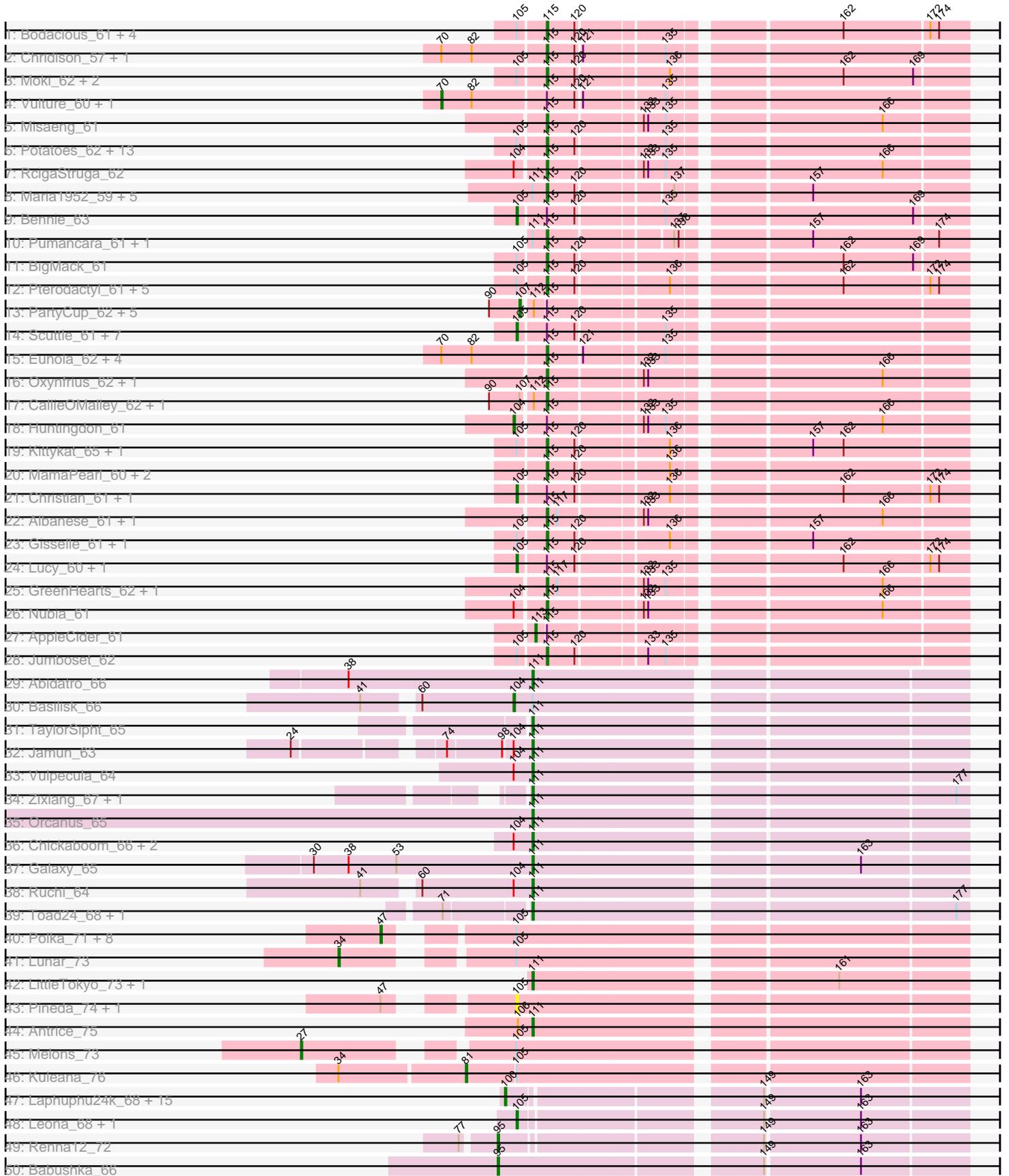
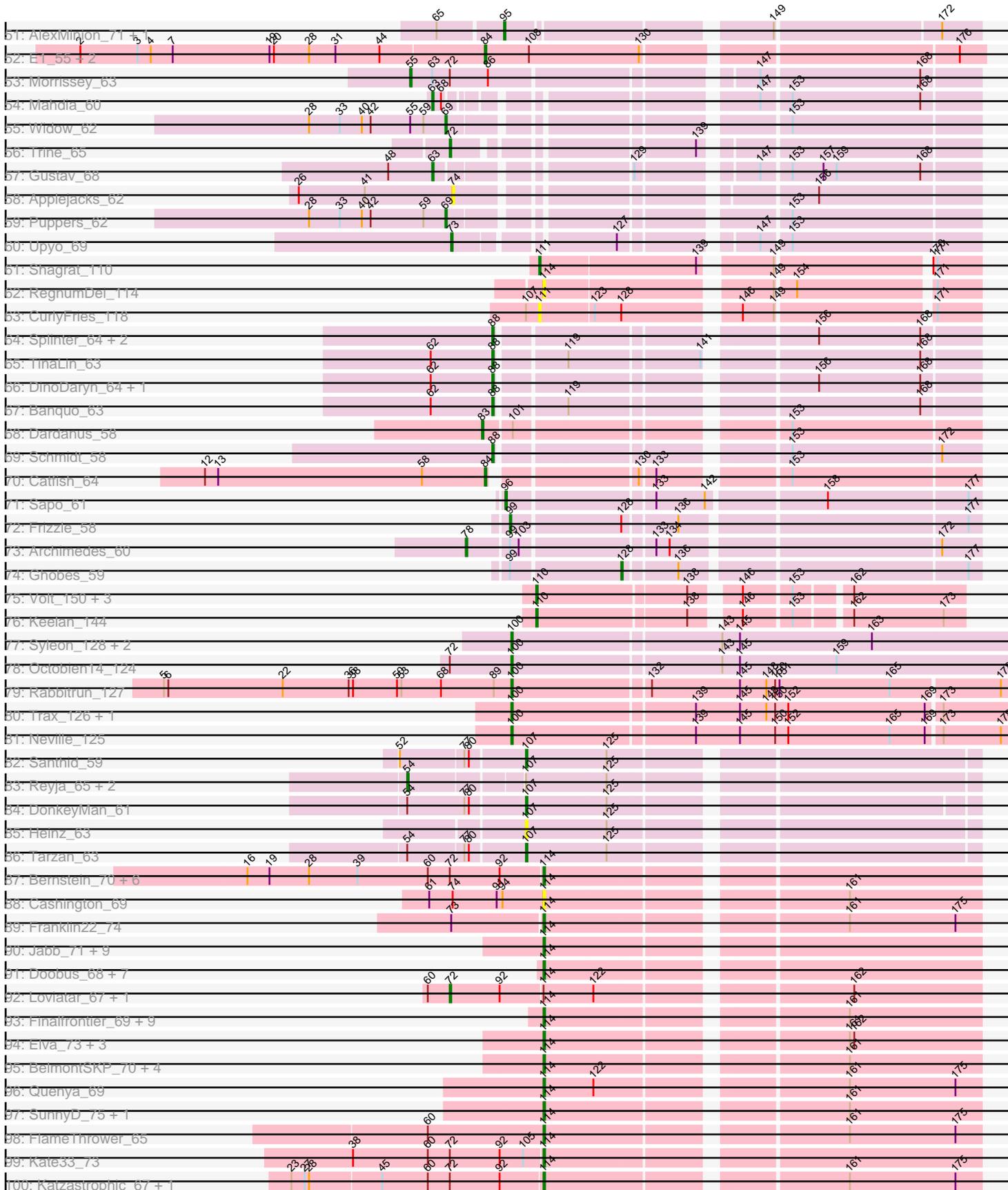


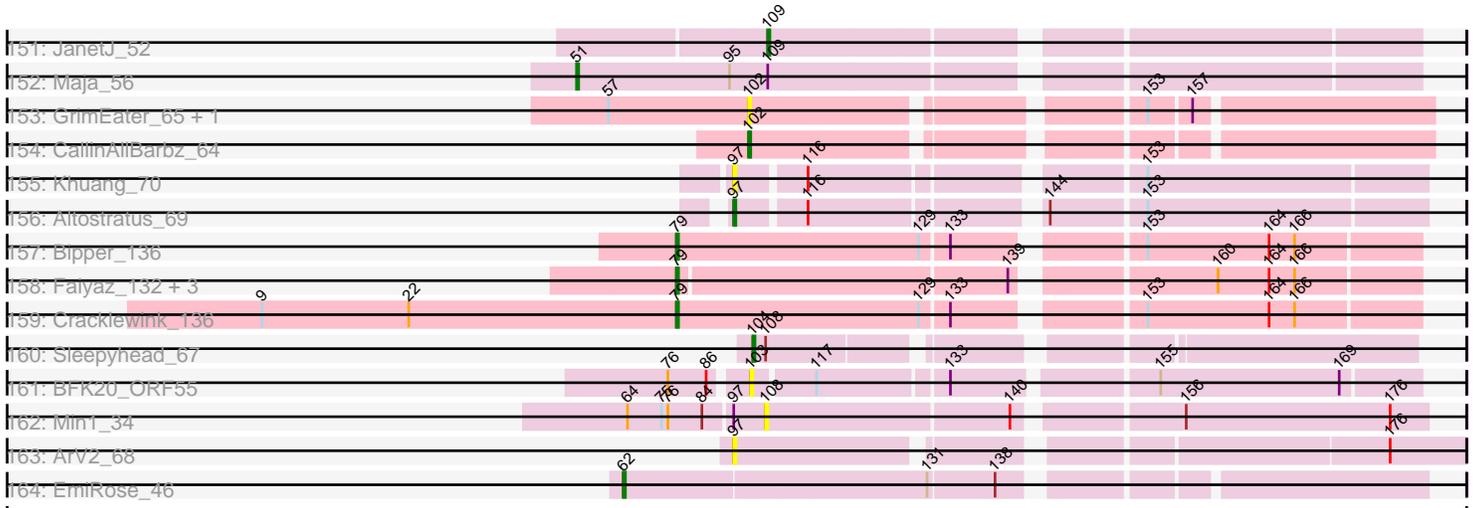
Pham 283409



Pham 283409



Pham 283409



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 283409 Report

This analysis was run 02/23/26 on database version 636.

Pham number 283409 has 321 members, 45 are drafts.

Phages represented in each track:

- Track 1 : Bodacious_61, CristinaYang_61, Nancia_61, LilStuart_60, Lasagna_59
- Track 2 : Chridison_57, Supakev_60
- Track 3 : Moki_62, Huckleberry_62, HeadNerd_62
- Track 4 : Vulture_60, HunterDalle_60
- Track 5 : Misaeng_61
- Track 6 : Potatoes_62, Beethoven_63, Riverdale_61, BrotherBLo_62, Korra_62, Cholula_62, Savage2526_61, Carpal_61, Zorro_62, TattModd_61, Rozby_60, Immaculata_62, Kalizoi_62, Wawa_62
- Track 7 : RcigaStruga_62
- Track 8 : Maria1952_59, Herb_60, Daiboju_60, KingBob_60, Sergei_60, Temper16_60
- Track 9 : Bennie_63
- Track 10 : Pumancara_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, MrBoss_63, Canowicakte_62
- Track 14 : Scuttle_61, MrGloopy_62, RAP15_63, Glenn_64, Vallejo_62, Dino_62, MeganNoll_63, Fluke_62
- Track 15 : Eunoia_62, OMalley_60, Aledel_60, AustinPowers_60, Riovina_60
- Track 16 : Oxynfrius_62, Joann_63
- Track 17 : CallieOMalley_62, Litotes_62
- Track 18 : Huntingdon_61
- Track 19 : Kittykat_65, Preamble_64
- Track 20 : MamaPearl_60, EstebanJulior_60, Urla_62
- Track 21 : Christian_61, PitaDog_61
- Track 22 : Albanese_61, Greenhouse_61
- Track 23 : Gisselle_61, DreamTeam_61
- Track 24 : Lucy_60, DrRobert_59
- Track 25 : GreenHearts_62, Lakshmi_61
- Track 26 : Nubia_61
- Track 27 : AppleCider_61
- Track 28 : Jumboset_62
- Track 29 : Abidatro_66
- Track 30 : Basilisk_66
- Track 31 : TaylorSipht_65

- Track 32 : Jamun_63
- Track 33 : Vulpecula_64
- Track 34 : Zixiang_67, Eesa_65
- Track 35 : Orcanus_65
- Track 36 : Chickaboom_66, Brynnie_64, WileyE_70
- Track 37 : Galaxy_65
- Track 38 : Ruchi_64
- Track 39 : Toad24_68, KendraB23_76
- Track 40 : Polka_71, Cote_75, Amelia_71, Kepler_75, Coral_72, PhirstandPhine_78, Daob_71, OtsoOtso_72, Colusalem_71
- Track 41 : Lunar_73
- Track 42 : LittleTokyo_73, Cygnet_73
- Track 43 : Pineda_74, Bibble12_75
- Track 44 : Antrice_75
- Track 45 : Melons_73
- Track 46 : Kuleana_76
- Track 47 : Laphuphu24k_68, KHumphrey_70, Glotell_71, Rattail_71, Juno112_69, DanHam62_70, Fingolfin_70, PhluffyCoco_68, AmiCi24_68, Camara_69, RedFox_71, Atlantica_70, AdoptaAdorbs_68, Amphitrite_69, HamCheese_69, Oppalora_68
- Track 48 : Leona_68, Azaz_72
- Track 49 : Renna12_72
- Track 50 : Babushka_66
- Track 51 : AlexMinion_71, StuartMinion_61
- Track 52 : E1_55, Anatole_55, B3_57
- Track 53 : Morrissey_63
- Track 54 : Mahdia_60
- Track 55 : Widow_62
- Track 56 : Trine_65
- Track 57 : Gustav_68
- Track 58 : Applejacks_62
- Track 59 : Puppies_62
- Track 60 : Upyo_69
- Track 61 : Shagrat_110
- Track 62 : RegnumDei_114
- Track 63 : CurlyFries_118
- Track 64 : Splinter_64, TZGordon_65, Vendetta_64
- Track 65 : TinaLin_63
- Track 66 : DinoDaryn_64, Huffy_64
- Track 67 : Banquo_63
- Track 68 : Dardanus_58
- Track 69 : Schmidt_58
- Track 70 : Catfish_64
- Track 71 : Sapo_61
- Track 72 : Frizzle_58
- Track 73 : Archimedes_60
- Track 74 : Ghobes_59
- Track 75 : Volt_150, Guey18_149, Fryberger_144, Ronaldo_147
- Track 76 : Keelan_144
- Track 77 : Syleon_128, Kudfre_128, Sephiroth_123
- Track 78 : Octobien14_124
- Track 79 : Rabbitrun_127
- Track 80 : Trax_126, LilJank_122

- Track 81 : Neville_125
- Track 82 : Santhid_59
- Track 83 : Reyja_65, Hibiscus_63, Jojo24_63
- Track 84 : DonkeyMan_61
- Track 85 : Heinz_63
- Track 86 : Tarzan_63
- Track 87 : Bernstein_70, Brahms_70, Coltrane_70, Clayda5_72, Armstrong_70, Skylord_70, Rollins_70
- Track 88 : Cashington_69
- Track 89 : Franklin22_74
- Track 90 : Jabb_71, CupcakePrincess_71, MsUbiquitous_71, Johnathan_70, SarBear_72, CroZenni_71, QMacho_72, Phisb_72, Abigail_70, Burritobowl_72
- Track 91 : Doobus_68, Albright_69, Milomuff_72, Softsoap_71, BubbaBear_68, Solea_73, DickRichards_68, Avocadoman_69
- Track 92 : Loviatar_67, Akino08_66
- Track 93 : Finalfrontier_69, Eula_69, Pecas_70, TukTuk_70, Jovita_68, Nicky22_69, AylexOG_71, Swervy_70, Lilo27_70, Slay_70
- Track 94 : Elva_73, DirtyBubble_69, Stoor_69, WalkingDead_71
- Track 95 : BelmontSKP_70, AnnaLie_70, PhigPhack_73, Arroyo_71, SansAfet_72
- Track 96 : Quenya_69
- Track 97 : SunnyD_75, Shayna_75
- Track 98 : FlameThrower_65
- Track 99 : Kate33_73
- Track 100 : Katzastrophic_67, Bachaco_66
- Track 101 : Olliecat_66, Squircl_66
- Track 102 : SanaSana_70
- Track 103 : Lahqtemish_69
- Track 104 : Lynlen_71
- Track 105 : BAjuniper_68
- Track 106 : Gack_71
- Track 107 : Eden_72
- Track 108 : Albedo_70, Kenzers_69, SirBeanington_70
- Track 109 : Teagster_75
- Track 110 : IndyLu_71
- Track 111 : Vitas_71
- Track 112 : PondAmelia_83
- Track 113 : BabyDaisy_71
- Track 114 : Dismas_67
- Track 115 : LimaBean_68
- Track 116 : CliffHanger_78
- Track 117 : BabyYoda_68
- Track 118 : Buldak_69
- Track 119 : Didgeridoo_75
- Track 120 : Sharkboy_68
- Track 121 : Celaena_66
- Track 122 : Icarian_72
- Track 123 : PastaFagioli_71
- Track 124 : Rona_66, Kieran_65
- Track 125 : Bengal_71
- Track 126 : AvGardian_70
- Track 127 : Stromboli_68
- Track 128 : Gusanita_70
- Track 129 : Elesar_62

- Track 130 : ToastyOats_69, Lenoxika_66, Zaheer_69, Guinevere_71
- Track 131 : Donatella_69
- Track 132 : Yonex_69, Ryan_70
- Track 133 : GoodLuckBabe_69
- Track 134 : Halloweekend_62
- Track 135 : Popper_70, IsHungry_64
- Track 136 : Dirtdigger_65
- Track 137 : Cole_64
- Track 138 : Nandita_68
- Track 139 : AllBusiness_65
- Track 140 : Toodles_68
- Track 141 : Julie_67
- Track 142 : Schism_71
- Track 143 : Ichiang_65
- Track 144 : QuinnAvery_70
- Track 145 : MillySue_69
- Track 146 : Kihatsu_69
- Track 147 : BellaJr_95
- Track 148 : CocoCinnamon_58
- Track 149 : EvenBluerMoon_51, Aoka_54
- Track 150 : PrairieDogTown_52
- Track 151 : JanetJ_52
- Track 152 : Maja_56
- Track 153 : GrimEater_65, Jankie_67
- Track 154 : CallinAllBarbz_64
- Track 155 : Khuang_70
- Track 156 : Altostratus_69
- Track 157 : Bipper_136
- Track 158 : Faiyaz_132, Typha_129, Hilltopfarm_134, AuntGwenStacy_132
- Track 159 : Cracklewink_136
- Track 160 : Sleepyhead_67
- Track 161 : BFK20_ORF55
- Track 162 : Min1_34
- Track 163 : ArV2_68
- Track 164 : 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 114, it was called in 75 of the 276 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, 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, 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, QMacho_72, Quenya_69, RegnumDei_114, Rollins_70, Rona_66, SanaSana_70, SansAfet_72, SarBear_72, Sharkboy_68, Shayna_75, SirBeanington_70, Skylord_70, Slay_70, Softsoap_71, Solea_73, Squircle_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, PondAmelia_83,

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

- Abidatro_66, AdoptaAdorbs_68, Albanese_61, Aledel_60, AlexMinion_71, AllBusiness_65, Altostratus_69, Amelia_71, AmiCi24_68, Amphitrite_69, Anatole_55, Antrice_75, Aoka_54, AppleCider_61, Applejacks_62, ArV2_68, Archimedes_60, Atlantica_70, AuntGwenStacy_132, AustinPowers_60, Azaz_72, B3_57, BFK20_ORF55, Babushka_66, Banquo_63, Basilisk_66, Beethoven_63, BellaJr_95, Bennie_63, Bibble12_75, BigMack_61, Bipper_136, Bodacious_61, BrotherBLo_62, Brynnie_64, CallieOMalley_62, CallinAllBarbz_64, Camara_69, Canowicakte_62, Carpal_61, Catfish_64, ChewChew_61, Chickaboom_66, Cholula_62, Chridison_57, Christian_61, CocoCinnamon_58, Cole_64, Colusalem_71, Coral_72, Cote_75, Cracklewick_136, CristinaYang_61, CurlyFries_118, Cygnet_73, Daiboju_60, DanHam62_70, Daob_71, Dardanus_58, DinoDaryn_64, Dino_62, Dirdigger_65, Donatella_69, DonkeyMan_61, DrRobert_59, DreamTeam_61, E1_55, Eesa_65, Elesar_62, EmiRose_46, EstebanJulior_60, Eunoia_62, EvenBluerMoon_51, Faiyaz_132, Fingolfin_70, Fluke_62, Frizzle_58, Fryberger_144, Galaxy_65, Ghobes_59, Gisselle_61, Glenn_64, Glotell_71, GoodLuckBabe_69, Graynor_65, GreenHearts_62, Greenhouse_61, GrimEater_65, Guey18_149, Guinevere_71, Gusanita_70, Gustav_68, Hallweekend_62, HamCheese_69, HeadNerd_62, Heinz_63, Herb_60, Hibiscus_63, Hilltopfarm_134, Huckleberry_62, Huffy_64, HunterDalle_60, Huntingdon_61, Ichiang_65, Immaculata_62, IsHungry_64, Jamun_63, JanetJ_52, Jankie_67, Joann_63, Jojo24_63, Julie_67, Jumboset_62, Juno112_69, KHumphrey_70, Kalizoi_62, Keelan_144, KendraB23_76, Kepler_75, Khuang_70, Kihatsu_69, KingBob_60, Kittykat_65, Korra_62, Kudrefre_128, Kuleana_76, Lakshmi_61, Laphuphu24k_68, Lasagna_59, Lennox_61, Lenoxika_66, Leona_68, LilJank_122, LilStuart_60, Litotes_62, LittleTokyo_73, Lucy_60, Lunar_73, Mahdia_60, Maja_56, Makoto_60, MamaPearl_60, Maria1952_59, MeganNoll_63, Melons_73, MillySue_69, Min1_34, Misaeng_61, Moki_62, Morrissey_63, MrBoss_63, MrGloopy_62, Nancia_61, Nandita_68, Neville_125, Nubia_61, OMalley_60, Octobien14_124, Oppalora_68, Orcanus_65, OtsoOtso_72, OurGirlNessie_59, Oxyntrius_62, PartyCup_62, PhirstandPhine_78, PhluffyCoco_68, Pineda_74, PinkFriday_61, PitaDog_61, Polka_71, Popper_70, Potatoes_62, PrairieDogTown_52, Preamble_64, Pterodactyl_61, Pumancara_61, Puppies_62, QuinnAvery_70, RAP15_63, Rabbitrun_127, Rattail_71, RcigaStruga_62, RedFox_71, Renna12_72, Reyja_65, Riovina_60, Riverdale_61, Ronaldo_147, Rozby_60, Ruchi_64, Ryan_70, Santhid_59, Sapo_61, Savage2526_61, Schism_71, Schmidt_58, Scuttle_61, Sephiroth_123, Sergei_60, Shagrat_110, Sleepyhead_67, Splinter_64, StuartMinion_61, Supakev_60, Suppi_62, Syleon_128, TZGordon_65, Tarzan_63, TattModd_61, TaylorSipht_65, Temper16_60, TinaLin_63, Toad24_68, ToastyOats_69, Toodles_68, Trax_126, Trine_65, Typha_129, Upyo_69, Urla_62, Vallejo_62, Vendetta_64, Volt_150, Vulpecula_64, Vulture_60, Wawa_62, Wayne_64, Widow_62, WileyE_70, WonderBoy_59, Yonex_69, Zaheer_69, Zixiang_67, Zorro_62,

Summary by start number:

Start 27:

- Found in 5 of 321 (1.6%) of genes in pham
- Manual Annotations of this start: 1 of 276
- Called 20.0% of time when present
- Phage (with cluster) where this start called: Melons_73 (AS2),

Start 34:

- Found in 2 of 321 (0.6%) of genes in pham
- Manual Annotations of this start: 1 of 276
- Called 50.0% of time when present
- Phage (with cluster) where this start called: Lunar_73 (AS2),

Start 47:

- Found in 11 of 321 (3.4%) of genes in pham
- Manual Annotations of this start: 8 of 276
- Called 81.8% of time when present
- Phage (with cluster) where this start called: Amelia_71 (AS2), Colusalem_71 (AS2), Coral_72 (AS2), Cote_75 (AS2), Daob_71 (AS2), Kepler_75 (AS2), OtsoOtso_72 (AS2), PhirstandPhine_78 (AS2), Polka_71 (AS2),

Start 51:

- Found in 1 of 321 (0.3%) of genes in pham
- Manual Annotations of this start: 1 of 276
- Called 100.0% of time when present
- Phage (with cluster) where this start called: Maja_56 (FO),

Start 54:

- Found in 5 of 321 (1.6%) of genes in pham
- Manual Annotations of this start: 3 of 276
- Called 60.0% of time when present
- Phage (with cluster) where this start called: Hibiscus_63 (DY), Jojo24_63 (DY), Reyja_65 (DY),

Start 55:

- Found in 2 of 321 (0.6%) of genes in pham
- Manual Annotations of this start: 1 of 276
- Called 50.0% of time when present
- Phage (with cluster) where this start called: Morrissey_63 (CD),

Start 62:

- Found in 5 of 321 (1.6%) of genes in pham
- Manual Annotations of this start: 1 of 276
- Called 20.0% of time when present
- Phage (with cluster) where this start called: EmiRose_46 (singleton),

Start 63:

- Found in 3 of 321 (0.9%) of genes in pham
- Manual Annotations of this start: 2 of 276
- Called 66.7% of time when present
- Phage (with cluster) where this start called: Gustav_68 (CD), Mahdia_60 (CD),

Start 66:

- Found in 12 of 321 (3.7%) of genes in pham
- Manual Annotations of this start: 4 of 276
- 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 67:

- Found in 3 of 321 (0.9%) of genes in pham
- Manual Annotations of this start: 1 of 276
- Called 33.3% of time when present
- Phage (with cluster) where this start called: PrairieDogTown_52 (FO),

Start 69:

- Found in 2 of 321 (0.6%) of genes in pham
- Manual Annotations of this start: 2 of 276
- Called 100.0% of time when present
- Phage (with cluster) where this start called: Puppies_62 (CD), Widow_62 (CD),

Start 70:

- Found in 9 of 321 (2.8%) of genes in pham
- Manual Annotations of this start: 2 of 276
- Called 22.2% of time when present
- Phage (with cluster) where this start called: HunterDalle_60 (AK), Vulture_60 (AK),

Start 72:

- Found in 25 of 321 (7.8%) of genes in pham
- Manual Annotations of this start: 4 of 276
- Called 20.0% of time when present
- Phage (with cluster) where this start called: Akino08_66 (EB), Loviatar_67 (EB), PastaFagioli_71 (EB), PondAmelia_83 (EB), Trine_65 (CD),

Start 73:

- Found in 3 of 321 (0.9%) of genes in pham
- Manual Annotations of this start: 1 of 276
- Called 33.3% of time when present
- Phage (with cluster) where this start called: Upyo_69 (CD),

Start 74:

- Found in 4 of 321 (1.2%) of genes in pham
- No Manual Annotations of this start.
- Called 25.0% of time when present
- Phage (with cluster) where this start called: Applejacks_62 (CD),

Start 78:

- Found in 1 of 321 (0.3%) of genes in pham
- Manual Annotations of this start: 1 of 276
- Called 100.0% of time when present
- Phage (with cluster) where this start called: Archimedes_60 (DA),

Start 79:

- Found in 6 of 321 (1.9%) of genes in pham

- Manual Annotations of this start: 5 of 276
- Called 100.0% of time when present
- Phage (with cluster) where this start called: AuntGwenStacy_132 (Y), Bipper_136 (Y), Cracklewink_136 (Y), Faiyaz_132 (Y), Hilltopfarm_134 (Y), Typha_129 (Y),

Start 81:

- Found in 1 of 321 (0.3%) of genes in pham
- Manual Annotations of this start: 1 of 276
- Called 100.0% of time when present
- Phage (with cluster) where this start called: Kuleana_76 (AS2),

Start 83:

- Found in 1 of 321 (0.3%) of genes in pham
- Manual Annotations of this start: 1 of 276
- Called 100.0% of time when present
- Phage (with cluster) where this start called: Dardanus_58 (CU3),

Start 84:

- Found in 5 of 321 (1.6%) of genes in pham
- Manual Annotations of this start: 4 of 276
- Called 80.0% of time when present
- Phage (with cluster) where this start called: Anatole_55 (BV), B3_57 (BV), Catfish_64 (CU5), E1_55 (BV),

Start 85:

- Found in 3 of 321 (0.9%) of genes in pham
- Manual Annotations of this start: 1 of 276
- Called 66.7% of time when present
- Phage (with cluster) where this start called: GoodLuckBabe_69 (FF), Schism_71 (FF),

Start 87:

- Found in 4 of 321 (1.2%) of genes in pham
- Manual Annotations of this start: 1 of 276
- Called 25.0% of time when present
- Phage (with cluster) where this start called: Nandita_68 (FF),

Start 88:

- Found in 8 of 321 (2.5%) of genes in pham
- Manual Annotations of this start: 8 of 276
- 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 90:

- Found in 28 of 321 (8.7%) of genes in pham
- Manual Annotations of this start: 11 of 276
- Called 60.7% of time when present
- Phage (with cluster) where this start called: AllBusiness_65 (FF), Cole_64 (FF), Dirtdigger_65 (FF), Donatella_69 (FF), Guinevere_71 (FF), Gusanita_70 (FF), Halloween_62 (FF), Ichiang_65 (FF), Julie_67 (FF), Lenoxika_66 (FF), MillySue_69 (FF), QuinnAvery_70 (FF), Ryan_70 (FF), ToastyOats_69 (FF),

Toodles_68 (FF), Yonex_69 (FF), Zaheer_69 (FF),

Start 93:

- Found in 1 of 321 (0.3%) of genes in pham
- No Manual Annotations of this start.
- Called 100.0% of time when present
- Phage (with cluster) where this start called: BellaJr_95 (FN),

Start 95:

- Found in 6 of 321 (1.9%) of genes in pham
- Manual Annotations of this start: 3 of 276
- Called 66.7% of time when present
- Phage (with cluster) where this start called: AlexMinion_71 (AS3), Babushka_66 (AS3), Renna12_72 (AS3), StuartMinion_61 (AS3),

Start 96:

- Found in 1 of 321 (0.3%) of genes in pham
- Manual Annotations of this start: 1 of 276
- Called 100.0% of time when present
- Phage (with cluster) where this start called: Sapo_61 (DA),

Start 97:

- Found in 4 of 321 (1.2%) of genes in pham
- Manual Annotations of this start: 1 of 276
- Called 75.0% of time when present
- Phage (with cluster) where this start called: Altostratus_69 (FS), ArV2_68 (singleton), Khuang_70 (FS),

Start 99:

- Found in 3 of 321 (0.9%) of genes in pham
- Manual Annotations of this start: 1 of 276
- Called 33.3% of time when present
- Phage (with cluster) where this start called: Frizzle_58 (DA),

Start 100:

- Found in 24 of 321 (7.5%) of genes in pham
- Manual Annotations of this start: 16 of 276
- 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), Fingolfin_70 (AS3), Glotell_71 (AS3), HamCheese_69 (AS3), Juno112_69 (AS3), KHumphrey_70 (AS3), Kudrefre_128 (DU1), Laphuphu24k_68 (AS3), LilJank_122 (DU2), Neville_125 (DU2), Octobien14_124 (DU1), Oppalora_68 (AS3), PhluffyCoco_68 (AS3), Rabbitrun_127 (DU2), Rattail_71 (AS3), RedFox_71 (AS3), Sephiroth_123 (DU1), Syleon_128 (DU1), Trax_126 (DU2),

Start 102:

- Found in 3 of 321 (0.9%) of genes in pham
- Manual Annotations of this start: 1 of 276
- Called 100.0% of time when present
- Phage (with cluster) where this start called: CallinAllBarbz_64 (FP), GrimEater_65 (FP), Jankie_67 (FP),

Start 103:

- Found in 2 of 321 (0.6%) of genes in pham
- No Manual Annotations of this start.
- Called 50.0% of time when present
- Phage (with cluster) where this start called: BFK20_ORF55 (singleton),

Start 104:

- Found in 11 of 321 (3.4%) of genes in pham
- Manual Annotations of this start: 3 of 276
- Called 27.3% of time when present
- Phage (with cluster) where this start called: Basilisk_66 (AS1), Huntingdon_61 (AK), Sleepyhead_67 (singleton),

Start 105:

- Found in 71 of 321 (22.1%) of genes in pham
- Manual Annotations of this start: 14 of 276
- Called 23.9% of time when present
- Phage (with cluster) where this start called: Azaz_72 (AS3), Bennie_63 (AK), Bible12_75 (AS2), Christian_61 (AK), Dino_62 (AK), DrRobert_59 (AK), Fluke_62 (AK), Glenn_64 (AK), Leona_68 (AS3), Lucy_60 (AK), MeganNoll_63 (AK), MrGloopy_62 (AK), Pineda_74 (AS2), PitaDog_61 (AK), RAP15_63 (AK), Scuttle_61 (AK), Vallejo_62 (AK),

Start 107:

- Found in 16 of 321 (5.0%) of genes in pham
- Manual Annotations of this start: 7 of 276
- Called 62.5% of time when present
- Phage (with cluster) where this start called: Canowicakte_62 (AK), DonkeyMan_61 (DY), Graynor_65 (AK), Heinz_63 (DY), MrBoss_63 (AK), PartyCup_62 (AK), Santhid_59 (DY), Suppi_62 (AK), Tarzan_63 (DY), Wayne_64 (AK),

Start 108:

- Found in 5 of 321 (1.6%) of genes in pham
- No Manual Annotations of this start.
- Called 20.0% of time when present
- Phage (with cluster) where this start called: Min1_34 (singleton),

Start 109:

- Found in 6 of 321 (1.9%) of genes in pham
- Manual Annotations of this start: 4 of 276
- Called 66.7% of time when present
- Phage (with cluster) where this start called: Aoka_54 (FO), CocoCinnamon_58 (FO), EvenBluerMoon_51 (FO), JanetJ_52 (FO),

Start 110:

- Found in 5 of 321 (1.6%) of genes in pham
- Manual Annotations of this start: 5 of 276
- Called 100.0% of time when present
- Phage (with cluster) where this start called: Fryberger_144 (DP), Guey18_149 (DP), Keelan_144 (DP), Ronaldo_147 (DP), Volt_150 (DP),

Start 111:

- Found in 28 of 321 (8.7%) of genes in pham

- Manual Annotations of this start: 15 of 276
- Called 67.9% of time when present
- Phage (with cluster) where this start called: Abidatro_66 (AS1), Antrice_75 (AS2), Brynnie_64 (AS1), Chickaboom_66 (AS1), CurlyFries_118 (CF), Cygnet_73 (AS2), Eesa_65 (AS1), Galaxy_65 (AS1), Jamun_63 (AS1), KendraB23_76 (AS1), LittleTokyo_73 (AS2), Orcanus_65 (AS1), Ruchi_64 (AS1), Shagrat_110 (CF), TaylorSipht_65 (AS1), Toad24_68 (AS1), Vulpecula_64 (AS1), WileyE_70 (AS1), Zixiang_67 (AS1),

Start 113:

- Found in 1 of 321 (0.3%) of genes in pham
- Manual Annotations of this start: 1 of 276
- Called 100.0% of time when present
- Phage (with cluster) where this start called: AppleCider_61 (AK),

Start 114:

- Found in 87 of 321 (27.1%) of genes in pham
- Manual Annotations of this start: 75 of 276
- Called 95.4% 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), 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), 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), QMacho_72 (EB), Quenya_69 (EB), RegnumDei_114 (CF), Rollins_70 (EB), Rona_66 (EB), SanaSana_70 (EB), SansAfet_72 (EB), SarBear_72 (EB), Sharkboy_68 (EB), Shayna_75 (EB), SirBeanington_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 115:

- Found in 86 of 321 (26.8%) of genes in pham
- Manual Annotations of this start: 63 of 276
- 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 128:

- Found in 3 of 321 (0.9%) of genes in pham
- Manual Annotations of this start: 1 of 276
- Called 33.3% of time when present
- Phage (with cluster) where this start called: Ghobes_59 (DA),

Summary by clusters:

There are 24 clusters represented in this pham: FP, singleton, FS, DA, BV, FF, DY, DP, FO, CU5, CU4, CU3, CU1, FN, DU1, DU2, AS3, AS2, AS1, AK, CF, EB, Y, CD,

Info for manual annotations of cluster AK:

- Start number 70 was manually annotated 2 times for cluster AK.
- Start number 104 was manually annotated 1 time for cluster AK.
- Start number 105 was manually annotated 13 times for cluster AK.
- Start number 107 was manually annotated 4 times for cluster AK.
- Start number 113 was manually annotated 1 time for cluster AK.
- Start number 115 was manually annotated 63 times for cluster AK.

Info for manual annotations of cluster AS1:

- Start number 104 was manually annotated 1 time for cluster AS1.
- Start number 111 was manually annotated 11 times for cluster AS1.

Info for manual annotations of cluster AS2:

- Start number 27 was manually annotated 1 time for cluster AS2.
- Start number 34 was manually annotated 1 time for cluster AS2.
- Start number 47 was manually annotated 8 times for cluster AS2.
- Start number 81 was manually annotated 1 time for cluster AS2.
- Start number 111 was manually annotated 3 times for cluster AS2.

Info for manual annotations of cluster AS3:

- Start number 95 was manually annotated 3 times for cluster AS3.
- Start number 100 was manually annotated 9 times for cluster AS3.
- Start number 105 was manually annotated 1 time for cluster AS3.

Info for manual annotations of cluster BV:

- Start number 84 was manually annotated 3 times for cluster BV.

Info for manual annotations of cluster CD:

- Start number 55 was manually annotated 1 time for cluster CD.
- Start number 63 was manually annotated 2 times for cluster CD.
- Start number 69 was manually annotated 2 times for cluster CD.
- Start number 72 was manually annotated 1 time for cluster CD.
- Start number 73 was manually annotated 1 time for cluster CD.

Info for manual annotations of cluster CF:

- Start number 111 was manually annotated 1 time for cluster CF.

Info for manual annotations of cluster CU1:

- Start number 88 was manually annotated 7 times for cluster CU1.

Info for manual annotations of cluster CU3:

- Start number 83 was manually annotated 1 time for cluster CU3.

Info for manual annotations of cluster CU4:

- Start number 88 was manually annotated 1 time for cluster CU4.

Info for manual annotations of cluster CU5:

- Start number 84 was manually annotated 1 time for cluster CU5.

Info for manual annotations of cluster DA:

- Start number 78 was manually annotated 1 time for cluster DA.
- Start number 96 was manually annotated 1 time for cluster DA.
- Start number 99 was manually annotated 1 time for cluster DA.
- Start number 128 was manually annotated 1 time for cluster DA.

Info for manual annotations of cluster DP:

- Start number 110 was manually annotated 5 times for cluster DP.

Info for manual annotations of cluster DU1:

- Start number 100 was manually annotated 4 times for cluster DU1.

Info for manual annotations of cluster DU2:

- Start number 100 was manually annotated 3 times for cluster DU2.

Info for manual annotations of cluster DY:

- Start number 54 was manually annotated 3 times for cluster DY.
- Start number 107 was manually annotated 3 times for cluster DY.

Info for manual annotations of cluster EB:

- Start number 72 was manually annotated 3 times for cluster EB.
- Start number 114 was manually annotated 75 times for cluster EB.

Info for manual annotations of cluster FF:

- Start number 66 was manually annotated 4 times for cluster FF.
- Start number 85 was manually annotated 1 time for cluster FF.
- Start number 87 was manually annotated 1 time for cluster FF.
- Start number 90 was manually annotated 11 times for cluster FF.

Info for manual annotations of cluster FO:

- Start number 51 was manually annotated 1 time for cluster FO.
- Start number 67 was manually annotated 1 time for cluster FO.
- Start number 109 was manually annotated 4 times for cluster FO.

Info for manual annotations of cluster FP:

- Start number 102 was manually annotated 1 time for cluster FP.

Info for manual annotations of cluster FS:

- Start number 97 was manually annotated 1 time for cluster FS.

Info for manual annotations of cluster Y:

- Start number 79 was manually annotated 5 times for cluster Y.

Gene Information:

Gene: Abidatro_66 Start: 38766, Stop: 39044, Start Num: 111

Candidate Starts for Abidatro_66:

(38, 38640), (Start: 111 @38766 has 15 MA's),

Gene: Abigail_70 Start: 40540, Stop: 40815, Start Num: 114

Candidate Starts for Abigail_70:

(Start: 114 @40540 has 75 MA's),

Gene: AdoptaAdorbs_68 Start: 37992, Stop: 38279, Start Num: 100

Candidate Starts for AdoptaAdorbs_68:

(Start: 100 @37992 has 16 MA's), (149, 38145), (163, 38208),

Gene: Akino08_66 Start: 42028, Stop: 42363, Start Num: 72

Candidate Starts for Akino08_66:

(60, 42013), (Start: 72 @42028 has 4 MA's), (92, 42061), (Start: 114 @42088 has 75 MA's), (122, 42121), (162, 42277),

Gene: Albanese_61 Start: 43774, Stop: 44034, Start Num: 115

Candidate Starts for Albanese_61:

(Start: 115 @43774 has 63 MA's), (117, 43780), (132, 43831), (133, 43834), (166, 43978),

Gene: Albedo_70 Start: 41350, Stop: 41625, Start Num: 114

Candidate Starts for Albedo_70:

(Start: 114 @41350 has 75 MA's), (161, 41536),

Gene: Albright_69 Start: 40420, Stop: 40695, Start Num: 114

Candidate Starts for Albright_69:

(Start: 114 @40420 has 75 MA's),

Gene: Aledel_60 Start: 43400, Stop: 43660, Start Num: 115

Candidate Starts for Aledel_60:

(Start: 70 @43331 has 2 MA's), (82, 43352), (Start: 115 @43400 has 63 MA's), (121, 43421), (135, 43472),

Gene: AlexMinion_71 Start: 37930, Stop: 38223, Start Num: 95

Candidate Starts for AlexMinion_71:

(65, 37888), (Start: 95 @37930 has 3 MA's), (149, 38089), (172, 38197),

Gene: AllBusiness_65 Start: 43063, Stop: 43359, Start Num: 90

Candidate Starts for AllBusiness_65:

(Start: 90 @43063 has 11 MA's), (147, 43219), (149, 43228), (163, 43291), (172, 43333),

Gene: Altostratus_69 Start: 38971, Stop: 39267, Start Num: 97
Candidate Starts for Altostratus_69:
(Start: 97 @38971 has 1 MA's), (116, 39001), (144, 39097), (153, 39139),

Gene: Amelia_71 Start: 37701, Stop: 38054, Start Num: 47
Candidate Starts for Amelia_71:
(Start: 47 @37701 has 8 MA's), (Start: 105 @37767 has 14 MA's),

Gene: AmiCi24_68 Start: 38101, Stop: 38388, Start Num: 100
Candidate Starts for AmiCi24_68:
(Start: 100 @38101 has 16 MA's), (149, 38254), (163, 38317),

Gene: Amphitrite_69 Start: 38005, Stop: 38292, Start Num: 100
Candidate Starts for Amphitrite_69:
(Start: 100 @38005 has 16 MA's), (149, 38158), (163, 38221),

Gene: Anatole_55 Start: 34869, Stop: 35189, Start Num: 84
Candidate Starts for Anatole_55:
(2, 34596), (3, 34635), (4, 34644), (7, 34659), (19, 34725), (20, 34728), (28, 34752), (31, 34770), (44, 34800), (Start: 84 @34869 has 4 MA's), (108, 34899), (130, 34974), (176, 35172),

Gene: AnnaLie_70 Start: 41202, Stop: 41477, Start Num: 114
Candidate Starts for AnnaLie_70:
(Start: 114 @41202 has 75 MA's), (161, 41388),

Gene: Antrice_75 Start: 38862, Stop: 39140, Start Num: 111
Candidate Starts for Antrice_75:
(106, 38853), (Start: 111 @38862 has 15 MA's),

Gene: Aoka_54 Start: 36392, Stop: 36673, Start Num: 109
Candidate Starts for Aoka_54:
(Start: 67 @36335 has 1 MA's), (Start: 109 @36392 has 4 MA's),

Gene: AppleCider_61 Start: 43353, Stop: 43619, Start Num: 113
Candidate Starts for AppleCider_61:
(Start: 113 @43353 has 1 MA's), (Start: 115 @43359 has 63 MA's),

Gene: Applejacks_62 Start: 41851, Stop: 42168, Start Num: 74
Candidate Starts for Applejacks_62:
(26, 41746), (41, 41791), (74, 41851), (156, 42061),

Gene: ArV2_68 Start: 37011, Stop: 37319, Start Num: 97
Candidate Starts for ArV2_68:
(Start: 97 @37011 has 1 MA's), (176, 37284),

Gene: Archimedes_60 Start: 44555, Stop: 44878, Start Num: 78
Candidate Starts for Archimedes_60:
(Start: 78 @44555 has 1 MA's), (Start: 99 @44582 has 1 MA's), (103, 44588), (133, 44672), (134, 44681), (172, 44852),

Gene: Armstrong_70 Start: 39580, Stop: 39855, Start Num: 114
Candidate Starts for Armstrong_70:

(16, 39382), (19, 39397), (28, 39424), (39, 39457), (60, 39505), (Start: 72 @39520 has 4 MA's), (92, 39553), (Start: 114 @39580 has 75 MA's),

Gene: Arroyo_71 Start: 41666, Stop: 41941, Start Num: 114
Candidate Starts for Arroyo_71:
(Start: 114 @41666 has 75 MA's), (161, 41852),

Gene: Atlantica_70 Start: 38103, Stop: 38390, Start Num: 100
Candidate Starts for Atlantica_70:
(Start: 100 @38103 has 16 MA's), (149, 38256), (163, 38319),

Gene: AuntGwenStacy_132 Start: 74981, Stop: 75304, Start Num: 79
Candidate Starts for AuntGwenStacy_132:
(Start: 79 @74981 has 5 MA's), (139, 75131), (160, 75212), (164, 75236), (166, 75248),

Gene: AustinPowers_60 Start: 43422, Stop: 43682, Start Num: 115
Candidate Starts for AustinPowers_60:
(Start: 70 @43353 has 2 MA's), (82, 43374), (Start: 115 @43422 has 63 MA's), (121, 43443), (135, 43494),

Gene: AvGardian_70 Start: 41184, Stop: 41459, Start Num: 114
Candidate Starts for AvGardian_70:
(Start: 114 @41184 has 75 MA's), (154, 41334), (161, 41370),

Gene: Avocadoman_69 Start: 40737, Stop: 41012, Start Num: 114
Candidate Starts for Avocadoman_69:
(Start: 114 @40737 has 75 MA's),

Gene: AylexOG_71 Start: 41421, Stop: 41696, Start Num: 114
Candidate Starts for AylexOG_71:
(Start: 114 @41421 has 75 MA's), (161, 41607),

Gene: Azaz_72 Start: 38251, Stop: 38532, Start Num: 105
Candidate Starts for Azaz_72:
(Start: 105 @38251 has 14 MA's), (149, 38398), (163, 38461),

Gene: B3_57 Start: 35532, Stop: 35852, Start Num: 84
Candidate Starts for B3_57:
(2, 35259), (3, 35298), (4, 35307), (7, 35322), (19, 35388), (20, 35391), (28, 35415), (31, 35433), (44, 35463), (Start: 84 @35532 has 4 MA's), (108, 35562), (130, 35637), (176, 35835),

Gene: BAjuniper_68 Start: 41633, Stop: 41908, Start Num: 114
Candidate Starts for BAjuniper_68:
(46, 41528), (60, 41558), (Start: 72 @41573 has 4 MA's), (92, 41606), (Start: 114 @41633 has 75 MA's), (122, 41666), (161, 41819),

Gene: BFK20_ORF55 Start: 42590, Stop: 42880, Start Num: 103
Candidate Starts for BFK20_ORF55:
(76, 42557), (86, 42575), (103, 42590), (117, 42617), (133, 42674), (155, 42761), (169, 42845),

Gene: Babushka_66 Start: 38003, Stop: 38302, Start Num: 95
Candidate Starts for Babushka_66:
(Start: 95 @38003 has 3 MA's), (149, 38168), (163, 38231),

Gene: BabyDaisy_71 Start: 41763, Stop: 42038, Start Num: 114
Candidate Starts for BabyDaisy_71:
(49, 41664), (60, 41688), (Start: 72 @41703 has 4 MA's), (92, 41736), (Start: 105 @41751 has 14 MA's), (Start: 114 @41763 has 75 MA's),

Gene: BabyYoda_68 Start: 41093, Stop: 41368, Start Num: 114
Candidate Starts for BabyYoda_68:
(Start: 114 @41093 has 75 MA's), (122, 41126), (161, 41279), (162, 41282),

Gene: Bachaco_66 Start: 42043, Stop: 42318, Start Num: 114
Candidate Starts for Bachaco_66:
(23, 41878), (Start: 27 @41887 has 1 MA's), (28, 41890), (45, 41938), (60, 41968), (Start: 72 @41983 has 4 MA's), (92, 42016), (Start: 114 @42043 has 75 MA's), (161, 42229), (175, 42301),

Gene: Banquo_63 Start: 39126, Stop: 39422, Start Num: 88
Candidate Starts for Banquo_63:
(Start: 62 @39084 has 1 MA's), (Start: 88 @39126 has 8 MA's), (119, 39168), (168, 39384),

Gene: Basilisk_66 Start: 38281, Stop: 38571, Start Num: 104
Candidate Starts for Basilisk_66:
(41, 38188), (60, 38218), (Start: 104 @38281 has 3 MA's), (Start: 111 @38293 has 15 MA's),

Gene: Beethoven_63 Start: 43598, Stop: 43858, Start Num: 115
Candidate Starts for Beethoven_63:
(Start: 105 @43580 has 14 MA's), (Start: 115 @43598 has 63 MA's), (120, 43616), (135, 43670),

Gene: BellaJr_95 Start: 51784, Stop: 52089, Start Num: 93
Candidate Starts for BellaJr_95:
(93, 51784), (118, 51823), (124, 51847), (176, 52057),

Gene: BelmontSKP_70 Start: 41202, Stop: 41477, Start Num: 114
Candidate Starts for BelmontSKP_70:
(Start: 114 @41202 has 75 MA's), (161, 41388),

Gene: Bengal_71 Start: 41208, Stop: 41483, Start Num: 114
Candidate Starts for Bengal_71:
(29, 41055), (31, 41070), (60, 41133), (Start: 72 @41148 has 4 MA's), (92, 41181), (Start: 105 @41196 has 14 MA's), (Start: 114 @41208 has 75 MA's), (161, 41394),

Gene: Bennie_63 Start: 42720, Stop: 42998, Start Num: 105
Candidate Starts for Bennie_63:
(Start: 105 @42720 has 14 MA's), (Start: 115 @42738 has 63 MA's), (120, 42756), (135, 42810), (169, 42963),

Gene: Bernstein_70 Start: 39578, Stop: 39853, Start Num: 114
Candidate Starts for Bernstein_70:
(16, 39380), (19, 39395), (28, 39422), (39, 39455), (60, 39503), (Start: 72 @39518 has 4 MA's), (92, 39551), (Start: 114 @39578 has 75 MA's),

Gene: Bible12_75 Start: 38337, Stop: 38624, Start Num: 105
Candidate Starts for Bible12_75:
(Start: 47 @38274 has 8 MA's), (Start: 105 @38337 has 14 MA's),

Gene: BigMack_61 Start: 43021, Stop: 43281, Start Num: 115

Candidate Starts for BigMack_61:

(Start: 105 @43003 has 14 MA's), (Start: 115 @43021 has 63 MA's), (120, 43039), (162, 43198), (169, 43246),

Gene: Bipper_136 Start: 77103, Stop: 77429, Start Num: 79

Candidate Starts for Bipper_136:

(Start: 79 @77103 has 5 MA's), (129, 77217), (133, 77229), (153, 77304), (164, 77361), (166, 77373),

Gene: Bodacious_61 Start: 42903, Stop: 43163, Start Num: 115

Candidate Starts for Bodacious_61:

(Start: 105 @42885 has 14 MA's), (Start: 115 @42903 has 63 MA's), (120, 42921), (162, 43080), (172, 43137), (174, 43143),

Gene: Brahms_70 Start: 39480, Stop: 39755, Start Num: 114

Candidate Starts for Brahms_70:

(16, 39282), (19, 39297), (28, 39324), (39, 39357), (60, 39405), (Start: 72 @39420 has 4 MA's), (92, 39453), (Start: 114 @39480 has 75 MA's),

Gene: BrotherBLo_62 Start: 43314, Stop: 43574, Start Num: 115

Candidate Starts for BrotherBLo_62:

(Start: 105 @43296 has 14 MA's), (Start: 115 @43314 has 63 MA's), (120, 43332), (135, 43386),

Gene: Brynnie_64 Start: 38238, Stop: 38516, Start Num: 111

Candidate Starts for Brynnie_64:

(Start: 104 @38226 has 3 MA's), (Start: 111 @38238 has 15 MA's),

Gene: BubbaBear_68 Start: 41351, Stop: 41626, Start Num: 114

Candidate Starts for BubbaBear_68:

(Start: 114 @41351 has 75 MA's),

Gene: Buldak_69 Start: 39158, Stop: 39433, Start Num: 114

Candidate Starts for Buldak_69:

(Start: 114 @39158 has 75 MA's), (161, 39344),

Gene: Burritobowl_72 Start: 40954, Stop: 41229, Start Num: 114

Candidate Starts for Burritobowl_72:

(Start: 114 @40954 has 75 MA's),

Gene: CallieOMalley_62 Start: 43522, Stop: 43782, Start Num: 115

Candidate Starts for CallieOMalley_62:

(Start: 90 @43489 has 11 MA's), (Start: 107 @43510 has 7 MA's), (112, 43516), (Start: 115 @43522 has 63 MA's),

Gene: CallinAllBarbz_64 Start: 40753, Stop: 41040, Start Num: 102

Candidate Starts for CallinAllBarbz_64:

(Start: 102 @40753 has 1 MA's),

Gene: Camara_69 Start: 37993, Stop: 38280, Start Num: 100

Candidate Starts for Camara_69:

(Start: 100 @37993 has 16 MA's), (149, 38146), (163, 38209),

Gene: Canowicakte_62 Start: 43562, Stop: 43834, Start Num: 107
Candidate Starts for Canowicakte_62:
(Start: 90 @43541 has 11 MA's), (Start: 107 @43562 has 7 MA's), (112, 43568), (Start: 115 @43574 has 63 MA's),

Gene: Carpal_61 Start: 43369, Stop: 43629, Start Num: 115
Candidate Starts for Carpal_61:
(Start: 105 @43351 has 14 MA's), (Start: 115 @43369 has 63 MA's), (120, 43387), (135, 43441),

Gene: Cashington_69 Start: 41137, Stop: 41412, Start Num: 114
Candidate Starts for Cashington_69:
(61, 41062), (74, 41077), (91, 41107), (94, 41110), (Start: 114 @41137 has 75 MA's), (161, 41323),

Gene: Catfish_64 Start: 41148, Stop: 41444, Start Num: 84
Candidate Starts for Catfish_64:
(12, 40959), (13, 40968), (58, 41106), (Start: 84 @41148 has 4 MA's), (130, 41235), (133, 41244), (153, 41319),

Gene: Celaena_66 Start: 41809, Stop: 42084, Start Num: 114
Candidate Starts for Celaena_66:
(23, 41641), (Start: 27 @41650 has 1 MA's), (28, 41653), (45, 41701), (60, 41731), (Start: 114 @41809 has 75 MA's), (161, 41995), (175, 42067),

Gene: ChewChew_61 Start: 43103, Stop: 43363, Start Num: 115
Candidate Starts for ChewChew_61:
(Start: 105 @43085 has 14 MA's), (Start: 115 @43103 has 63 MA's), (120, 43121), (136, 43178), (162, 43280), (172, 43337), (174, 43343),

Gene: Chickaboom_66 Start: 38402, Stop: 38680, Start Num: 111
Candidate Starts for Chickaboom_66:
(Start: 104 @38390 has 3 MA's), (Start: 111 @38402 has 15 MA's),

Gene: Cholula_62 Start: 43324, Stop: 43584, Start Num: 115
Candidate Starts for Cholula_62:
(Start: 105 @43306 has 14 MA's), (Start: 115 @43324 has 63 MA's), (120, 43342), (135, 43396),

Gene: Chridison_57 Start: 42676, Stop: 42936, Start Num: 115
Candidate Starts for Chridison_57:
(Start: 70 @42607 has 2 MA's), (82, 42628), (Start: 115 @42676 has 63 MA's), (120, 42694), (121, 42697), (135, 42748),

Gene: Christian_61 Start: 42727, Stop: 43005, Start Num: 105
Candidate Starts for Christian_61:
(Start: 105 @42727 has 14 MA's), (Start: 115 @42745 has 63 MA's), (120, 42763), (136, 42820), (162, 42922), (172, 42979), (174, 42985),

Gene: Clayda5_72 Start: 39546, Stop: 39821, Start Num: 114
Candidate Starts for Clayda5_72:
(16, 39348), (19, 39363), (28, 39390), (39, 39423), (60, 39471), (Start: 72 @39486 has 4 MA's), (92, 39519), (Start: 114 @39546 has 75 MA's),

Gene: CliffHanger_78 Start: 40817, Stop: 41092, Start Num: 114
Candidate Starts for CliffHanger_78:

(Start: 114 @40817 has 75 MA's), (122, 40850), (161, 41003), (162, 41006),

Gene: CocoCinnamon_58 Start: 36037, Stop: 36318, Start Num: 109

Candidate Starts for CocoCinnamon_58:

(Start: 95 @36019 has 3 MA's), (Start: 109 @36037 has 4 MA's), (129, 36106),

Gene: Cole_64 Start: 41483, Stop: 41779, Start Num: 90

Candidate Starts for Cole_64:

(32, 41378), (Start: 90 @41483 has 11 MA's), (132, 41579), (147, 41639), (149, 41648),

Gene: Coltrane_70 Start: 39480, Stop: 39755, Start Num: 114

Candidate Starts for Coltrane_70:

(16, 39282), (19, 39297), (28, 39324), (39, 39357), (60, 39405), (Start: 72 @39420 has 4 MA's), (92, 39453), (Start: 114 @39480 has 75 MA's),

Gene: Colusalem_71 Start: 37678, Stop: 38028, Start Num: 47

Candidate Starts for Colusalem_71:

(Start: 47 @37678 has 8 MA's), (Start: 105 @37741 has 14 MA's),

Gene: Coral_72 Start: 37893, Stop: 38243, Start Num: 47

Candidate Starts for Coral_72:

(Start: 47 @37893 has 8 MA's), (Start: 105 @37956 has 14 MA's),

Gene: Cote_75 Start: 38617, Stop: 38970, Start Num: 47

Candidate Starts for Cote_75:

(Start: 47 @38617 has 8 MA's), (Start: 105 @38683 has 14 MA's),

Gene: Cracklewink_136 Start: 76262, Stop: 76588, Start Num: 79

Candidate Starts for Cracklewink_136:

(9, 76067), (22, 76136), (Start: 79 @76262 has 5 MA's), (129, 76376), (133, 76388), (153, 76463), (164, 76520), (166, 76532),

Gene: CristinaYang_61 Start: 43030, Stop: 43290, Start Num: 115

Candidate Starts for CristinaYang_61:

(Start: 105 @43012 has 14 MA's), (Start: 115 @43030 has 63 MA's), (120, 43048), (162, 43207), (172, 43264), (174, 43270),

Gene: CroZenni_71 Start: 41008, Stop: 41283, Start Num: 114

Candidate Starts for CroZenni_71:

(Start: 114 @41008 has 75 MA's),

Gene: CupcakePrincess_71 Start: 41251, Stop: 41526, Start Num: 114

Candidate Starts for CupcakePrincess_71:

(Start: 114 @41251 has 75 MA's),

Gene: CurlyFries_118 Start: 57838, Stop: 58110, Start Num: 111

Candidate Starts for CurlyFries_118:

(Start: 107 @57829 has 7 MA's), (Start: 111 @57838 has 15 MA's), (123, 57874), (Start: 128 @57892 has 1 MA's), (146, 57961), (149, 57982), (171, 58081),

Gene: Cygnet_73 Start: 39144, Stop: 39422, Start Num: 111

Candidate Starts for Cygnet_73:

(Start: 111 @39144 has 15 MA's), (161, 39336),

Gene: Daiboju_60 Start: 43614, Stop: 43871, Start Num: 115
Candidate Starts for Daiboju_60:
(Start: 111 @43605 has 15 MA's), (Start: 115 @43614 has 63 MA's), (120, 43632), (137, 43689), (157, 43767),

Gene: DanHam62_70 Start: 38102, Stop: 38389, Start Num: 100
Candidate Starts for DanHam62_70:
(Start: 100 @38102 has 16 MA's), (149, 38255), (163, 38318),

Gene: Daob_71 Start: 37543, Stop: 37893, Start Num: 47
Candidate Starts for Daob_71:
(Start: 47 @37543 has 8 MA's), (Start: 105 @37606 has 14 MA's),

Gene: Dardanus_58 Start: 37373, Stop: 37678, Start Num: 83
Candidate Starts for Dardanus_58:
(Start: 83 @37373 has 1 MA's), (101, 37391), (153, 37553),

Gene: DickRichards_68 Start: 40877, Stop: 41152, Start Num: 114
Candidate Starts for DickRichards_68:
(Start: 114 @40877 has 75 MA's),

Gene: Didgeridoo_75 Start: 42192, Stop: 42467, Start Num: 114
Candidate Starts for Didgeridoo_75:
(21, 42015), (38, 42066), (60, 42117), (Start: 72 @42132 has 4 MA's), (92, 42165), (Start: 105 @42180 has 14 MA's), (Start: 114 @42192 has 75 MA's),

Gene: Dino_62 Start: 43208, Stop: 43486, Start Num: 105
Candidate Starts for Dino_62:
(Start: 105 @43208 has 14 MA's), (Start: 115 @43226 has 63 MA's), (120, 43244), (135, 43298),

Gene: DinoDaryn_64 Start: 39227, Stop: 39523, Start Num: 88
Candidate Starts for DinoDaryn_64:
(Start: 62 @39185 has 1 MA's), (Start: 88 @39227 has 8 MA's), (156, 39416), (168, 39485),

Gene: Dirdigger_65 Start: 41774, Stop: 42070, Start Num: 90
Candidate Starts for Dirdigger_65:
(Start: 66 @41744 has 4 MA's), (Start: 90 @41774 has 11 MA's), (132, 41870), (163, 42002), (172, 42044), (174, 42050),

Gene: DirtyBubble_69 Start: 41228, Stop: 41503, Start Num: 114
Candidate Starts for DirtyBubble_69:
(Start: 114 @41228 has 75 MA's), (161, 41414), (162, 41417),

Gene: Dismas_67 Start: 41256, Stop: 41531, Start Num: 114
Candidate Starts for Dismas_67:
(60, 41181), (Start: 114 @41256 has 75 MA's), (161, 41442), (166, 41472),

Gene: Donatella_69 Start: 42522, Stop: 42818, Start Num: 90
Candidate Starts for Donatella_69:
(Start: 90 @42522 has 11 MA's), (147, 42678), (172, 42792),

Gene: DonkeyMan_61 Start: 39766, Stop: 40047, Start Num: 107

Candidate Starts for DonkeyMan_61:

(Start: 54 @39688 has 3 MA's), (77, 39727), (80, 39730), (Start: 107 @39766 has 7 MA's), (125, 39820),

Gene: Doobus_68 Start: 40732, Stop: 41007, Start Num: 114

Candidate Starts for Doobus_68:

(Start: 114 @40732 has 75 MA's),

Gene: DrRobert_59 Start: 42246, Stop: 42524, Start Num: 105

Candidate Starts for DrRobert_59:

(Start: 105 @42246 has 14 MA's), (Start: 115 @42264 has 63 MA's), (120, 42282), (162, 42441), (172, 42498), (174, 42504),

Gene: DreamTeam_61 Start: 42752, Stop: 43012, Start Num: 115

Candidate Starts for DreamTeam_61:

(Start: 105 @42734 has 14 MA's), (Start: 115 @42752 has 63 MA's), (120, 42770), (136, 42827), (157, 42908),

Gene: E1_55 Start: 34794, Stop: 35114, Start Num: 84

Candidate Starts for E1_55:

(2, 34521), (3, 34560), (4, 34569), (7, 34584), (19, 34650), (20, 34653), (28, 34677), (31, 34695), (44, 34725), (Start: 84 @34794 has 4 MA's), (108, 34824), (130, 34899), (176, 35097),

Gene: Eden_72 Start: 40483, Stop: 40758, Start Num: 114

Candidate Starts for Eden_72:

(10, 40246), (14, 40276), (15, 40279), (18, 40294), (Start: 27 @40324 has 1 MA's), (28, 40327), (48, 40381), (Start: 73 @40423 has 1 MA's), (Start: 114 @40483 has 75 MA's), (161, 40669), (162, 40672), (175, 40741),

Gene: Eesa_65 Start: 39439, Stop: 39717, Start Num: 111

Candidate Starts for Eesa_65:

(Start: 111 @39439 has 15 MA's), (177, 39709),

Gene: Elesar_62 Start: 42571, Stop: 42897, Start Num: 66

Candidate Starts for Elesar_62:

(Start: 66 @42571 has 4 MA's), (Start: 90 @42601 has 11 MA's), (147, 42757), (172, 42871),

Gene: Elva_73 Start: 41675, Stop: 41950, Start Num: 114

Candidate Starts for Elva_73:

(Start: 114 @41675 has 75 MA's), (161, 41861), (162, 41864),

Gene: EmiRose_46 Start: 36892, Stop: 37236, Start Num: 62

Candidate Starts for EmiRose_46:

(Start: 62 @36892 has 1 MA's), (131, 37030), (138, 37060),

Gene: EstebanJulior_60 Start: 43409, Stop: 43669, Start Num: 115

Candidate Starts for EstebanJulior_60:

(Start: 115 @43409 has 63 MA's), (120, 43427), (136, 43484),

Gene: Eula_69 Start: 40916, Stop: 41191, Start Num: 114

Candidate Starts for Eula_69:

(Start: 114 @40916 has 75 MA's), (161, 41102),

Gene: Eunoia_62 Start: 44077, Stop: 44337, Start Num: 115
Candidate Starts for Eunoia_62:
(Start: 70 @44008 has 2 MA's), (82, 44029), (Start: 115 @44077 has 63 MA's), (121, 44098), (135, 44149),

Gene: EvenBluerMoon_51 Start: 35879, Stop: 36160, Start Num: 109
Candidate Starts for EvenBluerMoon_51:
(Start: 67 @35822 has 1 MA's), (Start: 109 @35879 has 4 MA's),

Gene: Faiyaz_132 Start: 75303, Stop: 75626, Start Num: 79
Candidate Starts for Faiyaz_132:
(Start: 79 @75303 has 5 MA's), (139, 75453), (160, 75534), (164, 75558), (166, 75570),

Gene: Finalfrontier_69 Start: 41583, Stop: 41858, Start Num: 114
Candidate Starts for Finalfrontier_69:
(Start: 114 @41583 has 75 MA's), (161, 41769),

Gene: Fingolfin_70 Start: 38104, Stop: 38391, Start Num: 100
Candidate Starts for Fingolfin_70:
(Start: 100 @38104 has 16 MA's), (149, 38257), (163, 38320),

Gene: FlameThrower_65 Start: 40846, Stop: 41121, Start Num: 114
Candidate Starts for FlameThrower_65:
(60, 40768), (Start: 114 @40846 has 75 MA's), (161, 41032), (175, 41104),

Gene: Fluke_62 Start: 43458, Stop: 43736, Start Num: 105
Candidate Starts for Fluke_62:
(Start: 105 @43458 has 14 MA's), (Start: 115 @43476 has 63 MA's), (120, 43494), (135, 43548),

Gene: Franklin22_74 Start: 40216, Stop: 40491, Start Num: 114
Candidate Starts for Franklin22_74:
(Start: 73 @40156 has 1 MA's), (Start: 114 @40216 has 75 MA's), (161, 40402), (175, 40474),

Gene: Frizzle_58 Start: 45018, Stop: 45314, Start Num: 99
Candidate Starts for Frizzle_58:
(Start: 99 @45018 has 1 MA's), (Start: 128 @45090 has 1 MA's), (136, 45123), (177, 45306),

Gene: Fryberger_144 Start: 66223, Stop: 66480, Start Num: 110
Candidate Starts for Fryberger_144:
(Start: 110 @66223 has 5 MA's), (138, 66319), (146, 66343), (153, 66373), (162, 66406),

Gene: Gack_71 Start: 40197, Stop: 40472, Start Num: 114
Candidate Starts for Gack_71:
(Start: 114 @40197 has 75 MA's), (161, 40383), (166, 40413),

Gene: Galaxy_65 Start: 37453, Stop: 37731, Start Num: 111
Candidate Starts for Galaxy_65:
(30, 37303), (38, 37327), (53, 37360), (Start: 111 @37453 has 15 MA's), (163, 37660),

Gene: Ghobes_59 Start: 45003, Stop: 45227, Start Num: 128
Candidate Starts for Ghobes_59:
(Start: 99 @44931 has 1 MA's), (Start: 128 @45003 has 1 MA's), (136, 45036), (177, 45219),

Gene: Gisselle_61 Start: 42752, Stop: 43012, Start Num: 115
Candidate Starts for Gisselle_61:
(Start: 105 @42734 has 14 MA's), (Start: 115 @42752 has 63 MA's), (120, 42770), (136, 42827), (157, 42908),

Gene: Glenn_64 Start: 44035, Stop: 44313, Start Num: 105
Candidate Starts for Glenn_64:
(Start: 105 @44035 has 14 MA's), (Start: 115 @44053 has 63 MA's), (120, 44071), (135, 44125),

Gene: Glotell_71 Start: 38150, Stop: 38437, Start Num: 100
Candidate Starts for Glotell_71:
(Start: 100 @38150 has 16 MA's), (149, 38303), (163, 38366),

Gene: GoodLuckBabe_69 Start: 41904, Stop: 42203, Start Num: 85
Candidate Starts for GoodLuckBabe_69:
(Start: 66 @41880 has 4 MA's), (Start: 85 @41904 has 1 MA's), (132, 42003), (147, 42063), (156, 42099),

Gene: Graynor_65 Start: 43171, Stop: 43443, Start Num: 107
Candidate Starts for Graynor_65:
(Start: 90 @43150 has 11 MA's), (Start: 107 @43171 has 7 MA's), (112, 43177), (Start: 115 @43183 has 63 MA's),

Gene: GreenHearts_62 Start: 43911, Stop: 44171, Start Num: 115
Candidate Starts for GreenHearts_62:
(Start: 115 @43911 has 63 MA's), (117, 43917), (132, 43968), (133, 43971), (135, 43983), (166, 44115),

Gene: Greenhouse_61 Start: 43637, Stop: 43897, Start Num: 115
Candidate Starts for Greenhouse_61:
(Start: 115 @43637 has 63 MA's), (117, 43643), (132, 43694), (133, 43697), (166, 43841),

Gene: GrimEater_65 Start: 41105, Stop: 41392, Start Num: 102
Candidate Starts for GrimEater_65:
(57, 41039), (Start: 102 @41105 has 1 MA's), (153, 41267), (157, 41285),

Gene: Guey18_149 Start: 67884, Stop: 68141, Start Num: 110
Candidate Starts for Guey18_149:
(Start: 110 @67884 has 5 MA's), (138, 67980), (146, 68004), (153, 68034), (162, 68067),

Gene: Guinevere_71 Start: 41765, Stop: 42061, Start Num: 90
Candidate Starts for Guinevere_71:
(Start: 90 @41765 has 11 MA's), (132, 41861), (147, 41921), (156, 41957),

Gene: Gusanita_70 Start: 42391, Stop: 42687, Start Num: 90
Candidate Starts for Gusanita_70:
(Start: 90 @42391 has 11 MA's), (130, 42481), (172, 42661),

Gene: Gustav_68 Start: 43674, Stop: 44000, Start Num: 63
Candidate Starts for Gustav_68:
(48, 43644), (Start: 63 @43674 has 2 MA's), (129, 43788), (147, 43857), (153, 43875), (157, 43896), (159, 43905), (168, 43962),

Gene: Halloweekend_62 Start: 41095, Stop: 41391, Start Num: 90
Candidate Starts for Halloweekend_62:
(Start: 90 @41095 has 11 MA's), (130, 41185), (147, 41251), (163, 41323), (172, 41365),

Gene: HamCheese_69 Start: 38089, Stop: 38376, Start Num: 100
Candidate Starts for HamCheese_69:
(Start: 100 @38089 has 16 MA's), (149, 38242), (163, 38305),

Gene: HeadNerd_62 Start: 42632, Stop: 42892, Start Num: 115
Candidate Starts for HeadNerd_62:
(Start: 105 @42614 has 14 MA's), (Start: 115 @42632 has 63 MA's), (120, 42650), (136, 42707), (162, 42809), (169, 42857),

Gene: Heinz_63 Start: 39746, Stop: 40030, Start Num: 107
Candidate Starts for Heinz_63:
(Start: 107 @39746 has 7 MA's), (125, 39800),

Gene: Herb_60 Start: 43613, Stop: 43870, Start Num: 115
Candidate Starts for Herb_60:
(Start: 111 @43604 has 15 MA's), (Start: 115 @43613 has 63 MA's), (120, 43631), (137, 43688), (157, 43766),

Gene: Hibiscus_63 Start: 39480, Stop: 39836, Start Num: 54
Candidate Starts for Hibiscus_63:
(Start: 54 @39480 has 3 MA's), (Start: 107 @39552 has 7 MA's), (125, 39606),

Gene: Hilltopfarm_134 Start: 76128, Stop: 76451, Start Num: 79
Candidate Starts for Hilltopfarm_134:
(Start: 79 @76128 has 5 MA's), (139, 76278), (160, 76359), (164, 76383), (166, 76395),

Gene: Huckleberry_62 Start: 42636, Stop: 42896, Start Num: 115
Candidate Starts for Huckleberry_62:
(Start: 105 @42618 has 14 MA's), (Start: 115 @42636 has 63 MA's), (120, 42654), (136, 42711), (162, 42813), (169, 42861),

Gene: Huffy_64 Start: 39227, Stop: 39523, Start Num: 88
Candidate Starts for Huffy_64:
(Start: 62 @39185 has 1 MA's), (Start: 88 @39227 has 8 MA's), (156, 39416), (168, 39485),

Gene: HunterDalle_60 Start: 42928, Stop: 43257, Start Num: 70
Candidate Starts for HunterDalle_60:
(Start: 70 @42928 has 2 MA's), (82, 42949), (Start: 115 @42997 has 63 MA's), (120, 43015), (121, 43018), (135, 43069),

Gene: Huntingdon_61 Start: 43533, Stop: 43811, Start Num: 104
Candidate Starts for Huntingdon_61:
(Start: 104 @43533 has 3 MA's), (Start: 115 @43551 has 63 MA's), (132, 43608), (133, 43611), (135, 43623), (166, 43755),

Gene: Icarian_72 Start: 41856, Stop: 42131, Start Num: 114
Candidate Starts for Icarian_72:
(Start: 114 @41856 has 75 MA's), (156, 42021), (161, 42042), (162, 42045),

Gene: Ichiang_65 Start: 41204, Stop: 41500, Start Num: 90
Candidate Starts for Ichiang_65:
(Start: 90 @41204 has 11 MA's), (147, 41360), (163, 41432), (172, 41474),

Gene: Immaculata_62 Start: 43324, Stop: 43584, Start Num: 115
Candidate Starts for Immaculata_62:
(Start: 105 @43306 has 14 MA's), (Start: 115 @43324 has 63 MA's), (120, 43342), (135, 43396),

Gene: IndyLu_71 Start: 41495, Stop: 41770, Start Num: 114
Candidate Starts for IndyLu_71:
(21, 41318), (38, 41369), (60, 41420), (Start: 72 @41435 has 4 MA's), (Start: 87 @41462 has 1 MA's),
(92, 41468), (Start: 105 @41483 has 14 MA's), (Start: 114 @41495 has 75 MA's),

Gene: IsHungry_64 Start: 40246, Stop: 40572, Start Num: 66
Candidate Starts for IsHungry_64:
(32, 40180), (Start: 66 @40246 has 4 MA's), (Start: 90 @40276 has 11 MA's), (132, 40372), (147,
40432), (172, 40546), (174, 40552),

Gene: Jabb_71 Start: 41251, Stop: 41526, Start Num: 114
Candidate Starts for Jabb_71:
(Start: 114 @41251 has 75 MA's),

Gene: Jamun_63 Start: 38467, Stop: 38745, Start Num: 111
Candidate Starts for Jamun_63:
(24, 38326), (74, 38413), (98, 38449), (Start: 104 @38455 has 3 MA's), (Start: 111 @38467 has 15
MA's),

Gene: JanetJ_52 Start: 36634, Stop: 36915, Start Num: 109
Candidate Starts for JanetJ_52:
(Start: 109 @36634 has 4 MA's),

Gene: Jankie_67 Start: 41285, Stop: 41572, Start Num: 102
Candidate Starts for Jankie_67:
(57, 41219), (Start: 102 @41285 has 1 MA's), (153, 41447), (157, 41465),

Gene: Joann_63 Start: 43843, Stop: 44103, Start Num: 115
Candidate Starts for Joann_63:
(Start: 115 @43843 has 63 MA's), (132, 43900), (133, 43903), (166, 44047),

Gene: Johnathan_70 Start: 40508, Stop: 40783, Start Num: 114
Candidate Starts for Johnathan_70:
(Start: 114 @40508 has 75 MA's),

Gene: Jojo24_63 Start: 40163, Stop: 40516, Start Num: 54
Candidate Starts for Jojo24_63:
(Start: 54 @40163 has 3 MA's), (Start: 107 @40235 has 7 MA's), (125, 40289),

Gene: Jovita_68 Start: 40684, Stop: 40959, Start Num: 114
Candidate Starts for Jovita_68:
(Start: 114 @40684 has 75 MA's), (161, 40870),

Gene: Julie_67 Start: 41903, Stop: 42199, Start Num: 90
Candidate Starts for Julie_67:

(Start: 66 @41873 has 4 MA's), (Start: 90 @41903 has 11 MA's), (132, 41999), (147, 42059), (172, 42173), (174, 42179),

Gene: Jumboset_62 Start: 43444, Stop: 43704, Start Num: 115

Candidate Starts for Jumboset_62:

(Start: 105 @43426 has 14 MA's), (Start: 115 @43444 has 63 MA's), (120, 43462), (133, 43504), (135, 43516),

Gene: Juno112_69 Start: 38104, Stop: 38391, Start Num: 100

Candidate Starts for Juno112_69:

(Start: 100 @38104 has 16 MA's), (149, 38257), (163, 38320),

Gene: KHumphrey_70 Start: 37978, Stop: 38265, Start Num: 100

Candidate Starts for KHumphrey_70:

(Start: 100 @37978 has 16 MA's), (149, 38131), (163, 38194),

Gene: Kalizoi_62 Start: 43182, Stop: 43442, Start Num: 115

Candidate Starts for Kalizoi_62:

(Start: 105 @43164 has 14 MA's), (Start: 115 @43182 has 63 MA's), (120, 43200), (135, 43254),

Gene: Kate33_73 Start: 41226, Stop: 41501, Start Num: 114

Candidate Starts for Kate33_73:

(38, 41100), (60, 41151), (Start: 72 @41166 has 4 MA's), (92, 41199), (Start: 105 @41214 has 14 MA's), (Start: 114 @41226 has 75 MA's),

Gene: Katzastrophic_67 Start: 41352, Stop: 41627, Start Num: 114

Candidate Starts for Katzastrophic_67:

(23, 41187), (Start: 27 @41196 has 1 MA's), (28, 41199), (45, 41247), (60, 41277), (Start: 72 @41292 has 4 MA's), (92, 41325), (Start: 114 @41352 has 75 MA's), (161, 41538), (175, 41610),

Gene: Keelan_144 Start: 66560, Stop: 66817, Start Num: 110

Candidate Starts for Keelan_144:

(Start: 110 @66560 has 5 MA's), (138, 66656), (146, 66680), (153, 66710), (162, 66743), (173, 66803),

Gene: KendraB23_76 Start: 39417, Stop: 39695, Start Num: 111

Candidate Starts for KendraB23_76:

(71, 39363), (Start: 111 @39417 has 15 MA's), (177, 39687),

Gene: Kenzers_69 Start: 40798, Stop: 41073, Start Num: 114

Candidate Starts for Kenzers_69:

(Start: 114 @40798 has 75 MA's), (161, 40984),

Gene: Kepler_75 Start: 38025, Stop: 38375, Start Num: 47

Candidate Starts for Kepler_75:

(Start: 47 @38025 has 8 MA's), (Start: 105 @38088 has 14 MA's),

Gene: Khuang_70 Start: 39192, Stop: 39488, Start Num: 97

Candidate Starts for Khuang_70:

(Start: 97 @39192 has 1 MA's), (116, 39222), (153, 39360),

Gene: Kieran_65 Start: 41080, Stop: 41355, Start Num: 114

Candidate Starts for Kieran_65:

(60, 41005), (Start: 114 @41080 has 75 MA's), (161, 41266), (166, 41296),

Gene: Kihatsu_69 Start: 42860, Stop: 43183, Start Num: 66
Candidate Starts for Kihatsu_69:
(Start: 66 @42860 has 4 MA's), (Start: 85 @42884 has 1 MA's), (132, 42983), (147, 43043), (156, 43079),

Gene: KingBob_60 Start: 43614, Stop: 43871, Start Num: 115
Candidate Starts for KingBob_60:
(Start: 111 @43605 has 15 MA's), (Start: 115 @43614 has 63 MA's), (120, 43632), (137, 43689), (157, 43767),

Gene: Kittykat_65 Start: 43266, Stop: 43526, Start Num: 115
Candidate Starts for Kittykat_65:
(Start: 105 @43248 has 14 MA's), (Start: 115 @43266 has 63 MA's), (120, 43284), (136, 43341), (157, 43422), (162, 43443),

Gene: Korra_62 Start: 43371, Stop: 43631, Start Num: 115
Candidate Starts for Korra_62:
(Start: 105 @43353 has 14 MA's), (Start: 115 @43371 has 63 MA's), (120, 43389), (135, 43443),

Gene: Kudrefre_128 Start: 69247, Stop: 69579, Start Num: 100
Candidate Starts for Kudrefre_128:
(Start: 100 @69247 has 16 MA's), (143, 69385), (145, 69397), (163, 69487),

Gene: Kuleana_76 Start: 38455, Stop: 38775, Start Num: 81
Candidate Starts for Kuleana_76:
(Start: 34 @38371 has 1 MA's), (Start: 81 @38455 has 1 MA's), (Start: 105 @38488 has 14 MA's),

Gene: Lahqtemish_69 Start: 41710, Stop: 41985, Start Num: 114
Candidate Starts for Lahqtemish_69:
(44, 41602), (60, 41635), (Start: 72 @41650 has 4 MA's), (Start: 87 @41677 has 1 MA's), (92, 41683), (Start: 105 @41698 has 14 MA's), (Start: 114 @41710 has 75 MA's),

Gene: Lakshmi_61 Start: 43678, Stop: 43938, Start Num: 115
Candidate Starts for Lakshmi_61:
(Start: 115 @43678 has 63 MA's), (117, 43684), (132, 43735), (133, 43738), (135, 43750), (166, 43882),

Gene: Laphuphu24k_68 Start: 38089, Stop: 38376, Start Num: 100
Candidate Starts for Laphuphu24k_68:
(Start: 100 @38089 has 16 MA's), (149, 38242), (163, 38305),

Gene: Lasagna_59 Start: 42266, Stop: 42526, Start Num: 115
Candidate Starts for Lasagna_59:
(Start: 105 @42248 has 14 MA's), (Start: 115 @42266 has 63 MA's), (120, 42284), (162, 42443), (172, 42500), (174, 42506),

Gene: Lennox_61 Start: 42751, Stop: 43011, Start Num: 115
Candidate Starts for Lennox_61:
(Start: 105 @42733 has 14 MA's), (Start: 115 @42751 has 63 MA's), (120, 42769), (136, 42826), (162, 42928), (172, 42985), (174, 42991),

Gene: Lenoxika_66 Start: 41766, Stop: 42062, Start Num: 90

Candidate Starts for Lenoxika_66:
(Start: 90 @41766 has 11 MA's), (132, 41862), (147, 41922), (156, 41958),

Gene: Leona_68 Start: 38237, Stop: 38518, Start Num: 105
Candidate Starts for Leona_68:
(Start: 105 @38237 has 14 MA's), (149, 38384), (163, 38447),

Gene: LilJank_122 Start: 71012, Stop: 71341, Start Num: 100
Candidate Starts for LilJank_122:
(Start: 100 @71012 has 16 MA's), (139, 71132), (145, 71162), (148, 71180), (150, 71186), (152, 71195), (169, 71288), (173, 71297),

Gene: LilStuart_60 Start: 42614, Stop: 42874, Start Num: 115
Candidate Starts for LilStuart_60:
(Start: 105 @42596 has 14 MA's), (Start: 115 @42614 has 63 MA's), (120, 42632), (162, 42791), (172, 42848), (174, 42854),

Gene: Lilo27_70 Start: 41100, Stop: 41375, Start Num: 114
Candidate Starts for Lilo27_70:
(Start: 114 @41100 has 75 MA's), (161, 41286),

Gene: LimaBean_68 Start: 40790, Stop: 41065, Start Num: 114
Candidate Starts for LimaBean_68:
(61, 40715), (74, 40730), (91, 40760), (94, 40763), (Start: 114 @40790 has 75 MA's),

Gene: Litotes_62 Start: 43156, Stop: 43416, Start Num: 115
Candidate Starts for Litotes_62:
(Start: 90 @43123 has 11 MA's), (Start: 107 @43144 has 7 MA's), (112, 43150), (Start: 115 @43156 has 63 MA's),

Gene: LittleTokyo_73 Start: 38604, Stop: 38882, Start Num: 111
Candidate Starts for LittleTokyo_73:
(Start: 111 @38604 has 15 MA's), (161, 38796),

Gene: Loviatar_67 Start: 42044, Stop: 42379, Start Num: 72
Candidate Starts for Loviatar_67:
(60, 42029), (Start: 72 @42044 has 4 MA's), (92, 42077), (Start: 114 @42104 has 75 MA's), (122, 42137), (162, 42293),

Gene: Lucy_60 Start: 42591, Stop: 42869, Start Num: 105
Candidate Starts for Lucy_60:
(Start: 105 @42591 has 14 MA's), (Start: 115 @42609 has 63 MA's), (120, 42627), (162, 42786), (172, 42843), (174, 42849),

Gene: Lunar_73 Start: 37996, Stop: 38376, Start Num: 34
Candidate Starts for Lunar_73:
(Start: 34 @37996 has 1 MA's), (Start: 105 @38089 has 14 MA's),

Gene: Lynlen_71 Start: 40984, Stop: 41259, Start Num: 114
Candidate Starts for Lynlen_71:
(Start: 105 @40972 has 14 MA's), (Start: 114 @40984 has 75 MA's),

Gene: Mahdia_60 Start: 41790, Stop: 42113, Start Num: 63

Candidate Starts for Mahdia_60:

(Start: 63 @41790 has 2 MA's), (68, 41796), (147, 41970), (153, 41988), (168, 42075),

Gene: Maja_56 Start: 36343, Stop: 36714, Start Num: 51

Candidate Starts for Maja_56:

(Start: 51 @36343 has 1 MA's), (Start: 95 @36415 has 3 MA's), (Start: 109 @36433 has 4 MA's),

Gene: Makoto_60 Start: 42571, Stop: 42831, Start Num: 115

Candidate Starts for Makoto_60:

(Start: 105 @42553 has 14 MA's), (Start: 115 @42571 has 63 MA's), (120, 42589), (136, 42646), (162, 42748), (172, 42805), (174, 42811),

Gene: MamaPearl_60 Start: 43409, Stop: 43669, Start Num: 115

Candidate Starts for MamaPearl_60:

(Start: 115 @43409 has 63 MA's), (120, 43427), (136, 43484),

Gene: Maria1952_59 Start: 43613, Stop: 43870, Start Num: 115

Candidate Starts for Maria1952_59:

(Start: 111 @43604 has 15 MA's), (Start: 115 @43613 has 63 MA's), (120, 43631), (137, 43688), (157, 43766),

Gene: MeganNoll_63 Start: 43904, Stop: 44182, Start Num: 105

Candidate Starts for MeganNoll_63:

(Start: 105 @43904 has 14 MA's), (Start: 115 @43922 has 63 MA's), (120, 43940), (135, 43994),

Gene: Melons_73 Start: 37979, Stop: 38383, Start Num: 27

Candidate Starts for Melons_73:

(Start: 27 @37979 has 1 MA's), (Start: 105 @38096 has 14 MA's),

Gene: MillySue_69 Start: 41794, Stop: 42090, Start Num: 90

Candidate Starts for MillySue_69:

(Start: 90 @41794 has 11 MA's), (132, 41890), (172, 42064),

Gene: Milomuff_72 Start: 41357, Stop: 41632, Start Num: 114

Candidate Starts for Milomuff_72:

(Start: 114 @41357 has 75 MA's),

Gene: Min1_34 Start: 16506, Stop: 16799, Start Num: 108

Candidate Starts for Min1_34:

(64, 16446), (75, 16461), (76, 16464), (Start: 84 @16479 has 4 MA's), (Start: 97 @16491 has 1 MA's), (108, 16506), (140, 16617), (156, 16686), (176, 16782),

Gene: Misaeng_61 Start: 43477, Stop: 43737, Start Num: 115

Candidate Starts for Misaeng_61:

(Start: 115 @43477 has 63 MA's), (132, 43534), (133, 43537), (135, 43549), (166, 43681),

Gene: Moki_62 Start: 42825, Stop: 43085, Start Num: 115

Candidate Starts for Moki_62:

(Start: 105 @42807 has 14 MA's), (Start: 115 @42825 has 63 MA's), (120, 42843), (136, 42900), (162, 43002), (169, 43050),

Gene: Morrissey_63 Start: 43651, Stop: 44007, Start Num: 55

Candidate Starts for Morrissey_63:

(Start: 55 @43651 has 1 MA's), (Start: 63 @43666 has 2 MA's), (Start: 72 @43678 has 4 MA's), (86, 43702), (147, 43864), (168, 43969),

Gene: MrBoss_63 Start: 42722, Stop: 42994, Start Num: 107

Candidate Starts for MrBoss_63:

(Start: 90 @42701 has 11 MA's), (Start: 107 @42722 has 7 MA's), (112, 42728), (Start: 115 @42734 has 63 MA's),

Gene: MrGloopy_62 Start: 43347, Stop: 43625, Start Num: 105

Candidate Starts for MrGloopy_62:

(Start: 105 @43347 has 14 MA's), (Start: 115 @43365 has 63 MA's), (120, 43383), (135, 43437),

Gene: MsUbiquitous_71 Start: 41251, Stop: 41526, Start Num: 114

Candidate Starts for MsUbiquitous_71:

(Start: 114 @41251 has 75 MA's),

Gene: Nancia_61 Start: 42902, Stop: 43162, Start Num: 115

Candidate Starts for Nancia_61:

(Start: 105 @42884 has 14 MA's), (Start: 115 @42902 has 63 MA's), (120, 42920), (162, 43079), (172, 43136), (174, 43142),

Gene: Nandita_68 Start: 42024, Stop: 42323, Start Num: 87

Candidate Starts for Nandita_68:

(32, 41931), (68, 42000), (Start: 87 @42024 has 1 MA's), (147, 42183), (149, 42192), (172, 42297),

Gene: Neville_125 Start: 70232, Stop: 70561, Start Num: 100

Candidate Starts for Neville_125:

(Start: 100 @70232 has 16 MA's), (139, 70352), (145, 70382), (150, 70406), (152, 70415), (165, 70484), (169, 70508), (173, 70517), (178, 70556),

Gene: Nicky22_69 Start: 41321, Stop: 41596, Start Num: 114

Candidate Starts for Nicky22_69:

(Start: 114 @41321 has 75 MA's), (161, 41507),

Gene: Nubia_61 Start: 43705, Stop: 43965, Start Num: 115

Candidate Starts for Nubia_61:

(Start: 104 @43687 has 3 MA's), (Start: 115 @43705 has 63 MA's), (132, 43762), (133, 43765), (166, 43909),

Gene: OMalley_60 Start: 43400, Stop: 43660, Start Num: 115

Candidate Starts for OMalley_60:

(Start: 70 @43331 has 2 MA's), (82, 43352), (Start: 115 @43400 has 63 MA's), (121, 43421), (135, 43472),

Gene: Octobien14_124 Start: 67781, Stop: 68113, Start Num: 100

Candidate Starts for Octobien14_124:

(Start: 72 @67739 has 4 MA's), (Start: 100 @67781 has 16 MA's), (143, 67919), (145, 67931), (159, 67997),

Gene: Olliecat_66 Start: 38762, Stop: 39037, Start Num: 114

Candidate Starts for Olliecat_66:

(1, 38429), (19, 38579), (35, 38630), (Start: 114 @38762 has 75 MA's), (161, 38948), (170, 39005),

Gene: Oppalora_68 Start: 38103, Stop: 38390, Start Num: 100
Candidate Starts for Oppalora_68:
(Start: 100 @38103 has 16 MA's), (149, 38256), (163, 38319),

Gene: Orcanus_65 Start: 39051, Stop: 39329, Start Num: 111
Candidate Starts for Orcanus_65:
(Start: 111 @39051 has 15 MA's),

Gene: OtsoOtso_72 Start: 37650, Stop: 38003, Start Num: 47
Candidate Starts for OtsoOtso_72:
(Start: 47 @37650 has 8 MA's), (Start: 105 @37716 has 14 MA's),

Gene: OurGirlNessie_59 Start: 42225, Stop: 42485, Start Num: 115
Candidate Starts for OurGirlNessie_59:
(Start: 105 @42207 has 14 MA's), (Start: 115 @42225 has 63 MA's), (120, 42243), (136, 42300), (162, 42402), (172, 42459), (174, 42465),

Gene: Oxynfrius_62 Start: 43823, Stop: 44083, Start Num: 115
Candidate Starts for Oxynfrius_62:
(Start: 115 @43823 has 63 MA's), (132, 43880), (133, 43883), (166, 44027),

Gene: PartyCup_62 Start: 43576, Stop: 43848, Start Num: 107
Candidate Starts for PartyCup_62:
(Start: 90 @43555 has 11 MA's), (Start: 107 @43576 has 7 MA's), (112, 43582), (Start: 115 @43588 has 63 MA's),

Gene: PastaFagioli_71 Start: 41718, Stop: 42053, Start Num: 72
Candidate Starts for PastaFagioli_71:
(44, 41670), (60, 41703), (Start: 72 @41718 has 4 MA's), (Start: 87 @41745 has 1 MA's), (92, 41751), (Start: 105 @41766 has 14 MA's), (Start: 114 @41778 has 75 MA's),

Gene: Pecas_70 Start: 41217, Stop: 41492, Start Num: 114
Candidate Starts for Pecas_70:
(Start: 114 @41217 has 75 MA's), (161, 41403),

Gene: PhigPhack_73 Start: 41119, Stop: 41394, Start Num: 114
Candidate Starts for PhigPhack_73:
(Start: 114 @41119 has 75 MA's), (161, 41305),

Gene: PhirstandPhine_78 Start: 37839, Stop: 38192, Start Num: 47
Candidate Starts for PhirstandPhine_78:
(Start: 47 @37839 has 8 MA's), (Start: 105 @37905 has 14 MA's),

Gene: Phisb_72 Start: 41092, Stop: 41367, Start Num: 114
Candidate Starts for Phisb_72:
(Start: 114 @41092 has 75 MA's),

Gene: PhluffyCoco_68 Start: 38203, Stop: 38490, Start Num: 100
Candidate Starts for PhluffyCoco_68:
(Start: 100 @38203 has 16 MA's), (149, 38356), (163, 38419),

Gene: Pineda_74 Start: 38058, Stop: 38345, Start Num: 105
Candidate Starts for Pineda_74:

(Start: 47 @37995 has 8 MA's), (Start: 105 @38058 has 14 MA's),

Gene: PinkFriday_61 Start: 42959, Stop: 43216, Start Num: 115

Candidate Starts for PinkFriday_61:

(Start: 111 @42950 has 15 MA's), (Start: 115 @42959 has 63 MA's), (137, 43034), (138, 43037), (157, 43112), (174, 43196),

Gene: PitaDog_61 Start: 42609, Stop: 42887, Start Num: 105

Candidate Starts for PitaDog_61:

(Start: 105 @42609 has 14 MA's), (Start: 115 @42627 has 63 MA's), (120, 42645), (136, 42702), (162, 42804), (172, 42861), (174, 42867),

Gene: Polka_71 Start: 37650, Stop: 38003, Start Num: 47

Candidate Starts for Polka_71:

(Start: 47 @37650 has 8 MA's), (Start: 105 @37716 has 14 MA's),

Gene: PondAmelia_83 Start: 40965, Stop: 41300, Start Num: 72

Candidate Starts for PondAmelia_83:

(43, 40914), (60, 40950), (Start: 72 @40965 has 4 MA's), (92, 40998), (Start: 114 @41025 has 75 MA's), (122, 41058), (161, 41211), (162, 41214),

Gene: Popper_70 Start: 41441, Stop: 41767, Start Num: 66

Candidate Starts for Popper_70:

(32, 41375), (Start: 66 @41441 has 4 MA's), (Start: 90 @41471 has 11 MA's), (132, 41567), (147, 41627), (172, 41741), (174, 41747),

Gene: Potatoes_62 Start: 43324, Stop: 43584, Start Num: 115

Candidate Starts for Potatoes_62:

(Start: 105 @43306 has 14 MA's), (Start: 115 @43324 has 63 MA's), (120, 43342), (135, 43396),

Gene: PrairieDogTown_52 Start: 35824, Stop: 36162, Start Num: 67

Candidate Starts for PrairieDogTown_52:

(Start: 67 @35824 has 1 MA's), (Start: 109 @35881 has 4 MA's),

Gene: Preamble_64 Start: 43037, Stop: 43297, Start Num: 115

Candidate Starts for Preamble_64:

(Start: 105 @43019 has 14 MA's), (Start: 115 @43037 has 63 MA's), (120, 43055), (136, 43112), (157, 43193), (162, 43214),

Gene: Pterodactyl_61 Start: 42938, Stop: 43198, Start Num: 115

Candidate Starts for Pterodactyl_61:

(Start: 105 @42920 has 14 MA's), (Start: 115 @42938 has 63 MA's), (120, 42956), (136, 43013), (162, 43115), (172, 43172), (174, 43178),

Gene: Pumancara_61 Start: 42494, Stop: 42751, Start Num: 115

Candidate Starts for Pumancara_61:

(Start: 111 @42485 has 15 MA's), (Start: 115 @42494 has 63 MA's), (137, 42569), (138, 42572), (157, 42647), (174, 42731),

Gene: Puppies_62 Start: 41790, Stop: 42113, Start Num: 69

Candidate Starts for Puppies_62:

(28, 41697), (33, 41718), (40, 41733), (42, 41739), (59, 41775), (Start: 69 @41790 has 2 MA's), (153, 41988),

Gene: QMacho_72 Start: 41222, Stop: 41497, Start Num: 114

Candidate Starts for QMacho_72:

(Start: 114 @41222 has 75 MA's),

Gene: Quenya_69 Start: 41516, Stop: 41791, Start Num: 114

Candidate Starts for Quenya_69:

(Start: 114 @41516 has 75 MA's), (122, 41549), (161, 41702), (175, 41774),

Gene: QuinnAvery_70 Start: 42826, Stop: 43122, Start Num: 90

Candidate Starts for QuinnAvery_70:

(37, 42730), (Start: 90 @42826 has 11 MA's), (132, 42922), (147, 42982), (149, 42991),

Gene: RAP15_63 Start: 43905, Stop: 44183, Start Num: 105

Candidate Starts for RAP15_63:

(Start: 105 @43905 has 14 MA's), (Start: 115 @43923 has 63 MA's), (120, 43941), (135, 43995),

Gene: Rabbitrun_127 Start: 71852, Stop: 72181, Start Num: 100

Candidate Starts for Rabbitrun_127:

(5, 71615), (6, 71618), (22, 71696), (36, 71741), (38, 71744), (50, 71774), (53, 71777), (68, 71804),
(89, 71840), (Start: 100 @71852 has 16 MA's), (132, 71942), (145, 72002), (148, 72020), (150, 72026),
(151, 72029), (165, 72104), (178, 72176),

Gene: Rattail_71 Start: 38499, Stop: 38786, Start Num: 100

Candidate Starts for Rattail_71:

(Start: 100 @38499 has 16 MA's), (149, 38652), (163, 38715),

Gene: RcigaStruga_62 Start: 43551, Stop: 43811, Start Num: 115

Candidate Starts for RcigaStruga_62:

(Start: 104 @43533 has 3 MA's), (Start: 115 @43551 has 63 MA's), (132, 43608), (133, 43611), (135,
43623), (166, 43755),

Gene: RedFox_71 Start: 38363, Stop: 38650, Start Num: 100

Candidate Starts for RedFox_71:

(Start: 100 @38363 has 16 MA's), (149, 38516), (163, 38579),

Gene: RegnumDei_114 Start: 60267, Stop: 60536, Start Num: 114

Candidate Starts for RegnumDei_114:

(Start: 114 @60267 has 75 MA's), (149, 60408), (154, 60420), (171, 60507),

Gene: Renna12_72 Start: 38798, Stop: 39091, Start Num: 95

Candidate Starts for Renna12_72:

(77, 38777), (Start: 95 @38798 has 3 MA's), (149, 38957), (163, 39020),

Gene: Reyja_65 Start: 41077, Stop: 41433, Start Num: 54

Candidate Starts for Reyja_65:

(Start: 54 @41077 has 3 MA's), (Start: 107 @41149 has 7 MA's), (125, 41203),

Gene: Riovina_60 Start: 43400, Stop: 43660, Start Num: 115

Candidate Starts for Riovina_60:

(Start: 70 @43331 has 2 MA's), (82, 43352), (Start: 115 @43400 has 63 MA's), (121, 43421), (135,
43472),

Gene: Riverdale_61 Start: 43055, Stop: 43315, Start Num: 115
Candidate Starts for Riverdale_61:
(Start: 105 @43037 has 14 MA's), (Start: 115 @43055 has 63 MA's), (120, 43073), (135, 43127),

Gene: Rollins_70 Start: 39578, Stop: 39853, Start Num: 114
Candidate Starts for Rollins_70:
(16, 39380), (19, 39395), (28, 39422), (39, 39455), (60, 39503), (Start: 72 @39518 has 4 MA's), (92, 39551), (Start: 114 @39578 has 75 MA's),

Gene: Rona_66 Start: 41247, Stop: 41522, Start Num: 114
Candidate Starts for Rona_66:
(60, 41172), (Start: 114 @41247 has 75 MA's), (161, 41433), (166, 41463),

Gene: Ronaldo_147 Start: 67378, Stop: 67635, Start Num: 110
Candidate Starts for Ronaldo_147:
(Start: 110 @67378 has 5 MA's), (138, 67474), (146, 67498), (153, 67528), (162, 67561),

Gene: Rozby_60 Start: 42859, Stop: 43119, Start Num: 115
Candidate Starts for Rozby_60:
(Start: 105 @42841 has 14 MA's), (Start: 115 @42859 has 63 MA's), (120, 42877), (135, 42931),

Gene: Ruchi_64 Start: 38215, Stop: 38493, Start Num: 111
Candidate Starts for Ruchi_64:
(41, 38110), (60, 38140), (Start: 104 @38203 has 3 MA's), (Start: 111 @38215 has 15 MA's),

Gene: Ryan_70 Start: 42477, Stop: 42773, Start Num: 90
Candidate Starts for Ryan_70:
(Start: 66 @42438 has 4 MA's), (Start: 90 @42477 has 11 MA's), (147, 42633), (172, 42747),

Gene: SanaSana_70 Start: 41542, Stop: 41817, Start Num: 114
Candidate Starts for SanaSana_70:
(8, 41296), (11, 41311), (17, 41350), (56, 41458), (60, 41467), (Start: 72 @41482 has 4 MA's), (92, 41515), (Start: 114 @41542 has 75 MA's), (122, 41575), (161, 41728), (162, 41731),

Gene: SansAfet_72 Start: 41068, Stop: 41343, Start Num: 114
Candidate Starts for SansAfet_72:
(Start: 114 @41068 has 75 MA's), (161, 41254),

Gene: Santhid_59 Start: 38581, Stop: 38865, Start Num: 107
Candidate Starts for Santhid_59:
(52, 38500), (77, 38542), (80, 38545), (Start: 107 @38581 has 7 MA's), (125, 38635),

Gene: Sapo_61 Start: 45211, Stop: 45513, Start Num: 96
Candidate Starts for Sapo_61:
(Start: 96 @45211 has 1 MA's), (133, 45304), (142, 45337), (158, 45412), (177, 45505),

Gene: SarBear_72 Start: 41148, Stop: 41423, Start Num: 114
Candidate Starts for SarBear_72:
(Start: 114 @41148 has 75 MA's),

Gene: Savage2526_61 Start: 43082, Stop: 43342, Start Num: 115
Candidate Starts for Savage2526_61:
(Start: 105 @43064 has 14 MA's), (Start: 115 @43082 has 63 MA's), (120, 43100), (135, 43154),

Gene: Schism_71 Start: 42712, Stop: 43011, Start Num: 85

Candidate Starts for Schism_71:

(Start: 66 @42688 has 4 MA's), (Start: 85 @42712 has 1 MA's), (126, 42790), (132, 42811), (147, 42871), (156, 42907), (167, 42967),

Gene: Schmidt_58 Start: 36837, Stop: 37133, Start Num: 88

Candidate Starts for Schmidt_58:

(Start: 88 @36837 has 8 MA's), (153, 37008), (172, 37107),

Gene: Scuttle_61 Start: 43375, Stop: 43653, Start Num: 105

Candidate Starts for Scuttle_61:

(Start: 105 @43375 has 14 MA's), (Start: 115 @43393 has 63 MA's), (120, 43411), (135, 43465),

Gene: Sephiroth_123 Start: 69017, Stop: 69349, Start Num: 100

Candidate Starts for Sephiroth_123:

(Start: 100 @69017 has 16 MA's), (143, 69155), (145, 69167), (163, 69257),

Gene: Sergei_60 Start: 43614, Stop: 43871, Start Num: 115

Candidate Starts for Sergei_60:

(Start: 111 @43605 has 15 MA's), (Start: 115 @43614 has 63 MA's), (120, 43632), (137, 43689), (157, 43767),

Gene: Shagrat_110 Start: 58151, Stop: 58423, Start Num: 111

Candidate Starts for Shagrat_110:

(Start: 111 @58151 has 15 MA's), (139, 58256), (149, 58295), (170, 58391), (171, 58394),

Gene: Sharkboy_68 Start: 41611, Stop: 41886, Start Num: 114

Candidate Starts for Sharkboy_68:

(60, 41536), (Start: 114 @41611 has 75 MA's), (122, 41644), (161, 41797), (166, 41827),

Gene: Shayna_75 Start: 41004, Stop: 41279, Start Num: 114

Candidate Starts for Shayna_75:

(Start: 114 @41004 has 75 MA's), (161, 41190),

Gene: SirBeanington_70 Start: 41335, Stop: 41610, Start Num: 114

Candidate Starts for SirBeanington_70:

(Start: 114 @41335 has 75 MA's), (161, 41521),

Gene: Skylord_70 Start: 39495, Stop: 39770, Start Num: 114

Candidate Starts for Skylord_70:

(16, 39297), (19, 39312), (28, 39339), (39, 39372), (60, 39420), (Start: 72 @39435 has 4 MA's), (92, 39468), (Start: 114 @39495 has 75 MA's),

Gene: Slay_70 Start: 41458, Stop: 41733, Start Num: 114

Candidate Starts for Slay_70:

(Start: 114 @41458 has 75 MA's), (161, 41644),

Gene: Sleepyhead_67 Start: 43516, Stop: 43788, Start Num: 104

Candidate Starts for Sleepyhead_67:

(Start: 104 @43516 has 3 MA's), (108, 43522),

Gene: Softsoap_71 Start: 41189, Stop: 41464, Start Num: 114

Candidate Starts for Softsoap_71:
(Start: 114 @41189 has 75 MA's),

Gene: Solea_73 Start: 41356, Stop: 41631, Start Num: 114
Candidate Starts for Solea_73:
(Start: 114 @41356 has 75 MA's),

Gene: Splinter_64 Start: 40315, Stop: 40611, Start Num: 88
Candidate Starts for Splinter_64:
(Start: 88 @40315 has 8 MA's), (156, 40504), (168, 40573),

Gene: Squircle_66 Start: 38761, Stop: 39036, Start Num: 114
Candidate Starts for Squircle_66:
(1, 38428), (19, 38578), (35, 38629), (Start: 114 @38761 has 75 MA's), (161, 38947), (170, 39004),

Gene: Stoor_69 Start: 41350, Stop: 41625, Start Num: 114
Candidate Starts for Stoor_69:
(Start: 114 @41350 has 75 MA's), (161, 41536), (162, 41539),

Gene: Stromboli_68 Start: 41130, Stop: 41405, Start Num: 114
Candidate Starts for Stromboli_68:
(8, 40884), (11, 40899), (17, 40938), (56, 41046), (60, 41055), (Start: 72 @41070 has 4 MA's), (92, 41103), (Start: 114 @41130 has 75 MA's), (161, 41316), (162, 41319),

Gene: StuartMinion_61 Start: 34829, Stop: 35122, Start Num: 95
Candidate Starts for StuartMinion_61:
(65, 34787), (Start: 95 @34829 has 3 MA's), (149, 34988), (172, 35096),

Gene: SunnyD_75 Start: 41007, Stop: 41282, Start Num: 114
Candidate Starts for SunnyD_75:
(Start: 114 @41007 has 75 MA's), (161, 41193),

Gene: Supakev_60 Start: 43425, Stop: 43685, Start Num: 115
Candidate Starts for Supakev_60:
(Start: 70 @43356 has 2 MA's), (82, 43377), (Start: 115 @43425 has 63 MA's), (120, 43443), (121, 43446), (135, 43497),

Gene: Suppi_62 Start: 43562, Stop: 43834, Start Num: 107
Candidate Starts for Suppi_62:
(Start: 90 @43541 has 11 MA's), (Start: 107 @43562 has 7 MA's), (112, 43568), (Start: 115 @43574 has 63 MA's),

Gene: Swervy_70 Start: 41047, Stop: 41322, Start Num: 114
Candidate Starts for Swervy_70:
(Start: 114 @41047 has 75 MA's), (161, 41233),

Gene: Syleon_128 Start: 69768, Stop: 70100, Start Num: 100
Candidate Starts for Syleon_128:
(Start: 100 @69768 has 16 MA's), (143, 69906), (145, 69918), (163, 70008),

Gene: TZGordon_65 Start: 39203, Stop: 39499, Start Num: 88
Candidate Starts for TZGordon_65:
(Start: 88 @39203 has 8 MA's), (156, 39392), (168, 39461),

Gene: Tarzan_63 Start: 39834, Stop: 40118, Start Num: 107

Candidate Starts for Tarzan_63:

(Start: 54 @39759 has 3 MA's), (77, 39795), (80, 39798), (Start: 107 @39834 has 7 MA's), (125, 39888),

Gene: TattModd_61 Start: 43209, Stop: 43469, Start Num: 115

Candidate Starts for TattModd_61:

(Start: 105 @43191 has 14 MA's), (Start: 115 @43209 has 63 MA's), (120, 43227), (135, 43281),

Gene: TaylorSipht_65 Start: 38681, Stop: 38959, Start Num: 111

Candidate Starts for TaylorSipht_65:

(Start: 111 @38681 has 15 MA's),

Gene: Teagster_75 Start: 41426, Stop: 41701, Start Num: 114

Candidate Starts for Teagster_75:

(Start: 114 @41426 has 75 MA's), (161, 41612),

Gene: Temper16_60 Start: 43614, Stop: 43871, Start Num: 115

Candidate Starts for Temper16_60:

(Start: 111 @43605 has 15 MA's), (Start: 115 @43614 has 63 MA's), (120, 43632), (137, 43689), (157, 43767),

Gene: TinaLin_63 Start: 39046, Stop: 39342, Start Num: 88

Candidate Starts for TinaLin_63:

(Start: 62 @39004 has 1 MA's), (Start: 88 @39046 has 8 MA's), (119, 39088), (141, 39172), (168, 39304),

Gene: Toad24_68 Start: 39472, Stop: 39750, Start Num: 111

Candidate Starts for Toad24_68:

(71, 39418), (Start: 111 @39472 has 15 MA's), (177, 39742),

Gene: ToastyOats_69 Start: 42136, Stop: 42432, Start Num: 90

Candidate Starts for ToastyOats_69:

(Start: 90 @42136 has 11 MA's), (132, 42232), (147, 42292), (156, 42328),

Gene: Toodles_68 Start: 42560, Stop: 42856, Start Num: 90

Candidate Starts for Toodles_68:

(32, 42464), (Start: 66 @42530 has 4 MA's), (Start: 90 @42560 has 11 MA's), (132, 42656), (163, 42788), (172, 42830), (174, 42836),

Gene: Trax_126 Start: 71052, Stop: 71381, Start Num: 100

Candidate Starts for Trax_126:

(Start: 100 @71052 has 16 MA's), (139, 71172), (145, 71202), (148, 71220), (150, 71226), (152, 71235), (169, 71328), (173, 71337),

Gene: Trine_65 Start: 43058, Stop: 43372, Start Num: 72

Candidate Starts for Trine_65:

(Start: 72 @43058 has 4 MA's), (139, 43199),

Gene: TukTuk_70 Start: 41237, Stop: 41512, Start Num: 114

Candidate Starts for TukTuk_70:

(Start: 114 @41237 has 75 MA's), (161, 41423),

Gene: Typha_129 Start: 74982, Stop: 75305, Start Num: 79

Candidate Starts for Typha_129:

(Start: 79 @74982 has 5 MA's), (139, 75132), (160, 75213), (164, 75237), (166, 75249),

Gene: Upyo_69 Start: 44979, Stop: 45296, Start Num: 73

Candidate Starts for Upyo_69:

(Start: 73 @44979 has 1 MA's), (127, 45075), (147, 45153), (153, 45171),

Gene: Urla_62 Start: 43603, Stop: 43863, Start Num: 115

Candidate Starts for Urla_62:

(Start: 115 @43603 has 63 MA's), (120, 43621), (136, 43678),

Gene: Vallejo_62 Start: 43253, Stop: 43531, Start Num: 105

Candidate Starts for Vallejo_62:

(Start: 105 @43253 has 14 MA's), (Start: 115 @43271 has 63 MA's), (120, 43289), (135, 43343),

Gene: Vendetta_64 Start: 40315, Stop: 40611, Start Num: 88

Candidate Starts for Vendetta_64:

(Start: 88 @40315 has 8 MA's), (156, 40504), (168, 40573),

Gene: Vitas_71 Start: 39646, Stop: 39921, Start Num: 114

Candidate Starts for Vitas_71:

(25, 39487), (Start: 66 @39580 has 4 MA's), (Start: 114 @39646 has 75 MA's), (122, 39679),

Gene: Volt_150 Start: 67542, Stop: 67799, Start Num: 110

Candidate Starts for Volt_150:

(Start: 110 @67542 has 5 MA's), (138, 67638), (146, 67662), (153, 67692), (162, 67725),

Gene: Vulpecula_64 Start: 37410, Stop: 37688, Start Num: 111

Candidate Starts for Vulpecula_64:

(Start: 104 @37398 has 3 MA's), (Start: 111 @37410 has 15 MA's),

Gene: Vulture_60 Start: 42928, Stop: 43257, Start Num: 70

Candidate Starts for Vulture_60:

(Start: 70 @42928 has 2 MA's), (82, 42949), (Start: 115 @42997 has 63 MA's), (120, 43015), (121, 43018), (135, 43069),

Gene: WalkingDead_71 Start: 42012, Stop: 42287, Start Num: 114

Candidate Starts for WalkingDead_71:

(Start: 114 @42012 has 75 MA's), (161, 42198), (162, 42201),

Gene: Wawa_62 Start: 43514, Stop: 43774, Start Num: 115

Candidate Starts for Wawa_62:

(Start: 105 @43496 has 14 MA's), (Start: 115 @43514 has 63 MA's), (120, 43532), (135, 43586),

Gene: Wayne_64 Start: 44019, Stop: 44291, Start Num: 107

Candidate Starts for Wayne_64:

(Start: 90 @43998 has 11 MA's), (Start: 107 @44019 has 7 MA's), (112, 44025), (Start: 115 @44031 has 63 MA's),

Gene: Widow_62 Start: 42336, Stop: 42659, Start Num: 69

Candidate Starts for Widow_62:

(28, 42243), (33, 42264), (40, 42279), (42, 42285), (Start: 55 @42312 has 1 MA's), (59, 42321), (Start: 69 @42336 has 2 MA's), (153, 42534),

Gene: WileyE_70 Start: 38402, Stop: 38680, Start Num: 111
Candidate Starts for WileyE_70:
(Start: 104 @38390 has 3 MA's), (Start: 111 @38402 has 15 MA's),

Gene: WonderBoy_59 Start: 42399, Stop: 42659, Start Num: 115
Candidate Starts for WonderBoy_59:
(Start: 105 @42381 has 14 MA's), (Start: 115 @42399 has 63 MA's), (120, 42417), (136, 42474), (162, 42576), (172, 42633), (174, 42639),

Gene: Yonex_69 Start: 42477, Stop: 42773, Start Num: 90
Candidate Starts for Yonex_69:
(Start: 66 @42438 has 4 MA's), (Start: 90 @42477 has 11 MA's), (147, 42633), (172, 42747),

Gene: Zaheer_69 Start: 42523, Stop: 42819, Start Num: 90
Candidate Starts for Zaheer_69:
(Start: 90 @42523 has 11 MA's), (132, 42619), (147, 42679), (156, 42715),

Gene: Zixiang_67 Start: 38816, Stop: 39094, Start Num: 111
Candidate Starts for Zixiang_67:
(Start: 111 @38816 has 15 MA's), (177, 39086),

Gene: Zorro_62 Start: 43226, Stop: 43486, Start Num: 115
Candidate Starts for Zorro_62:
(Start: 105 @43208 has 14 MA's), (Start: 115 @43226 has 63 MA's), (120, 43244), (135, 43298),