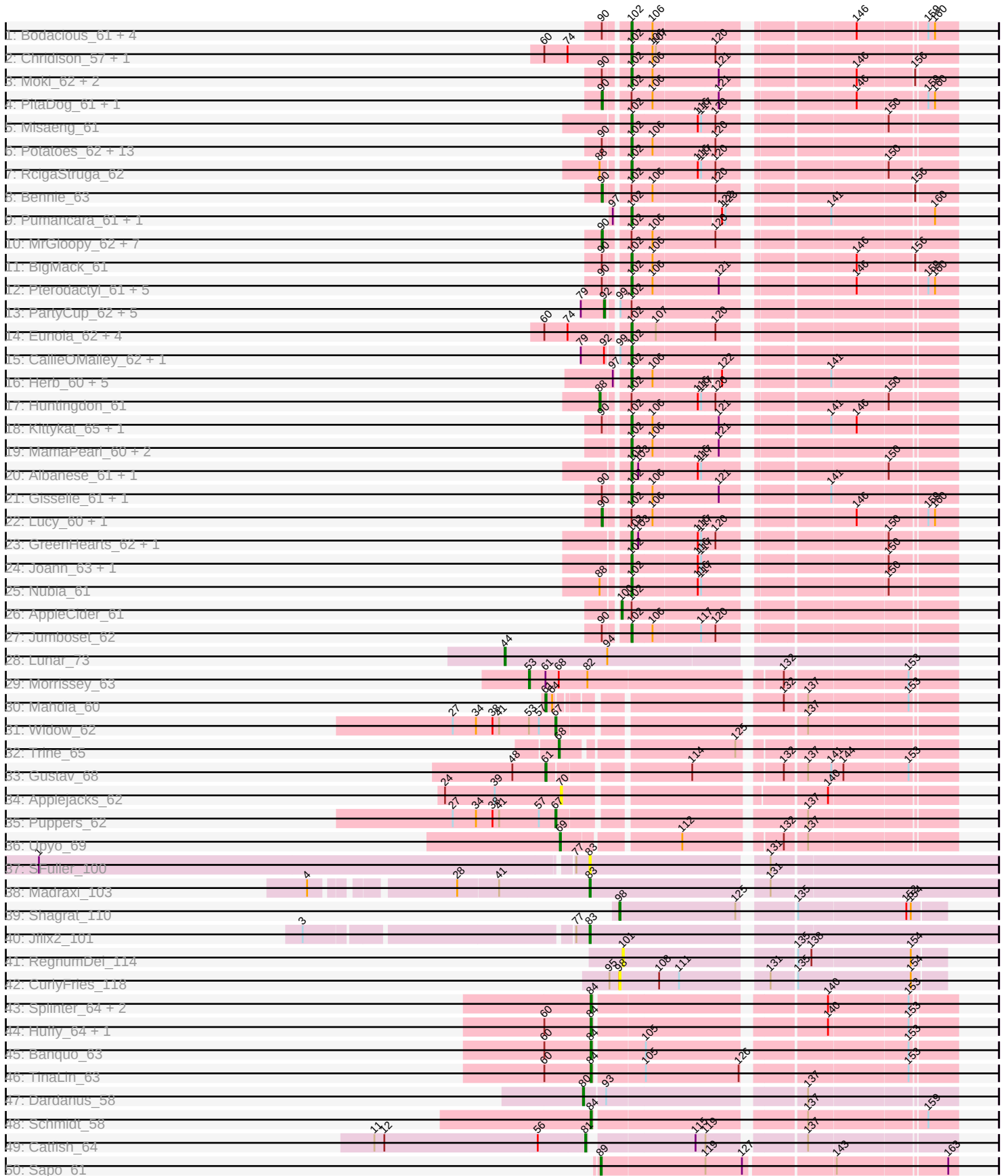
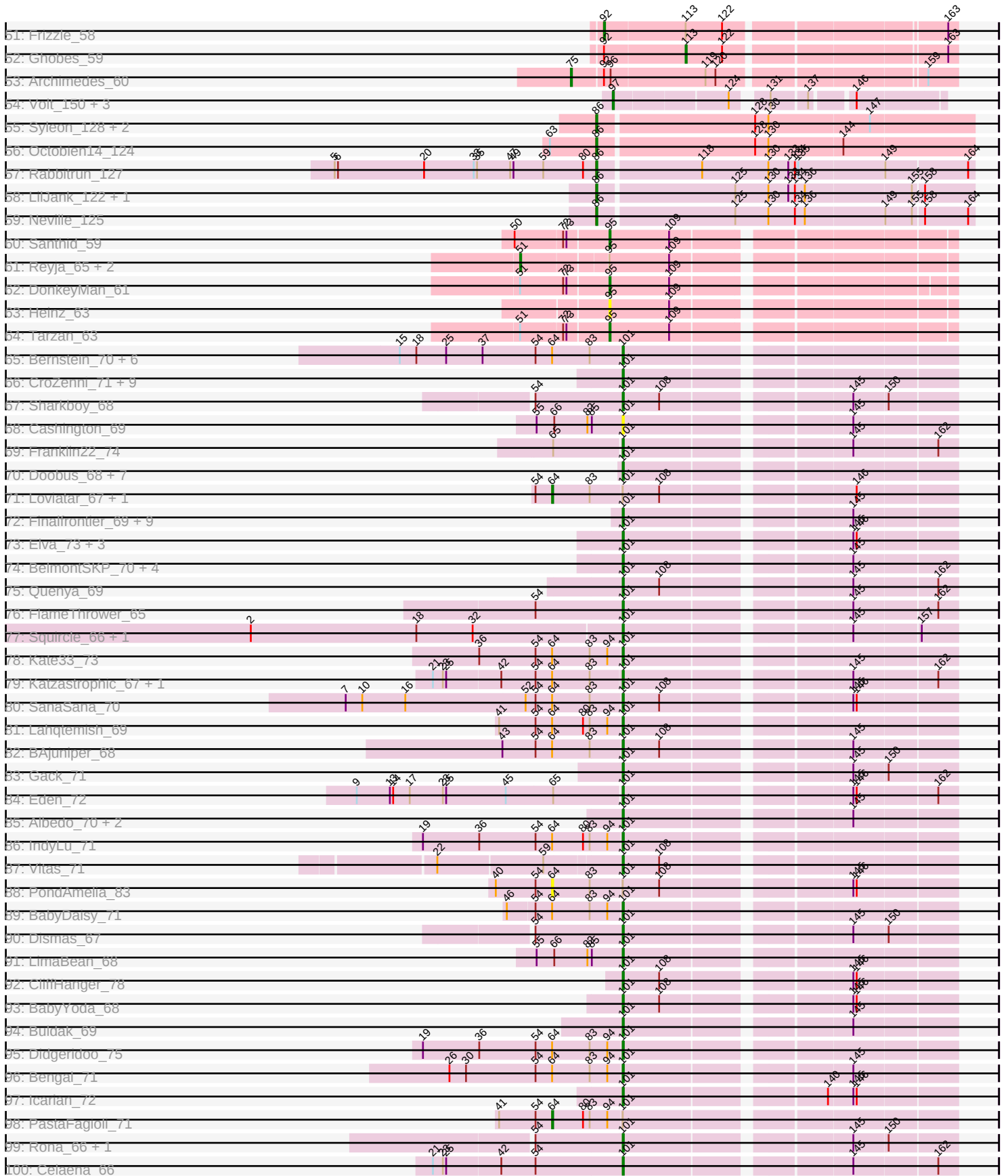


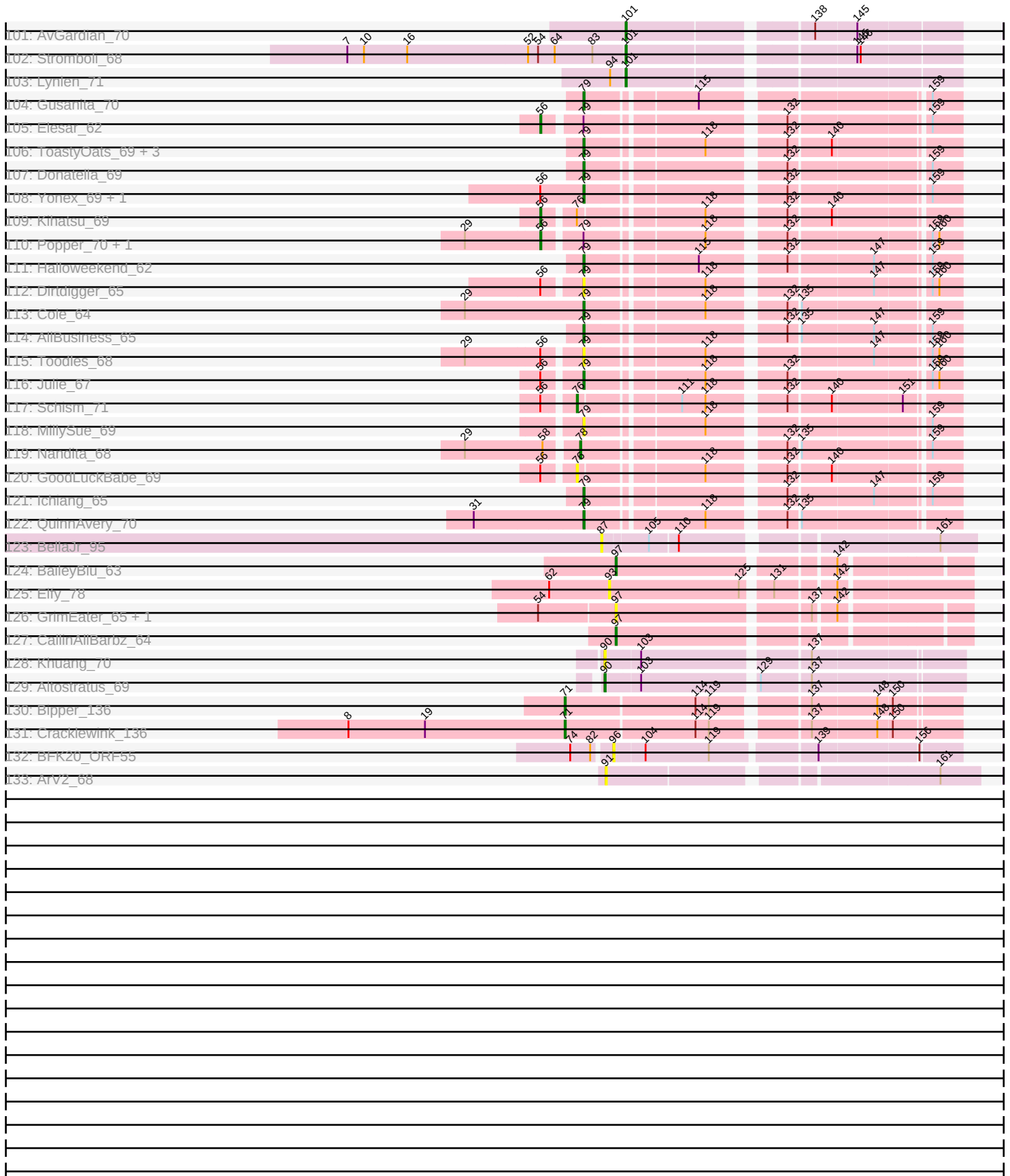
Pham 280062



Pham 280062



Pham 280062



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 280062 Report

This analysis was run 02/07/26 on database version 634.

Pham number 280062 has 251 members, 32 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 : PitaDog_61, Christian_61
- Track 5 : Misaeng_61
- Track 6 : Potatoes_62, Riverdale_61, BrotherBLo_62, Cholula_62, Beethoven_63, Savage2526_61, Carpal_61, Zorro_62, TattModd_61, Immaculata_62, Kalizoi_62, Korra_62, Rozby_60, Wawa_62
- Track 7 : RcigaStruga_62
- Track 8 : Bennie_63
- Track 9 : Pumancara_61, PinkFriday_61
- Track 10 : MrGloopy_62, Scuttle_61, RAP15_63, Glenn_64, Vallejo_62, Fluke_62, Dino_62, MeganNoll_63
- Track 11 : BigMack_61
- Track 12 : Pterodactyl_61, Makoto_60, Lennox_61, WonderBoy_59, ChewChew_61, OurGirlNessie_59
- Track 13 : PartyCup_62, Wayne_64, Suppi_62, Graynor_65, MrBoss_63, Canowicakte_62
- Track 14 : Eunoia_62, Aledel_60, AustinPowers_60, OMalley_60, Riovina_60
- Track 15 : CallieOMalley_62, Litotes_62
- Track 16 : Herb_60, Maria1952_59, Daiboju_60, Sergei_60, KingBob_60, Temper16_60
- Track 17 : Huntingdon_61
- Track 18 : Kittykat_65, Preamble_64
- Track 19 : MamaPearl_60, EstebanJulior_60, Urla_62
- Track 20 : Albanese_61, Greenhouse_61
- Track 21 : Gisselle_61, DreamTeam_61
- Track 22 : Lucy_60, DrRobert_59
- Track 23 : GreenHearts_62, Lakshmi_61
- Track 24 : Joann_63, Oxyfrieus_62
- Track 25 : Nubia_61
- Track 26 : AppleCider_61
- Track 27 : Jumboset_62
- Track 28 : Lunar_73
- Track 29 : Morrissey_63
- Track 30 : Mahdia_60
- Track 31 : Widow_62

- Track 32 : Trine_65
- Track 33 : Gustav_68
- Track 34 : Applejacks_62
- Track 35 : Puppies_62
- Track 36 : Upyo_69
- Track 37 : SFuller_100
- Track 38 : Madraxi_103
- Track 39 : Shagrat_110
- Track 40 : Jflix2_101
- Track 41 : RegnumDei_114
- Track 42 : CurlyFries_118
- Track 43 : Splinter_64, TZGordon_65, Vendetta_64
- Track 44 : Huffy_64, DinoDaryn_64
- Track 45 : Banquo_63
- Track 46 : TinaLin_63
- Track 47 : Dardanus_58
- Track 48 : Schmidt_58
- Track 49 : Catfish_64
- Track 50 : Sapo_61
- Track 51 : Frizzle_58
- Track 52 : Ghobes_59
- Track 53 : Archimedes_60
- Track 54 : Volt_150, Guey18_149, Fryberger_144, Ronaldo_147
- Track 55 : Syleon_128, Kudrefre_128, Sephiroth_123
- Track 56 : Octobien14_124
- Track 57 : Rabbitrun_127
- Track 58 : LilJank_122, Trax_126
- Track 59 : Neville_125
- Track 60 : Santhid_59
- Track 61 : Reyja_65, Hibiscus_63, Jojo24_63
- Track 62 : DonkeyMan_61
- Track 63 : Heinz_63
- Track 64 : Tarzan_63
- Track 65 : Bernstein_70, Brahms_70, Clayda5_72, Armstrong_70, Coltrane_70, Skylord_70, Rollins_70
- Track 66 : CroZenni_71, Jabb_71, MsUbiquitous_71, CupcakePrincess_71, QMacho_72, Johnathan_70, SarBear_72, Phisb_72, Burritobowl_72, Abigail_70
- Track 67 : Sharkboy_68
- Track 68 : Cashington_69
- Track 69 : Franklin22_74
- Track 70 : Doobus_68, Albright_69, Milomuff_73, Softsoap_71, BubbaBear_68, Solea_73, DickRichards_68, Avocadoman_69
- Track 71 : Loviatar_67, Akino08_66
- Track 72 : Finalfrontier_69, Eula_69, Lilo27_70, TukTuk_70, Pecas_70, Jovita_68, Nicky22_69, AylexOG_71, Swervy_70, Slay_70
- Track 73 : Elva_73, DirtyBubble_69, Stoor_69, WalkingDead_71
- Track 74 : BelmontSKP_70, PhigPhack_73, Arroyo_71, AnnaLie_70, SansAfet_72
- Track 75 : Quenya_69
- Track 76 : FlameThrower_65
- Track 77 : Squircl_66, Olliecat_66
- Track 78 : Kate33_73
- Track 79 : Katzastrophic_67, Bachaco_66
- Track 80 : SanaSana_70

- Track 81 : Lahqtemish_69
- Track 82 : BAjuniper_68
- Track 83 : Gack_71
- Track 84 : Eden_72
- Track 85 : Albedo_70, Kenzers_69, SirBeanington_70
- Track 86 : IndyLu_71
- Track 87 : Vitas_71
- Track 88 : PondAmelia_83
- Track 89 : BabyDaisy_71
- Track 90 : Dismas_67
- Track 91 : LimaBean_68
- Track 92 : CliffHanger_78
- Track 93 : BabyYoda_68
- Track 94 : Buldak_69
- Track 95 : Didgeridoo_75
- Track 96 : Bengal_71
- Track 97 : Icarian_72
- Track 98 : PastaFagioli_71
- Track 99 : Rona_66, Kieran_65
- Track 100 : Celaena_66
- Track 101 : AvGardian_70
- Track 102 : Stromboli_68
- Track 103 : Lynlen_71
- Track 104 : Gusanita_70
- Track 105 : Elesar_62
- Track 106 : ToastyOats_69, Lenoxika_66, Zaheer_69, Guinevere_71
- Track 107 : Donatella_69
- Track 108 : Yonex_69, Ryan_70
- Track 109 : Kihatsu_69
- Track 110 : Popper_70, IsHungry_64
- Track 111 : Halloweekend_62
- Track 112 : Dirtdigger_65
- Track 113 : Cole_64
- Track 114 : AllBusiness_65
- Track 115 : Toodles_68
- Track 116 : Julie_67
- Track 117 : Schism_71
- Track 118 : MillySue_69
- Track 119 : Nandita_68
- Track 120 : GoodLuckBabe_69
- Track 121 : Ichiang_65
- Track 122 : QuinnAvery_70
- Track 123 : BellaJr_95
- Track 124 : BaileyBlu_63
- Track 125 : Elfy_78
- Track 126 : GrimEater_65, Jankie_67
- Track 127 : CallinAllBarbz_64
- Track 128 : Khuang_70
- Track 129 : Altostratus_69
- Track 130 : Bipper_136
- Track 131 : Cracklewink_136
- Track 132 : BFK20_ORF55
- Track 133 : ArV2_68

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

The start number called the most often in the published annotations is 101, it was called in 70 of the 219 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_73, 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, SirBeanington_70, Skylord_70, Slay_70, Softsoap_71, Solea_73, Squircle_66, Stoor_69, Stromboli_68, Swervy_70, 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:

- Albanese_61, Aledel_60, AllBusiness_65, Altostratus_69, AppleCider_61, Applejacks_62, ArV2_68, Archimedes_60, AustinPowers_60, BFK20_ORF55, BaileyBlu_63, Banquo_63, Beethoven_63, BellaJr_95, Bennie_63, BigMack_61, Bipper_136, Bodacious_61, BrotherBLo_62, CallieOMalley_62, CallinAllBarbz_64, Canowicakte_62, Carpal_61, Catfish_64, ChewChew_61, Cholula_62, Chridison_57, Christian_61, Cole_64, Cracklewink_136, CristinaYang_61, CurlyFries_118, Daiboju_60, Dardanus_58, DinoDaryn_64, Dino_62, Dirdigger_65, Donatella_69, DonkeyMan_61, DrRobert_59, DreamTeam_61, Elesar_62, Elfy_78, EstebanJulior_60, Eunoia_62, Fluke_62, Frizzle_58, Fryberger_144, Ghobes_59, Gisselle_61, Glenn_64, GoodLuckBabe_69, Graynor_65, GreenHearts_62, Greenhouse_61, GrimEater_65, Guey18_149, Guinevere_71, Gusanita_70, Gustav_68, Halloweenweekend_62, HeadNerd_62, Heinz_63, Herb_60, Hibiscus_63, Huckleberry_62, Huffy_64, Huntingdon_61, Ichiang_65, Immaculata_62, IsHungry_64, Jankie_67, Jflix2_101, Joann_63, Jojo24_63, Julie_67, Jumboset_62, Kalizoi_62, Khuang_70, Kihatsu_69, KingBob_60, Kittykat_65, Korra_62, Kudrefre_128, Lakshmi_61, Lasagna_59, Lennox_61, Lenoxika_66, LilJank_122, LilStuart_60, Litotes_62, Lucy_60, Lunar_73, Madraxi_103, Mahdia_60, Makoto_60, MamaPearl_60, Maria1952_59, MeganNoll_63, MillySue_69, Misaeng_61, Moki_62, Morrissey_63, MrBoss_63, MrGloopy_62, Nancia_61, Nandita_68, Neville_125, Nubia_61, OMalley_60, Octobien14_124, OurGirlNessie_59, Oxynfrius_62, PartyCup_62, PinkFriday_61, PitaDog_61, Popper_70, Potatoes_62, Preamble_64, Pterodactyl_61, Pumancara_61, Puppies_62, QuinnAvery_70, RAP15_63, Rabbitrun_127, RcigaStruga_62, Reyja_65, Riovina_60, Riverdale_61, Ronaldo_147, Rozby_60, Ryan_70, SFuller_100, Santhid_59, Sapo_61, Savage2526_61,

Schism_71, Schmidt_58, Scuttle_61, Sephiroth_123, Sergei_60, Shagrat_110, Splinter_64, Supakev_60, Suppi_62, Syleon_128, TZGordon_65, Tarzan_63, TattModd_61, Temper16_60, TinaLin_63, ToastyOats_69, Toodles_68, Trax_126, Trine_65, Upyo_69, Urla_62, Vallejo_62, Vendetta_64, Volt_150, Wawa_62, Wayne_64, Widow_62, WonderBoy_59, Yonex_69, Zaheer_69, Zorro_62,

Summary by start number:

Start 44:

- Found in 1 of 251 (0.4%) of genes in pham
- Manual Annotations of this start: 1 of 219
- Called 100.0% of time when present
- Phage (with cluster) where this start called: Lunar_73 (AS2),

Start 51:

- Found in 5 of 251 (2.0%) of genes in pham
- Manual Annotations of this start: 3 of 219
- Called 60.0% of time when present
- Phage (with cluster) where this start called: Hibiscus_63 (DY), Jojo24_63 (DY), Reyja_65 (DY),

Start 53:

- Found in 2 of 251 (0.8%) of genes in pham
- Manual Annotations of this start: 1 of 219
- Called 50.0% of time when present
- Phage (with cluster) where this start called: Morrissey_63 (CD),

Start 56:

- Found in 12 of 251 (4.8%) of genes in pham
- Manual Annotations of this start: 4 of 219
- 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 61:

- Found in 3 of 251 (1.2%) of genes in pham
- Manual Annotations of this start: 2 of 219
- Called 66.7% of time when present
- Phage (with cluster) where this start called: Gustav_68 (CD), Mahdia_60 (CD),

Start 64:

- Found in 23 of 251 (9.2%) of genes in pham
- Manual Annotations of this start: 3 of 219
- Called 17.4% of time when present
- Phage (with cluster) where this start called: Akino08_66 (EB), Loviatar_67 (EB), PastaFagioli_71 (EB), PondAmelia_83 (EB),

Start 67:

- Found in 2 of 251 (0.8%) of genes in pham
- Manual Annotations of this start: 2 of 219
- Called 100.0% of time when present
- Phage (with cluster) where this start called: Puppies_62 (CD), Widow_62 (CD),

Start 68:

- Found in 2 of 251 (0.8%) of genes in pham
- Manual Annotations of this start: 1 of 219
- Called 50.0% of time when present
- Phage (with cluster) where this start called: Trine_65 (CD),

Start 69:

- Found in 1 of 251 (0.4%) of genes in pham
- Manual Annotations of this start: 1 of 219
- Called 100.0% of time when present
- Phage (with cluster) where this start called: Upyo_69 (CD),

Start 70:

- Found in 1 of 251 (0.4%) of genes in pham
- No Manual Annotations of this start.
- Called 100.0% of time when present
- Phage (with cluster) where this start called: Applejacks_62 (CD),

Start 71:

- Found in 2 of 251 (0.8%) of genes in pham
- Manual Annotations of this start: 2 of 219
- Called 100.0% of time when present
- Phage (with cluster) where this start called: Bipper_136 (Y), Cracklewink_136 (Y),

Start 75:

- Found in 1 of 251 (0.4%) of genes in pham
- Manual Annotations of this start: 1 of 219
- Called 100.0% of time when present
- Phage (with cluster) where this start called: Archimedes_60 (DA),

Start 76:

- Found in 3 of 251 (1.2%) of genes in pham
- Manual Annotations of this start: 1 of 219
- Called 66.7% of time when present
- Phage (with cluster) where this start called: GoodLuckBabe_69 (FF), Schism_71 (FF),

Start 78:

- Found in 1 of 251 (0.4%) of genes in pham
- Manual Annotations of this start: 1 of 219
- Called 100.0% of time when present
- Phage (with cluster) where this start called: Nandita_68 (FF),

Start 79:

- Found in 28 of 251 (11.2%) of genes in pham
- Manual Annotations of this start: 11 of 219
- 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 80:

- Found in 5 of 251 (2.0%) of genes in pham
- Manual Annotations of this start: 1 of 219
- Called 20.0% of time when present
- Phage (with cluster) where this start called: Dardanus_58 (CU3),

Start 81:

- Found in 1 of 251 (0.4%) of genes in pham
- Manual Annotations of this start: 1 of 219
- Called 100.0% of time when present
- Phage (with cluster) where this start called: Catfish_64 (CU5),

Start 83:

- Found in 25 of 251 (10.0%) of genes in pham
- Manual Annotations of this start: 2 of 219
- Called 12.0% of time when present
- Phage (with cluster) where this start called: JfliX2_101 (CF), Madraxi_103 (CF), SFuller_100 (CF),

Start 84:

- Found in 8 of 251 (3.2%) of genes in pham
- Manual Annotations of this start: 8 of 219
- 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 86:

- Found in 8 of 251 (3.2%) of genes in pham
- Manual Annotations of this start: 7 of 219
- Called 100.0% of time when present
- Phage (with cluster) where this start called: Kudrefre_128 (DU1), LilJank_122 (DU2), Neville_125 (DU2), Octobien14_124 (DU1), Rabbitrün_127 (DU2), Sephiroth_123 (DU1), Syleon_128 (DU1), Trax_126 (DU2),

Start 87:

- Found in 1 of 251 (0.4%) 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 88:

- Found in 3 of 251 (1.2%) of genes in pham
- Manual Annotations of this start: 1 of 219
- Called 33.3% of time when present
- Phage (with cluster) where this start called: Huntingdon_61 (AK),

Start 89:

- Found in 1 of 251 (0.4%) of genes in pham
- Manual Annotations of this start: 1 of 219
- Called 100.0% of time when present
- Phage (with cluster) where this start called: Sapo_61 (DA),

Start 90:

- Found in 49 of 251 (19.5%) of genes in pham
- Manual Annotations of this start: 14 of 219
- Called 30.6% of time when present
- Phage (with cluster) where this start called: Altostratus_69 (FS), Bennie_63 (AK), Christian_61 (AK), Dino_62 (AK), DrRobert_59 (AK), Fluke_62 (AK), Glenn_64 (AK), Khuang_70 (FS), Lucy_60 (AK), MeganNoll_63 (AK), MrGloopy_62 (AK), PitaDog_61 (AK), RAP15_63 (AK), Scuttle_61 (AK), Vallejo_62 (AK),

Start 91:

- Found in 1 of 251 (0.4%) of genes in pham
- No Manual Annotations of this start.
- Called 100.0% of time when present
- Phage (with cluster) where this start called: ArV2_68 (singleton),

Start 92:

- Found in 11 of 251 (4.4%) of genes in pham
- Manual Annotations of this start: 5 of 219
- Called 63.6% of time when present
- Phage (with cluster) where this start called: Canowicakte_62 (AK), Frizzle_58 (DA), Graynor_65 (AK), MrBoss_63 (AK), PartyCup_62 (AK), Suppi_62 (AK), Wayne_64 (AK),

Start 93:

- Found in 2 of 251 (0.8%) of genes in pham
- No Manual Annotations of this start.
- Called 50.0% of time when present
- Phage (with cluster) where this start called: Elfy_78 (FP),

Start 95:

- Found in 8 of 251 (3.2%) of genes in pham
- Manual Annotations of this start: 3 of 219
- Called 50.0% of time when present
- Phage (with cluster) where this start called: DonkeyMan_61 (DY), Heinz_63 (DY), Santhid_59 (DY), Tarzan_63 (DY),

Start 96:

- Found in 2 of 251 (0.8%) 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 97:

- Found in 16 of 251 (6.4%) of genes in pham
- Manual Annotations of this start: 6 of 219
- Called 50.0% of time when present
- Phage (with cluster) where this start called: BaileyBlu_63 (FP), CallinAllBarbz_64 (FP), Fryberger_144 (DP), GrimEater_65 (FP), Guey18_149 (DP), Jankie_67 (FP), Ronaldo_147 (DP), Volt_150 (DP),

Start 98:

- Found in 2 of 251 (0.8%) of genes in pham
- Manual Annotations of this start: 1 of 219

- Called 100.0% of time when present
- Phage (with cluster) where this start called: CurlyFries_118 (CF), Shagrat_110 (CF),

Start 100:

- Found in 1 of 251 (0.4%) of genes in pham
- Manual Annotations of this start: 1 of 219
- Called 100.0% of time when present
- Phage (with cluster) where this start called: AppleCider_61 (AK),

Start 101:

- Found in 84 of 251 (33.5%) of genes in pham
- Manual Annotations of this start: 70 of 219
- Called 95.2% 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_73 (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), SirBeanington_70 (EB), Skylord_70 (EB), Slay_70 (EB), Softsoap_71 (EB), Solea_73 (EB), Squircle_66 (EB), Stoor_69 (EB), Stromboli_68 (EB), Swervy_70 (EB), TukTuk_70 (EB), Vitas_71 (EB), WalkingDead_71 (EB),

Start 102:

- Found in 84 of 251 (33.5%) of genes in pham
- Manual Annotations of this start: 63 of 219
- Called 75.0% of time when present
- Phage (with cluster) where this start called: Albanese_61 (AK), Aledele_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), Oxyfnrius_62 (AK), PinkFriday_61 (AK), Potatoes_62 (AK), Preamble_64 (AK), Pterodactyl_61 (AK), Pumancara_61 (AK), RcigaStruga_62 (AK), Rivovina_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 113:

- Found in 2 of 251 (0.8%) of genes in pham
- Manual Annotations of this start: 1 of 219
- Called 50.0% of time when present
- Phage (with cluster) where this start called: Ghobes_59 (DA),

Summary by clusters:

There are 20 clusters represented in this pham: FP, AS2, CU5, FS, DA, CU1, AK, CU3, CF, EB, CU4, DP, FF, DY, Y, DU1, DU2, CD, singleton, FN,

Info for manual annotations of cluster AK:

- Start number 88 was manually annotated 1 time for cluster AK.
- Start number 90 was manually annotated 13 times for cluster AK.
- Start number 92 was manually annotated 4 times for cluster AK.
- Start number 100 was manually annotated 1 time for cluster AK.
- Start number 102 was manually annotated 63 times for cluster AK.

Info for manual annotations of cluster AS2:

- Start number 44 was manually annotated 1 time for cluster AS2.

Info for manual annotations of cluster CD:

- Start number 53 was manually annotated 1 time for cluster CD.
- Start number 61 was manually annotated 2 times for cluster CD.
- Start number 67 was manually annotated 2 times for cluster CD.
- Start number 68 was manually annotated 1 time for cluster CD.
- Start number 69 was manually annotated 1 time for cluster CD.

Info for manual annotations of cluster CF:

- Start number 83 was manually annotated 2 times for cluster CF.
- Start number 98 was manually annotated 1 time for cluster CF.

Info for manual annotations of cluster CU1:

- Start number 84 was manually annotated 7 times for cluster CU1.

Info for manual annotations of cluster CU3:

- Start number 80 was manually annotated 1 time for cluster CU3.

Info for manual annotations of cluster CU4:

- Start number 84 was manually annotated 1 time for cluster CU4.

Info for manual annotations of cluster CU5:

- Start number 81 was manually annotated 1 time for cluster CU5.

Info for manual annotations of cluster DA:

- Start number 75 was manually annotated 1 time for cluster DA.
- Start number 89 was manually annotated 1 time for cluster DA.
- Start number 92 was manually annotated 1 time for cluster DA.
- Start number 113 was manually annotated 1 time for cluster DA.

Info for manual annotations of cluster DP:

- Start number 97 was manually annotated 4 times for cluster DP.

Info for manual annotations of cluster DU1:

- Start number 86 was manually annotated 4 times for cluster DU1.

Info for manual annotations of cluster DU2:

- Start number 86 was manually annotated 3 times for cluster DU2.

Info for manual annotations of cluster DY:

- Start number 51 was manually annotated 3 times for cluster DY.
- Start number 95 was manually annotated 3 times for cluster DY.

Info for manual annotations of cluster EB:

- Start number 64 was manually annotated 3 times for cluster EB.
- Start number 101 was manually annotated 70 times for cluster EB.

Info for manual annotations of cluster FF:

- Start number 56 was manually annotated 4 times for cluster FF.
- Start number 76 was manually annotated 1 time for cluster FF.
- Start number 78 was manually annotated 1 time for cluster FF.
- Start number 79 was manually annotated 11 times for cluster FF.

Info for manual annotations of cluster FP:

- Start number 97 was manually annotated 2 times for cluster FP.

Info for manual annotations of cluster FS:

- Start number 90 was manually annotated 1 time for cluster FS.

Info for manual annotations of cluster Y:

- Start number 71 was manually annotated 2 times for cluster Y.

Gene Information:

Gene: Abigail_70 Start: 40540, Stop: 40815, Start Num: 101

Candidate Starts for Abigail_70:

(Start: 101 @40540 has 70 MA's),

Gene: Akino08_66 Start: 42028, Stop: 42363, Start Num: 64

Candidate Starts for Akino08_66:

(54, 42013), (Start: 64 @42028 has 3 MA's), (Start: 83 @42061 has 2 MA's), (Start: 101 @42088 has 70 MA's), (108, 42121), (146, 42277),

Gene: Albanese_61 Start: 43774, Stop: 44034, Start Num: 102

Candidate Starts for Albanese_61:

(Start: 102 @43774 has 63 MA's), (103, 43780), (116, 43831), (117, 43834), (150, 43978),

Gene: Albedo_70 Start: 41350, Stop: 41625, Start Num: 101

Candidate Starts for Albedo_70:

(Start: 101 @41350 has 70 MA's), (145, 41536),

Gene: Albright_69 Start: 40420, Stop: 40695, Start Num: 101

Candidate Starts for Albright_69:

(Start: 101 @40420 has 70 MA's),

Gene: Aledel_60 Start: 43400, Stop: 43660, Start Num: 102

Candidate Starts for Aledel_60:

(60, 43331), (74, 43352), (Start: 102 @43400 has 63 MA's), (107, 43421), (120, 43472),

Gene: AllBusiness_65 Start: 43063, Stop: 43359, Start Num: 79

Candidate Starts for AllBusiness_65:

(Start: 79 @43063 has 11 MA's), (132, 43219), (135, 43228), (147, 43291), (159, 43333),

Gene: Altostratus_69 Start: 38971, Stop: 39267, Start Num: 90

Candidate Starts for Altostratus_69:

(Start: 90 @38971 has 14 MA's), (103, 39001), (129, 39097), (137, 39139),

Gene: AnnaLie_70 Start: 41202, Stop: 41477, Start Num: 101

Candidate Starts for AnnaLie_70:

(Start: 101 @41202 has 70 MA's), (145, 41388),

Gene: AppleCider_61 Start: 43353, Stop: 43619, Start Num: 100

Candidate Starts for AppleCider_61:

(Start: 100 @43353 has 1 MA's), (Start: 102 @43359 has 63 MA's),

Gene: Applejacks_62 Start: 41851, Stop: 42168, Start Num: 70

Candidate Starts for Applejacks_62:

(24, 41746), (39, 41791), (70, 41851), (140, 42061),

Gene: ArV2_68 Start: 37011, Stop: 37319, Start Num: 91

Candidate Starts for ArV2_68:

(91, 37011), (161, 37284),

Gene: Archimedes_60 Start: 44555, Stop: 44878, Start Num: 75

Candidate Starts for Archimedes_60:

(Start: 75 @44555 has 1 MA's), (Start: 92 @44582 has 5 MA's), (96, 44588), (119, 44672), (120, 44681), (159, 44852),

Gene: Armstrong_70 Start: 39580, Stop: 39855, Start Num: 101

Candidate Starts for Armstrong_70:

(15, 39382), (18, 39397), (25, 39424), (37, 39457), (54, 39505), (Start: 64 @39520 has 3 MA's), (Start: 83 @39553 has 2 MA's), (Start: 101 @39580 has 70 MA's),

Gene: Arroyo_71 Start: 41666, Stop: 41941, Start Num: 101

Candidate Starts for Arroyo_71:

(Start: 101 @41666 has 70 MA's), (145, 41852),

Gene: AustinPowers_60 Start: 43422, Stop: 43682, Start Num: 102

Candidate Starts for AustinPowers_60:

(60, 43353), (74, 43374), (Start: 102 @43422 has 63 MA's), (107, 43443), (120, 43494),

Gene: AvGardian_70 Start: 41184, Stop: 41459, Start Num: 101

Candidate Starts for AvGardian_70:

(Start: 101 @41184 has 70 MA's), (138, 41334), (145, 41370),

Gene: Avocadoman_69 Start: 40737, Stop: 41012, Start Num: 101

Candidate Starts for Avocadoman_69:

(Start: 101 @40737 has 70 MA's),

Gene: AylexOG_71 Start: 41421, Stop: 41696, Start Num: 101

Candidate Starts for AylexOG_71:

(Start: 101 @41421 has 70 MA's), (145, 41607),

Gene: BAjuniper_68 Start: 41633, Stop: 41908, Start Num: 101

Candidate Starts for BAjuniper_68:

(43, 41528), (54, 41558), (Start: 64 @41573 has 3 MA's), (Start: 83 @41606 has 2 MA's), (Start: 101 @41633 has 70 MA's), (108, 41666), (145, 41819),

Gene: BFK20_ORF55 Start: 42590, Stop: 42880, Start Num: 96

Candidate Starts for BFK20_ORF55:

(74, 42557), (82, 42575), (96, 42590), (104, 42617), (119, 42674), (139, 42761), (156, 42845),

Gene: BabyDaisy_71 Start: 41763, Stop: 42038, Start Num: 101

Candidate Starts for BabyDaisy_71:

(46, 41664), (54, 41688), (Start: 64 @41703 has 3 MA's), (Start: 83 @41736 has 2 MA's), (94, 41751), (Start: 101 @41763 has 70 MA's),

Gene: BabyYoda_68 Start: 41093, Stop: 41368, Start Num: 101

Candidate Starts for BabyYoda_68:

(Start: 101 @41093 has 70 MA's), (108, 41126), (145, 41279), (146, 41282),

Gene: Bachaco_66 Start: 42043, Stop: 42318, Start Num: 101

Candidate Starts for Bachaco_66:

(21, 41878), (23, 41887), (25, 41890), (42, 41938), (54, 41968), (Start: 64 @41983 has 3 MA's), (Start: 83 @42016 has 2 MA's), (Start: 101 @42043 has 70 MA's), (145, 42229), (162, 42301),

Gene: BaileyBlu_63 Start: 40002, Stop: 40289, Start Num: 97

Candidate Starts for BaileyBlu_63:

(Start: 97 @40002 has 6 MA's), (142, 40182),

Gene: Banquo_63 Start: 39126, Stop: 39422, Start Num: 84

Candidate Starts for Banquo_63:

(60, 39084), (Start: 84 @39126 has 8 MA's), (105, 39168), (153, 39384),

Gene: Beethoven_63 Start: 43598, Stop: 43858, Start Num: 102

Candidate Starts for Beethoven_63:

(Start: 90 @43580 has 14 MA's), (Start: 102 @43598 has 63 MA's), (106, 43616), (120, 43670),

Gene: BellaJr_95 Start: 51784, Stop: 52089, Start Num: 87

Candidate Starts for BellaJr_95:

(87, 51784), (105, 51823), (110, 51847), (161, 52057),

Gene: BelmontSKP_70 Start: 41202, Stop: 41477, Start Num: 101

Candidate Starts for BelmontSKP_70:

(Start: 101 @41202 has 70 MA's), (145, 41388),

Gene: Bengal_71 Start: 41208, Stop: 41483, Start Num: 101

Candidate Starts for Bengal_71:

(26, 41055), (30, 41070), (54, 41133), (Start: 64 @41148 has 3 MA's), (Start: 83 @41181 has 2 MA's), (94, 41196), (Start: 101 @41208 has 70 MA's), (145, 41394),

Gene: Bennie_63 Start: 42720, Stop: 42998, Start Num: 90

Candidate Starts for Bennie_63:

(Start: 90 @42720 has 14 MA's), (Start: 102 @42738 has 63 MA's), (106, 42756), (120, 42810), (156, 42963),

Gene: Bernstein_70 Start: 39578, Stop: 39853, Start Num: 101

Candidate Starts for Bernstein_70:

(15, 39380), (18, 39395), (25, 39422), (37, 39455), (54, 39503), (Start: 64 @39518 has 3 MA's), (Start: 83 @39551 has 2 MA's), (Start: 101 @39578 has 70 MA's),

Gene: BigMack_61 Start: 43021, Stop: 43281, Start Num: 102

Candidate Starts for BigMack_61:

(Start: 90 @43003 has 14 MA's), (Start: 102 @43021 has 63 MA's), (106, 43039), (146, 43198), (156, 43246),

Gene: Bipper_136 Start: 77103, Stop: 77429, Start Num: 71

Candidate Starts for Bipper_136:

(Start: 71 @77103 has 2 MA's), (114, 77217), (119, 77229), (137, 77304), (148, 77361), (150, 77373),

Gene: Bodacious_61 Start: 42903, Stop: 43163, Start Num: 102

Candidate Starts for Bodacious_61:

(Start: 90 @42885 has 14 MA's), (Start: 102 @42903 has 63 MA's), (106, 42921), (146, 43080), (159, 43137), (160, 43143),

Gene: Brahms_70 Start: 39480, Stop: 39755, Start Num: 101

Candidate Starts for Brahms_70:

(15, 39282), (18, 39297), (25, 39324), (37, 39357), (54, 39405), (Start: 64 @39420 has 3 MA's), (Start: 83 @39453 has 2 MA's), (Start: 101 @39480 has 70 MA's),

Gene: BrotherBLo_62 Start: 43314, Stop: 43574, Start Num: 102

Candidate Starts for BrotherBLo_62:

(Start: 90 @43296 has 14 MA's), (Start: 102 @43314 has 63 MA's), (106, 43332), (120, 43386),

Gene: BubbaBear_68 Start: 41351, Stop: 41626, Start Num: 101

Candidate Starts for BubbaBear_68:

(Start: 101 @41351 has 70 MA's),

Gene: Buldak_69 Start: 39158, Stop: 39433, Start Num: 101

Candidate Starts for Buldak_69:

(Start: 101 @39158 has 70 MA's), (145, 39344),

Gene: Burritobowl_72 Start: 40954, Stop: 41229, Start Num: 101

Candidate Starts for Burritobowl_72:

(Start: 101 @40954 has 70 MA's),

Gene: CallieOMalley_62 Start: 43522, Stop: 43782, Start Num: 102

Candidate Starts for CallieOMalley_62:

(Start: 79 @43489 has 11 MA's), (Start: 92 @43510 has 5 MA's), (99, 43516), (Start: 102 @43522 has 63 MA's),

Gene: CallinAllBarbz_64 Start: 40753, Stop: 41040, Start Num: 97

Candidate Starts for CallinAllBarbz_64:

(Start: 97 @40753 has 6 MA's),

Gene: Canowicakte_62 Start: 43562, Stop: 43834, Start Num: 92

Candidate Starts for Canowicakte_62:

(Start: 79 @43541 has 11 MA's), (Start: 92 @43562 has 5 MA's), (99, 43568), (Start: 102 @43574 has 63 MA's),

Gene: Carpal_61 Start: 43369, Stop: 43629, Start Num: 102

Candidate Starts for Carpal_61:

(Start: 90 @43351 has 14 MA's), (Start: 102 @43369 has 63 MA's), (106, 43387), (120, 43441),

Gene: Cashington_69 Start: 41137, Stop: 41412, Start Num: 101

Candidate Starts for Cashington_69:

(55, 41062), (66, 41077), (82, 41107), (85, 41110), (Start: 101 @41137 has 70 MA's), (145, 41323),

Gene: Catfish_64 Start: 41148, Stop: 41444, Start Num: 81

Candidate Starts for Catfish_64:

(11, 40959), (12, 40968), (Start: 56 @41106 has 4 MA's), (Start: 81 @41148 has 1 MA's), (115, 41235), (119, 41244), (137, 41319),

Gene: Celaena_66 Start: 41809, Stop: 42084, Start Num: 101

Candidate Starts for Celaena_66:

(21, 41641), (23, 41650), (25, 41653), (42, 41701), (54, 41731), (Start: 101 @41809 has 70 MA's), (145, 41995), (162, 42067),

Gene: ChewChew_61 Start: 43103, Stop: 43363, Start Num: 102

Candidate Starts for ChewChew_61:

(Start: 90 @43085 has 14 MA's), (Start: 102 @43103 has 63 MA's), (106, 43121), (121, 43178), (146, 43280), (159, 43337), (160, 43343),

Gene: Cholula_62 Start: 43324, Stop: 43584, Start Num: 102

Candidate Starts for Cholula_62:

(Start: 90 @43306 has 14 MA's), (Start: 102 @43324 has 63 MA's), (106, 43342), (120, 43396),

Gene: Chridison_57 Start: 42676, Stop: 42936, Start Num: 102

Candidate Starts for Chridison_57:

(60, 42607), (74, 42628), (Start: 102 @42676 has 63 MA's), (106, 42694), (107, 42697), (120, 42748),

Gene: Christian_61 Start: 42727, Stop: 43005, Start Num: 90

Candidate Starts for Christian_61:

(Start: 90 @42727 has 14 MA's), (Start: 102 @42745 has 63 MA's), (106, 42763), (121, 42820), (146, 42922), (159, 42979), (160, 42985),

Gene: Clayda5_72 Start: 39546, Stop: 39821, Start Num: 101

Candidate Starts for Clayda5_72:

(15, 39348), (18, 39363), (25, 39390), (37, 39423), (54, 39471), (Start: 64 @39486 has 3 MA's), (Start: 83 @39519 has 2 MA's), (Start: 101 @39546 has 70 MA's),

Gene: CliffHanger_78 Start: 40817, Stop: 41092, Start Num: 101

Candidate Starts for CliffHanger_78:

(Start: 101 @40817 has 70 MA's), (108, 40850), (145, 41003), (146, 41006),

Gene: Cole_64 Start: 41483, Stop: 41779, Start Num: 79

Candidate Starts for Cole_64:

(29, 41378), (Start: 79 @41483 has 11 MA's), (118, 41579), (132, 41639), (135, 41648),

Gene: Coltrane_70 Start: 39480, Stop: 39755, Start Num: 101

Candidate Starts for Coltrane_70:

(15, 39282), (18, 39297), (25, 39324), (37, 39357), (54, 39405), (Start: 64 @39420 has 3 MA's), (Start: 83 @39453 has 2 MA's), (Start: 101 @39480 has 70 MA's),

Gene: Cracklewink_136 Start: 76262, Stop: 76588, Start Num: 71

Candidate Starts for Cracklewink_136:

(8, 76067), (19, 76136), (Start: 71 @76262 has 2 MA's), (114, 76376), (119, 76388), (137, 76463), (148, 76520), (150, 76532),

Gene: CristinaYang_61 Start: 43030, Stop: 43290, Start Num: 102

Candidate Starts for CristinaYang_61:

(Start: 90 @43012 has 14 MA's), (Start: 102 @43030 has 63 MA's), (106, 43048), (146, 43207), (159, 43264), (160, 43270),

Gene: CroZenni_71 Start: 41008, Stop: 41283, Start Num: 101

Candidate Starts for CroZenni_71:

(Start: 101 @41008 has 70 MA's),

Gene: CupcakePrincess_71 Start: 41251, Stop: 41526, Start Num: 101

Candidate Starts for CupcakePrincess_71:

(Start: 101 @41251 has 70 MA's),

Gene: CurlyFries_118 Start: 57838, Stop: 58110, Start Num: 98

Candidate Starts for CurlyFries_118:

(Start: 95 @57829 has 3 MA's), (Start: 98 @57838 has 1 MA's), (108, 57874), (111, 57892), (131, 57961), (135, 57982), (154, 58081),

Gene: Daiboju_60 Start: 43614, Stop: 43871, Start Num: 102

Candidate Starts for Daiboju_60:

(Start: 97 @43605 has 6 MA's), (Start: 102 @43614 has 63 MA's), (106, 43632), (122, 43689), (141, 43767),

Gene: Dardanus_58 Start: 37373, Stop: 37678, Start Num: 80

Candidate Starts for Dardanus_58:

(Start: 80 @37373 has 1 MA's), (93, 37391), (137, 37553),

Gene: DickRichards_68 Start: 40877, Stop: 41152, Start Num: 101

Candidate Starts for DickRichards_68:

(Start: 101 @40877 has 70 MA's),

Gene: Didgeridoo_75 Start: 42192, Stop: 42467, Start Num: 101

Candidate Starts for Didgeridoo_75:

(19, 42015), (36, 42066), (54, 42117), (Start: 64 @42132 has 3 MA's), (Start: 83 @42165 has 2 MA's), (94, 42180), (Start: 101 @42192 has 70 MA's),

Gene: Dino_62 Start: 43208, Stop: 43486, Start Num: 90

Candidate Starts for Dino_62:

(Start: 90 @43208 has 14 MA's), (Start: 102 @43226 has 63 MA's), (106, 43244), (120, 43298),

Gene: DinoDaryn_64 Start: 39227, Stop: 39523, Start Num: 84

Candidate Starts for DinoDaryn_64:

(60, 39185), (Start: 84 @39227 has 8 MA's), (140, 39416), (153, 39485),

Gene: Dirdigger_65 Start: 41774, Stop: 42070, Start Num: 79

Candidate Starts for Dirdigger_65:

(Start: 56 @41744 has 4 MA's), (Start: 79 @41774 has 11 MA's), (118, 41870), (147, 42002), (159, 42044), (160, 42050),

Gene: DirtyBubble_69 Start: 41228, Stop: 41503, Start Num: 101

Candidate Starts for DirtyBubble_69:

(Start: 101 @41228 has 70 MA's), (145, 41414), (146, 41417),

Gene: Dismas_67 Start: 41256, Stop: 41531, Start Num: 101

Candidate Starts for Dismas_67:

(54, 41181), (Start: 101 @41256 has 70 MA's), (145, 41442), (150, 41472),

Gene: Donatella_69 Start: 42522, Stop: 42818, Start Num: 79

Candidate Starts for Donatella_69:

(Start: 79 @42522 has 11 MA's), (132, 42678), (159, 42792),

Gene: DonkeyMan_61 Start: 39766, Stop: 40047, Start Num: 95

Candidate Starts for DonkeyMan_61:

(Start: 51 @39688 has 3 MA's), (72, 39727), (73, 39730), (Start: 95 @39766 has 3 MA's), (109, 39820),

Gene: Doobus_68 Start: 40732, Stop: 41007, Start Num: 101

Candidate Starts for Doobus_68:

(Start: 101 @40732 has 70 MA's),

Gene: DrRobert_59 Start: 42246, Stop: 42524, Start Num: 90

Candidate Starts for DrRobert_59:

(Start: 90 @42246 has 14 MA's), (Start: 102 @42264 has 63 MA's), (106, 42282), (146, 42441), (159, 42498), (160, 42504),

Gene: DreamTeam_61 Start: 42752, Stop: 43012, Start Num: 102

Candidate Starts for DreamTeam_61:

(Start: 90 @42734 has 14 MA's), (Start: 102 @42752 has 63 MA's), (106, 42770), (121, 42827), (141, 42908),

Gene: Eden_72 Start: 40483, Stop: 40758, Start Num: 101

Candidate Starts for Eden_72:

(9, 40246), (13, 40276), (14, 40279), (17, 40294), (23, 40324), (25, 40327), (45, 40381), (65, 40423), (Start: 101 @40483 has 70 MA's), (145, 40669), (146, 40672), (162, 40741),

Gene: Elesar_62 Start: 42571, Stop: 42897, Start Num: 56

Candidate Starts for Elesar_62:

(Start: 56 @42571 has 4 MA's), (Start: 79 @42601 has 11 MA's), (132, 42757), (159, 42871),

Gene: Elfy_78 Start: 43714, Stop: 44013, Start Num: 93

Candidate Starts for Elfy_78:

(62, 43660), (93, 43714), (125, 43831), (131, 43852), (142, 43900),

Gene: Elva_73 Start: 41675, Stop: 41950, Start Num: 101

Candidate Starts for Elva_73:

(Start: 101 @41675 has 70 MA's), (145, 41861), (146, 41864),

Gene: EstebanJulior_60 Start: 43409, Stop: 43669, Start Num: 102

Candidate Starts for EstebanJulior_60:

(Start: 102 @43409 has 63 MA's), (106, 43427), (121, 43484),

Gene: Eula_69 Start: 40916, Stop: 41191, Start Num: 101

Candidate Starts for Eula_69:

(Start: 101 @40916 has 70 MA's), (145, 41102),

Gene: Eunoia_62 Start: 44077, Stop: 44337, Start Num: 102

Candidate Starts for Eunoia_62:

(60, 44008), (74, 44029), (Start: 102 @44077 has 63 MA's), (107, 44098), (120, 44149),

Gene: Finalfrontier_69 Start: 41583, Stop: 41858, Start Num: 101

Candidate Starts for Finalfrontier_69:

(Start: 101 @41583 has 70 MA's), (145, 41769),

Gene: FlameThrower_65 Start: 40846, Stop: 41121, Start Num: 101

Candidate Starts for FlameThrower_65:

(54, 40768), (Start: 101 @40846 has 70 MA's), (145, 41032), (162, 41104),

Gene: Fluke_62 Start: 43458, Stop: 43736, Start Num: 90

Candidate Starts for Fluke_62:

(Start: 90 @43458 has 14 MA's), (Start: 102 @43476 has 63 MA's), (106, 43494), (120, 43548),

Gene: Franklin22_74 Start: 40216, Stop: 40491, Start Num: 101

Candidate Starts for Franklin22_74:

(65, 40156), (Start: 101 @40216 has 70 MA's), (145, 40402), (162, 40474),

Gene: Frizzle_58 Start: 45018, Stop: 45314, Start Num: 92

Candidate Starts for Frizzle_58:

(Start: 92 @45018 has 5 MA's), (Start: 113 @45090 has 1 MA's), (122, 45123), (163, 45306),

Gene: Fryberger_144 Start: 66223, Stop: 66480, Start Num: 97

Candidate Starts for Fryberger_144:

(Start: 97 @66223 has 6 MA's), (124, 66319), (131, 66343), (137, 66373), (146, 66406),

Gene: Gack_71 Start: 40197, Stop: 40472, Start Num: 101

Candidate Starts for Gack_71:

(Start: 101 @40197 has 70 MA's), (145, 40383), (150, 40413),

Gene: Ghobes_59 Start: 45003, Stop: 45227, Start Num: 113

Candidate Starts for Ghobes_59:

(Start: 92 @44931 has 5 MA's), (Start: 113 @45003 has 1 MA's), (122, 45036), (163, 45219),

Gene: Gisselle_61 Start: 42752, Stop: 43012, Start Num: 102

Candidate Starts for Gisselle_61:

(Start: 90 @42734 has 14 MA's), (Start: 102 @42752 has 63 MA's), (106, 42770), (121, 42827), (141, 42908),

Gene: Glenn_64 Start: 44035, Stop: 44313, Start Num: 90

Candidate Starts for Glenn_64:

(Start: 90 @44035 has 14 MA's), (Start: 102 @44053 has 63 MA's), (106, 44071), (120, 44125),

Gene: GoodLuckBabe_69 Start: 41904, Stop: 42203, Start Num: 76

Candidate Starts for GoodLuckBabe_69:

(Start: 56 @41880 has 4 MA's), (Start: 76 @41904 has 1 MA's), (118, 42003), (132, 42063), (140, 42099),

Gene: Graynor_65 Start: 43171, Stop: 43443, Start Num: 92

Candidate Starts for Graynor_65:

(Start: 79 @43150 has 11 MA's), (Start: 92 @43171 has 5 MA's), (99, 43177), (Start: 102 @43183 has 63 MA's),

Gene: GreenHearts_62 Start: 43911, Stop: 44171, Start Num: 102

Candidate Starts for GreenHearts_62:

(Start: 102 @43911 has 63 MA's), (103, 43917), (116, 43968), (117, 43971), (120, 43983), (150, 44115),

Gene: Greenhouse_61 Start: 43637, Stop: 43897, Start Num: 102

Candidate Starts for Greenhouse_61:

(Start: 102 @43637 has 63 MA's), (103, 43643), (116, 43694), (117, 43697), (150, 43841),

Gene: GrimEater_65 Start: 41105, Stop: 41392, Start Num: 97

Candidate Starts for GrimEater_65:

(54, 41039), (Start: 97 @41105 has 6 MA's), (137, 41267), (142, 41285),

Gene: Guey18_149 Start: 67884, Stop: 68141, Start Num: 97

Candidate Starts for Guey18_149:

(Start: 97 @67884 has 6 MA's), (124, 67980), (131, 68004), (137, 68034), (146, 68067),

Gene: Guinevere_71 Start: 41765, Stop: 42061, Start Num: 79

Candidate Starts for Guinevere_71:

(Start: 79 @41765 has 11 MA's), (118, 41861), (132, 41921), (140, 41957),

Gene: Gusanita_70 Start: 42391, Stop: 42687, Start Num: 79

Candidate Starts for Gusanita_70:

(Start: 79 @42391 has 11 MA's), (115, 42481), (159, 42661),

Gene: Gustav_68 Start: 43674, Stop: 44000, Start Num: 61

Candidate Starts for Gustav_68:

(48, 43644), (Start: 61 @43674 has 2 MA's), (114, 43788), (132, 43857), (137, 43875), (141, 43896), (144, 43905), (153, 43962),

Gene: Halloweekend_62 Start: 41095, Stop: 41391, Start Num: 79

Candidate Starts for Halloweekend_62:

(Start: 79 @41095 has 11 MA's), (115, 41185), (132, 41251), (147, 41323), (159, 41365),

Gene: HeadNerd_62 Start: 42632, Stop: 42892, Start Num: 102

Candidate Starts for HeadNerd_62:

(Start: 90 @42614 has 14 MA's), (Start: 102 @42632 has 63 MA's), (106, 42650), (121, 42707), (146, 42809), (156, 42857),

Gene: Heinz_63 Start: 39746, Stop: 40030, Start Num: 95

Candidate Starts for Heinz_63:

(Start: 95 @39746 has 3 MA's), (109, 39800),

Gene: Herb_60 Start: 43613, Stop: 43870, Start Num: 102

Candidate Starts for Herb_60:

(Start: 97 @43604 has 6 MA's), (Start: 102 @43613 has 63 MA's), (106, 43631), (122, 43688), (141, 43766),

Gene: Hibiscus_63 Start: 39480, Stop: 39836, Start Num: 51

Candidate Starts for Hibiscus_63:

(Start: 51 @39480 has 3 MA's), (Start: 95 @39552 has 3 MA's), (109, 39606),

Gene: Huckleberry_62 Start: 42636, Stop: 42896, Start Num: 102

Candidate Starts for Huckleberry_62:

(Start: 90 @42618 has 14 MA's), (Start: 102 @42636 has 63 MA's), (106, 42654), (121, 42711), (146, 42813), (156, 42861),

Gene: Huff_64 Start: 39227, Stop: 39523, Start Num: 84

Candidate Starts for Huff_64:

(60, 39185), (Start: 84 @39227 has 8 MA's), (140, 39416), (153, 39485),

Gene: Huntingdon_61 Start: 43533, Stop: 43811, Start Num: 88

Candidate Starts for Huntingdon_61:

(Start: 88 @43533 has 1 MA's), (Start: 102 @43551 has 63 MA's), (116, 43608), (117, 43611), (120, 43623), (150, 43755),

Gene: Icarian_72 Start: 41856, Stop: 42131, Start Num: 101

Candidate Starts for Icarian_72:

(Start: 101 @41856 has 70 MA's), (140, 42021), (145, 42042), (146, 42045),

Gene: Ichiang_65 Start: 41204, Stop: 41500, Start Num: 79

Candidate Starts for Ichiang_65:

(Start: 79 @41204 has 11 MA's), (132, 41360), (147, 41432), (159, 41474),

Gene: Immaculata_62 Start: 43324, Stop: 43584, Start Num: 102

Candidate Starts for Immaculata_62:

(Start: 90 @43306 has 14 MA's), (Start: 102 @43324 has 63 MA's), (106, 43342), (120, 43396),

Gene: IndyLu_71 Start: 41495, Stop: 41770, Start Num: 101

Candidate Starts for IndyLu_71:

(19, 41318), (36, 41369), (54, 41420), (Start: 64 @41435 has 3 MA's), (Start: 80 @41462 has 1 MA's), (Start: 83 @41468 has 2 MA's), (94, 41483), (Start: 101 @41495 has 70 MA's),

Gene: IsHungry_64 Start: 40246, Stop: 40572, Start Num: 56

Candidate Starts for IsHungry_64:

(29, 40180), (Start: 56 @40246 has 4 MA's), (Start: 79 @40276 has 11 MA's), (118, 40372), (132, 40432), (159, 40546), (160, 40552),

Gene: Jabb_71 Start: 41251, Stop: 41526, Start Num: 101

Candidate Starts for Jabb_71:
(Start: 101 @41251 has 70 MA's),

Gene: Jankie_67 Start: 41285, Stop: 41572, Start Num: 97
Candidate Starts for Jankie_67:
(54, 41219), (Start: 97 @41285 has 6 MA's), (137, 41447), (142, 41465),

Gene: Jflix2_101 Start: 58160, Stop: 58510, Start Num: 83
Candidate Starts for Jflix2_101:
(3, 57923), (77, 58148), (Start: 83 @58160 has 2 MA's),

Gene: Joann_63 Start: 43843, Stop: 44103, Start Num: 102
Candidate Starts for Joann_63:
(Start: 102 @43843 has 63 MA's), (116, 43900), (117, 43903), (150, 44047),

Gene: Johnathan_70 Start: 40508, Stop: 40783, Start Num: 101
Candidate Starts for Johnathan_70:
(Start: 101 @40508 has 70 MA's),

Gene: Jojo24_63 Start: 40163, Stop: 40516, Start Num: 51
Candidate Starts for Jojo24_63:
(Start: 51 @40163 has 3 MA's), (Start: 95 @40235 has 3 MA's), (109, 40289),

Gene: Jovita_68 Start: 40684, Stop: 40959, Start Num: 101
Candidate Starts for Jovita_68:
(Start: 101 @40684 has 70 MA's), (145, 40870),

Gene: Julie_67 Start: 41903, Stop: 42199, Start Num: 79
Candidate Starts for Julie_67:
(Start: 56 @41873 has 4 MA's), (Start: 79 @41903 has 11 MA's), (118, 41999), (132, 42059), (159, 42173), (160, 42179),

Gene: Jumboset_62 Start: 43444, Stop: 43704, Start Num: 102
Candidate Starts for Jumboset_62:
(Start: 90 @43426 has 14 MA's), (Start: 102 @43444 has 63 MA's), (106, 43462), (117, 43504), (120, 43516),

Gene: Kalizoi_62 Start: 43182, Stop: 43442, Start Num: 102
Candidate Starts for Kalizoi_62:
(Start: 90 @43164 has 14 MA's), (Start: 102 @43182 has 63 MA's), (106, 43200), (120, 43254),

Gene: Kate33_73 Start: 41226, Stop: 41501, Start Num: 101
Candidate Starts for Kate33_73:
(36, 41100), (54, 41151), (Start: 64 @41166 has 3 MA's), (Start: 83 @41199 has 2 MA's), (94, 41214), (Start: 101 @41226 has 70 MA's),

Gene: Katzastrophic_67 Start: 41352, Stop: 41627, Start Num: 101
Candidate Starts for Katzastrophic_67:
(21, 41187), (23, 41196), (25, 41199), (42, 41247), (54, 41277), (Start: 64 @41292 has 3 MA's), (Start: 83 @41325 has 2 MA's), (Start: 101 @41352 has 70 MA's), (145, 41538), (162, 41610),

Gene: Kenzers_69 Start: 40798, Stop: 41073, Start Num: 101
Candidate Starts for Kenzers_69:

(Start: 101 @40798 has 70 MA's), (145, 40984),

Gene: Khuang_70 Start: 39192, Stop: 39488, Start Num: 90

Candidate Starts for Khuang_70:

(Start: 90 @39192 has 14 MA's), (103, 39222), (137, 39360),

Gene: Kieran_65 Start: 41080, Stop: 41355, Start Num: 101

Candidate Starts for Kieran_65:

(54, 41005), (Start: 101 @41080 has 70 MA's), (145, 41266), (150, 41296),

Gene: Kihatsu_69 Start: 42860, Stop: 43183, Start Num: 56

Candidate Starts for Kihatsu_69:

(Start: 56 @42860 has 4 MA's), (Start: 76 @42884 has 1 MA's), (118, 42983), (132, 43043), (140, 43079),

Gene: KingBob_60 Start: 43614, Stop: 43871, Start Num: 102

Candidate Starts for KingBob_60:

(Start: 97 @43605 has 6 MA's), (Start: 102 @43614 has 63 MA's), (106, 43632), (122, 43689), (141, 43767),

Gene: Kittykat_65 Start: 43266, Stop: 43526, Start Num: 102

Candidate Starts for Kittykat_65:

(Start: 90 @43248 has 14 MA's), (Start: 102 @43266 has 63 MA's), (106, 43284), (121, 43341), (141, 43422), (146, 43443),

Gene: Korra_62 Start: 43371, Stop: 43631, Start Num: 102

Candidate Starts for Korra_62:

(Start: 90 @43353 has 14 MA's), (Start: 102 @43371 has 63 MA's), (106, 43389), (120, 43443),

Gene: Kudfre_128 Start: 69247, Stop: 69579, Start Num: 86

Candidate Starts for Kudfre_128:

(Start: 86 @69247 has 7 MA's), (128, 69385), (130, 69397), (147, 69487),

Gene: Lahqtemish_69 Start: 41710, Stop: 41985, Start Num: 101

Candidate Starts for Lahqtemish_69:

(41, 41602), (54, 41635), (Start: 64 @41650 has 3 MA's), (Start: 80 @41677 has 1 MA's), (Start: 83 @41683 has 2 MA's), (94, 41698), (Start: 101 @41710 has 70 MA's),

Gene: Lakshmi_61 Start: 43678, Stop: 43938, Start Num: 102

Candidate Starts for Lakshmi_61:

(Start: 102 @43678 has 63 MA's), (103, 43684), (116, 43735), (117, 43738), (120, 43750), (150, 43882),

Gene: Lasagna_59 Start: 42266, Stop: 42526, Start Num: 102

Candidate Starts for Lasagna_59:

(Start: 90 @42248 has 14 MA's), (Start: 102 @42266 has 63 MA's), (106, 42284), (146, 42443), (159, 42500), (160, 42506),

Gene: Lennox_61 Start: 42751, Stop: 43011, Start Num: 102

Candidate Starts for Lennox_61:

(Start: 90 @42733 has 14 MA's), (Start: 102 @42751 has 63 MA's), (106, 42769), (121, 42826), (146, 42928), (159, 42985), (160, 42991),

Gene: Lenoxika_66 Start: 41766, Stop: 42062, Start Num: 79

Candidate Starts for Lenoxika_66:

(Start: 79 @41766 has 11 MA's), (118, 41862), (132, 41922), (140, 41958),

Gene: LilJank_122 Start: 71012, Stop: 71341, Start Num: 86

Candidate Starts for LilJank_122:

(Start: 86 @71012 has 7 MA's), (125, 71132), (130, 71162), (133, 71180), (134, 71186), (136, 71195), (155, 71288), (158, 71297),

Gene: LilStuart_60 Start: 42614, Stop: 42874, Start Num: 102

Candidate Starts for LilStuart_60:

(Start: 90 @42596 has 14 MA's), (Start: 102 @42614 has 63 MA's), (106, 42632), (146, 42791), (159, 42848), (160, 42854),

Gene: Lilo27_70 Start: 41100, Stop: 41375, Start Num: 101

Candidate Starts for Lilo27_70:

(Start: 101 @41100 has 70 MA's), (145, 41286),

Gene: LimaBean_68 Start: 40790, Stop: 41065, Start Num: 101

Candidate Starts for LimaBean_68:

(55, 40715), (66, 40730), (82, 40760), (85, 40763), (Start: 101 @40790 has 70 MA's),

Gene: Litotes_62 Start: 43156, Stop: 43416, Start Num: 102

Candidate Starts for Litotes_62:

(Start: 79 @43123 has 11 MA's), (Start: 92 @43144 has 5 MA's), (99, 43150), (Start: 102 @43156 has 63 MA's),

Gene: Loviatar_67 Start: 42044, Stop: 42379, Start Num: 64

Candidate Starts for Loviatar_67:

(54, 42029), (Start: 64 @42044 has 3 MA's), (Start: 83 @42077 has 2 MA's), (Start: 101 @42104 has 70 MA's), (108, 42137), (146, 42293),

Gene: Lucy_60 Start: 42591, Stop: 42869, Start Num: 90

Candidate Starts for Lucy_60:

(Start: 90 @42591 has 14 MA's), (Start: 102 @42609 has 63 MA's), (106, 42627), (146, 42786), (159, 42843), (160, 42849),

Gene: Lunar_73 Start: 37996, Stop: 38376, Start Num: 44

Candidate Starts for Lunar_73:

(Start: 44 @37996 has 1 MA's), (94, 38089),

Gene: Lynlen_71 Start: 40984, Stop: 41259, Start Num: 101

Candidate Starts for Lynlen_71:

(94, 40972), (Start: 101 @40984 has 70 MA's),

Gene: Madraxi_103 Start: 60318, Stop: 60668, Start Num: 83

Candidate Starts for Madraxi_103:

(4, 60090), (28, 60201), (41, 60237), (Start: 83 @60318 has 2 MA's), (131, 60468),

Gene: Mahdia_60 Start: 41790, Stop: 42113, Start Num: 61

Candidate Starts for Mahdia_60:

(Start: 61 @41790 has 2 MA's), (Start: 64 @41796 has 3 MA's), (132, 41970), (137, 41988), (153, 42075),

Gene: Makoto_60 Start: 42571, Stop: 42831, Start Num: 102

Candidate Starts for Makoto_60:

(Start: 90 @42553 has 14 MA's), (Start: 102 @42571 has 63 MA's), (106, 42589), (121, 42646), (146, 42748), (159, 42805), (160, 42811),

Gene: MamaPearl_60 Start: 43409, Stop: 43669, Start Num: 102

Candidate Starts for MamaPearl_60:

(Start: 102 @43409 has 63 MA's), (106, 43427), (121, 43484),

Gene: Maria1952_59 Start: 43613, Stop: 43870, Start Num: 102

Candidate Starts for Maria1952_59:

(Start: 97 @43604 has 6 MA's), (Start: 102 @43613 has 63 MA's), (106, 43631), (122, 43688), (141, 43766),

Gene: MeganNoll_63 Start: 43904, Stop: 44182, Start Num: 90

Candidate Starts for MeganNoll_63:

(Start: 90 @43904 has 14 MA's), (Start: 102 @43922 has 63 MA's), (106, 43940), (120, 43994),

Gene: MillySue_69 Start: 41794, Stop: 42090, Start Num: 79

Candidate Starts for MillySue_69:

(Start: 79 @41794 has 11 MA's), (118, 41890), (159, 42064),

Gene: Milomuff_73 Start: 41357, Stop: 41632, Start Num: 101

Candidate Starts for Milomuff_73:

(Start: 101 @41357 has 70 MA's),

Gene: Misaeng_61 Start: 43477, Stop: 43737, Start Num: 102

Candidate Starts for Misaeng_61:

(Start: 102 @43477 has 63 MA's), (116, 43534), (117, 43537), (120, 43549), (150, 43681),

Gene: Moki_62 Start: 42825, Stop: 43085, Start Num: 102

Candidate Starts for Moki_62:

(Start: 90 @42807 has 14 MA's), (Start: 102 @42825 has 63 MA's), (106, 42843), (121, 42900), (146, 43002), (156, 43050),

Gene: Morrissey_63 Start: 43651, Stop: 44007, Start Num: 53

Candidate Starts for Morrissey_63:

(Start: 53 @43651 has 1 MA's), (Start: 61 @43666 has 2 MA's), (Start: 68 @43678 has 1 MA's), (82, 43702), (132, 43864), (153, 43969),

Gene: MrBoss_63 Start: 42722, Stop: 42994, Start Num: 92

Candidate Starts for MrBoss_63:

(Start: 79 @42701 has 11 MA's), (Start: 92 @42722 has 5 MA's), (99, 42728), (Start: 102 @42734 has 63 MA's),

Gene: MrGloopy_62 Start: 43347, Stop: 43625, Start Num: 90

Candidate Starts for MrGloopy_62:

(Start: 90 @43347 has 14 MA's), (Start: 102 @43365 has 63 MA's), (106, 43383), (120, 43437),

Gene: MsUbiquitous_71 Start: 41251, Stop: 41526, Start Num: 101

Candidate Starts for MsUbiquitous_71:

(Start: 101 @41251 has 70 MA's),

Gene: Nancia_61 Start: 42902, Stop: 43162, Start Num: 102

Candidate Starts for Nancia_61:

(Start: 90 @42884 has 14 MA's), (Start: 102 @42902 has 63 MA's), (106, 42920), (146, 43079), (159, 43136), (160, 43142),

Gene: Nandita_68 Start: 42024, Stop: 42323, Start Num: 78

Candidate Starts for Nandita_68:

(29, 41931), (58, 42000), (Start: 78 @42024 has 1 MA's), (132, 42183), (135, 42192), (159, 42297),

Gene: Neville_125 Start: 70232, Stop: 70561, Start Num: 86

Candidate Starts for Neville_125:

(Start: 86 @70232 has 7 MA's), (125, 70352), (130, 70382), (134, 70406), (136, 70415), (149, 70484), (155, 70508), (158, 70517), (164, 70556),

Gene: Nicky22_69 Start: 41321, Stop: 41596, Start Num: 101

Candidate Starts for Nicky22_69:

(Start: 101 @41321 has 70 MA's), (145, 41507),

Gene: Nubia_61 Start: 43705, Stop: 43965, Start Num: 102

Candidate Starts for Nubia_61:

(Start: 88 @43687 has 1 MA's), (Start: 102 @43705 has 63 MA's), (116, 43762), (117, 43765), (150, 43909),

Gene: OMalley_60 Start: 43400, Stop: 43660, Start Num: 102

Candidate Starts for OMalley_60:

(60, 43331), (74, 43352), (Start: 102 @43400 has 63 MA's), (107, 43421), (120, 43472),

Gene: Octobien14_124 Start: 67781, Stop: 68113, Start Num: 86

Candidate Starts for Octobien14_124:

(63, 67739), (Start: 86 @67781 has 7 MA's), (128, 67919), (130, 67931), (144, 67997),

Gene: Olliecat_66 Start: 38762, Stop: 39037, Start Num: 101

Candidate Starts for Olliecat_66:

(2, 38429), (18, 38579), (32, 38630), (Start: 101 @38762 has 70 MA's), (145, 38948), (157, 39005),

Gene: OurGirlNessie_59 Start: 42225, Stop: 42485, Start Num: 102

Candidate Starts for OurGirlNessie_59:

(Start: 90 @42207 has 14 MA's), (Start: 102 @42225 has 63 MA's), (106, 42243), (121, 42300), (146, 42402), (159, 42459), (160, 42465),

Gene: Oxynfrius_62 Start: 43823, Stop: 44083, Start Num: 102

Candidate Starts for Oxynfrius_62:

(Start: 102 @43823 has 63 MA's), (116, 43880), (117, 43883), (150, 44027),

Gene: PartyCup_62 Start: 43576, Stop: 43848, Start Num: 92

Candidate Starts for PartyCup_62:

(Start: 79 @43555 has 11 MA's), (Start: 92 @43576 has 5 MA's), (99, 43582), (Start: 102 @43588 has 63 MA's),

Gene: PastaFagioli_71 Start: 41718, Stop: 42053, Start Num: 64

Candidate Starts for PastaFagioli_71:

(41, 41670), (54, 41703), (Start: 64 @41718 has 3 MA's), (Start: 80 @41745 has 1 MA's), (Start: 83 @41751 has 2 MA's), (94, 41766), (Start: 101 @41778 has 70 MA's),

Gene: Pecas_70 Start: 41217, Stop: 41492, Start Num: 101

Candidate Starts for Pecas_70:

(Start: 101 @41217 has 70 MA's), (145, 41403),

Gene: PhigPhack_73 Start: 41119, Stop: 41394, Start Num: 101

Candidate Starts for PhigPhack_73:

(Start: 101 @41119 has 70 MA's), (145, 41305),

Gene: Phisb_72 Start: 41092, Stop: 41367, Start Num: 101

Candidate Starts for Phisb_72:

(Start: 101 @41092 has 70 MA's),

Gene: PinkFriday_61 Start: 42959, Stop: 43216, Start Num: 102

Candidate Starts for PinkFriday_61:

(Start: 97 @42950 has 6 MA's), (Start: 102 @42959 has 63 MA's), (122, 43034), (123, 43037), (141, 43112), (160, 43196),

Gene: PitaDog_61 Start: 42609, Stop: 42887, Start Num: 90

Candidate Starts for PitaDog_61:

(Start: 90 @42609 has 14 MA's), (Start: 102 @42627 has 63 MA's), (106, 42645), (121, 42702), (146, 42804), (159, 42861), (160, 42867),

Gene: PondAmelia_83 Start: 40965, Stop: 41300, Start Num: 64

Candidate Starts for PondAmelia_83:

(40, 40914), (54, 40950), (Start: 64 @40965 has 3 MA's), (Start: 83 @40998 has 2 MA's), (Start: 101 @41025 has 70 MA's), (108, 41058), (145, 41211), (146, 41214),

Gene: Popper_70 Start: 41441, Stop: 41767, Start Num: 56

Candidate Starts for Popper_70:

(29, 41375), (Start: 56 @41441 has 4 MA's), (Start: 79 @41471 has 11 MA's), (118, 41567), (132, 41627), (159, 41741), (160, 41747),

Gene: Potatoes_62 Start: 43324, Stop: 43584, Start Num: 102

Candidate Starts for Potatoes_62:

(Start: 90 @43306 has 14 MA's), (Start: 102 @43324 has 63 MA's), (106, 43342), (120, 43396),

Gene: Preamble_64 Start: 43037, Stop: 43297, Start Num: 102

Candidate Starts for Preamble_64:

(Start: 90 @43019 has 14 MA's), (Start: 102 @43037 has 63 MA's), (106, 43055), (121, 43112), (141, 43193), (146, 43214),

Gene: Pterodactyl_61 Start: 42938, Stop: 43198, Start Num: 102

Candidate Starts for Pterodactyl_61:

(Start: 90 @42920 has 14 MA's), (Start: 102 @42938 has 63 MA's), (106, 42956), (121, 43013), (146, 43115), (159, 43172), (160, 43178),

Gene: Pumancara_61 Start: 42494, Stop: 42751, Start Num: 102

Candidate Starts for Pumancara_61:

(Start: 97 @42485 has 6 MA's), (Start: 102 @42494 has 63 MA's), (122, 42569), (123, 42572), (141, 42647), (160, 42731),

Gene: Puppies_62 Start: 41790, Stop: 42113, Start Num: 67

Candidate Starts for Puppies_62:

(27, 41697), (34, 41718), (38, 41733), (41, 41739), (57, 41775), (Start: 67 @41790 has 2 MA's), (137, 41988),

Gene: QMacho_72 Start: 41222, Stop: 41497, Start Num: 101

Candidate Starts for QMacho_72:

(Start: 101 @41222 has 70 MA's),

Gene: Quenya_69 Start: 41516, Stop: 41791, Start Num: 101

Candidate Starts for Quenya_69:

(Start: 101 @41516 has 70 MA's), (108, 41549), (145, 41702), (162, 41774),

Gene: QuinnAvery_70 Start: 42826, Stop: 43122, Start Num: 79

Candidate Starts for QuinnAvery_70:

(31, 42730), (Start: 79 @42826 has 11 MA's), (118, 42922), (132, 42982), (135, 42991),

Gene: RAP15_63 Start: 43905, Stop: 44183, Start Num: 90

Candidate Starts for RAP15_63:

(Start: 90 @43905 has 14 MA's), (Start: 102 @43923 has 63 MA's), (106, 43941), (120, 43995),

Gene: Rabbitrun_127 Start: 71852, Stop: 72181, Start Num: 86

Candidate Starts for Rabbitrun_127:

(5, 71615), (6, 71618), (20, 71696), (33, 71741), (35, 71744), (47, 71774), (49, 71777), (59, 71804), (Start: 80 @71840 has 1 MA's), (Start: 86 @71852 has 7 MA's), (118, 71942), (130, 72002), (133, 72020), (134, 72026), (135, 72029), (149, 72104), (164, 72176),

Gene: RcigaStruga_62 Start: 43551, Stop: 43811, Start Num: 102

Candidate Starts for RcigaStruga_62:

(Start: 88 @43533 has 1 MA's), (Start: 102 @43551 has 63 MA's), (116, 43608), (117, 43611), (120, 43623), (150, 43755),

Gene: RegnumDei_114 Start: 60267, Stop: 60536, Start Num: 101

Candidate Starts for RegnumDei_114:

(Start: 101 @60267 has 70 MA's), (135, 60408), (138, 60420), (154, 60507),

Gene: Reyja_65 Start: 41077, Stop: 41433, Start Num: 51

Candidate Starts for Reyja_65:

(Start: 51 @41077 has 3 MA's), (Start: 95 @41149 has 3 MA's), (109, 41203),

Gene: Riovina_60 Start: 43400, Stop: 43660, Start Num: 102

Candidate Starts for Riovina_60:

(60, 43331), (74, 43352), (Start: 102 @43400 has 63 MA's), (107, 43421), (120, 43472),

Gene: Riverdale_61 Start: 43055, Stop: 43315, Start Num: 102

Candidate Starts for Riverdale_61:

(Start: 90 @43037 has 14 MA's), (Start: 102 @43055 has 63 MA's), (106, 43073), (120, 43127),

Gene: Rollins_70 Start: 39578, Stop: 39853, Start Num: 101

Candidate Starts for Rollins_70:

(15, 39380), (18, 39395), (25, 39422), (37, 39455), (54, 39503), (Start: 64 @39518 has 3 MA's), (Start: 83 @39551 has 2 MA's), (Start: 101 @39578 has 70 MA's),

Gene: Rona_66 Start: 41247, Stop: 41522, Start Num: 101

Candidate Starts for Rona_66:

(54, 41172), (Start: 101 @41247 has 70 MA's), (145, 41433), (150, 41463),

Gene: Ronaldo_147 Start: 67378, Stop: 67635, Start Num: 97

Candidate Starts for Ronaldo_147:

(Start: 97 @67378 has 6 MA's), (124, 67474), (131, 67498), (137, 67528), (146, 67561),

Gene: Rozby_60 Start: 42859, Stop: 43119, Start Num: 102

Candidate Starts for Rozby_60:

(Start: 90 @42841 has 14 MA's), (Start: 102 @42859 has 63 MA's), (106, 42877), (120, 42931),

Gene: Ryan_70 Start: 42477, Stop: 42773, Start Num: 79

Candidate Starts for Ryan_70:

(Start: 56 @42438 has 4 MA's), (Start: 79 @42477 has 11 MA's), (132, 42633), (159, 42747),

Gene: SFuller_100 Start: 58710, Stop: 59060, Start Num: 83

Candidate Starts for SFuller_100:

(1, 58224), (77, 58698), (Start: 83 @58710 has 2 MA's), (131, 58860),

Gene: SanaSana_70 Start: 41542, Stop: 41817, Start Num: 101

Candidate Starts for SanaSana_70:

(7, 41296), (10, 41311), (16, 41350), (52, 41458), (54, 41467), (Start: 64 @41482 has 3 MA's), (Start: 83 @41515 has 2 MA's), (Start: 101 @41542 has 70 MA's), (108, 41575), (145, 41728), (146, 41731),

Gene: SansAfet_72 Start: 41068, Stop: 41343, Start Num: 101

Candidate Starts for SansAfet_72:

(Start: 101 @41068 has 70 MA's), (145, 41254),

Gene: Santhid_59 Start: 38581, Stop: 38865, Start Num: 95

Candidate Starts for Santhid_59:

(50, 38500), (72, 38542), (73, 38545), (Start: 95 @38581 has 3 MA's), (109, 38635),

Gene: Sapo_61 Start: 45211, Stop: 45513, Start Num: 89

Candidate Starts for Sapo_61:

(Start: 89 @45211 has 1 MA's), (119, 45304), (127, 45337), (143, 45412), (163, 45505),

Gene: SarBear_72 Start: 41148, Stop: 41423, Start Num: 101

Candidate Starts for SarBear_72:

(Start: 101 @41148 has 70 MA's),

Gene: Savage2526_61 Start: 43082, Stop: 43342, Start Num: 102

Candidate Starts for Savage2526_61:

(Start: 90 @43064 has 14 MA's), (Start: 102 @43082 has 63 MA's), (106, 43100), (120, 43154),

Gene: Schism_71 Start: 42712, Stop: 43011, Start Num: 76

Candidate Starts for Schism_71:

(Start: 56 @42688 has 4 MA's), (Start: 76 @42712 has 1 MA's), (111, 42790), (118, 42811), (132, 42871), (140, 42907), (151, 42967),

Gene: Schmidt_58 Start: 36837, Stop: 37133, Start Num: 84

Candidate Starts for Schmidt_58:

(Start: 84 @36837 has 8 MA's), (137, 37008), (159, 37107),

Gene: Scuttle_61 Start: 43375, Stop: 43653, Start Num: 90

Candidate Starts for Scuttle_61:

(Start: 90 @43375 has 14 MA's), (Start: 102 @43393 has 63 MA's), (106, 43411), (120, 43465),

Gene: Sephiroth_123 Start: 69017, Stop: 69349, Start Num: 86

Candidate Starts for Sephiroth_123:

(Start: 86 @69017 has 7 MA's), (128, 69155), (130, 69167), (147, 69257),

Gene: Sergei_60 Start: 43614, Stop: 43871, Start Num: 102

Candidate Starts for Sergei_60:

(Start: 97 @43605 has 6 MA's), (Start: 102 @43614 has 63 MA's), (106, 43632), (122, 43689), (141, 43767),

Gene: Shagrat_110 Start: 58151, Stop: 58423, Start Num: 98

Candidate Starts for Shagrat_110:

(Start: 98 @58151 has 1 MA's), (125, 58256), (135, 58295), (152, 58391), (154, 58394),

Gene: Sharkboy_68 Start: 41611, Stop: 41886, Start Num: 101

Candidate Starts for Sharkboy_68:

(54, 41536), (Start: 101 @41611 has 70 MA's), (108, 41644), (145, 41797), (150, 41827),

Gene: SirBeanington_70 Start: 41335, Stop: 41610, Start Num: 101

Candidate Starts for SirBeanington_70:

(Start: 101 @41335 has 70 MA's), (145, 41521),

Gene: Skylord_70 Start: 39495, Stop: 39770, Start Num: 101

Candidate Starts for Skylord_70:

(15, 39297), (18, 39312), (25, 39339), (37, 39372), (54, 39420), (Start: 64 @39435 has 3 MA's), (Start: 83 @39468 has 2 MA's), (Start: 101 @39495 has 70 MA's),

Gene: Slay_70 Start: 41458, Stop: 41733, Start Num: 101

Candidate Starts for Slay_70:

(Start: 101 @41458 has 70 MA's), (145, 41644),

Gene: Softsoap_71 Start: 41189, Stop: 41464, Start Num: 101

Candidate Starts for Softsoap_71:

(Start: 101 @41189 has 70 MA's),

Gene: Solea_73 Start: 41356, Stop: 41631, Start Num: 101

Candidate Starts for Solea_73:

(Start: 101 @41356 has 70 MA's),

Gene: Splinter_64 Start: 40315, Stop: 40611, Start Num: 84

Candidate Starts for Splinter_64:

(Start: 84 @40315 has 8 MA's), (140, 40504), (153, 40573),

Gene: Squirrel_66 Start: 38761, Stop: 39036, Start Num: 101

Candidate Starts for Squirrel_66:

(2, 38428), (18, 38578), (32, 38629), (Start: 101 @38761 has 70 MA's), (145, 38947), (157, 39004),

Gene: Stoor_69 Start: 41350, Stop: 41625, Start Num: 101

Candidate Starts for Stoor_69:

(Start: 101 @41350 has 70 MA's), (145, 41536), (146, 41539),

Gene: Stromboli_68 Start: 41130, Stop: 41405, Start Num: 101

Candidate Starts for Stromboli_68:

(7, 40884), (10, 40899), (16, 40938), (52, 41046), (54, 41055), (Start: 64 @41070 has 3 MA's), (Start: 83 @41103 has 2 MA's), (Start: 101 @41130 has 70 MA's), (145, 41316), (146, 41319),

Gene: Supakev_60 Start: 43425, Stop: 43685, Start Num: 102

Candidate Starts for Supakev_60:

(60, 43356), (74, 43377), (Start: 102 @43425 has 63 MA's), (106, 43443), (107, 43446), (120, 43497),

Gene: Suppi_62 Start: 43562, Stop: 43834, Start Num: 92

Candidate Starts for Suppi_62:

(Start: 79 @43541 has 11 MA's), (Start: 92 @43562 has 5 MA's), (99, 43568), (Start: 102 @43574 has 63 MA's),

Gene: Swervy_70 Start: 41047, Stop: 41322, Start Num: 101

Candidate Starts for Swervy_70:

(Start: 101 @41047 has 70 MA's), (145, 41233),

Gene: Syleon_128 Start: 69768, Stop: 70100, Start Num: 86

Candidate Starts for Syleon_128:

(Start: 86 @69768 has 7 MA's), (128, 69906), (130, 69918), (147, 70008),

Gene: TZGordon_65 Start: 39203, Stop: 39499, Start Num: 84

Candidate Starts for TZGordon_65:

(Start: 84 @39203 has 8 MA's), (140, 39392), (153, 39461),

Gene: Tarzan_63 Start: 39834, Stop: 40118, Start Num: 95

Candidate Starts for Tarzan_63:

(Start: 51 @39759 has 3 MA's), (72, 39795), (73, 39798), (Start: 95 @39834 has 3 MA's), (109, 39888),

Gene: TattModd_61 Start: 43209, Stop: 43469, Start Num: 102

Candidate Starts for TattModd_61:

(Start: 90 @43191 has 14 MA's), (Start: 102 @43209 has 63 MA's), (106, 43227), (120, 43281),

Gene: Temper16_60 Start: 43614, Stop: 43871, Start Num: 102

Candidate Starts for Temper16_60:

(Start: 97 @43605 has 6 MA's), (Start: 102 @43614 has 63 MA's), (106, 43632), (122, 43689), (141, 43767),

Gene: TinaLin_63 Start: 39046, Stop: 39342, Start Num: 84

Candidate Starts for TinaLin_63:

(60, 39004), (Start: 84 @39046 has 8 MA's), (105, 39088), (126, 39172), (153, 39304),

Gene: ToastyOats_69 Start: 42136, Stop: 42432, Start Num: 79

Candidate Starts for ToastyOats_69:

(Start: 79 @42136 has 11 MA's), (118, 42232), (132, 42292), (140, 42328),

Gene: Toodles_68 Start: 42560, Stop: 42856, Start Num: 79

Candidate Starts for Toodles_68:

(29, 42464), (Start: 56 @42530 has 4 MA's), (Start: 79 @42560 has 11 MA's), (118, 42656), (147, 42788), (159, 42830), (160, 42836),

Gene: Trax_126 Start: 71052, Stop: 71381, Start Num: 86

Candidate Starts for Trax_126:

(Start: 86 @71052 has 7 MA's), (125, 71172), (130, 71202), (133, 71220), (134, 71226), (136, 71235), (155, 71328), (158, 71337),

Gene: Trine_65 Start: 43058, Stop: 43372, Start Num: 68

Candidate Starts for Trine_65:

(Start: 68 @43058 has 1 MA's), (125, 43199),

Gene: TukTuk_70 Start: 41237, Stop: 41512, Start Num: 101

Candidate Starts for TukTuk_70:

(Start: 101 @41237 has 70 MA's), (145, 41423),

Gene: Upyo_69 Start: 44979, Stop: 45296, Start Num: 69

Candidate Starts for Upyo_69:

(Start: 69 @44979 has 1 MA's), (112, 45075), (132, 45153), (137, 45171),

Gene: Urla_62 Start: 43603, Stop: 43863, Start Num: 102

Candidate Starts for Urla_62:

(Start: 102 @43603 has 63 MA's), (106, 43621), (121, 43678),

Gene: Vallejo_62 Start: 43253, Stop: 43531, Start Num: 90

Candidate Starts for Vallejo_62:

(Start: 90 @43253 has 14 MA's), (Start: 102 @43271 has 63 MA's), (106, 43289), (120, 43343),

Gene: Vendetta_64 Start: 40315, Stop: 40611, Start Num: 84

Candidate Starts for Vendetta_64:

(Start: 84 @40315 has 8 MA's), (140, 40504), (153, 40573),

Gene: Vitas_71 Start: 39646, Stop: 39921, Start Num: 101

Candidate Starts for Vitas_71:

(22, 39487), (59, 39580), (Start: 101 @39646 has 70 MA's), (108, 39679),

Gene: Volt_150 Start: 67542, Stop: 67799, Start Num: 97

Candidate Starts for Volt_150:

(Start: 97 @67542 has 6 MA's), (124, 67638), (131, 67662), (137, 67692), (146, 67725),

Gene: WalkingDead_71 Start: 42012, Stop: 42287, Start Num: 101

Candidate Starts for WalkingDead_71:

(Start: 101 @42012 has 70 MA's), (145, 42198), (146, 42201),

Gene: Wawa_62 Start: 43514, Stop: 43774, Start Num: 102

Candidate Starts for Wawa_62:

(Start: 90 @43496 has 14 MA's), (Start: 102 @43514 has 63 MA's), (106, 43532), (120, 43586),

Gene: Wayne_64 Start: 44019, Stop: 44291, Start Num: 92

Candidate Starts for Wayne_64:

(Start: 79 @43998 has 11 MA's), (Start: 92 @44019 has 5 MA's), (99, 44025), (Start: 102 @44031 has 63 MA's),

Gene: Widow_62 Start: 42336, Stop: 42659, Start Num: 67

Candidate Starts for Widow_62:

(27, 42243), (34, 42264), (38, 42279), (41, 42285), (Start: 53 @42312 has 1 MA's), (57, 42321), (Start: 67 @42336 has 2 MA's), (137, 42534),

Gene: WonderBoy_59 Start: 42399, Stop: 42659, Start Num: 102

Candidate Starts for WonderBoy_59:

(Start: 90 @42381 has 14 MA's), (Start: 102 @42399 has 63 MA's), (106, 42417), (121, 42474), (146, 42576), (159, 42633), (160, 42639),

Gene: Yonex_69 Start: 42477, Stop: 42773, Start Num: 79

Candidate Starts for Yonex_69:

(Start: 56 @42438 has 4 MA's), (Start: 79 @42477 has 11 MA's), (132, 42633), (159, 42747),

Gene: Zaheer_69 Start: 42523, Stop: 42819, Start Num: 79

Candidate Starts for Zaheer_69:

(Start: 79 @42523 has 11 MA's), (118, 42619), (132, 42679), (140, 42715),

Gene: Zorro_62 Start: 43226, Stop: 43486, Start Num: 102

Candidate Starts for Zorro_62:

(Start: 90 @43208 has 14 MA's), (Start: 102 @43226 has 63 MA's), (106, 43244), (120, 43298),