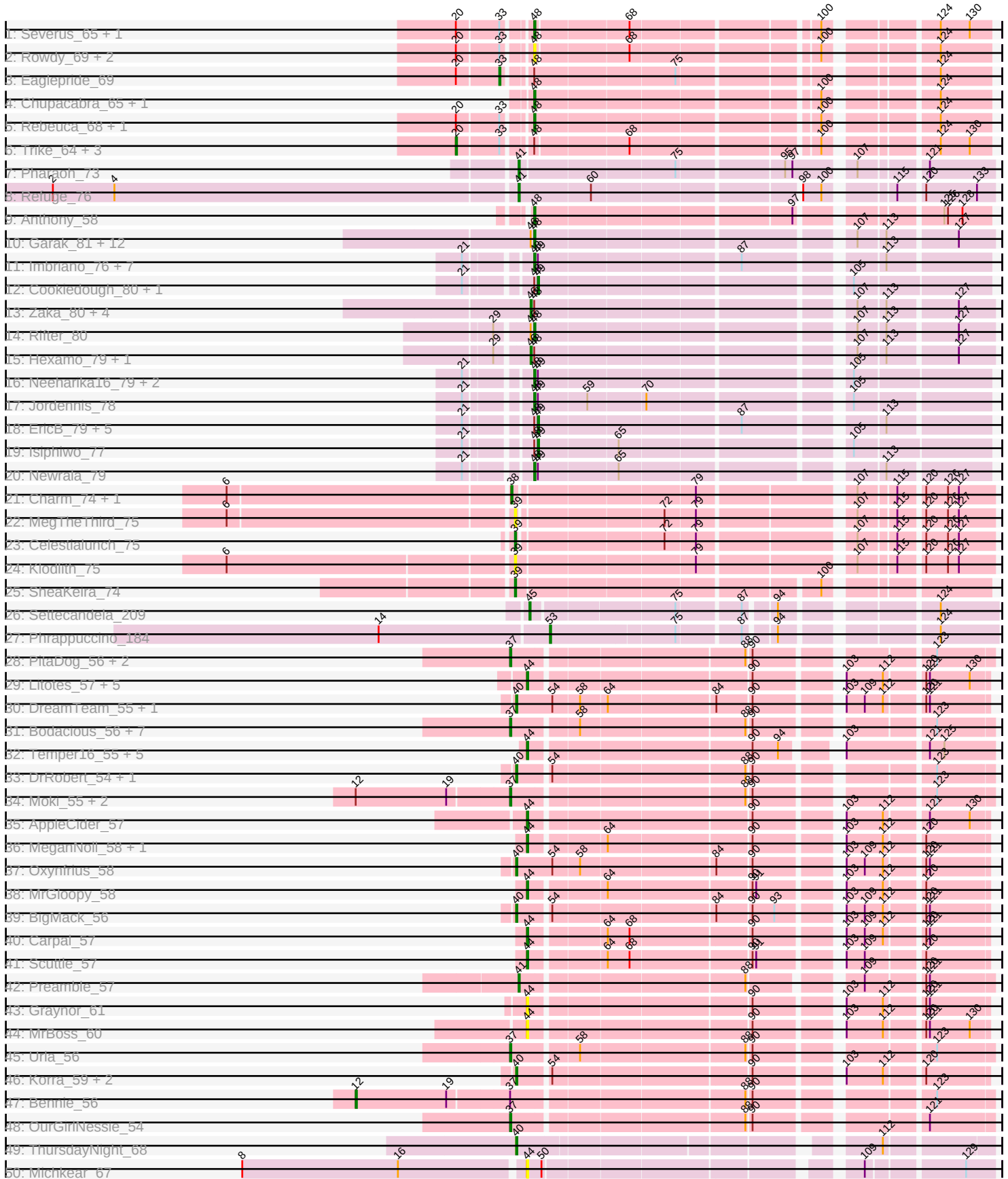
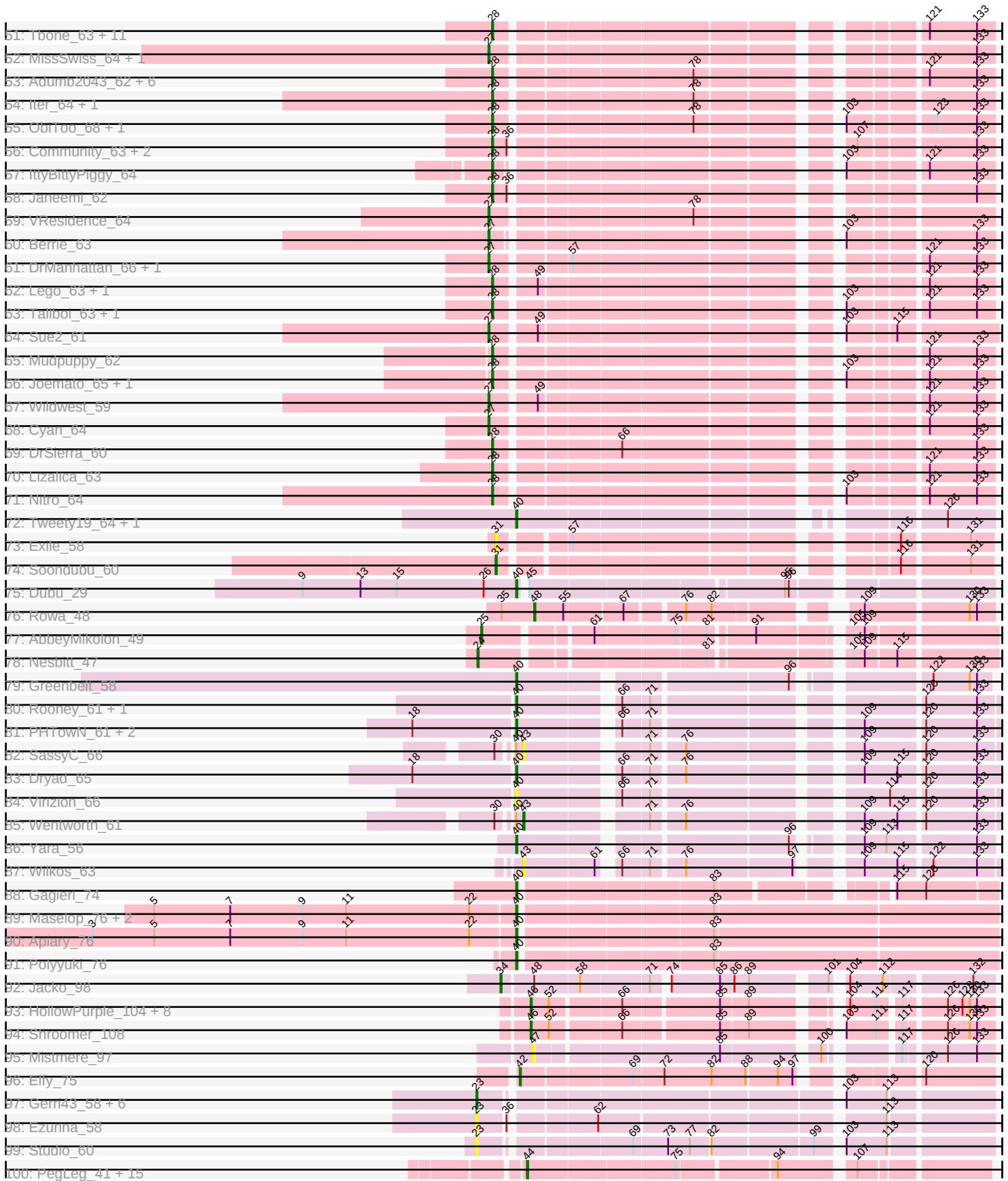
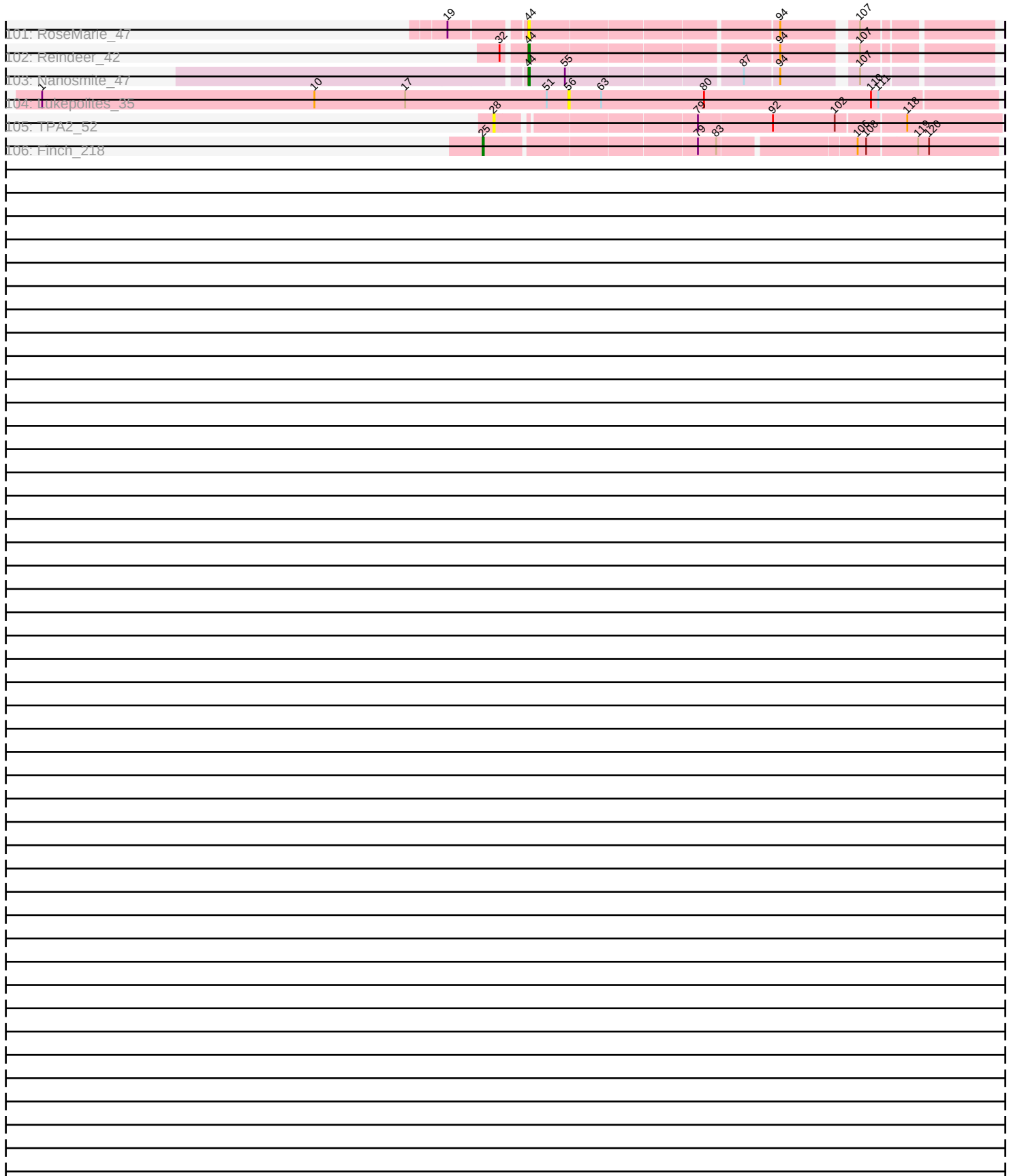


Pham 326682





Pham 326682



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 326682 Report

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

Pham number 326682 has 234 members, 36 are drafts.

Phages represented in each track:

- Track 1 : Severus_65, KittenMittens_64
- Track 2 : Rowdy_69, Shapes_69, DustyMartin_69
- Track 3 : Eaglepride_69
- Track 4 : Chupacabra_65, Goose_68
- Track 5 : Rebeuca_68, Kristoff_66
- Track 6 : Trike_64, Poompha_64, Drake94_65, PeaceMeal1_65
- Track 7 : Pharaoh_73
- Track 8 : Refuge_76
- Track 9 : Anthony_58
- Track 10 : Garak_81, Indra_83, Temprado_81, Tucker_80, Roksolana_80, ToneTone_77, BennyP_80, Koko_81, WunderPhul_80, Helmet_82, BlessJoy_80, Lilbunny_79, Wiks_79
- Track 11 : Imbriano_76, DaVinci_78, Kazan_81, Candra_78, SuperCallie99_77, Hoot_75, VohminGhazi_80, BABullseye_73
- Track 12 : Cookiedough_80, DelvinSonDorr_76
- Track 13 : Zaka_80, Zulu_81, Yokurt_79, Blue7_81, Artemis2UCLA_79
- Track 14 : Rifter_80
- Track 15 : Hexamo_79, CloudWang3_80
- Track 16 : Neeharika16_79, Pmask_79, SuperAwesome_80
- Track 17 : Jordennis_78
- Track 18 : EricB_79, SmellyB_80, GreedyLawyer_75, Kipper29_80, Dorothea_80, Chartreuse_79
- Track 19 : Isiphiwo_77
- Track 20 : Newrala_79
- Track 21 : Charm_74, DreamTeam1_74
- Track 22 : MegTheThird_75
- Track 23 : Celestiallunch_75
- Track 24 : Klodlith_75
- Track 25 : SheaKeira_74
- Track 26 : Settecandela_209
- Track 27 : Phrappuccino_184
- Track 28 : PitaDog_56, Christian_56, Pterodactyl_56
- Track 29 : Litotes_57, CallieOMalley_58, Suppi_58, Canowicakte_58, PartyCup_59, Wayne_60
- Track 30 : DreamTeam_55, Gisselle_55
- Track 31 : Bodacious_56, Lucy_55, Lennox_56, ChewChew_56, CristinaYang_56, Lasagna_54, LilStuart_55, Nancia_56

- Track 32 : Temper16_55, Maria1952_54, Daiboju_55, Sergei_55, KingBob_55, Herb_55
- Track 33 : DrRobert_54, Makoto_55
- Track 34 : Moki_55, HeadNerd_55, Huckleberry_55
- Track 35 : AppleCider_57
- Track 36 : MeganNoll_58, RAP15_59
- Track 37 : Oxynfrius_58
- Track 38 : MrGloopy_58
- Track 39 : BigMack_56
- Track 40 : Carpal_57
- Track 41 : Scuttle_57
- Track 42 : Preamble_57
- Track 43 : Graynor_61
- Track 44 : MrBoss_60
- Track 45 : Urla_56
- Track 46 : Korra_59, Fluke_58, Glenn_59
- Track 47 : Bennie_56
- Track 48 : OurGirlNessie_54
- Track 49 : ThursdayNight_68
- Track 50 : Michkear_67
- Track 51 : Tbone_63, Eraser_63, Flutur_63, Skelbel_64, Asa16_63, London_63, AGrandiflora_65, Warda_64, Niobe_63, Tutumahutu_65, Powerpuff_65, YesChef_63
- Track 52 : MissSwiss_64, PandaPo_64
- Track 53 : Adumb2043_62, AEgle_61, Turab_61, Elezi_62, Subaru_62, Jstan_64, Amploria_64
- Track 54 : Iter_64, Ascela_65
- Track 55 : ObiToo_68, Crewmate_68
- Track 56 : Community_63, Tuck_63, Phives_64
- Track 57 : IttyBittyPiggy_64
- Track 58 : Janeemi_62
- Track 59 : VResidence_64
- Track 60 : Berrie_63
- Track 61 : DrManhattan_66, Adolin_65
- Track 62 : Lego_63, Kaylissa_65
- Track 63 : Tallboi_63, JohnDoe_64
- Track 64 : Sue2_61
- Track 65 : Mudpuppy_62
- Track 66 : Joemato_65, Simpson_69
- Track 67 : Wildwest_59
- Track 68 : Cyan_64
- Track 69 : DrSierra_60
- Track 70 : Lizalica_63
- Track 71 : Nitro_64
- Track 72 : Tweety19_64, Snek_63
- Track 73 : Exile_58
- Track 74 : Soondubu_60
- Track 75 : Dubu_29
- Track 76 : Rowa_48
- Track 77 : AbbeyMikolon_49
- Track 78 : Nesbitt_47
- Track 79 : Greenbelt_58
- Track 80 : Rooney_61, Gibson_61
- Track 81 : PHTowN_61, Lizz_61, ShakeNBake_61

- Track 82 : SassyC_66
- Track 83 : Dryad_65
- Track 84 : Virizion_66
- Track 85 : Wentworth_61
- Track 86 : Yara_56
- Track 87 : Wilkos_63
- Track 88 : Gagieri_74
- Track 89 : Maselop_76, CoffeeBean_76, Braxoaddie_76
- Track 90 : Apiary_76
- Track 91 : Polyuyuki_76
- Track 92 : Jacko_98
- Track 93 : HollowPurple_104, Welcome_105, ASegato_101, Necrophoxinus_105, StevieWelch_103, Fork_99, Erenyeager_103, Issa7_102, SteakFry_106
- Track 94 : Shroomer_108
- Track 95 : Mistmere_97
- Track 96 : Elfy_75
- Track 97 : Gerri43_58, ChipsNGuac_59, Neuville_58, CardboardBox_59, AnnabelLee_60, Roberts_59, ChamoyPickle_60
- Track 98 : Ezurina_58
- Track 99 : Studio_60
- Track 100 : PegLeg_41, LilhomieP_40, Diminimus_42, IPhane7_41, Bongo_41, Izel_42, SlimJimmy_40, Auspice_41, Dulcita_42, FreakyGoo_42, TpudiCK_43, TyDawg_41, Skinny_42, KleverKiS_42, Bricole_41, Glaske16_42
- Track 101 : RoseMarie_47
- Track 102 : Reindeer_42
- Track 103 : Nanosmite_47
- Track 104 : Lukeopolites_35
- Track 105 : TPA2_52
- Track 106 : Finch_218

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

The start number called the most often in the published annotations is 44, it was called in 34 of the 198 non-draft genes in the pham.

Genes that call this "Most Annotated" start:

• AppleCider_57, Auspice_41, Bongo_41, Bricole_41, CallieOMalley_58, Canowicakte_58, Carpal_57, Daiboku_55, Diminimus_42, Dulcita_42, FreakyGoo_42, Glaske16_42, Graynor_61, Herb_55, IPhane7_41, Izel_42, KingBob_55, KleverKiS_42, LilhomieP_40, Litotes_57, Maria1952_54, MeganNoll_58, Michkear_67, MrBoss_60, MrGloopy_58, Nanosmite_47, PartyCup_59, PegLeg_41, RAP15_59, Reindeer_42, RoseMarie_47, Scuttle_57, Sergei_55, Skinny_42, SlimJimmy_40, Suppi_58, Temper16_55, TpudiCK_43, TyDawg_41, Wayne_60,

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

•

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

• AEgle_61, AGrandiflora_65, ASegato_101, AbbeyMikolon_49, Adolin_65, Adumb2043_62, Amploria_64, AnnabelLee_60, Anthony_58, Apiary_76,

Artemis2UCLA_79, Asa16_63, Ascela_65, BABullseye_73, Bennie_56, BennyP_80, Berrie_63, BigMack_56, BlessJoy_80, Blue7_81, Bodacious_56, Braxoaddie_76, Candra_78, CardboardBox_59, Celestiallunch_75, ChamoyPickle_60, Charm_74, Chartreuse_79, ChewChew_56, ChipsNGuac_59, Christian_56, Chupacabra_65, CloudWang3_80, CoffeeBean_76, Community_63, Cookiedough_80, Crewmate_68, CristinaYang_56, Cyan_64, DaVinci_78, DelvinSonDorr_76, Dorothea_80, DrManhattan_66, DrRobert_54, DrSierra_60, Drake94_65, DreamTeam1_74, DreamTeam_55, Dryad_65, Dubu_29, DustyMartin_69, Eaglepride_69, Elezi_62, Elfy_75, Eraser_63, Erenyeager_103, EricB_79, Exile_58, Ezurina_58, Finch_218, Fluke_58, Flutur_63, Fork_99, Gagieri_74, Garak_81, Gerri43_58, Gibson_61, Gisselle_55, Glenn_59, Goose_68, GreedyLawyer_75, Greenbelt_58, HeadNerd_55, Helmet_82, Hexamo_79, HollowPurple_104, Hoot_75, Huckleberry_55, Imbriano_76, Indra_83, Isiphiwo_77, Issa7_102, Iter_64, IttyBittyPiggy_64, Jacko_98, Janeemi_62, Joemato_65, JohnDoe_64, Jordennis_78, Jstan_64, Kaylissa_65, Kazan_81, Kipper29_80, KittenMittens_64, Klodlith_75, Koko_81, Korra_59, Kristoff_66, Lasagna_54, Lego_63, Lennox_56, LilStuart_55, Lilbunny_79, Lizalica_63, Lizz_61, London_63, Lucy_55, Lukepolites_35, Makoto_55, Maselop_76, MegTheThird_75, MissSwiss_64, Mistmere_97, Moki_55, Mudpuppy_62, Nancia_56, Necrophoxinus_105, Neeharika16_79, Nesbitt_47, Neuvillelette_58, Newrala_79, Niobe_63, Nitro_64, ObiToo_68, OurGirlNessie_54, Oxynfrius_58, PHTown_61, PandaPo_64, PeaceMeal1_65, Pharaoh_73, Phives_64, Phrappuccino_184, PitaDog_56, Pmask_79, Polyyuki_76, Poompha_64, Powerpuff_65, Preamble_57, Pterodactyl_56, Rebeuca_68, Refuge_76, Rifter_80, Roberts_59, Roksolana_80, Rooney_61, Rowa_48, Rowdy_69, SassyC_66, Settecandela_209, Severus_65, ShakeNBake_61, Shapes_69, SheaKeira_74, Shroomer_108, Simpson_69, Skelbel_64, SmellyB_80, Snek_63, Soondubu_60, SteakFry_106, StevieWelch_103, Studio_60, Subaru_62, Sue2_61, SuperAwesome_80, SuperCallie99_77, TPA2_52, Tallboi_63, Tbone_63, Temprado_81, ThursdayNight_68, ToneTone_77, Trike_64, Tuck_63, Tucker_80, Turab_61, Tutumahutu_65, Tweety19_64, Urla_56, VResidence_64, Virizion_66, VohminGhazi_80, Warda_64, Welcome_105, Wentworth_61, Wiks_79, Wildwest_59, Wilkos_63, WunderPhul_80, Yara_56, YesChef_63, Yokurt_79, Zaka_80, Zulu_81,

Summary by start number:

Start 12:

- Found in 4 of 234 (1.7%) of genes in pham
- Manual Annotations of this start: 1 of 198
- Called 25.0% of time when present
- Phage (with cluster) where this start called: Bennie_56 (AK),

Start 20:

- Found in 12 of 234 (5.1%) of genes in pham
- Manual Annotations of this start: 4 of 198
- Called 33.3% of time when present
- Phage (with cluster) where this start called: Drake94_65 (A10), PeaceMeal1_65 (A10), Poompha_64 (A10), Trike_64 (A10),

Start 23:

- Found in 9 of 234 (3.8%) of genes in pham
- Manual Annotations of this start: 4 of 198
- Called 100.0% of time when present

- Phage (with cluster) where this start called: AnnabelLee_60 (FR), CardboardBox_59 (FR), ChamoyPickle_60 (FR), ChipsNGuac_59 (FR), Ezurina_58 (FR), Gerri43_58 (FR), Neuville_58 (FR), Roberts_59 (FR), Studio_60 (FR),

Start 24:

- Found in 1 of 234 (0.4%) of genes in pham
- Manual Annotations of this start: 1 of 198
- Called 100.0% of time when present
- Phage (with cluster) where this start called: Nesbitt_47 (BL),

Start 25:

- Found in 2 of 234 (0.9%) of genes in pham
- Manual Annotations of this start: 2 of 198
- Called 100.0% of time when present
- Phage (with cluster) where this start called: AbbeyMikolon_49 (BL), Finch_218 (singleton),

Start 27:

- Found in 9 of 234 (3.8%) of genes in pham
- Manual Annotations of this start: 8 of 198
- Called 100.0% of time when present
- Phage (with cluster) where this start called: Adolin_65 (AZ1), Berrie_63 (AZ1), Cyan_64 (AZ1), DrManhattan_66 (AZ1), MissSwiss_64 (AZ1), PandaPo_64 (AZ1), Sue2_61 (AZ1), VResidence_64 (AZ1), Wildwest_59 (AZ1),

Start 28:

- Found in 39 of 234 (16.7%) of genes in pham
- Manual Annotations of this start: 31 of 198
- Called 100.0% of time when present
- Phage (with cluster) where this start called: AEgle_61 (AZ1), AGrandiflora_65 (AZ1), Adumb2043_62 (AZ1), Amploria_64 (AZ1), Asa16_63 (AZ1), Ascela_65 (AZ1), Community_63 (AZ1), Crewmate_68 (AZ1), DrSierra_60 (AZ1), Elezi_62 (AZ1), Eraser_63 (AZ1), Flutur_63 (AZ), Iter_64 (AZ1), IttyBittyPiggy_64 (AZ1), Janeemi_62 (AZ1), Joemato_65 (AZ1), JohnDoe_64 (AZ1), Jstan_64 (AZ1), Kaylissa_65 (AZ1), Lego_63 (AZ1), Lizalica_63 (AZ1), London_63 (AZ1), Mudpuppy_62 (AZ1), Niobe_63 (AZ1), Nitro_64 (AZ1), ObiToo_68 (AZ1), Phives_64 (AZ1), Powerpuff_65 (AZ1), Simpson_69 (AZ1), Skelbel_64 (AZ1), Subaru_62 (AZ1), TPA2_52 (singleton), Tallboi_63 (AZ1), Tbone_63 (AZ1), Tuck_63 (AZ1), Turab_61 (AZ1), Tutumahutu_65 (AZ1), Warda_64 (AZ1), YesChef_63 (AZ1),

Start 31:

- Found in 2 of 234 (0.9%) of genes in pham
- Manual Annotations of this start: 1 of 198
- Called 100.0% of time when present
- Phage (with cluster) where this start called: Exile_58 (AZ6), Soondubu_60 (AZ6),

Start 33:

- Found in 12 of 234 (5.1%) of genes in pham
- Manual Annotations of this start: 1 of 198
- Called 8.3% of time when present
- Phage (with cluster) where this start called: Eaglepride_69 (A10),

Start 34:

- Found in 1 of 234 (0.4%) of genes in pham
- Manual Annotations of this start: 1 of 198
- Called 100.0% of time when present
- Phage (with cluster) where this start called: Jacko_98 (ED1),

Start 37:

- Found in 17 of 234 (7.3%) of genes in pham
- Manual Annotations of this start: 16 of 198
- Called 94.1% of time when present
- Phage (with cluster) where this start called: Bodacious_56 (AK), ChewChew_56 (AK), Christian_56 (AK), CristinaYang_56 (AK), HeadNerd_55 (AK), Huckleberry_55 (AK), Lasagna_54 (AK), Lennox_56 (AK), LilStuart_55 (AK), Lucy_55 (AK), Moki_55 (AK), Nancia_56 (AK), OurGirlNessie_54 (AK), PitaDog_56 (AK), Pterodactyl_56 (AK), Urla_56 (AK),

Start 38:

- Found in 2 of 234 (0.9%) of genes in pham
- Manual Annotations of this start: 2 of 198
- Called 100.0% of time when present
- Phage (with cluster) where this start called: Charm_74 (A9), DreamTeam1_74 (A9),

Start 39:

- Found in 4 of 234 (1.7%) of genes in pham
- Manual Annotations of this start: 2 of 198
- Called 100.0% of time when present
- Phage (with cluster) where this start called: Celestiallunch_75 (A9), Klodlith_75 (A9), MegTheThird_75 (A9), SheaKeira_74 (A9),

Start 40:

- Found in 30 of 234 (12.8%) of genes in pham
- Manual Annotations of this start: 27 of 198
- Called 93.3% of time when present
- Phage (with cluster) where this start called: Apiary_76 (CR6), BigMack_56 (AK), Braxoaddie_76 (CR6), CoffeeBean_76 (CR6), DrRobert_54 (AK), DreamTeam_55 (AK), Dryad_65 (BN), Dubu_29 (BJ), Fluke_58 (AK), Gagieri_74 (CR6), Gibson_61 (BN), Gisselle_55 (AK), Glenn_59 (AK), Greenbelt_58 (BN), Korra_59 (AK), Lizz_61 (BN), Makoto_55 (AK), Maselop_76 (CR6), Oxyntrius_58 (AK), PHTown_61 (BN), Polyyuki_76 (CR6), Rooney_61 (BN), ShakeNBake_61 (BN), Snek_63 (AZ3), ThursdayNight_68 (AZ), Tweety19_64 (AZ3), Virizion_66 (BN), Yara_56 (BN),

Start 41:

- Found in 3 of 234 (1.3%) of genes in pham
- Manual Annotations of this start: 3 of 198
- Called 100.0% of time when present
- Phage (with cluster) where this start called: Pharaoh_73 (A12), Preamble_57 (AK), Refuge_76 (A12),

Start 42:

- Found in 1 of 234 (0.4%) of genes in pham
- Manual Annotations of this start: 1 of 198
- Called 100.0% of time when present
- Phage (with cluster) where this start called: Elfy_75 (FP),

Start 43:

- Found in 3 of 234 (1.3%) of genes in pham
- Manual Annotations of this start: 1 of 198
- Called 100.0% of time when present
- Phage (with cluster) where this start called: SassyC_66 (BN), Wentworth_61 (BN), Wilkos_63 (BN),

Start 44:

- Found in 40 of 234 (17.1%) of genes in pham
- Manual Annotations of this start: 34 of 198
- Called 100.0% of time when present
- Phage (with cluster) where this start called: AppleCider_57 (AK), Auspice_41 (M1), Bongo_41 (M1), Bricole_41 (M1), CallieOMalley_58 (AK), Canowicakte_58 (AK), Carpal_57 (AK), Daiboku_55 (AK), Diminimus_42 (M1), Dulcita_42 (M1), FreakyGoo_42 (M1), Glaske16_42 (M1), Graynor_61 (AK), Herb_55 (AK), IPHane7_41 (M1), Izel_42 (M1), KingBob_55 (AK), KleverKiS_42 (M1), LilhomieP_40 (M1), Litotes_57 (AK), Maria1952_54 (AK), MeganNoll_58 (AK), Michkear_67 (AZ), MrBoss_60 (AK), MrGloopy_58 (AK), Nanosmite_47 (M3), PartyCup_59 (AK), PegLeg_41 (M1), RAP15_59 (AK), Reindeer_42 (M1), RoseMarie_47 (M1), Scuttle_57 (AK), Sergei_55 (AK), Skinny_42 (M1), SlimJimmy_40 (M1), Suppi_58 (AK), Temper16_55 (AK), TpudiCK_43 (M1), TyDawg_41 (M1), Wayne_60 (AK),

Start 45:

- Found in 2 of 234 (0.9%) of genes in pham
- Manual Annotations of this start: 1 of 198
- Called 50.0% of time when present
- Phage (with cluster) where this start called: Settecandela_209 (AA),

Start 46:

- Found in 31 of 234 (13.2%) of genes in pham
- Manual Annotations of this start: 16 of 198
- Called 54.8% of time when present
- Phage (with cluster) where this start called: ASegato_101 (ED2), Artemis2UCLA_79 (A6), Blue7_81 (A6), CloudWang3_80 (A6), Erenyeager_103 (ED2), Fork_99 (ED2), Hexamo_79 (A6), HollowPurple_104 (ED2), Issa7_102 (ED2), Necrophoxinus_105 (ED2), Shroomer_108 (ED2), SteakFry_106 (ED2), StevieWelch_103 (ED2), Welcome_105 (ED2), Yokurt_79 (A6), Zaka_80 (A6), Zulu_81 (A6),

Start 47:

- Found in 1 of 234 (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: Mistmere_97 (ED3),

Start 48:

- Found in 60 of 234 (25.6%) of genes in pham
- Manual Annotations of this start: 32 of 198
- Called 63.3% of time when present
- Phage (with cluster) where this start called: Anthony_58 (A20), BABullseye_73 (A6), BennyP_80 (A6), BlessJoy_80 (A6), Candra_78 (A6), Chupacabra_65 (A10), DaVinci_78 (A6), DustyMartin_69 (A10), Garak_81 (A6), Goose_68 (A10), Helmet_82 (A6), Hoot_75 (A6), Imbriano_76 (A6), Indra_83 (A6), Jordennis_78 (A6), Kazan_81 (A6), KittenMittens_64 (A10), Koko_81 (A6), Kristoff_66 (A10), Lilbunny_79 (A6),

Neeharika16_79 (A6), Newrala_79 (A6), Pmask_79 (A6), Rebeuca_68 (A10), Rifter_80 (A6), Roksolana_80 (A6), Rowa_48 (BL), Rowdy_69 (A10), Severus_65 (A10), Shapes_69 (A10), SuperAwesome_80 (A6), SuperCallie99_77 (A6), Temprado_81 (A6), ToneTone_77 (A6), Tucker_80 (A6), VohminGhazi_80 (A6), Wiks_79 (A6), WunderPhul_80 (A6),

Start 49:

- Found in 26 of 234 (11.1%) of genes in pham
- Manual Annotations of this start: 8 of 198
- Called 34.6% of time when present
- Phage (with cluster) where this start called: Chartreuse_79 (A6), Cookiedough_80 (A6), DelvinSonDorr_76 (A6), Dorothea_80 (A6), EricB_79 (A6), GreedyLawyer_75 (A6), Isiphiwo_77 (A6), Kipper29_80 (A6), SmellyB_80 (A6),

Start 53:

- Found in 1 of 234 (0.4%) of genes in pham
- Manual Annotations of this start: 1 of 198
- Called 100.0% of time when present
- Phage (with cluster) where this start called: Phrappuccino_184 (AA),

Start 56:

- Found in 1 of 234 (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: Lukepolites_35 (singleton),

Summary by clusters:

There are 23 clusters represented in this pham: FP, FR, BL, BN, singleton, BJ, ED2, ED3, ED1, M1, M3, A10, A12, A6, A9, AA, AK, AZ, A20, CR6, AZ1, AZ3, AZ6,

Info for manual annotations of cluster A10:

- Start number 20 was manually annotated 4 times for cluster A10.
- Start number 33 was manually annotated 1 time for cluster A10.
- Start number 48 was manually annotated 6 times for cluster A10.

Info for manual annotations of cluster A12:

- Start number 41 was manually annotated 2 times for cluster A12.

Info for manual annotations of cluster A20:

- Start number 48 was manually annotated 1 time for cluster A20.

Info for manual annotations of cluster A6:

- Start number 46 was manually annotated 7 times for cluster A6.
- Start number 48 was manually annotated 24 times for cluster A6.
- Start number 49 was manually annotated 8 times for cluster A6.

Info for manual annotations of cluster A9:

- Start number 38 was manually annotated 2 times for cluster A9.
- Start number 39 was manually annotated 2 times for cluster A9.

Info for manual annotations of cluster AA:

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

- Start number 53 was manually annotated 1 time for cluster AA.

Info for manual annotations of cluster AK:

- Start number 12 was manually annotated 1 time for cluster AK.
- Start number 37 was manually annotated 16 times for cluster AK.
- Start number 40 was manually annotated 9 times for cluster AK.
- Start number 41 was manually annotated 1 time for cluster AK.
- Start number 44 was manually annotated 18 times for cluster AK.

Info for manual annotations of cluster AZ:

- Start number 40 was manually annotated 1 time for cluster AZ.

Info for manual annotations of cluster AZ1:

- Start number 27 was manually annotated 8 times for cluster AZ1.
- Start number 28 was manually annotated 31 times for cluster AZ1.

Info for manual annotations of cluster AZ3:

- Start number 40 was manually annotated 2 times for cluster AZ3.

Info for manual annotations of cluster AZ6:

- Start number 31 was manually annotated 1 time for cluster AZ6.

Info for manual annotations of cluster BJ:

- Start number 40 was manually annotated 1 time for cluster BJ.

Info for manual annotations of cluster BL:

- Start number 24 was manually annotated 1 time for cluster BL.
- Start number 25 was manually annotated 1 time for cluster BL.
- Start number 48 was manually annotated 1 time for cluster BL.

Info for manual annotations of cluster BN:

- Start number 40 was manually annotated 8 times for cluster BN.
- Start number 43 was manually annotated 1 time for cluster BN.

Info for manual annotations of cluster CR6:

- Start number 40 was manually annotated 6 times for cluster CR6.

Info for manual annotations of cluster ED1:

- Start number 34 was manually annotated 1 time for cluster ED1.

Info for manual annotations of cluster ED2:

- Start number 46 was manually annotated 9 times for cluster ED2.

Info for manual annotations of cluster FP:

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

Info for manual annotations of cluster FR:

- Start number 23 was manually annotated 4 times for cluster FR.

Info for manual annotations of cluster M1:

- Start number 44 was manually annotated 15 times for cluster M1.

Info for manual annotations of cluster M3:

•Start number 44 was manually annotated 1 time for cluster M3.

Gene Information:

Gene: AEgle_61 Start: 41138, Stop: 41494, Start Num: 28

Candidate Starts for AEgle_61:

(Start: 28 @41138 has 31 MA's), (78, 41288), (121, 41441), (133, 41480),

Gene: AGrandiflora_65 Start: 42034, Stop: 42390, Start Num: 28

Candidate Starts for AGrandiflora_65:

(Start: 28 @42034 has 31 MA's), (121, 42337), (133, 42376),

Gene: ASegato_101 Start: 54171, Stop: 53848, Start Num: 46

Candidate Starts for ASegato_101:

(Start: 46 @54171 has 16 MA's), (52, 54156), (66, 54102), (85, 54030), (89, 54009), (104, 53952), (111, 53931), (117, 53916), (126, 53886), (128, 53874), (130, 53868), (133, 53862),

Gene: AbbeyMikolon_49 Start: 34450, Stop: 34821, Start Num: 25

Candidate Starts for AbbeyMikolon_49:

(Start: 25 @34450 has 2 MA's), (61, 34528), (75, 34591), (81, 34615), (91, 34648), (105, 34711), (109, 34720),

Gene: Adolin_65 Start: 40925, Stop: 41284, Start Num: 27

Candidate Starts for Adolin_65:

(Start: 27 @40925 has 8 MA's), (57, 40982), (121, 41231), (133, 41270),

Gene: Adumb2043_62 Start: 41162, Stop: 41518, Start Num: 28

Candidate Starts for Adumb2043_62:

(Start: 28 @41162 has 31 MA's), (78, 41312), (121, 41465), (133, 41504),

Gene: Amploria_64 Start: 41342, Stop: 41698, Start Num: 28

Candidate Starts for Amploria_64:

(Start: 28 @41342 has 31 MA's), (78, 41492), (121, 41645), (133, 41684),

Gene: AnnabelLee_60 Start: 35355, Stop: 34978, Start Num: 23

Candidate Starts for AnnabelLee_60:

(Start: 23 @35355 has 4 MA's), (103, 35091), (113, 35058),

Gene: Anthony_58 Start: 37628, Stop: 37296, Start Num: 48

Candidate Starts for Anthony_58:

(Start: 48 @37628 has 32 MA's), (97, 37430), (125, 37334), (126, 37331), (128, 37319),

Gene: Apiary_76 Start: 55270, Stop: 54890, Start Num: 40

Candidate Starts for Apiary_76:

(3, 55618), (5, 55567), (7, 55504), (9, 55444), (11, 55408), (22, 55306), (Start: 40 @55270 has 27 MA's), (83, 55120),

Gene: AppleCider_57 Start: 41677, Stop: 42012, Start Num: 44

Candidate Starts for AppleCider_57:

(Start: 44 @41677 has 34 MA's), (90, 41845), (103, 41905), (112, 41935), (121, 41965), (130, 41998),

Gene: Artemis2UCLA_79 Start: 44616, Stop: 44272, Start Num: 46
Candidate Starts for Artemis2UCLA_79:
(Start: 46 @44616 has 16 MA's), (Start: 48 @44613 has 32 MA's), (107, 44376), (113, 44355), (127, 44301),

Gene: Asa16_63 Start: 41723, Stop: 42079, Start Num: 28
Candidate Starts for Asa16_63:
(Start: 28 @41723 has 31 MA's), (121, 42026), (133, 42065),

Gene: Ascela_65 Start: 42214, Stop: 42570, Start Num: 28
Candidate Starts for Ascela_65:
(Start: 28 @42214 has 31 MA's), (78, 42364), (133, 42556),

Gene: Auspice_41 Start: 33797, Stop: 33453, Start Num: 44
Candidate Starts for Auspice_41:
(Start: 44 @33797 has 34 MA's), (75, 33680), (94, 33605), (107, 33551),

Gene: BABullseye_73 Start: 43259, Stop: 42921, Start Num: 48
Candidate Starts for BABullseye_73:
(21, 43304), (Start: 48 @43259 has 32 MA's), (Start: 49 @43256 has 8 MA's), (87, 43100), (113, 43001),

Gene: Bennie_56 Start: 40399, Stop: 40872, Start Num: 12
Candidate Starts for Bennie_56:
(Start: 12 @40399 has 1 MA's), (19, 40474), (Start: 37 @40522 has 16 MA's), (88, 40699), (90, 40702), (123, 40828),

Gene: BennyP_80 Start: 44778, Stop: 44437, Start Num: 48
Candidate Starts for BennyP_80:
(Start: 46 @44781 has 16 MA's), (Start: 48 @44778 has 32 MA's), (107, 44541), (113, 44520), (127, 44466),

Gene: Berrie_63 Start: 41818, Stop: 42174, Start Num: 27
Candidate Starts for Berrie_63:
(Start: 27 @41818 has 8 MA's), (103, 42064), (133, 42160),

Gene: BigMack_56 Start: 40973, Stop: 41317, Start Num: 40
Candidate Starts for BigMack_56:
(Start: 40 @40973 has 27 MA's), (54, 40997), (84, 41123), (90, 41150), (93, 41168), (103, 41210), (109, 41225), (112, 41240), (120, 41267), (121, 41270),

Gene: BlessJoy_80 Start: 45134, Stop: 44793, Start Num: 48
Candidate Starts for BlessJoy_80:
(Start: 46 @45137 has 16 MA's), (Start: 48 @45134 has 32 MA's), (107, 44897), (113, 44876), (127, 44822),

Gene: Blue7_81 Start: 44835, Stop: 44491, Start Num: 46
Candidate Starts for Blue7_81:
(Start: 46 @44835 has 16 MA's), (Start: 48 @44832 has 32 MA's), (107, 44595), (113, 44574), (127, 44520),

Gene: Bodacious_56 Start: 40944, Stop: 41294, Start Num: 37

Candidate Starts for Bodacious_56:

(Start: 37 @40944 has 16 MA's), (58, 40992), (88, 41121), (90, 41124), (123, 41250),

Gene: Bongo_41 Start: 33797, Stop: 33453, Start Num: 44

Candidate Starts for Bongo_41:

(Start: 44 @33797 has 34 MA's), (75, 33680), (94, 33605), (107, 33551),

Gene: Braxoaddie_76 Start: 55255, Stop: 54875, Start Num: 40

Candidate Starts for Braxoaddie_76:

(5, 55552), (7, 55489), (9, 55429), (11, 55393), (22, 55291), (Start: 40 @55255 has 27 MA's), (83, 55105),

Gene: Bricole_41 Start: 33783, Stop: 33439, Start Num: 44

Candidate Starts for Bricole_41:

(Start: 44 @33783 has 34 MA's), (75, 33666), (94, 33591), (107, 33537),

Gene: CallieOMalley_58 Start: 41865, Stop: 42200, Start Num: 44

Candidate Starts for CallieOMalley_58:

(Start: 44 @41865 has 34 MA's), (90, 42033), (103, 42093), (112, 42123), (120, 42150), (121, 42153), (130, 42186),

Gene: Candra_78 Start: 44954, Stop: 44616, Start Num: 48

Candidate Starts for Candra_78:

(21, 44999), (Start: 48 @44954 has 32 MA's), (Start: 49 @44951 has 8 MA's), (87, 44795), (113, 44696),

Gene: Canowicakte_58 Start: 41917, Stop: 42252, Start Num: 44

Candidate Starts for Canowicakte_58:

(Start: 44 @41917 has 34 MA's), (90, 42085), (103, 42145), (112, 42175), (120, 42202), (121, 42205), (130, 42238),

Gene: CardboardBox_59 Start: 35358, Stop: 34981, Start Num: 23

Candidate Starts for CardboardBox_59:

(Start: 23 @35358 has 4 MA's), (103, 35094), (113, 35061),

Gene: Carpal_57 Start: 41744, Stop: 42079, Start Num: 44

Candidate Starts for Carpal_57:

(Start: 44 @41744 has 34 MA's), (64, 41801), (68, 41819), (90, 41912), (103, 41972), (109, 41987), (112, 42002), (120, 42029), (121, 42032),

Gene: Celestiallunch_75 Start: 44883, Stop: 44533, Start Num: 39

Candidate Starts for Celestiallunch_75:

(Start: 39 @44883 has 2 MA's), (72, 44772), (79, 44748), (107, 44634), (115, 44607), (120, 44589), (126, 44571), (127, 44562),

Gene: ChamoyPickle_60 Start: 35898, Stop: 35521, Start Num: 23

Candidate Starts for ChamoyPickle_60:

(Start: 23 @35898 has 4 MA's), (103, 35634), (113, 35601),

Gene: Charm_74 Start: 44815, Stop: 44462, Start Num: 38

Candidate Starts for Charm_74:

(6, 45040), (Start: 38 @44815 has 2 MA's), (79, 44677), (107, 44563), (115, 44536), (120, 44518), (126, 44500), (127, 44491),

Gene: Chartreuse_79 Start: 44262, Stop: 43927, Start Num: 49

Candidate Starts for Chartreuse_79:

(21, 44310), (Start: 48 @44265 has 32 MA's), (Start: 49 @44262 has 8 MA's), (87, 44106), (113, 44007),

Gene: ChewChew_56 Start: 41074, Stop: 41424, Start Num: 37

Candidate Starts for ChewChew_56:

(Start: 37 @41074 has 16 MA's), (58, 41122), (88, 41251), (90, 41254), (123, 41380),

Gene: ChipsNGuac_59 Start: 35358, Stop: 34981, Start Num: 23

Candidate Starts for ChipsNGuac_59:

(Start: 23 @35358 has 4 MA's), (103, 35094), (113, 35061),

Gene: Christian_56 Start: 40786, Stop: 41136, Start Num: 37

Candidate Starts for Christian_56:

(Start: 37 @40786 has 16 MA's), (88, 40963), (90, 40966), (123, 41092),

Gene: Chupacabra_65 Start: 42016, Stop: 41687, Start Num: 48

Candidate Starts for Chupacabra_65:

(Start: 48 @42016 has 32 MA's), (100, 41803), (124, 41728),

Gene: CloudWang3_80 Start: 45127, Stop: 44783, Start Num: 46

Candidate Starts for CloudWang3_80:

(29, 45151), (Start: 46 @45127 has 16 MA's), (Start: 48 @45124 has 32 MA's), (107, 44887), (113, 44866), (127, 44812),

Gene: CoffeeBean_76 Start: 55213, Stop: 54833, Start Num: 40

Candidate Starts for CoffeeBean_76:

(5, 55510), (7, 55447), (9, 55387), (11, 55351), (22, 55249), (Start: 40 @55213 has 27 MA's), (83, 55063),

Gene: Community_63 Start: 42094, Stop: 42450, Start Num: 28

Candidate Starts for Community_63:

(Start: 28 @42094 has 31 MA's), (36, 42106), (107, 42349), (133, 42436),

Gene: Cookiedough_80 Start: 45569, Stop: 45231, Start Num: 49

Candidate Starts for Cookiedough_80:

(21, 45617), (Start: 48 @45572 has 32 MA's), (Start: 49 @45569 has 8 MA's), (105, 45338),

Gene: Crewmate_68 Start: 42445, Stop: 42801, Start Num: 28

Candidate Starts for Crewmate_68:

(Start: 28 @42445 has 31 MA's), (78, 42595), (103, 42691), (123, 42754), (133, 42787),

Gene: CristinaYang_56 Start: 41071, Stop: 41421, Start Num: 37

Candidate Starts for CristinaYang_56:

(Start: 37 @41071 has 16 MA's), (58, 41119), (88, 41248), (90, 41251), (123, 41377),

Gene: Cyan_64 Start: 41775, Stop: 42134, Start Num: 27

Candidate Starts for Cyan_64:

(Start: 27 @41775 has 8 MA's), (121, 42081), (133, 42120),

Gene: DaVinci_78 Start: 44319, Stop: 43981, Start Num: 48

Candidate Starts for DaVinci_78:

(21, 44364), (Start: 48 @44319 has 32 MA's), (Start: 49 @44316 has 8 MA's), (87, 44160), (113, 44061),

Gene: Daiboju_55 Start: 41677, Stop: 42018, Start Num: 44

Candidate Starts for Daiboju_55:

(Start: 44 @41677 has 34 MA's), (90, 41848), (94, 41869), (103, 41902), (121, 41965), (125, 41977),

Gene: DelvinSonDorr_76 Start: 44974, Stop: 44636, Start Num: 49

Candidate Starts for DelvinSonDorr_76:

(21, 45022), (Start: 48 @44977 has 32 MA's), (Start: 49 @44974 has 8 MA's), (105, 44743),

Gene: Diminimus_42 Start: 33796, Stop: 33452, Start Num: 44

Candidate Starts for Diminimus_42:

(Start: 44 @33796 has 34 MA's), (75, 33679), (94, 33604), (107, 33550),

Gene: Dorothea_80 Start: 45562, Stop: 45227, Start Num: 49

Candidate Starts for Dorothea_80:

(21, 45610), (Start: 48 @45565 has 32 MA's), (Start: 49 @45562 has 8 MA's), (87, 45406), (113, 45307),

Gene: DrManhattan_66 Start: 40479, Stop: 40838, Start Num: 27

Candidate Starts for DrManhattan_66:

(Start: 27 @40479 has 8 MA's), (57, 40536), (121, 40785), (133, 40824),

Gene: DrRobert_54 Start: 40308, Stop: 40655, Start Num: 40

Candidate Starts for DrRobert_54:

(Start: 40 @40308 has 27 MA's), (54, 40332), (88, 40482), (90, 40485), (123, 40611),

Gene: DrSierra_60 Start: 40611, Stop: 40967, Start Num: 28

Candidate Starts for DrSierra_60:

(Start: 28 @40611 has 31 MA's), (66, 40704), (133, 40953),

Gene: Drake94_65 Start: 41184, Stop: 40807, Start Num: 20

Candidate Starts for Drake94_65:

(Start: 20 @41184 has 4 MA's), (Start: 33 @41151 has 1 MA's), (Start: 48 @41133 has 32 MA's), (68, 41061), (100, 40923), (124, 40848), (130, 40824),

Gene: DreamTeam_55 Start: 40683, Stop: 41033, Start Num: 40

Candidate Starts for DreamTeam_55:

(Start: 40 @40683 has 27 MA's), (54, 40713), (58, 40734), (64, 40755), (84, 40839), (90, 40866), (103, 40926), (109, 40941), (112, 40956), (120, 40983), (121, 40986),

Gene: DreamTeam1_74 Start: 44663, Stop: 44310, Start Num: 38

Candidate Starts for DreamTeam1_74:

(6, 44888), (Start: 38 @44663 has 2 MA's), (79, 44525), (107, 44411), (115, 44384), (120, 44366), (126, 44348), (127, 44339),

Gene: Dryad_65 Start: 44270, Stop: 43926, Start Num: 40

Candidate Starts for Dryad_65:

(18, 44351), (Start: 40 @44270 has 27 MA's), (66, 44198), (71, 44177), (76, 44153), (109, 44033), (115, 44006), (120, 43988), (133, 43946),

Gene: Dubu_29 Start: 22724, Stop: 23071, Start Num: 40

Candidate Starts for Dubu_29:

(9, 22547), (13, 22595), (15, 22625), (26, 22697), (Start: 40 @22724 has 27 MA's), (Start: 45 @22727 has 1 MA's), (95, 22922), (96, 22925),

Gene: Dulcita_42 Start: 33797, Stop: 33453, Start Num: 44

Candidate Starts for Dulcita_42:

(Start: 44 @33797 has 34 MA's), (75, 33680), (94, 33605), (107, 33551),

Gene: DustyMartin_69 Start: 42169, Stop: 41843, Start Num: 48

Candidate Starts for DustyMartin_69:

(Start: 20 @42220 has 4 MA's), (Start: 33 @42187 has 1 MA's), (Start: 48 @42169 has 32 MA's), (68, 42097), (100, 41959), (124, 41884),

Gene: Eaglepride_69 Start: 42138, Stop: 41791, Start Num: 33

Candidate Starts for Eaglepride_69:

(Start: 20 @42171 has 4 MA's), (Start: 33 @42138 has 1 MA's), (Start: 48 @42120 has 32 MA's), (75, 42009), (124, 41832),

Gene: Elezi_62 Start: 41480, Stop: 41836, Start Num: 28

Candidate Starts for Elezi_62:

(Start: 28 @41480 has 31 MA's), (78, 41630), (121, 41783), (133, 41822),

Gene: Elfy_75 Start: 42768, Stop: 43112, Start Num: 42

Candidate Starts for Elfy_75:

(Start: 42 @42768 has 1 MA's), (69, 42855), (72, 42879), (82, 42918), (88, 42945), (94, 42969), (97, 42981), (120, 43056),

Gene: Eraser_63 Start: 41730, Stop: 42086, Start Num: 28

Candidate Starts for Eraser_63:

(Start: 28 @41730 has 31 MA's), (121, 42033), (133, 42072),

Gene: Erenyeager_103 Start: 54096, Stop: 53773, Start Num: 46

Candidate Starts for Erenyeager_103:

(Start: 46 @54096 has 16 MA's), (52, 54081), (66, 54027), (85, 53955), (89, 53934), (104, 53877), (111, 53856), (117, 53841), (126, 53811), (128, 53799), (130, 53793), (133, 53787),

Gene: EricB_79 Start: 44908, Stop: 44573, Start Num: 49

Candidate Starts for EricB_79:

(21, 44956), (Start: 48 @44911 has 32 MA's), (Start: 49 @44908 has 8 MA's), (87, 44752), (113, 44653),

Gene: Exile_58 Start: 42771, Stop: 43118, Start Num: 31

Candidate Starts for Exile_58:

(Start: 31 @42771 has 1 MA's), (57, 42819), (116, 43050), (131, 43101),

Gene: Ezurina_58 Start: 36258, Stop: 35881, Start Num: 23

Candidate Starts for Ezurina_58:

(Start: 23 @36258 has 4 MA's), (36, 36237), (62, 36174), (113, 35961),

Gene: Finch_218 Start: 126837, Stop: 127232, Start Num: 25

Candidate Starts for Finch_218:

(Start: 25 @126837 has 2 MA's), (79, 127002), (83, 127017), (106, 127122), (108, 127128), (119, 127167), (120, 127176),

Gene: Fluke_58 Start: 42001, Stop: 42345, Start Num: 40

Candidate Starts for Fluke_58:

(Start: 40 @42001 has 27 MA's), (54, 42025), (90, 42178), (103, 42238), (112, 42268), (120, 42295),

Gene: Flutur_63 Start: 42059, Stop: 42415, Start Num: 28

Candidate Starts for Flutur_63:

(Start: 28 @42059 has 31 MA's), (121, 42362), (133, 42401),

Gene: Fork_99 Start: 54049, Stop: 53726, Start Num: 46

Candidate Starts for Fork_99:

(Start: 46 @54049 has 16 MA's), (52, 54034), (66, 53980), (85, 53908), (89, 53887), (104, 53830), (111, 53809), (117, 53794), (126, 53764), (128, 53752), (130, 53746), (133, 53740),

Gene: FreakyGoo_42 Start: 33797, Stop: 33453, Start Num: 44

Candidate Starts for FreakyGoo_42:

(Start: 44 @33797 has 34 MA's), (75, 33680), (94, 33605), (107, 33551),

Gene: Gagieri_74 Start: 55043, Stop: 54696, Start Num: 40

Candidate Starts for Gagieri_74:

(Start: 40 @55043 has 27 MA's), (83, 54893), (115, 54776), (120, 54752),

Gene: Garak_81 Start: 45075, Stop: 44734, Start Num: 48

Candidate Starts for Garak_81:

(Start: 46 @45078 has 16 MA's), (Start: 48 @45075 has 32 MA's), (107, 44838), (113, 44817), (127, 44763),

Gene: Gerri43_58 Start: 35358, Stop: 34981, Start Num: 23

Candidate Starts for Gerri43_58:

(Start: 23 @35358 has 4 MA's), (103, 35094), (113, 35061),

Gene: Gibson_61 Start: 43510, Stop: 43169, Start Num: 40

Candidate Starts for Gibson_61:

(Start: 40 @43510 has 27 MA's), (66, 43438), (71, 43417), (120, 43228), (133, 43186),

Gene: Gisselle_55 Start: 40683, Stop: 41033, Start Num: 40

Candidate Starts for Gisselle_55:

(Start: 40 @40683 has 27 MA's), (54, 40713), (58, 40734), (64, 40755), (84, 40839), (90, 40866), (103, 40926), (109, 40941), (112, 40956), (120, 40983), (121, 40986),

Gene: Glaske16_42 Start: 33796, Stop: 33452, Start Num: 44

Candidate Starts for Glaske16_42:

(Start: 44 @33796 has 34 MA's), (75, 33679), (94, 33604), (107, 33550),

Gene: Glenn_59 Start: 42462, Stop: 42806, Start Num: 40

Candidate Starts for Glenn_59:

(Start: 40 @42462 has 27 MA's), (54, 42486), (90, 42639), (103, 42699), (112, 42729), (120, 42756),

Gene: Goose_68 Start: 41832, Stop: 41503, Start Num: 48

Candidate Starts for Goose_68:

(Start: 48 @41832 has 32 MA's), (100, 41619), (124, 41544),

Gene: Graynor_61 Start: 41502, Stop: 41837, Start Num: 44

Candidate Starts for Graynor_61:

(Start: 44 @41502 has 34 MA's), (90, 41670), (103, 41730), (112, 41760), (120, 41787), (121, 41790),

Gene: GreedyLawyer_75 Start: 44881, Stop: 44546, Start Num: 49

Candidate Starts for GreedyLawyer_75:

(21, 44929), (Start: 48 @44884 has 32 MA's), (Start: 49 @44881 has 8 MA's), (87, 44725), (113, 44626),

Gene: Greenbelt_58 Start: 39592, Stop: 39260, Start Num: 40

Candidate Starts for Greenbelt_58:

(Start: 40 @39592 has 27 MA's), (96, 39394), (122, 39307), (130, 39277), (133, 39271),

Gene: HeadNerd_55 Start: 40416, Stop: 40766, Start Num: 37

Candidate Starts for HeadNerd_55:

(Start: 12 @40293 has 1 MA's), (19, 40368), (Start: 37 @40416 has 16 MA's), (88, 40593), (90, 40596), (123, 40722),

Gene: Helmet_82 Start: 45075, Stop: 44734, Start Num: 48

Candidate Starts for Helmet_82:

(Start: 46 @45078 has 16 MA's), (Start: 48 @45075 has 32 MA's), (107, 44838), (113, 44817), (127, 44763),

Gene: Herb_55 Start: 41676, Stop: 42017, Start Num: 44

Candidate Starts for Herb_55:

(Start: 44 @41676 has 34 MA's), (90, 41847), (94, 41868), (103, 41901), (121, 41964), (125, 41976),

Gene: Hexamo_79 Start: 44613, Stop: 44269, Start Num: 46

Candidate Starts for Hexamo_79:

(29, 44637), (Start: 46 @44613 has 16 MA's), (Start: 48 @44610 has 32 MA's), (107, 44373), (113, 44352), (127, 44298),

Gene: HollowPurple_104 Start: 54710, Stop: 54387, Start Num: 46

Candidate Starts for HollowPurple_104:

(Start: 46 @54710 has 16 MA's), (52, 54695), (66, 54641), (85, 54569), (89, 54548), (104, 54491), (111, 54470), (117, 54455), (126, 54425), (128, 54413), (130, 54407), (133, 54401),

Gene: Hoot_75 Start: 42769, Stop: 42431, Start Num: 48

Candidate Starts for Hoot_75:

(21, 42814), (Start: 48 @42769 has 32 MA's), (Start: 49 @42766 has 8 MA's), (87, 42610), (113, 42511),

Gene: Huckleberry_55 Start: 40420, Stop: 40770, Start Num: 37

Candidate Starts for Huckleberry_55:

(Start: 12 @40297 has 1 MA's), (19, 40372), (Start: 37 @40420 has 16 MA's), (88, 40597), (90, 40600), (123, 40726),

Gene: IPHane7_41 Start: 33797, Stop: 33453, Start Num: 44

Candidate Starts for IPHane7_41:

(Start: 44 @33797 has 34 MA's), (75, 33680), (94, 33605), (107, 33551),

Gene: Imbriano_76 Start: 45757, Stop: 45419, Start Num: 48

Candidate Starts for Imbriano_76:

(21, 45802), (Start: 48 @45757 has 32 MA's), (Start: 49 @45754 has 8 MA's), (87, 45598), (113, 45499),

Gene: Indra_83 Start: 45076, Stop: 44735, Start Num: 48

Candidate Starts for Indra_83:

(Start: 46 @45079 has 16 MA's), (Start: 48 @45076 has 32 MA's), (107, 44839), (113, 44818), (127, 44764),

Gene: Isiphiwo_77 Start: 44936, Stop: 44598, Start Num: 49

Candidate Starts for Isiphiwo_77:

(21, 44984), (Start: 48 @44939 has 32 MA's), (Start: 49 @44936 has 8 MA's), (65, 44873), (105, 44705),

Gene: Issa7_102 Start: 54064, Stop: 53741, Start Num: 46

Candidate Starts for Issa7_102:

(Start: 46 @54064 has 16 MA's), (52, 54049), (66, 53995), (85, 53923), (89, 53902), (104, 53845), (111, 53824), (117, 53809), (126, 53779), (128, 53767), (130, 53761), (133, 53755),

Gene: Iter_64 Start: 41985, Stop: 42341, Start Num: 28

Candidate Starts for Iter_64:

(Start: 28 @41985 has 31 MA's), (78, 42135), (133, 42327),

Gene: IttyBittyPiggy_64 Start: 40207, Stop: 40560, Start Num: 28

Candidate Starts for IttyBittyPiggy_64:

(Start: 28 @40207 has 31 MA's), (103, 40450), (121, 40507), (133, 40546),

Gene: Izel_42 Start: 33796, Stop: 33452, Start Num: 44

Candidate Starts for Izel_42:

(Start: 44 @33796 has 34 MA's), (75, 33679), (94, 33604), (107, 33550),

Gene: Jacko_98 Start: 53745, Stop: 53389, Start Num: 34

Candidate Starts for Jacko_98:

(Start: 34 @53745 has 1 MA's), (Start: 48 @53721 has 32 MA's), (58, 53685), (71, 53631), (74, 53622), (85, 53583), (86, 53571), (89, 53559), (101, 53505), (104, 53499), (112, 53472), (132, 53406),

Gene: Janeemi_62 Start: 41595, Stop: 41951, Start Num: 28

Candidate Starts for Janeemi_62:

(Start: 28 @41595 has 31 MA's), (36, 41607), (133, 41937),

Gene: Joemato_65 Start: 41955, Stop: 42311, Start Num: 28

Candidate Starts for Joemato_65:

(Start: 28 @41955 has 31 MA's), (103, 42201), (121, 42258), (133, 42297),

Gene: JohnDoe_64 Start: 41872, Stop: 42228, Start Num: 28

Candidate Starts for JohnDoe_64:

(Start: 28 @41872 has 31 MA's), (103, 42118), (121, 42175), (133, 42214),

Gene: Jordennis_78 Start: 45151, Stop: 44813, Start Num: 48

Candidate Starts for Jordennis_78:

(21, 45196), (Start: 48 @45151 has 32 MA's), (Start: 49 @45148 has 8 MA's), (59, 45109), (70, 45064), (105, 44917),

Gene: Jstan_64 Start: 41484, Stop: 41840, Start Num: 28

Candidate Starts for Jstan_64:

(Start: 28 @41484 has 31 MA's), (78, 41634), (121, 41787), (133, 41826),

Gene: Kaylissa_65 Start: 42234, Stop: 42590, Start Num: 28

Candidate Starts for Kaylissa_65:

(Start: 28 @42234 has 31 MA's), (Start: 49 @42264 has 8 MA's), (121, 42537), (133, 42576),

Gene: Kazan_81 Start: 44924, Stop: 44586, Start Num: 48

Candidate Starts for Kazan_81:

(21, 44969), (Start: 48 @44924 has 32 MA's), (Start: 49 @44921 has 8 MA's), (87, 44765), (113, 44666),

Gene: KingBob_55 Start: 41677, Stop: 42018, Start Num: 44

Candidate Starts for KingBob_55:

(Start: 44 @41677 has 34 MA's), (90, 41848), (94, 41869), (103, 41902), (121, 41965), (125, 41977),

Gene: Kipper29_80 Start: 44934, Stop: 44599, Start Num: 49

Candidate Starts for Kipper29_80:

(21, 44982), (Start: 48 @44937 has 32 MA's), (Start: 49 @44934 has 8 MA's), (87, 44778), (113, 44679),

Gene: KittenMittens_64 Start: 41141, Stop: 40815, Start Num: 48

Candidate Starts for KittenMittens_64:

(Start: 20 @41192 has 4 MA's), (Start: 33 @41159 has 1 MA's), (Start: 48 @41141 has 32 MA's), (68, 41069), (100, 40931), (124, 40856), (130, 40832),

Gene: KleverKiS_42 Start: 33777, Stop: 33433, Start Num: 44

Candidate Starts for KleverKiS_42:

(Start: 44 @33777 has 34 MA's), (75, 33660), (94, 33585), (107, 33531),

Gene: Klodlith_75 Start: 44882, Stop: 44529, Start Num: 39

Candidate Starts for Klodlith_75:

(6, 45110), (Start: 39 @44882 has 2 MA's), (79, 44744), (107, 44630), (115, 44603), (120, 44585), (126, 44567), (127, 44558),

Gene: Koko_81 Start: 45465, Stop: 45124, Start Num: 48

Candidate Starts for Koko_81:

(Start: 46 @45468 has 16 MA's), (Start: 48 @45465 has 32 MA's), (107, 45228), (113, 45207), (127, 45153),

Gene: Korra_59 Start: 41736, Stop: 42080, Start Num: 40

Candidate Starts for Korra_59:

(Start: 40 @41736 has 27 MA's), (54, 41760), (90, 41913), (103, 41973), (112, 42003), (120, 42030),

Gene: Kristoff_66 Start: 42458, Stop: 42129, Start Num: 48

Candidate Starts for Kristoff_66:

(Start: 20 @42509 has 4 MA's), (Start: 33 @42476 has 1 MA's), (Start: 48 @42458 has 32 MA's), (100, 42245), (124, 42170),

Gene: Lasagna_54 Start: 40307, Stop: 40657, Start Num: 37

Candidate Starts for Lasagna_54:

(Start: 37 @40307 has 16 MA's), (58, 40355), (88, 40484), (90, 40487), (123, 40613),

Gene: Lego_63 Start: 41553, Stop: 41909, Start Num: 28

Candidate Starts for Lego_63:

(Start: 28 @41553 has 31 MA's), (Start: 49 @41583 has 8 MA's), (121, 41856), (133, 41895),

Gene: Lennox_56 Start: 40792, Stop: 41142, Start Num: 37

Candidate Starts for Lennox_56:

(Start: 37 @40792 has 16 MA's), (58, 40840), (88, 40969), (90, 40972), (123, 41098),

Gene: LilStuart_55 Start: 40655, Stop: 41005, Start Num: 37

Candidate Starts for LilStuart_55:

(Start: 37 @40655 has 16 MA's), (58, 40703), (88, 40832), (90, 40835), (123, 40961),

Gene: Lilbunny_79 Start: 44707, Stop: 44366, Start Num: 48

Candidate Starts for Lilbunny_79:

(Start: 46 @44710 has 16 MA's), (Start: 48 @44707 has 32 MA's), (107, 44470), (113, 44449), (127, 44395),

Gene: LilhomieP_40 Start: 33797, Stop: 33453, Start Num: 44

Candidate Starts for LilhomieP_40:

(Start: 44 @33797 has 34 MA's), (75, 33680), (94, 33605), (107, 33551),

Gene: Litotes_57 Start: 41464, Stop: 41799, Start Num: 44

Candidate Starts for Litotes_57:

(Start: 44 @41464 has 34 MA's), (90, 41632), (103, 41692), (112, 41722), (120, 41749), (121, 41752), (130, 41785),

Gene: Lizalica_63 Start: 41149, Stop: 41505, Start Num: 28

Candidate Starts for Lizalica_63:

(Start: 28 @41149 has 31 MA's), (121, 41452), (133, 41491),

Gene: Lizz_61 Start: 43350, Stop: 43009, Start Num: 40

Candidate Starts for Lizz_61:

(18, 43431), (Start: 40 @43350 has 27 MA's), (66, 43278), (71, 43257), (109, 43113), (120, 43068), (133, 43026),

Gene: London_63 Start: 41721, Stop: 42077, Start Num: 28

Candidate Starts for London_63:

(Start: 28 @41721 has 31 MA's), (121, 42024), (133, 42063),

Gene: Lucy_55 Start: 40650, Stop: 41000, Start Num: 37

Candidate Starts for Lucy_55:

(Start: 37 @40650 has 16 MA's), (58, 40698), (88, 40827), (90, 40830), (123, 40956),

Gene: Lukepolites_35 Start: 27976, Stop: 28326, Start Num: 56

Candidate Starts for Lukepolites_35:

(1, 27541), (10, 27766), (17, 27841), (51, 27958), (56, 27976), (63, 28003), (80, 28087), (110, 28225), (111, 28231),

Gene: Makoto_55 Start: 40551, Stop: 40898, Start Num: 40

Candidate Starts for Makoto_55:

(Start: 40 @40551 has 27 MA's), (54, 40575), (88, 40725), (90, 40728), (123, 40854),

Gene: Maria1952_54 Start: 41676, Stop: 42017, Start Num: 44
Candidate Starts for Maria1952_54:
(Start: 44 @41676 has 34 MA's), (90, 41847), (94, 41868), (103, 41901), (121, 41964), (125, 41976),

Gene: Maselop_76 Start: 55289, Stop: 54909, Start Num: 40
Candidate Starts for Maselop_76:
(5, 55586), (7, 55523), (9, 55463), (11, 55427), (22, 55325), (Start: 40 @55289 has 27 MA's), (83, 55139),

Gene: MegTheThird_75 Start: 44883, Stop: 44533, Start Num: 39
Candidate Starts for MegTheThird_75:
(6, 45111), (Start: 39 @44883 has 2 MA's), (72, 44772), (79, 44748), (107, 44634), (115, 44607), (120, 44589), (126, 44571), (127, 44562),

Gene: MeganNoll_58 Start: 42247, Stop: 42582, Start Num: 44
Candidate Starts for MeganNoll_58:
(Start: 44 @42247 has 34 MA's), (64, 42304), (90, 42415), (103, 42475), (112, 42505), (120, 42532),

Gene: Michkear_67 Start: 44542, Stop: 44877, Start Num: 44
Candidate Starts for Michkear_67:
(8, 44314), (16, 44443), (Start: 44 @44542 has 34 MA's), (50, 44554), (109, 44782), (129, 44854),

Gene: MissSwiss_64 Start: 40483, Stop: 40842, Start Num: 27
Candidate Starts for MissSwiss_64:
(Start: 27 @40483 has 8 MA's), (133, 40828),

Gene: Mistmere_97 Start: 52832, Stop: 52509, Start Num: 47
Candidate Starts for Mistmere_97:
(47, 52832), (85, 52691), (100, 52622), (117, 52577), (126, 52547), (133, 52523),

Gene: Moki_55 Start: 40609, Stop: 40959, Start Num: 37
Candidate Starts for Moki_55:
(Start: 12 @40486 has 1 MA's), (19, 40561), (Start: 37 @40609 has 16 MA's), (88, 40786), (90, 40789), (123, 40915),

Gene: MrBoss_60 Start: 41258, Stop: 41593, Start Num: 44
Candidate Starts for MrBoss_60:
(Start: 44 @41258 has 34 MA's), (90, 41426), (103, 41486), (112, 41516), (120, 41543), (121, 41546), (130, 41579),

Gene: MrGloopy_58 Start: 41899, Stop: 42234, Start Num: 44
Candidate Starts for MrGloopy_58:
(Start: 44 @41899 has 34 MA's), (64, 41956), (90, 42067), (91, 42070), (103, 42127), (112, 42157), (120, 42184),

Gene: Mudpuppy_62 Start: 41921, Stop: 42277, Start Num: 28
Candidate Starts for Mudpuppy_62:
(Start: 28 @41921 has 31 MA's), (121, 42224), (133, 42263),

Gene: Nancia_56 Start: 40943, Stop: 41293, Start Num: 37
Candidate Starts for Nancia_56:
(Start: 37 @40943 has 16 MA's), (58, 40991), (88, 41120), (90, 41123), (123, 41249),

Gene: Nanosmite_47 Start: 34908, Stop: 34564, Start Num: 44

Candidate Starts for Nanosmite_47:

(Start: 44 @34908 has 34 MA's), (55, 34878), (87, 34743), (94, 34716), (107, 34662),

Gene: Necrophoxinus_105 Start: 54949, Stop: 54626, Start Num: 46

Candidate Starts for Necrophoxinus_105:

(Start: 46 @54949 has 16 MA's), (52, 54934), (66, 54880), (85, 54808), (89, 54787), (104, 54730), (111, 54709), (117, 54694), (126, 54664), (128, 54652), (130, 54646), (133, 54640),

Gene: Neeharika16_79 Start: 45023, Stop: 44682, Start Num: 48

Candidate Starts for Neeharika16_79:

(21, 45068), (Start: 48 @45023 has 32 MA's), (Start: 49 @45020 has 8 MA's), (105, 44789),

Gene: Nesbitt_47 Start: 34330, Stop: 34704, Start Num: 24

Candidate Starts for Nesbitt_47:

(Start: 24 @34330 has 1 MA's), (81, 34498), (105, 34594), (109, 34603), (115, 34627),

Gene: Neuville_58 Start: 35358, Stop: 34981, Start Num: 23

Candidate Starts for Neuville_58:

(Start: 23 @35358 has 4 MA's), (103, 35094), (113, 35061),

Gene: Newrala_79 Start: 45359, Stop: 45021, Start Num: 48

Candidate Starts for Newrala_79:

(21, 45404), (Start: 48 @45359 has 32 MA's), (Start: 49 @45356 has 8 MA's), (65, 45293), (113, 45101),

Gene: Niobe_63 Start: 41724, Stop: 42080, Start Num: 28

Candidate Starts for Niobe_63:

(Start: 28 @41724 has 31 MA's), (121, 42027), (133, 42066),

Gene: Nitro_64 Start: 42421, Stop: 42777, Start Num: 28

Candidate Starts for Nitro_64:

(Start: 28 @42421 has 31 MA's), (103, 42667), (121, 42724), (133, 42763),

Gene: ObiToo_68 Start: 42061, Stop: 42417, Start Num: 28

Candidate Starts for ObiToo_68:

(Start: 28 @42061 has 31 MA's), (78, 42211), (103, 42307), (123, 42370), (133, 42403),

Gene: OurGirlNessie_54 Start: 40272, Stop: 40622, Start Num: 37

Candidate Starts for OurGirlNessie_54:

(Start: 37 @40272 has 16 MA's), (88, 40449), (90, 40452), (121, 40572),

Gene: Oxynfrius_58 Start: 42154, Stop: 42504, Start Num: 40

Candidate Starts for Oxynfrius_58:

(Start: 40 @42154 has 27 MA's), (54, 42184), (58, 42205), (84, 42310), (90, 42337), (103, 42397), (109, 42412), (112, 42427), (120, 42454), (121, 42457),

Gene: PHTown_61 Start: 43348, Stop: 43007, Start Num: 40

Candidate Starts for PHTown_61:

(18, 43429), (Start: 40 @43348 has 27 MA's), (66, 43276), (71, 43255), (109, 43111), (120, 43066), (133, 43024),

Gene: PandaPo_64 Start: 40490, Stop: 40849, Start Num: 27

Candidate Starts for PandaPo_64:
(Start: 27 @40490 has 8 MA's), (133, 40835),

Gene: PartyCup_59 Start: 42112, Stop: 42447, Start Num: 44
Candidate Starts for PartyCup_59:
(Start: 44 @42112 has 34 MA's), (90, 42280), (103, 42340), (112, 42370), (120, 42397), (121, 42400),
(130, 42433),

Gene: PeaceMeal1_65 Start: 41193, Stop: 40816, Start Num: 20
Candidate Starts for PeaceMeal1_65:
(Start: 20 @41193 has 4 MA's), (Start: 33 @41160 has 1 MA's), (Start: 48 @41142 has 32 MA's), (68,
41070), (100, 40932), (124, 40857), (130, 40833),

Gene: PegLeg_41 Start: 33796, Stop: 33452, Start Num: 44
Candidate Starts for PegLeg_41:
(Start: 44 @33796 has 34 MA's), (75, 33679), (94, 33604), (107, 33550),

Gene: Pharaoh_73 Start: 45524, Stop: 45174, Start Num: 41
Candidate Starts for Pharaoh_73:
(Start: 41 @45524 has 3 MA's), (75, 45404), (95, 45323), (97, 45317), (107, 45275), (121, 45227),

Gene: Phives_64 Start: 42209, Stop: 42565, Start Num: 28
Candidate Starts for Phives_64:
(Start: 28 @42209 has 31 MA's), (36, 42221), (107, 42464), (133, 42551),

Gene: Phrappuccino_184 Start: 119829, Stop: 120152, Start Num: 53
Candidate Starts for Phrappuccino_184:
(14, 119691), (Start: 53 @119829 has 1 MA's), (75, 119928), (87, 119976), (94, 119997), (124,
120105),

Gene: PitaDog_56 Start: 40668, Stop: 41018, Start Num: 37
Candidate Starts for PitaDog_56:
(Start: 37 @40668 has 16 MA's), (88, 40845), (90, 40848), (123, 40974),

Gene: Pmask_79 Start: 45560, Stop: 45219, Start Num: 48
Candidate Starts for Pmask_79:
(21, 45605), (Start: 48 @45560 has 32 MA's), (Start: 49 @45557 has 8 MA's), (105, 45326),

Gene: Polyuki_76 Start: 55281, Stop: 54901, Start Num: 40
Candidate Starts for Polyuki_76:
(Start: 40 @55281 has 27 MA's), (83, 55131),

Gene: Poompha_64 Start: 41191, Stop: 40814, Start Num: 20
Candidate Starts for Poompha_64:
(Start: 20 @41191 has 4 MA's), (Start: 33 @41158 has 1 MA's), (Start: 48 @41140 has 32 MA's), (68,
41068), (100, 40930), (124, 40855), (130, 40831),

Gene: Powerpuff_65 Start: 42757, Stop: 43113, Start Num: 28
Candidate Starts for Powerpuff_65:
(Start: 28 @42757 has 31 MA's), (121, 43060), (133, 43099),

Gene: Preamble_57 Start: 40868, Stop: 41209, Start Num: 41
Candidate Starts for Preamble_57:

(Start: 41 @40868 has 3 MA's), (88, 41039), (109, 41114), (120, 41156), (121, 41159),

Gene: Pterodactyl_56 Start: 40909, Stop: 41259, Start Num: 37

Candidate Starts for Pterodactyl_56:

(Start: 37 @40909 has 16 MA's), (88, 41086), (90, 41089), (123, 41215),

Gene: RAP15_59 Start: 42248, Stop: 42583, Start Num: 44

Candidate Starts for RAP15_59:

(Start: 44 @42248 has 34 MA's), (64, 42305), (90, 42416), (103, 42476), (112, 42506), (120, 42533),

Gene: Rebeuca_68 Start: 42459, Stop: 42130, Start Num: 48

Candidate Starts for Rebeuca_68:

(Start: 20 @42510 has 4 MA's), (Start: 33 @42477 has 1 MA's), (Start: 48 @42459 has 32 MA's), (100, 42246), (124, 42171),

Gene: Refuge_76 Start: 46852, Stop: 46505, Start Num: 41

Candidate Starts for Refuge_76:

(2, 47230), (4, 47179), (Start: 41 @46852 has 3 MA's), (60, 46795), (98, 46639), (100, 46624), (115, 46579), (120, 46561), (133, 46519),

Gene: Reindeer_42 Start: 34429, Stop: 34085, Start Num: 44

Candidate Starts for Reindeer_42:

(32, 34447), (Start: 44 @34429 has 34 MA's), (94, 34237), (107, 34183),

Gene: Rifter_80 Start: 44237, Stop: 43896, Start Num: 48

Candidate Starts for Rifter_80:

(29, 44264), (Start: 46 @44240 has 16 MA's), (Start: 48 @44237 has 32 MA's), (107, 44000), (113, 43979), (127, 43925),

Gene: Roberts_59 Start: 35358, Stop: 34981, Start Num: 23

Candidate Starts for Roberts_59:

(Start: 23 @35358 has 4 MA's), (103, 35094), (113, 35061),

Gene: Roksolana_80 Start: 44971, Stop: 44630, Start Num: 48

Candidate Starts for Roksolana_80:

(Start: 46 @44974 has 16 MA's), (Start: 48 @44971 has 32 MA's), (107, 44734), (113, 44713), (127, 44659),

Gene: Rooney_61 Start: 43507, Stop: 43166, Start Num: 40

Candidate Starts for Rooney_61:

(Start: 40 @43507 has 27 MA's), (66, 43435), (71, 43414), (120, 43225), (133, 43183),

Gene: RoseMarie_47 Start: 37465, Stop: 37121, Start Num: 44

Candidate Starts for RoseMarie_47:

(19, 37519), (Start: 44 @37465 has 34 MA's), (94, 37273), (107, 37219),

Gene: Rowa_48 Start: 34719, Stop: 35042, Start Num: 48

Candidate Starts for Rowa_48:

(35, 34692), (Start: 48 @34719 has 32 MA's), (55, 34743), (67, 34788), (76, 34830), (82, 34851), (109, 34941), (130, 35022), (133, 35028),

Gene: Rowdy_69 Start: 42169, Stop: 41843, Start Num: 48

Candidate Starts for Rowdy_69:

(Start: 20 @42220 has 4 MA's), (Start: 33 @42187 has 1 MA's), (Start: 48 @42169 has 32 MA's), (68, 42097), (100, 41959), (124, 41884),

Gene: SassyC_66 Start: 44485, Stop: 44150, Start Num: 43

Candidate Starts for SassyC_66:

(30, 44500), (Start: 40 @44491 has 27 MA's), (Start: 43 @44485 has 1 MA's), (71, 44398), (76, 44374), (109, 44254), (120, 44209), (133, 44167),

Gene: Scuttle_57 Start: 41927, Stop: 42262, Start Num: 44

Candidate Starts for Scuttle_57:

(Start: 44 @41927 has 34 MA's), (64, 41984), (68, 42002), (90, 42095), (91, 42098), (103, 42155), (109, 42170), (120, 42212),

Gene: Sergei_55 Start: 41677, Stop: 42018, Start Num: 44

Candidate Starts for Sergei_55:

(Start: 44 @41677 has 34 MA's), (90, 41848), (94, 41869), (103, 41902), (121, 41965), (125, 41977),

Gene: Settecandela_209 Start: 128664, Stop: 128999, Start Num: 45

Candidate Starts for Settecandela_209:

(Start: 45 @128664 has 1 MA's), (75, 128775), (87, 128823), (94, 128844), (124, 128952),

Gene: Severus_65 Start: 41140, Stop: 40814, Start Num: 48

Candidate Starts for Severus_65:

(Start: 20 @41191 has 4 MA's), (Start: 33 @41158 has 1 MA's), (Start: 48 @41140 has 32 MA's), (68, 41068), (100, 40930), (124, 40855), (130, 40831),

Gene: ShakeNBake_61 Start: 43366, Stop: 43025, Start Num: 40

Candidate Starts for ShakeNBake_61:

(18, 43447), (Start: 40 @43366 has 27 MA's), (66, 43294), (71, 43273), (109, 43129), (120, 43084), (133, 43042),

Gene: Shapes_69 Start: 42169, Stop: 41843, Start Num: 48

Candidate Starts for Shapes_69:

(Start: 20 @42220 has 4 MA's), (Start: 33 @42187 has 1 MA's), (Start: 48 @42169 has 32 MA's), (68, 42097), (100, 41959), (124, 41884),

Gene: SheaKeira_74 Start: 44691, Stop: 44347, Start Num: 39

Candidate Starts for SheaKeira_74:

(Start: 39 @44691 has 2 MA's), (100, 44463),

Gene: Shroomer_108 Start: 54550, Stop: 54227, Start Num: 46

Candidate Starts for Shroomer_108:

(Start: 46 @54550 has 16 MA's), (52, 54535), (66, 54481), (85, 54409), (89, 54388), (103, 54334), (111, 54310), (117, 54295), (126, 54265), (130, 54247), (133, 54241),

Gene: Simpson_69 Start: 41959, Stop: 42315, Start Num: 28

Candidate Starts for Simpson_69:

(Start: 28 @41959 has 31 MA's), (103, 42205), (121, 42262), (133, 42301),

Gene: Skelbel_64 Start: 41724, Stop: 42080, Start Num: 28

Candidate Starts for Skelbel_64:

(Start: 28 @41724 has 31 MA's), (121, 42027), (133, 42066),

Gene: Skinny_42 Start: 34226, Stop: 33882, Start Num: 44
Candidate Starts for Skinny_42:
(Start: 44 @34226 has 34 MA's), (75, 34109), (94, 34034), (107, 33980),

Gene: SlimJimmy_40 Start: 33780, Stop: 33436, Start Num: 44
Candidate Starts for SlimJimmy_40:
(Start: 44 @33780 has 34 MA's), (75, 33663), (94, 33588), (107, 33534),

Gene: SmellyB_80 Start: 44915, Stop: 44580, Start Num: 49
Candidate Starts for SmellyB_80:
(21, 44963), (Start: 48 @44918 has 32 MA's), (Start: 49 @44915 has 8 MA's), (87, 44759), (113, 44660),

Gene: Snek_63 Start: 39170, Stop: 39511, Start Num: 40
Candidate Starts for Snek_63:
(Start: 40 @39170 has 27 MA's), (126, 39473),

Gene: Soondubu_60 Start: 43780, Stop: 44127, Start Num: 31
Candidate Starts for Soondubu_60:
(Start: 31 @43780 has 1 MA's), (116, 44059), (131, 44110),

Gene: SteakFry_106 Start: 54710, Stop: 54387, Start Num: 46
Candidate Starts for SteakFry_106:
(Start: 46 @54710 has 16 MA's), (52, 54695), (66, 54641), (85, 54569), (89, 54548), (104, 54491), (111, 54470), (117, 54455), (126, 54425), (128, 54413), (130, 54407), (133, 54401),

Gene: StevieWelch_103 Start: 54233, Stop: 53910, Start Num: 46
Candidate Starts for StevieWelch_103:
(Start: 46 @54233 has 16 MA's), (52, 54218), (66, 54164), (85, 54092), (89, 54071), (104, 54014), (111, 53993), (117, 53978), (126, 53948), (128, 53936), (130, 53930), (133, 53924),

Gene: Studio_60 Start: 36548, Stop: 36171, Start Num: 23
Candidate Starts for Studio_60:
(Start: 23 @36548 has 4 MA's), (69, 36437), (73, 36410), (77, 36392), (82, 36377), (99, 36299), (103, 36284), (113, 36251),

Gene: Subaru_62 Start: 41480, Stop: 41836, Start Num: 28
Candidate Starts for Subaru_62:
(Start: 28 @41480 has 31 MA's), (78, 41630), (121, 41783), (133, 41822),

Gene: Sue2_61 Start: 40180, Stop: 40542, Start Num: 27
Candidate Starts for Sue2_61:
(Start: 27 @40180 has 8 MA's), (Start: 49 @40213 has 8 MA's), (103, 40429), (115, 40465),

Gene: SuperAwesome_80 Start: 45599, Stop: 45258, Start Num: 48
Candidate Starts for SuperAwesome_80:
(21, 45644), (Start: 48 @45599 has 32 MA's), (Start: 49 @45596 has 8 MA's), (105, 45365),

Gene: SuperCallie99_77 Start: 45440, Stop: 45102, Start Num: 48
Candidate Starts for SuperCallie99_77:
(21, 45485), (Start: 48 @45440 has 32 MA's), (Start: 49 @45437 has 8 MA's), (87, 45281), (113, 45182),

Gene: Suppi_58 Start: 41917, Stop: 42252, Start Num: 44
Candidate Starts for Suppi_58:
(Start: 44 @41917 has 34 MA's), (90, 42085), (103, 42145), (112, 42175), (120, 42202), (121, 42205),
(130, 42238),

Gene: TPA2_52 Start: 39328, Stop: 38936, Start Num: 28
Candidate Starts for TPA2_52:
(Start: 28 @39328 has 31 MA's), (79, 39178), (92, 39118), (102, 39067), (118, 39013),

Gene: Tallboi_63 Start: 41726, Stop: 42082, Start Num: 28
Candidate Starts for Tallboi_63:
(Start: 28 @41726 has 31 MA's), (103, 41972), (121, 42029), (133, 42068),

Gene: Tbone_63 Start: 42208, Stop: 42564, Start Num: 28
Candidate Starts for Tbone_63:
(Start: 28 @42208 has 31 MA's), (121, 42511), (133, 42550),

Gene: Temper16_55 Start: 41677, Stop: 42018, Start Num: 44
Candidate Starts for Temper16_55:
(Start: 44 @41677 has 34 MA's), (90, 41848), (94, 41869), (103, 41902), (121, 41965), (125, 41977),

Gene: Temprado_81 Start: 45075, Stop: 44734, Start Num: 48
Candidate Starts for Temprado_81:
(Start: 46 @45078 has 16 MA's), (Start: 48 @45075 has 32 MA's), (107, 44838), (113, 44817), (127, 44763),

Gene: ThursdayNight_68 Start: 43091, Stop: 43429, Start Num: 40
Candidate Starts for ThursdayNight_68:
(Start: 40 @43091 has 27 MA's), (112, 43349),

Gene: ToneTone_77 Start: 44635, Stop: 44294, Start Num: 48
Candidate Starts for ToneTone_77:
(Start: 46 @44638 has 16 MA's), (Start: 48 @44635 has 32 MA's), (107, 44398), (113, 44377), (127, 44323),

Gene: TpudiCK_43 Start: 33796, Stop: 33452, Start Num: 44
Candidate Starts for TpudiCK_43:
(Start: 44 @33796 has 34 MA's), (75, 33679), (94, 33604), (107, 33550),

Gene: Trike_64 Start: 41195, Stop: 40818, Start Num: 20
Candidate Starts for Trike_64:
(Start: 20 @41195 has 4 MA's), (Start: 33 @41162 has 1 MA's), (Start: 48 @41144 has 32 MA's), (68, 41072), (100, 40934), (124, 40859), (130, 40835),

Gene: Tuck_63 Start: 41997, Stop: 42353, Start Num: 28
Candidate Starts for Tuck_63:
(Start: 28 @41997 has 31 MA's), (36, 42009), (107, 42252), (133, 42339),

Gene: Tucker_80 Start: 44838, Stop: 44497, Start Num: 48
Candidate Starts for Tucker_80:
(Start: 46 @44841 has 16 MA's), (Start: 48 @44838 has 32 MA's), (107, 44601), (113, 44580), (127, 44526),

Gene: Turab_61 Start: 41182, Stop: 41538, Start Num: 28
Candidate Starts for Turab_61:
(Start: 28 @41182 has 31 MA's), (78, 41332), (121, 41485), (133, 41524),

Gene: Tutumahutu_65 Start: 41800, Stop: 42156, Start Num: 28
Candidate Starts for Tutumahutu_65:
(Start: 28 @41800 has 31 MA's), (121, 42103), (133, 42142),

Gene: Tweety19_64 Start: 39171, Stop: 39512, Start Num: 40
Candidate Starts for Tweety19_64:
(Start: 40 @39171 has 27 MA's), (126, 39474),

Gene: TyDawg_41 Start: 33797, Stop: 33453, Start Num: 44
Candidate Starts for TyDawg_41:
(Start: 44 @33797 has 34 MA's), (75, 33680), (94, 33605), (107, 33551),

Gene: Urla_56 Start: 41609, Stop: 41959, Start Num: 37
Candidate Starts for Urla_56:
(Start: 37 @41609 has 16 MA's), (58, 41657), (88, 41786), (90, 41789), (123, 41915),

Gene: VResidence_64 Start: 39888, Stop: 40247, Start Num: 27
Candidate Starts for VResidence_64:
(Start: 27 @39888 has 8 MA's), (78, 40041),

Gene: Virizion_66 Start: 43706, Stop: 43365, Start Num: 40
Candidate Starts for Virizion_66:
(Start: 40 @43706 has 27 MA's), (66, 43634), (71, 43613), (114, 43448), (120, 43424), (133, 43382),

Gene: VohminGhazi_80 Start: 44919, Stop: 44581, Start Num: 48
Candidate Starts for VohminGhazi_80:
(21, 44964), (Start: 48 @44919 has 32 MA's), (Start: 49 @44916 has 8 MA's), (87, 44760), (113, 44661),

Gene: Warda_64 Start: 41934, Stop: 42290, Start Num: 28
Candidate Starts for Warda_64:
(Start: 28 @41934 has 31 MA's), (121, 42237), (133, 42276),

Gene: Wayne_60 Start: 42374, Stop: 42709, Start Num: 44
Candidate Starts for Wayne_60:
(Start: 44 @42374 has 34 MA's), (90, 42542), (103, 42602), (112, 42632), (120, 42659), (121, 42662), (130, 42695),

Gene: Welcome_105 Start: 54864, Stop: 54541, Start Num: 46
Candidate Starts for Welcome_105:
(Start: 46 @54864 has 16 MA's), (52, 54849), (66, 54795), (85, 54723), (89, 54702), (104, 54645), (111, 54624), (117, 54609), (126, 54579), (128, 54567), (130, 54561), (133, 54555),

Gene: Wentworth_61 Start: 43514, Stop: 43179, Start Num: 43
Candidate Starts for Wentworth_61:
(30, 43529), (Start: 40 @43520 has 27 MA's), (Start: 43 @43514 has 1 MA's), (71, 43427), (76, 43403), (109, 43283), (115, 43256), (120, 43238), (133, 43196),

Gene: Wiks_79 Start: 44706, Stop: 44365, Start Num: 48

Candidate Starts for Wiks_79:

(Start: 46 @44709 has 16 MA's), (Start: 48 @44706 has 32 MA's), (107, 44469), (113, 44448), (127, 44394),

Gene: Wildwest_59 Start: 41597, Stop: 41956, Start Num: 27

Candidate Starts for Wildwest_59:

(Start: 27 @41597 has 8 MA's), (Start: 49 @41630 has 8 MA's), (121, 41903), (133, 41942),

Gene: Wilkos_63 Start: 43658, Stop: 43323, Start Num: 43

Candidate Starts for Wilkos_63:

(Start: 43 @43658 has 1 MA's), (61, 43601), (66, 43592), (71, 43571), (76, 43547), (97, 43463), (109, 43427), (115, 43400), (122, 43376), (133, 43340),

Gene: WunderPhul_80 Start: 44704, Stop: 44363, Start Num: 48

Candidate Starts for WunderPhul_80:

(Start: 46 @44707 has 16 MA's), (Start: 48 @44704 has 32 MA's), (107, 44467), (113, 44446), (127, 44392),

Gene: Yara_56 Start: 41985, Stop: 41650, Start Num: 40

Candidate Starts for Yara_56:

(Start: 40 @41985 has 27 MA's), (96, 41787), (109, 41751), (113, 41733), (133, 41664),

Gene: YesChef_63 Start: 41616, Stop: 41972, Start Num: 28

Candidate Starts for YesChef_63:

(Start: 28 @41616 has 31 MA's), (121, 41919), (133, 41958),

Gene: Yokurt_79 Start: 44709, Stop: 44365, Start Num: 46

Candidate Starts for Yokurt_79:

(Start: 46 @44709 has 16 MA's), (Start: 48 @44706 has 32 MA's), (107, 44469), (113, 44448), (127, 44394),

Gene: Zaka_80 Start: 44709, Stop: 44365, Start Num: 46

Candidate Starts for Zaka_80:

(Start: 46 @44709 has 16 MA's), (Start: 48 @44706 has 32 MA's), (107, 44469), (113, 44448), (127, 44394),

Gene: Zulu_81 Start: 45087, Stop: 44743, Start Num: 46

Candidate Starts for Zulu_81:

(Start: 46 @45087 has 16 MA's), (Start: 48 @45084 has 32 MA's), (107, 44847), (113, 44826), (127, 44772),