl_60:

(Start: 90 @43409 has 63 MA's), (92, 43427), (106, 43484),

Gene: Maria1952_59 Start: 43613, Stop: 43870, Start Num: 90

Candidate Starts for Maria1952_59:

(Start: 89 @43604 has 1 MA's), (Start: 90 @43613 has 63 MA's), (92, 43631), (107, 43688), (122, 43766),

Gene: MeganNoll_63 Start: 43904, Stop: 44182, Start Num: 84

Candidate Starts for MeganNoll_63:

(Start: 84 @43904 has 13 MA's), (Start: 90 @43922 has 63 MA's), (92, 43940), (105, 43994),

Gene: MillySue_71 Start: 41794, Stop: 42090, Start Num: 73

Candidate Starts for MillySue_71:

(Start: 73 @41794 has 15 MA's), (102, 41890), (137, 42064),

Gene: Milomuff_72 Start: 41357, Stop: 41632, Start Num: 87

Candidate Starts for Milomuff_72:

(Start: 87 @41357 has 80 MA's),

Gene: Misaeng_61 Start: 43477, Stop: 43737, Start Num: 90

Candidate Starts for Misaeng_61:

(Start: 90 @43477 has 63 MA's), (102, 43534), (103, 43537), (105, 43549), (130, 43681),

Gene: Moki_62 Start: 42825, Stop: 43085, Start Num: 90

Candidate Starts for Moki_62:

(Start: 84 @42807 has 13 MA's), (Start: 90 @42825 has 63 MA's), (92, 42843), (106, 42900), (126, 43002), (133, 43050),

Gene: MrBoss_63 Start: 42722, Stop: 42994, Start Num: 85

Candidate Starts for MrBoss_63:

(Start: 73 @42701 has 15 MA's), (Start: 85 @42722 has 4 MA's), (88, 42728), (Start: 90 @42734 has 63 MA's),

Gene: MrGloopy_62 Start: 43347, Stop: 43625, Start Num: 84

Candidate Starts for MrGloopy_62:

(Start: 84 @43347 has 13 MA's), (Start: 90 @43365 has 63 MA's), (92, 43383), (105, 43437),

Gene: MsUbiquitous_71 Start: 41251, Stop: 41526, Start Num: 87

Candidate Starts for MsUbiquitous_71:

(Start: 87 @41251 has 80 MA's),

Gene: Nancia_61 Start: 42902, Stop: 43162, Start Num: 90

Candidate Starts for Nancia_61:

(Start: 84 @42884 has 13 MA's), (Start: 90 @42902 has 63 MA's), (92, 42920), (126, 43079), (137, 43136), (138, 43142),

Gene: Nandita_68 Start: 42024, Stop: 42323, Start Num: 70

Candidate Starts for Nandita_68:

(28, 41931), (52, 42000), (Start: 70 @42024 has 1 MA's), (116, 42183), (117, 42192), (137, 42297),

Gene: Niblet_63 Start: 38827, Stop: 39105, Start Num: 83

Candidate Starts for Niblet_63:

(17, 38716), (60, 38785), (64, 38791), (Start: 83 @38827 has 25 MA's),

Gene: Nicky22_69 Start: 41321, Stop: 41596, Start Num: 87

Candidate Starts for Nicky22_69:

(Start: 87 @41321 has 80 MA's), (125, 41507),

Gene: Nubia_61 Start: 43705, Stop: 43965, Start Num: 90

Candidate Starts for Nubia_61:

(Start: 82 @43687 has 1 MA's), (Start: 90 @43705 has 63 MA's), (102, 43762), (103, 43765), (130, 43909),

Gene: OMalley_60 Start: 43400, Stop: 43660, Start Num: 90

Candidate Starts for OMalley_60:

(Start: 56 @43331 has 2 MA's), (66, 43352), (Start: 90 @43400 has 63 MA's), (93, 43421), (105, 43472),

Gene: Olliecat_66 Start: 38762, Stop: 39037, Start Num: 87

Candidate Starts for Olliecat_66:

(1, 38429), (13, 38579), (27, 38630), (Start: 87 @38762 has 80 MA's), (125, 38948), (135, 39005),

Gene: Oppalora_68 Start: 38103, Stop: 38390, Start Num: 75

Candidate Starts for Oppalora_68:

(Start: 75 @38103 has 13 MA's), (117, 38256), (128, 38319),

Gene: Orcanus_65 Start: 39051, Stop: 39329, Start Num: 83

Candidate Starts for Orcanus_65:

(Start: 83 @39051 has 25 MA's),

Gene: OurGirlNessie_59 Start: 42225, Stop: 42485, Start Num: 90

Candidate Starts for OurGirlNessie_59:

(Start: 84 @42207 has 13 MA's), (Start: 90 @42225 has 63 MA's), (92, 42243), (106, 42300), (126, 42402), (137, 42459), (138, 42465),

Gene: Oxynfrius_62 Start: 43823, Stop: 44083, Start Num: 90

Candidate Starts for Oxynfrius_62:

(Start: 90 @43823 has 63 MA's), (102, 43880), (103, 43883), (130, 44027),

Gene: PartyCup_62 Start: 43576, Stop: 43848, Start Num: 85

Candidate Starts for PartyCup_62:

(Start: 73 @43555 has 15 MA's), (Start: 85 @43576 has 4 MA's), (88, 43582), (Start: 90 @43588 has 63 MA's),

Gene: PastaFagioli_71 Start: 41718, Stop: 42053, Start Num: 53

Candidate Starts for PastaFagioli_71:

(33, 41670), (44, 41703), (Start: 53 @41718 has 3 MA's), (67, 41745), (71, 41751), (Start: 80 @41766 has 2 MA's), (Start: 87 @41778 has 80 MA's),

Gene: Pecas_70 Start: 41217, Stop: 41492, Start Num: 87

Candidate Starts for Pecas_70:

(Start: 87 @41217 has 80 MA's), (125, 41403),

Gene: PhigPhack_73 Start: 41119, Stop: 41394, Start Num: 87

Candidate Starts for PhigPhack_73:

(Start: 87 @41119 has 80 MA's), (125, 41305),

Gene: Phisb_72 Start: 41092, Stop: 41367, Start Num: 87

Candidate Starts for Phisb_72:

(Start: 87 @41092 has 80 MA's),

Gene: PhluffyCoco_68 Start: 38203, Stop: 38490, Start Num: 75

Candidate Starts for PhluffyCoco_68:

(Start: 75 @38203 has 13 MA's), (117, 38356), (128, 38419),

Gene: PinkFriday_61 Start: 42959, Stop: 43216, Start Num: 90

Candidate Starts for PinkFriday_61:

(Start: 89 @42950 has 1 MA's), (Start: 90 @42959 has 63 MA's), (107, 43034), (109, 43037), (122, 43112), (138, 43196),

Gene: PitaDog_61 Start: 42609, Stop: 42887, Start Num: 84

Candidate Starts for PitaDog_61:

(Start: 84 @42609 has 13 MA's), (Start: 90 @42627 has 63 MA's), (92, 42645), (106, 42702), (126, 42804), (137, 42861), (138, 42867),

Gene: PondAmelia_69 Start: 41025, Stop: 41300, Start Num: 87

Candidate Starts for PondAmelia_69:

(32, 40914), (44, 40950), (Start: 53 @40965 has 3 MA's), (71, 40998), (Start: 87 @41025 has 80 MA's), (93, 41058), (125, 41211), (126, 41214),

Gene: Popper_70 Start: 41441, Stop: 41767, Start Num: 50

Candidate Starts for Popper_70:

(28, 41375), (Start: 50 @41441 has 4 MA's), (Start: 73 @41471 has 15 MA's), (102, 41567), (116, 41627), (137, 41741), (138, 41747),

Gene: Potatoes_62 Start: 43324, Stop: 43584, Start Num: 90

Candidate Starts for Potatoes_62:

(Start: 84 @43306 has 13 MA's), (Start: 90 @43324 has 63 MA's), (92, 43342), (105, 43396),

Gene: PrairieDogTown_52 Start: 35824, Stop: 36162, Start Num: 49

Candidate Starts for PrairieDogTown_52:

(Start: 49 @35824 has 1 MA's), (Start: 83 @35881 has 25 MA's),

Gene: Preamble_64 Start: 43037, Stop: 43297, Start Num: 90

Candidate Starts for Preamble_64:

(Start: 84 @43019 has 13 MA's), (Start: 90 @43037 has 63 MA's), (92, 43055), (106, 43112), (122, 43193), (126, 43214),

Gene: Pterodactyl_61 Start: 42938, Stop: 43198, Start Num: 90

Candidate Starts for Pterodactyl_61:

(Start: 84 @42920 has 13 MA's), (Start: 90 @42938 has 63 MA's), (92, 42956), (106, 43013), (126, 43115), (137, 43172), (138, 43178),

Gene: Pumancara_61 Start: 42494, Stop: 42751, Start Num: 90

Candidate Starts for Pumancara_61:

(Start: 89 @42485 has 1 MA's), (Start: 90 @42494 has 63 MA's), (107, 42569), (109, 42572), (122, 42647), (138, 42731),

Gene: Puppies_62 Start: 41790, Stop: 42113, Start Num: 62

Candidate Starts for Puppies_62:

(25, 41697), (31, 41718), (36, 41733), (39, 41739), (51, 41775), (Start: 62 @41790 has 2 MA's), (118, 41988),

Gene: QMacho_72 Start: 41222, Stop: 41497, Start Num: 87

Candidate Starts for QMacho_72:

(Start: 87 @41222 has 80 MA's),

Gene: Quenya_69 Start: 41516, Stop: 41791, Start Num: 87

Candidate Starts for Quenya_69:

(Start: 87 @41516 has 80 MA's), (93, 41549), (125, 41702), (139, 41774),

Gene: QuinnAvery_70 Start: 42826, Stop: 43122, Start Num: 73

Candidate Starts for QuinnAvery_70:

(30, 42730), (Start: 73 @42826 has 15 MA's), (102, 42922), (116, 42982), (117, 42991),

Gene: RAP15_63 Start: 43905, Stop: 44183, Start Num: 84

Candidate Starts for RAP15_63:

(Start: 84 @43905 has 13 MA's), (Start: 90 @43923 has 63 MA's), (92, 43941), (105, 43995),

Gene: Rattail_71 Start: 38499, Stop: 38786, Start Num: 75

Candidate Starts for Rattail_71:

(Start: 75 @38499 has 13 MA's), (117, 38652), (128, 38715),

Gene: RcigaStruga_62 Start: 43551, Stop: 43811, Start Num: 90

Candidate Starts for RcigaStruga_62:

(Start: 82 @43533 has 1 MA's), (Start: 90 @43551 has 63 MA's), (102, 43608), (103, 43611), (105, 43623), (130, 43755),

Gene: RedFox_71 Start: 38363, Stop: 38650, Start Num: 75

Candidate Starts for RedFox_71:

(Start: 75 @38363 has 13 MA's), (117, 38516), (128, 38579),

Gene: RegnumDei_109 Start: 60267, Stop: 60536, Start Num: 87

Candidate Starts for RegnumDei_109:

(Start: 87 @60267 has 80 MA's), (117, 60408), (119, 60420), (136, 60507),

Gene: Renna12_72 Start: 38798, Stop: 39091, Start Num: 74

Candidate Starts for Renna12_72:

(59, 38777), (Start: 74 @38798 has 4 MA's), (117, 38957), (128, 39020),

Gene: Reyja_65 Start: 41077, Stop: 41433, Start Num: 42

Candidate Starts for Reyja_65:

(Start: 42 @41077 has 3 MA's), (Start: 81 @41149 has 1 MA's), (94, 41203),

Gene: Riovina_60 Start: 43400, Stop: 43660, Start Num: 90

Candidate Starts for Riovina_60:

(Start: 56 @43331 has 2 MA's), (66, 43352), (Start: 90 @43400 has 63 MA's), (93, 43421), (105, 43472),

Gene: Riverdale_61 Start: 43055, Stop: 43315, Start Num: 90

Candidate Starts for Riverdale_61:

(Start: 84 @43037 has 13 MA's), (Start: 90 @43055 has 63 MA's), (92, 43073), (105, 43127),

Gene: Rollins_70 Start: 39578, Stop: 39853, Start Num: 87

Candidate Starts for Rollins_70:

(10, 39380), (14, 39395), (22, 39422), (30, 39455), (44, 39503), (Start: 53 @39518 has 3 MA's), (71, 39551), (Start: 87 @39578 has 80 MA's),

Gene: Rona_66 Start: 41247, Stop: 41522, Start Num: 87

Candidate Starts for Rona_66:

(44, 41172), (Start: 87 @41247 has 80 MA's), (125, 41433), (130, 41463),

Gene: Rozby_60 Start: 42859, Stop: 43119, Start Num: 90

Candidate Starts for Rozby_60:

(Start: 84 @42841 has 13 MA's), (Start: 90 @42859 has 63 MA's), (92, 42877), (105, 42931),

Gene: Ruchi_64 Start: 38215, Stop: 38493, Start Num: 83

Candidate Starts for Ruchi_64:

(30, 38110), (Start: 42 @38140 has 3 MA's), (Start: 76 @38203 has 2 MA's), (Start: 83 @38215 has 25 MA's),

Gene: Ryan_70 Start: 42477, Stop: 42773, Start Num: 73

Candidate Starts for Ryan_70:

(Start: 50 @42438 has 4 MA's), (Start: 73 @42477 has 15 MA's), (116, 42633), (137, 42747),

Gene: Saintcarr_67 Start: 42490, Stop: 42786, Start Num: 73

Candidate Starts for Saintcarr_67:

(Start: 73 @42490 has 15 MA's), (116, 42646), (117, 42655), (137, 42760),

Gene: SanaSana_70 Start: 41542, Stop: 41817, Start Num: 87

Candidate Starts for SanaSana_70:

(2, 41296), (5, 41311), (11, 41350), (41, 41458), (44, 41467), (Start: 53 @41482 has 3 MA's), (71, 41515), (Start: 87 @41542 has 80 MA's), (93, 41575), (125, 41728), (126, 41731),

Gene: SansAfet_72 Start: 41068, Stop: 41343, Start Num: 87

Candidate Starts for SansAfet_72:

(Start: 87 @41068 has 80 MA's), (125, 41254),

Gene: Sapo_61 Start: 45211, Stop: 45513, Start Num: 76

Candidate Starts for Sapo_61:

(Start: 76 @45211 has 2 MA's), (103, 45304), (113, 45337), (123, 45412), (140, 45505),

Gene: SarBear_72 Start: 41148, Stop: 41423, Start Num: 87

Candidate Starts for SarBear_72:

(Start: 87 @41148 has 80 MA's),

Gene: Savage2526_61 Start: 43082, Stop: 43342, Start Num: 90

Candidate Starts for Savage2526_61:

(Start: 84 @43064 has 13 MA's), (Start: 90 @43082 has 63 MA's), (92, 43100), (105, 43154),

Gene: Schism_71 Start: 42712, Stop: 43011, Start Num: 68

Candidate Starts for Schism_71:

(Start: 50 @42688 has 4 MA's), (Start: 68 @42712 has 2 MA's), (95, 42790), (102, 42811), (116, 42871), (121, 42907), (131, 42967),

Gene: Schmidt_58 Start: 36837, Stop: 37133, Start Num: 79

Candidate Starts for Schmidt_58:

(Start: 79 @36837 has 8 MA's), (118, 37008), (137, 37107),

Gene: Scuttle_61 Start: 43375, Stop: 43653, Start Num: 84

Candidate Starts for Scuttle_61:

(Start: 84 @43375 has 13 MA's), (Start: 90 @43393 has 63 MA's), (92, 43411), (105, 43465),

Gene: Sergei_60 Start: 43614, Stop: 43871, Start Num: 90

Candidate Starts for Sergei_60:

(Start: 89 @43605 has 1 MA's), (Start: 90 @43614 has 63 MA's), (92, 43632), (107, 43689), (122, 43767),

Gene: Shagrat_110 Start: 58151, Stop: 58423, Start Num: 86

Candidate Starts for Shagrat_110:

(Start: 86 @58151 has 1 MA's), (110, 58256), (117, 58295), (134, 58391), (136, 58394),

Gene: Sharkboy_68 Start: 41611, Stop: 41886, Start Num: 87

Candidate Starts for Sharkboy_68:

(44, 41536), (Start: 87 @41611 has 80 MA's), (93, 41644), (125, 41797), (130, 41827),

Gene: Shayna_75 Start: 41004, Stop: 41279, Start Num: 87

Candidate Starts for Shayna_75:

(Start: 87 @41004 has 80 MA's), (125, 41190),

Gene: SirBeanington_70 Start: 41335, Stop: 41610, Start Num: 87

Candidate Starts for SirBeanington_70:

(Start: 87 @41335 has 80 MA's), (125, 41521),

Gene: Skylord_70 Start: 39495, Stop: 39770, Start Num: 87

Candidate Starts for Skylord_70:

(10, 39297), (14, 39312), (22, 39339), (30, 39372), (44, 39420), (Start: 53 @39435 has 3 MA's), (71, 39468), (Start: 87 @39495 has 80 MA's),

Gene: Slay_70 Start: 41458, Stop: 41733, Start Num: 87

Candidate Starts for Slay_70:

(Start: 87 @41458 has 80 MA's), (125, 41644),

Gene: Softsoap_71 Start: 41189, Stop: 41464, Start Num: 87

Candidate Starts for Softsoap_71:

(Start: 87 @41189 has 80 MA's),

Gene: Solea_73 Start: 41356, Stop: 41631, Start Num: 87

Candidate Starts for Solea_73:

(Start: 87 @41356 has 80 MA's),

Gene: Splinter_64 Start: 40315, Stop: 40611, Start Num: 79

Candidate Starts for Splinter_64:

(Start: 79 @40315 has 8 MA's), (121, 40504), (132, 40573),

Gene: Squiddly_1 Start: 362, Stop: 730, Start Num: 108

Candidate Starts for Squiddly_1:

(2, 11), (6, 41), (24, 110), (Start: 108 @362 has 1 MA's), (114, 392), (120, 440), (127, 476), (141, 596),

Gene: Squirle_66 Start: 38761, Stop: 39036, Start Num: 87

Candidate Starts for Squirle_66:

(1, 38428), (13, 38578), (27, 38629), (Start: 87 @38761 has 80 MA's), (125, 38947), (135, 39004),

Gene: Stoor_69 Start: 41350, Stop: 41625, Start Num: 87

Candidate Starts for Stoor_69:

(Start: 87 @41350 has 80 MA's), (125, 41536), (126, 41539),

Gene: Stromboli_68 Start: 41130, Stop: 41405, Start Num: 87

Candidate Starts for Stromboli_68:

(2, 40884), (5, 40899), (11, 40938), (41, 41046), (44, 41055), (Start: 53 @41070 has 3 MA's), (71, 41103), (Start: 87 @41130 has 80 MA's), (125, 41316), (126, 41319),

Gene: StuartMinion_61 Start: 34829, Stop: 35122, Start Num: 74

Candidate Starts for StuartMinion_61:

(47, 34787), (Start: 74 @34829 has 4 MA's), (117, 34988), (137, 35096),

Gene: SunnyD_75 Start: 41007, Stop: 41282, Start Num: 87

Candidate Starts for SunnyD_75:

(Start: 87 @41007 has 80 MA's), (125, 41193),

Gene: Supakev_60 Start: 43425, Stop: 43685, Start Num: 90

Candidate Starts for Supakev_60:

(Start: 56 @43356 has 2 MA's), (66, 43377), (Start: 90 @43425 has 63 MA's), (92, 43443), (93, 43446), (105, 43497),

Gene: Suppi_62 Start: 43562, Stop: 43834, Start Num: 85

Candidate Starts for Suppi_62:

(Start: 73 @43541 has 15 MA's), (Start: 85 @43562 has 4 MA's), (88, 43568), (Start: 90 @43574 has 63 MA's),

Gene: Swervy_70 Start: 41047, Stop: 41322, Start Num: 87

Candidate Starts for Swervy_70:

(Start: 87 @41047 has 80 MA's), (125, 41233),

Gene: TZGordon_65 Start: 39203, Stop: 39499, Start Num: 79

Candidate Starts for TZGordon_65:

(Start: 79 @39203 has 8 MA's), (121, 39392), (132, 39461),

Gene: TattModd_61 Start: 43209, Stop: 43469, Start Num: 90

Candidate Starts for TattModd_61:

(Start: 84 @43191 has 13 MA's), (Start: 90 @43209 has 63 MA's), (92, 43227), (105, 43281),

Gene: TaylorSipht_65 Start: 38681, Stop: 38959, Start Num: 83

Candidate Starts for TaylorSipht_65:

(Start: 83 @38681 has 25 MA's),

Gene: Teagster_75 Start: 41426, Stop: 41701, Start Num: 87

Candidate Starts for Teagster_75:

(Start: 87 @41426 has 80 MA's), (125, 41612),

Gene: Temper16_60 Start: 43614, Stop: 43871, Start Num: 90

Candidate Starts for Temper16_60:

(Start: 89 @43605 has 1 MA's), (Start: 90 @43614 has 63 MA's), (92, 43632), (107, 43689), (122, 43767),

Gene: TinaLin_63 Start: 39046, Stop: 39342, Start Num: 79

Candidate Starts for TinaLin_63:

(57, 39004), (Start: 79 @39046 has 8 MA's), (92, 39088), (112, 39172), (132, 39304),

Gene: Toad24_68 Start: 39472, Stop: 39750, Start Num: 83

Candidate Starts for Toad24_68:

(28, 39418), (Start: 83 @39472 has 25 MA's), (140, 39742),

Gene: ToastyOats_70 Start: 42136, Stop: 42432, Start Num: 73

Candidate Starts for ToastyOats_70:

(Start: 73 @42136 has 15 MA's), (102, 42232), (116, 42292), (121, 42328),

Gene: Toodles_69 Start: 42560, Stop: 42856, Start Num: 73

Candidate Starts for Toodles_69:

(28, 42464), (Start: 50 @42530 has 4 MA's), (Start: 73 @42560 has 15 MA's), (102, 42656), (128, 42788), (137, 42830), (138, 42836),

Gene: TukTuk_70 Start: 41237, Stop: 41512, Start Num: 87

Candidate Starts for TukTuk_70:

(Start: 87 @41237 has 80 MA's), (125, 41423),

Gene: Typha_129 Start: 74982, Stop: 75305, Start Num: 61

Candidate Starts for Typha_129:

(Start: 61 @74982 has 6 MA's), (110, 75132), (124, 75213), (129, 75237), (130, 75249),

Gene: Upyo_69 Start: 44979, Stop: 45296, Start Num: 63

Candidate Starts for Upyo_69:

(Start: 63 @44979 has 1 MA's), (96, 45075), (116, 45153), (118, 45171),

Gene: Urla_62 Start: 43603, Stop: 43863, Start Num: 90

Candidate Starts for Urla_62:

(Start: 90 @43603 has 63 MA's), (92, 43621), (106, 43678),

Gene: Vallejo_62 Start: 43253, Stop: 43531, Start Num: 84

Candidate Starts for Vallejo_62:

(Start: 84 @43253 has 13 MA's), (Start: 90 @43271 has 63 MA's), (92, 43289), (105, 43343),

Gene: Vendetta_64 Start: 40315, Stop: 40611, Start Num: 79

Candidate Starts for Vendetta_64:

(Start: 79 @40315 has 8 MA's), (121, 40504), (132, 40573),

Gene: Vitas_71 Start: 39646, Stop: 39921, Start Num: 87

Candidate Starts for Vitas_71:

(19, 39487), (48, 39580), (Start: 87 @39646 has 80 MA's), (93, 39679),

Gene: Vulpecula_64 Start: 37410, Stop: 37688, Start Num: 83

Candidate Starts for Vulpecula_64:

(Start: 76 @37398 has 2 MA's), (Start: 83 @37410 has 25 MA's),

Gene: Vulture_60 Start: 42928, Stop: 43257, Start Num: 56

Candidate Starts for Vulture_60:

(Start: 56 @42928 has 2 MA's), (66, 42949), (Start: 90 @42997 has 63 MA's), (92, 43015), (93, 43018), (105, 43069),

Gene: WalkingDead_71 Start: 42012, Stop: 42287, Start Num: 87

Candidate Starts for WalkingDead_71:

(Start: 87 @42012 has 80 MA's), (125, 42198), (126, 42201),

Gene: Wawa_62 Start: 43514, Stop: 43774, Start Num: 90

Candidate Starts for Wawa_62:

(Start: 84 @43496 has 13 MA's), (Start: 90 @43514 has 63 MA's), (92, 43532), (105, 43586),

Gene: Wayne_64 Start: 44019, Stop: 44291, Start Num: 85

Candidate Starts for Wayne_64:

(Start: 73 @43998 has 15 MA's), (Start: 85 @44019 has 4 MA's), (88, 44025), (Start: 90 @44031 has 63 MA's),

Gene: Widow_62 Start: 42336, Stop: 42659, Start Num: 62

Candidate Starts for Widow_62:

(25, 42243), (31, 42264), (36, 42279), (39, 42285), (46, 42312), (51, 42321), (Start: 62 @42336 has 2 MA's), (118, 42534),

Gene: WileyE_66 Start: 38402, Stop: 38680, Start Num: 83

Candidate Starts for WileyE_66:

(Start: 76 @38390 has 2 MA's), (Start: 83 @38402 has 25 MA's),

Gene: WonderBoy_59 Start: 42399, Stop: 42659, Start Num: 90

Candidate Starts for WonderBoy_59:

(Start: 84 @42381 has 13 MA's), (Start: 90 @42399 has 63 MA's), (92, 42417), (106, 42474), (126, 42576), (137, 42633), (138, 42639),

Gene: Yonex_69 Start: 42477, Stop: 42773, Start Num: 73

Candidate Starts for Yonex_69:

(Start: 50 @42438 has 4 MA's), (Start: 73 @42477 has 15 MA's), (116, 42633), (137, 42747),

Gene: Zaheer_69 Start: 42523, Stop: 42819, Start Num: 73

Candidate Starts for Zaheer_69:

(Start: 73 @42523 has 15 MA's), (102, 42619), (116, 42679), (121, 42715),

Gene: Zhuangyuan_77 Start: 39902, Stop: 40180, Start Num: 83

Candidate Starts for Zhuangyuan_77:

(Start: 83 @39902 has 25 MA's),

Gene: Zixiang_65 Start: 38816, Stop: 39094, Start Num: 83

Candidate Starts for Zixiang_65:

(Start: 83 @38816 has 25 MA's), (140, 39086),

Gene: Zorro_62 Start: 43226, Stop: 43486, Start Num: 90

Candidate Starts for Zorro_62:

(Start: 84 @43208 has 13 MA's), (Start: 90 @43226 has 63 MA's), (92, 43244), (105, 43298),