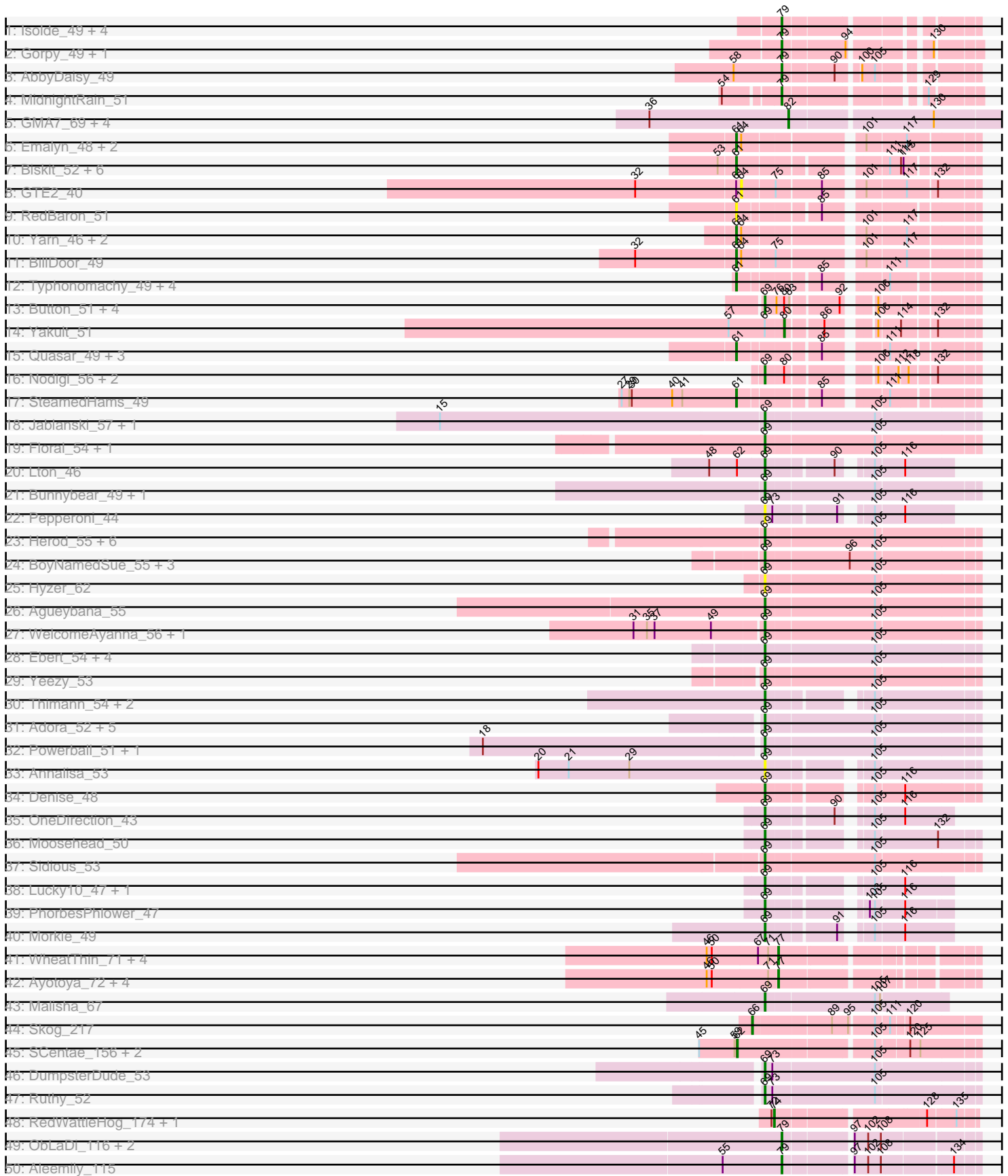
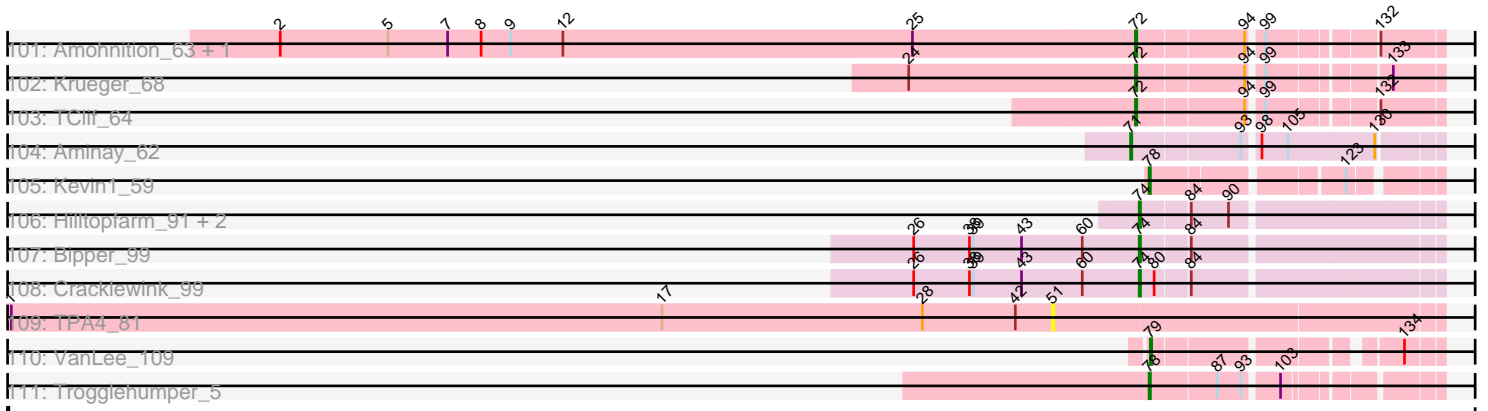


Pham 196222



Pham 196222



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 196222 Report

This analysis was run 12/09/24 on database version 580.

Pham number 196222 has 334 members, 23 are drafts.

Phages represented in each track:

- Track 1 : Isolde_49, Raphaella_49, Auxilium_46, Tiff81_50, YoungHarleezy_50
- Track 2 : Gorpy_49, Sakai_48
- Track 3 : AbbyDaisy_49
- Track 4 : MidnightRain_51
- Track 5 : GMA7_69, Amore2_80, Austin_79, HayZem_81, GTE7_68
- Track 6 : Emalyn_48, AikoCarson_50, Amok_50
- Track 7 : Biskit_52, Troje_52, SketchMex_50, Buttrmlkdreams_52, Horseradish_52, MScarn_54, Yummy_52
- Track 8 : GTE2_40
- Track 9 : RedBaron_51
- Track 10 : Yarn_46, AndPeggy_46, Tolls_50
- Track 11 : BillDoor_49
- Track 12 : Typhonmarchy_49, Burnsey_49, Agatha_49, Axym_48, Cozz_47
- Track 13 : Button_51, RanchParmCat_53, Margaret_54, GiKK_53, Jamzy_53
- Track 14 : Yakult_51
- Track 15 : Quasar_49, Nina_48, SweatNTears_51, MunkgeeRoachy_47
- Track 16 : Nodigi_56, Orla_56, Hexbug_56
- Track 17 : SteamedHams_49
- Track 18 : Jablanski_57, Pytheas_57
- Track 19 : Floral_54, Pollux_56
- Track 20 : Lton_46
- Track 21 : Bunnybear_49, Maridalia_57
- Track 22 : Pepperoni_44
- Track 23 : Herod_55, Eviarto_57, BatStarr_56, Hugley_53, Nymphadora_57, TimTam_57, PantheRoc_57
- Track 24 : BoyNamedSue_55, Marteena_52, AlumE_55, EMSquaredA_53
- Track 25 : Hyzer_62
- Track 26 : Agueybana_55
- Track 27 : WelcomeAyanna_56, ThankyouJordi_56
- Track 28 : Ebert_54, Cashline_53, BaxterFox_57, Ohgeesy_54, Madeline_54
- Track 29 : Yeezy_53
- Track 30 : Thimann_54, Easley_49, Oregano_54
- Track 31 : Adora_52, Shlim410_53, Twinkle_54, Mcklovin_51, Hortense_55, Howe_55
- Track 32 : Powerball_51, PhriskyACE_50
- Track 33 : Annalisa_53
- Track 34 : Denise_48

- Track 35 : OneDirection_43
- Track 36 : Moosehead_50
- Track 37 : Sidious_53
- Track 38 : Lucky10_47, Faith5x5_42
- Track 39 : PhorbPhlower_47
- Track 40 : Morkie_49
- Track 41 : WheatThin_71, Brylie_71, Nadeem_71, Parada_71, Mulch_71
- Track 42 : Ayotoya_72, GrandSlam_73, Hamood_73, DelRio_72, Chop_73
- Track 43 : Malisha_67
- Track 44 : Skog_217
- Track 45 : SCentae_156, CherryTomatoes_158, Pupper_157
- Track 46 : DumpsterDude_53
- Track 47 : Ruthy_52
- Track 48 : RedWattleHog_174, Stormageddon_175
- Track 49 : ObLaDi_116, Cafasso_117, ModicumRichard_117
- Track 50 : Aleemily_115
- Track 51 : Morgana_124
- Track 52 : Mercedes_58
- Track 53 : Hiddenleaf_77, JingleBells_76, PhunaPhoke_76, AnnaSerena_76, OverHedge_75, DannyDe_77, Potty_75, NarutoRun_76, Cybele_76, MortySmith_74, Pharpay_75, Krampus_76, JDawG_75, Neptune_76, Chivey_77, Erudite_75, Anakin_76, FreddieHg_77, CoolCookie_75, Haunter_77, Poultruss_75, Snakehole_77, Dauntless_75, Kate_76, Rachella_76, Gilda_76
- Track 54 : Crestdrop_77
- Track 55 : Tedro_76
- Track 56 : Hager_78, Rie18_76
- Track 57 : Aesir_75
- Track 58 : Karate_75
- Track 59 : Richo_66, Dartin_66, Shaobing_66, McMater_66, Peanam_66
- Track 60 : Boiii_63, BGlluviae_63, Jarvi_63, Twitch_63, Blizzard_63, Beezoo_65, Atiba_64, Asayake_63, Hyperbowlee_63, Adephagia_63, Ramen_64, Zabiza_58, Homura_63, Tachez_63, CaseJules_65, Spock_63, Rosmarinus_63, QuincyRose_62, ShiaSurprise_64, Lunahalos_63, Apocalypse_66, Durfee_63, Sulley_63, Llorens_63, Joy99_63, BEEST_63, Tiri_64, MeaningOfLife_64, Peel_63, Ganymede_64, Belladonna_63, Adonis_63, Piatt_63, Padfoot_63, Topper_63, Angelica_63, CREW_63, Inky_63, HedwigODU_63, Capricorn_63, Dalmuri_63, Geraldini_66, Jeckyll_63, ActinUp_63
- Track 61 : Nibb_66
- Track 62 : LaterM_64
- Track 63 : Veliki_65, JAWS_64, Efra2_69, Yunkel11_68, BaghaKamala_63, Zavala_66, Mynx_65, Guanica15_68
- Track 64 : Ageofdapage_67, Emerson_65, Padpat_66
- Track 65 : Prithvi_65, Devera_71, LindNT_63, Rapunzel97_65, BarrelRoll_64, Pokerus_63, YoureAdopted_63, TaiwanKao_66, Slimphazie_64, CrimD_65, Dole_69, Murucutumbu_65, TreyKay_65, TruffulaTree_64, Illumine_69
- Track 66 : TiniBug_64, DrHayes_64, Urkel_64, Anaya_66, SamuelLPlaqsom_64, Bella96_64
- Track 67 : Chris_66
- Track 68 : Deby_64, Jayhawk_65, CheetoDust_63
- Track 69 : LastHope_68
- Track 70 : LilPharaoh_52, SgtBeansprout_52
- Track 71 : Niklas_66
- Track 72 : Curiosium_67

- Track 73 : KiSi_68, Oscar_67, LeMond_67, Scarlett_68
- Track 74 : Megsy_66
- Track 75 : Stinson_65
- Track 76 : MarkPhew_66
- Track 77 : Validus_68
- Track 78 : TingHuaYa_67
- Track 79 : Keshu_66
- Track 80 : Hurricane_64, Pixie_63, ShedlockHolmes_65
- Track 81 : MacnCheese_66
- Track 82 : TribbleTrouble_64
- Track 83 : Pharb_63
- Track 84 : Eponine_68, Juliette_68, Y2_64, Cheetobro_66, SamScheppers_64, Malthus_67, Y10_64, Fionnbharth_66, Slarp_66, Mitti_66, Wintermute_66, Kraw_67, Ruthiejr_67, Chancellor_66, OmniCritical_65, Taquito_65, JF1_66
- Track 85 : Reptar3000_63, MissDaisy_63, Patt_62
- Track 86 : Larva_58, AlleyCat_59, Psycho_57, Dadosky_59
- Track 87 : Heftyboy_58, Feyre_60, Guillsminger_58, Paola_57, SoSeph_58, Leston_57, Thyatira_60, Waterfoul_59
- Track 88 : Agent47_57, Collard_55, InvictusManeo_55
- Track 89 : Gengar_57, OkiRoe_58, Miryou_61
- Track 90 : Edugator_56
- Track 91 : Omnicron_61
- Track 92 : Kratio_55
- Track 93 : Rando14_59
- Track 94 : Ximenita_69, Syra333_67
- Track 95 : Fefferhead_61, Amgine_62, Ellie_59
- Track 96 : Shadow1_68, Sunflower1121_69
- Track 97 : Tierra_67, Cain_67, Bryler_67, Phrank_67
- Track 98 : Marshawn_63
- Track 99 : PhelpsODU_65, Unicorn_65
- Track 100 : Hammy_63
- Track 101 : Amohnton_63, DARTH_P_63
- Track 102 : Krueger_68
- Track 103 : TClif_64
- Track 104 : Aminay_62
- Track 105 : Kevin1_59
- Track 106 : Hilltopfarm_91, Typha_89, AuntGwenStacy_89
- Track 107 : Bipper_99
- Track 108 : Cracklewink_99
- Track 109 : TPA4_81
- Track 110 : VanLee_109
- Track 111 : Trogglehumper_5

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

The start number called the most often in the published annotations is 69, it was called in 84 of the 311 non-draft genes in the pham.

Genes that call this "Most Annotated" start:

- Adora_52, Agueybana_55, AlumE_55, Anakin_76, AnnaSerena_76, Annalisa_53, BatStarr_56, BaxterFox_57, BoyNamedSue_55, Bunnybear_49, Button_51, Cashline_53, Chivey_77, CoolCookie_75, Crestdrop_77, Cybele_76, DannyDe_77, Dauntless_75, Denise_48, DumpsterDude_53, EMSquaredA_53, Easley_49, Ebert_54, Erudite_75, Eviarto_57, Faith5x5_42, Floral_54, FreddieHg_77, GiKK_53, Gilda_76, Hager_78, Haunter_77, Herod_55, Hexbug_56, Hiddenleaf_77, Hortense_55, Howe_55, Hugley_53, Hyzer_62, JDawG_75, Jablanski_57, Jamzy_53, JingleBells_76, Karate_75, Kate_76, Krampus_76, Lton_46, Lucky10_47, Madeline_54, Malisha_67, Margaret_54, Maridalia_57, Martena_52, Mcklovin_51, Moosehead_50, Morkie_49, MortySmith_74, NarutoRun_76, Neptune_76, Nodigi_56, Nymphadora_57, Ohgeesy_54, OneDirection_43, Oregano_54, Orla_56, OverHedge_75, PantheRoc_57, Pepperoni_44, Pharpay_75, PhorbessPhlower_47, PhriskyACE_50, PhunaPhoke_76, Pollux_56, Potty_75, Poultruss_75, Powerball_51, Pytheas_57, Rachella_76, RanchParmCat_53, Rie18_76, Ruthy_52, Shlim410_53, Sidious_53, Snakehole_77, Tedro_76, ThankyouJordi_56, Thimann_54, TimTam_57, Twinkle_54, WelcomeAyanna_56, Yeezy_53,

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

- Aesir_75, Yakult_51,

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

- AbbyDaisy_49, ActinUp_63, Adephegia_63, Adonis_63, Agatha_49, Agent47_57, Ageofdapage_67, AikoCarson_50, Aleemily_115, AlleyCat_59, Amgine_62, Aminay_62, Amohnton_63, Amok_50, Amore2_80, Anaya_66, AndPeggy_46, Angelica_63, Apocalypse_66, Asayake_63, Atiba_64, AuntGwenStacy_89, Austin_79, Auxilium_46, Axym_48, Ayotoya_72, BEEST_63, BGIlluvia_63, BaghaKamala_63, BarrelRoll_64, Beezoo_65, Bella96_64, Belladonna_63, BillDoor_49, Bipper_99, Biskit_52, Blizzard_63, Boiiii_63, Bryler_67, Brylie_71, Burnsey_49, Buttrmilkdreams_52, CREW_63, Cafasso_117, Cain_67, Capricorn_63, CaseJules_65, Chancellor_66, CheetoDust_63, Cheetobro_66, CherryTomatoes_158, Chop_73, Chris_66, Collard_55, Cozz_47, Cracklewink_99, CrimD_65, Curiosium_67, Dadosky_59, Dalmuri_63, DarthP_63, Dartin_66, Deby_64, DelRio_72, Devera_71, Dole_69, DrHayes_64, Durfee_63, Edugator_56, Efra2_69, Ellie_59, Emalyn_48, Emerson_65, Eponine_68, Fefferhead_61, Feyre_60, Fionnbharth_66, GMA7_69, GTE2_40, GTE7_68, Ganymede_64, Gengar_57, Geraldini_66, Gorpy_49, GrandSlam_73, Guanica15_68, Guillsminger_58, Hammy_63, Hamood_73, HayZem_81, HedwigODU_63, Heftyboy_58, Hilltopfarm_91, Homura_63, Horseradish_52, Hurricane_64, Hyperbowlee_63, Illumine_69, Inky_63, InvictusManeo_55, Isolde_49, JAWS_64, JF1_66, Jarvi_63, Jayhawk_65, Jeckyll_63, Joy99_63, Juliette_68, Keshu_66, Kevin1_59, KiSi_68, Kratio_55, Kraw_67, Krueger_68, Larva_58, LastHope_68, LaterM_64, LeMond_67, Leston_57, LilPharaoh_52, LindNT_63, Llorens_63, Lunahalos_63, MScarn_54, MacnCheese_66, Malthus_67, MarkPhew_66, Marshawn_63, McMater_66, MeaningOfLife_64, Megsy_66, Mercedes_58, MidnightRain_51, Miryou_61, MissDaisy_63, Mitti_66, ModicumRichard_117, Morgana_124, Mulch_71, MunkgeeRoachy_47, Murucutumbu_65, Mynx_65, Nadeem_71, Nibb_66, Niklas_66, Nina_48, ObLaDi_116, OkiRoe_58, OmniCritical_65, Omnicron_61, Oscar_67, Padfoot_63, Padpat_66, Paola_57, Parada_71, Patt_62, Peanam_66, Peel_63, Pharb_63, PhelpsODU_65, Phrank_67, Piatt_63, Pixie_63, Pokerus_63, Prithvi_65, Psycho_57, Pupper_157, Quasar_49, QuincyRose_62, Ramen_64, Rando14_59, Raphaella_49, Rapunzel97_65, RedBaron_51, RedWattleHog_174, Reptar3000_63, Richo_66, Rosmarinus_63, Ruthiejr_67, SCentae_156, Sakai_48, SamScheppers_64, SamuelLPlaqson_64, Scarlett_68, SgtBeansprout_52,

Shadow1_68, Shaobing_66, ShedlockHolmes_65, ShiaSurprise_64, SketchMex_50, Skog_217, Slarp_66, Slimphazie_64, SoSeph_58, Spock_63, SteamedHams_49, Stinson_65, Stormageddon_175, Sulley_63, Sunflower121_69, SweatNTears_51, Syra333_67, TClif_64, TPA4_81, Tachez_63, TaiwanKao_66, Taquito_65, Thyatira_60, Tierra_67, Tiff81_50, TingHuaYa_67, TiniBug_64, Tiri_64, Tolls_50, Topper_63, TreyKay_65, TribbleTrouble_64, Trogglehumper_5, Troje_52, TruffulaTree_64, Twitch_63, Typha_89, Typhonomachy_49, Unicorn_65, Urkel_64, Validus_68, VanLee_109, Veliki_65, Waterfoul_59, WheatThin_71, Wintermute_66, Ximenita_69, Y10_64, Y2_64, Yarn_46, YoungHarleezy_50, YoureAdopted_63, Yummy_52, Yunkel11_68, Zabiza_58, Zavala_66,

Summary by start number:

Start 51:

- Found in 1 of 334 (0.3%) of genes in pham
- No Manual Annotations of this start.
- Called 100.0% of time when present
- Phage (with cluster) where this start called: TPA4_81 (singleton),

Start 61:

- Found in 26 of 334 (7.8%) of genes in pham
- Manual Annotations of this start: 23 of 311
- Called 96.2% of time when present
- Phage (with cluster) where this start called: Agatha_49 (CT), AikoCarson_50 (CT), Amok_50 (CT), AndPeggy_46 (CT), Axym_48 (CT), BillDoor_49 (CT), Biskit_52 (CT), Burnsey_49 (CT), Buttrmlkdreams_52 (CT), Cozz_47 (CT), Emalyn_48 (CT), Horseradish_52 (CT), MScarn_54 (CT), MunkgeeRoachy_47 (CT), Nina_48 (CT), Quasar_49 (CT), RedBaron_51 (CT), SketchMex_50 (CT), SteamedHams_49 (CT), SweatNTears_51 (CT), Tolls_50 (CT), Troje_52 (CT), Typhonomachy_49 (CT), Yarn_46 (CT), Yummy_52 (CT),

Start 62:

- Found in 4 of 334 (1.2%) of genes in pham
- Manual Annotations of this start: 3 of 311
- Called 75.0% of time when present
- Phage (with cluster) where this start called: CherryTomatoes_158 (DO), Pupper_157 (DO), SCentae_156 (DO),

Start 64:

- Found in 8 of 334 (2.4%) of genes in pham
- No Manual Annotations of this start.
- Called 12.5% of time when present
- Phage (with cluster) where this start called: GTE2_40 (CT),

Start 65:

- Found in 31 of 334 (9.3%) of genes in pham
- Manual Annotations of this start: 1 of 311
- Called 3.2% of time when present
- Phage (with cluster) where this start called: Aesir_75 (EF),

Start 66:

- Found in 1 of 334 (0.3%) of genes in pham
- Manual Annotations of this start: 1 of 311

- Called 100.0% of time when present
- Phage (with cluster) where this start called: Skog_217 (DO),

Start 69:

- Found in 93 of 334 (27.8%) of genes in pham
- Manual Annotations of this start: 84 of 311
- Called 97.8% of time when present
- Phage (with cluster) where this start called: Adora_52 (CZ4), Agueybana_55 (CZ1), AlumE_55 (CZ1), Anakin_76 (EF), AnnaSerena_76 (EF), Annalisa_53 (CZ4), BatStarr_56 (CZ1), BaxterFox_57 (CZ3), BoyNamedSue_55 (CZ1), Bunnybear_49 (CZ), Button_51 (CT), Cashline_53 (CY), Chivey_77 (EF), CoolCookie_75 (EF), Crestdrop_77 (EF), Cybele_76 (EF), DannyDe_77 (EF), Dauntless_75 (EF), Denise_48 (CZ5), DumpsterDude_53 (DW), EMsquaredA_53 (CY1), Easley_49 (CZ4), Ebert_54 (CZ2), Erudite_75 (EF), Eviarto_57 (CZ1), Faith5x5_42 (CZ6), Floral_54 (CY1), FreddieHg_77 (EF), GiKK_53 (CT), Gilda_76 (EF), Hager_78 (EF), Haunter_77 (EF), Herod_55 (CZ1), Hexbug_56 (CT), Hiddenleaf_77 (EF), Hortense_55 (CZ4), Howe_55 (CZ4), Hugley_53 (CZ1), Hyzer_62 (CZ1), JDawG_75 (EF), Jablanski_57 (CY), Jamzy_53 (CT), JingleBells_76 (EF), Karate_75 (EF), Kate_76 (EF), Krampus_76 (EF), Lton_46 (CZ), Lucky10_47 (DH), Madeline_54 (CZ1), Malisha_67 (DN), Margaret_54 (CT), Maridalia_57 (CZ1), Marteenaa_52 (CY1), Mcklovin_51 (CZ4), Moosehead_50 (CZ6), Morkie_49 (DH), MortySmith_74 (EF), NarutoRun_76 (EF), Neptune_76 (EF), Nodigi_56 (CT), Nymphadora_57 (CZ1), Ohgeesy_54 (CZ), OneDirection_43 (CZ6), Oregano_54 (CZ4), Orla_56 (CT), OverHedge_75 (EF), PantheRoc_57 (CZ3), Pepperoni_44 (CZ), Pharpay_75 (EF), PhorbesPhlower_47 (DH), PhriskyACE_50 (CZ4), PhunaPhoke_76 (EF), Pollux_56 (CY1), Potty_75 (EF), Poultruss_75 (EF), Powerball_51 (CZ4), Pytheas_57 (CY), Rachella_76 (EF), RanchParmCat_53 (CT), Rie18_76 (EF), Ruthy_52 (DW), Shlim410_53 (CZ4), Sidious_53 (CZ7), Snakehole_77 (EF), Tedro_76 (EF), ThankyouJordi_56 (CZ1), Thimann_54 (CZ4), TimTam_57 (CZ1), Twinkle_54 (CZ4), WelcomeAyanna_56 (CZ1), Yeezy_53 (CZ3),

Start 70:

- Found in 85 of 334 (25.4%) of genes in pham
- Manual Annotations of this start: 82 of 311
- Called 98.8% of time when present
- Phage (with cluster) where this start called: ActinUp_63 (K1), Adephagia_63 (K1), Adonis_63 (K1), Ageofdapage_67 (K1), Anaya_66 (K1), Angelica_63 (K1), Apocalypse_66 (K1), Asayake_63 (K1), Atiba_64 (K1), BEEST_63 (K1), BGIlluviae_63 (K1), BaghaKamala_63 (K1), BarrelRoll_64 (K1), Beezoo_65 (K1), Bella96_64 (K1), Belladonna_63 (K1), Blizzard_63 (K1), Boiiii_63 (K1), CREW_63 (K1), Capricorn_63 (K1), CaseJules_65 (K1), CheetoDust_63 (K1), CrimD_65 (K1), Curiosium_67 (K1), Dalmuri_63 (K1), Deby_64 (K1), Devera_71 (K1), Dole_69 (K1), DrHayes_64 (K1), Durfee_63 (K1), Efra2_69 (K1), Emerson_65 (K1), Ganymede_64 (K1), Geraldini_66 (K1), Guanica15_68 (K1), HedwigODU_63 (K1), Homura_63 (K1), Hyperbowlee_63 (K1), Illumine_69 (K1), Inky_63 (K1), JAWS_64 (K1), Jarvi_63 (K1), Jayhawk_65 (K1), Jeckyll_63 (K1), Joy99_63 (K1), LaterM_64 (K1), LindNT_63 (K1), Llorens_63 (K1), Lunahalos_63 (K1), MeaningOfLife_64 (K1), Megsy_66 (K1), Murucutumbu_65 (K1), Mynx_65 (K1), Padfoot_63 (K1), Padpat_66 (K1), Peel_63 (K1), Piatt_63 (K1), Pokerus_63 (K1), Prithvi_65 (K1), QuincyRose_62 (K1), Ramen_64 (K1), Rapunzel97_65 (K1), Rosmarinus_63 (K1), SamuelLPlaqson_64 (K1), ShiaSurprise_64 (K1), Slimphazie_64 (K1), Spock_63 (K1), Stinson_65 (K1), Sulley_63 (K1), Tachez_63 (K1), TaiwanKao_66 (K1), TingHuaYa_67 (K1), TiniBug_64 (K1), Tiri_64 (K1), Topper_63 (K1), TreyKay_65 (K1), TruffulaTree_64

(K1), Twitch_63 (K1), Urkel_64 (K1), Veliki_65 (K1), YoureAdopted_63 (K1), Yunkel11_68 (K1), Zabiza_58 (K1), Zavala_66 (K1),

Start 71:

- Found in 11 of 334 (3.3%) of genes in pham
- Manual Annotations of this start: 1 of 311
- Called 9.1% of time when present
- Phage (with cluster) where this start called: Aminay_62 (K7),

Start 72:

- Found in 87 of 334 (26.0%) of genes in pham
- Manual Annotations of this start: 81 of 311
- Called 97.7% of time when present
- Phage (with cluster) where this start called: Agent47_57 (K5), AlleyCat_59 (K5), Amgine_62 (K6), Amohntion_63 (K6), Bryler_67 (K6), Cain_67 (K6), Chancellor_66 (K4), Cheetobro_66 (K4), Chris_66 (K1), Collard_55 (K5), Dadosky_59 (K5), DarthP_63 (K6), Dartin_66 (K1), Edugator_56 (K5), Ellie_59 (K6), Eponine_68 (K4), Fefferhead_61 (K6), Feyre_60 (K5), Fionnbharth_66 (K4), Gengar_57 (K5), Guillsminger_58 (K5), Hammy_63 (K6), Heftyboy_58 (K5), Hurricane_64 (K3), InvictusManeo_55 (K5), JF1_66 (K4), Juliette_68 (K4), Keshu_66 (K3), KiSi_68 (K1), Kratio_55 (K5), Kraw_67 (K4), Krueger_68 (K6), Larva_58 (K5), LastHope_68 (K1), LeMond_67 (K1), Leston_57 (K5), LilPharaoh_52 (K1), MacnCheese_66 (K3), Malthus_67 (K4), MarkPhew_66 (K1), Marshawn_63 (K6), McMater_66 (K1), Miryou_61 (K5), MissDaisy_63 (K4), Mitti_66 (K4), Nibb_66 (K1), Niklas_66 (K1), OkiRoe_58 (K5), OmniCritical_65 (K4), Omnicron_61 (K5), Oscar_67 (K1), Paola_57 (K5), Patt_62 (K4), Peanam_66 (K1), Pharb_63 (K3), PhelpsODU_65 (K6), Phrank_67 (K6), Pixie_63 (K3), Psycho_57 (K5), Rando14_59 (K5), Reptar3000_63 (K4), Richo_66 (K1), Ruthiejr_67 (K4), SamScheppers_64 (K4), Scarlett_68 (K1), SgtBeansprout_52 (K1), Shadow1_68 (K6), Shaobing_66 (K1), ShedlockHolmes_65 (K3), Slarp_66 (K4), SoSeph_58 (K5), Sunflower1121_69 (K6), Syra333_67 (K6), TClif_64 (K6), Taquito_65 (K4), Thyatira_60 (K5), Tierra_67 (K6), TribbleTrouble_64 (K3), Unicorn_65 (K6), Validus_68 (K1), Waterfoul_59 (K5), Wintermute_66 (K4), Ximenita_69 (K6), Y10_64 (K4), Y2_64 (K4),

Start 74:

- Found in 7 of 334 (2.1%) of genes in pham
- Manual Annotations of this start: 6 of 311
- Called 100.0% of time when present
- Phage (with cluster) where this start called: AuntGwenStacy_89 (Y), Bipper_99 (Y), Cracklewink_99 (Y), Hilltopfarm_91 (Y), RedWattleHog_174 (DX), Stormageddon_175 (DX), Typha_89 (Y),

Start 77:

- Found in 10 of 334 (3.0%) of genes in pham
- Manual Annotations of this start: 10 of 311
- Called 100.0% of time when present
- Phage (with cluster) where this start called: Ayotoya_72 (DI), Bryllie_71 (DI), Chop_73 (DI), DelRio_72 (DI), GrandSlam_73 (DI), Hamood_73 (DI), Mulch_71 (DI), Nadeem_71 (DI), Parada_71 (DI), WheatThin_71 (DI),

Start 78:

- Found in 2 of 334 (0.6%) of genes in pham
- Manual Annotations of this start: 2 of 311

- Called 100.0% of time when present
- Phage (with cluster) where this start called: Kevin1_59 (N), Trogglehumper_5 (singleton),

Start 79:

- Found in 15 of 334 (4.5%) of genes in pham
- Manual Annotations of this start: 12 of 311
- Called 100.0% of time when present
- Phage (with cluster) where this start called: AbbyDaisy_49 (AY), Aleemily_115 (DZ), Auxilium_46 (AY), Cafasso_117 (DZ), Gorpy_49 (AY), Isolde_49 (AY), MidnightRain_51 (AY), ModicumRichard_117 (DZ), Morgana_124 (DZ), ObLaDi_116 (DZ), Raphaella_49 (AY), Sakai_48 (AY), Tiff81_50 (AY), VanLee_109 (singleton), YoungHarleezy_50 (AY),

Start 80:

- Found in 10 of 334 (3.0%) of genes in pham
- Manual Annotations of this start: 1 of 311
- Called 10.0% of time when present
- Phage (with cluster) where this start called: Yakult_51 (CT),

Start 82:

- Found in 5 of 334 (1.5%) of genes in pham
- Manual Annotations of this start: 3 of 311
- Called 100.0% of time when present
- Phage (with cluster) where this start called: Amore2_80 (CS1), Austin_79 (CS1), GMA7_69 (CS1), GTE7_68 (CS1), HayZem_81 (CS1),

Start 83:

- Found in 15 of 334 (4.5%) of genes in pham
- Manual Annotations of this start: 1 of 311
- Called 6.7% of time when present
- Phage (with cluster) where this start called: Mercedes_58 (EA),

Summary by clusters:

There are 31 clusters represented in this pham: DN, DO, singleton, K5, DH, DI, CZ2, CZ3, CZ1, CZ6, CZ7, CZ4, CZ5, K3, AY, K1, DZ, K6, DX, K4, DW, CS1, CY1, EF, EA, N, CZ, CY, Y, CT, K7,

Info for manual annotations of cluster AY:

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

Info for manual annotations of cluster CS1:

- Start number 82 was manually annotated 3 times for cluster CS1.

Info for manual annotations of cluster CT:

- Start number 61 was manually annotated 23 times for cluster CT.
- Start number 69 was manually annotated 7 times for cluster CT.
- Start number 80 was manually annotated 1 time for cluster CT.

Info for manual annotations of cluster CY:

- Start number 69 was manually annotated 3 times for cluster CY.

Info for manual annotations of cluster CY1:

- Start number 69 was manually annotated 4 times for cluster CY1.

Info for manual annotations of cluster CZ:

- Start number 69 was manually annotated 3 times for cluster CZ.

Info for manual annotations of cluster CZ1:

- Start number 69 was manually annotated 12 times for cluster CZ1.

Info for manual annotations of cluster CZ2:

- Start number 69 was manually annotated 1 time for cluster CZ2.

Info for manual annotations of cluster CZ3:

- Start number 69 was manually annotated 3 times for cluster CZ3.

Info for manual annotations of cluster CZ4:

- Start number 69 was manually annotated 10 times for cluster CZ4.

Info for manual annotations of cluster CZ5:

- Start number 69 was manually annotated 1 time for cluster CZ5.

Info for manual annotations of cluster CZ6:

- Start number 69 was manually annotated 3 times for cluster CZ6.

Info for manual annotations of cluster CZ7:

- Start number 69 was manually annotated 1 time for cluster CZ7.

Info for manual annotations of cluster DH:

- Start number 69 was manually annotated 3 times for cluster DH.

Info for manual annotations of cluster DI:

- Start number 77 was manually annotated 10 times for cluster DI.

Info for manual annotations of cluster DN:

- Start number 69 was manually annotated 1 time for cluster DN.

Info for manual annotations of cluster DO:

- Start number 62 was manually annotated 3 times for cluster DO.
- Start number 66 was manually annotated 1 time for cluster DO.

Info for manual annotations of cluster DW:

- Start number 69 was manually annotated 2 times for cluster DW.

Info for manual annotations of cluster DX:

- Start number 74 was manually annotated 2 times for cluster DX.

Info for manual annotations of cluster DZ:

- Start number 79 was manually annotated 4 times for cluster DZ.

Info for manual annotations of cluster EA:

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

Info for manual annotations of cluster EF:

- Start number 65 was manually annotated 1 time for cluster EF.
- Start number 69 was manually annotated 30 times for cluster EF.

Info for manual annotations of cluster K1:

- Start number 70 was manually annotated 82 times for cluster K1.
- Start number 72 was manually annotated 14 times for cluster K1.

Info for manual annotations of cluster K3:

- Start number 72 was manually annotated 7 times for cluster K3.

Info for manual annotations of cluster K4:

- Start number 72 was manually annotated 19 times for cluster K4.

Info for manual annotations of cluster K5:

- Start number 72 was manually annotated 22 times for cluster K5.

Info for manual annotations of cluster K6:

- Start number 72 was manually annotated 19 times for cluster K6.

Info for manual annotations of cluster K7:

- Start number 71 was manually annotated 1 time for cluster K7.

Info for manual annotations of cluster N:

- Start number 78 was manually annotated 1 time for cluster N.

Info for manual annotations of cluster Y:

- Start number 74 was manually annotated 4 times for cluster Y.

Gene Information:

Gene: AbbyDaisy_49 Start: 31179, Stop: 31364, Start Num: 79

Candidate Starts for AbbyDaisy_49:

(58, 31122), (Start: 79 @31179 has 12 MA's), (90, 31236), (100, 31257), (105, 31272),

Gene: ActinUp_63 Start: 42440, Stop: 42655, Start Num: 70

Candidate Starts for ActinUp_63:

(Start: 70 @42440 has 82 MA's), (94, 42527), (99, 42536),

Gene: Adephagia_63 Start: 42477, Stop: 42692, Start Num: 70

Candidate Starts for Adephagia_63:

(Start: 70 @42477 has 82 MA's), (94, 42564), (99, 42573),

Gene: Adonis_63 Start: 42712, Stop: 42927, Start Num: 70

Candidate Starts for Adonis_63:

(Start: 70 @42712 has 82 MA's), (94, 42799), (99, 42808),

Gene: Adora_52 Start: 38735, Stop: 38977, Start Num: 69

Candidate Starts for Adora_52:

(Start: 69 @38735 has 84 MA's), (105, 38861),

Gene: Aesir_75 Start: 52985, Stop: 53188, Start Num: 65

Candidate Starts for Aesir_75:

(Start: 65 @52985 has 1 MA's), (Start: 69 @53000 has 84 MA's), (87, 53057), (121, 53135), (127, 53153), (131, 53165),

Gene: Agatha_49 Start: 36030, Stop: 35797, Start Num: 61

Candidate Starts for Agatha_49:

(Start: 61 @36030 has 23 MA's), (85, 35946), (111, 35886),

Gene: Agent47_57 Start: 39612, Stop: 39824, Start Num: 72

Candidate Starts for Agent47_57:

(47, 39537), (52, 39546), (56, 39558), (Start: 72 @39612 has 81 MA's), (Start: 83 @39630 has 1 MA's), (94, 39690), (104, 39714), (105, 39717), (113, 39744), (128, 39771), (136, 39819),

Gene: Ageofdapage_67 Start: 43868, Stop: 44083, Start Num: 70

Candidate Starts for Ageofdapage_67:

(Start: 70 @43868 has 82 MA's), (94, 43955), (99, 43964),

Gene: Agueybana_55 Start: 39414, Stop: 39656, Start Num: 69

Candidate Starts for Agueybana_55:

(Start: 69 @39414 has 84 MA's), (105, 39540),

Gene: AikoCarson_50 Start: 36349, Stop: 36098, Start Num: 61

Candidate Starts for AikoCarson_50:

(Start: 61 @36349 has 23 MA's), (64, 36343), (101, 36220), (117, 36175),

Gene: Aleemily_115 Start: 64180, Stop: 63974, Start Num: 79

Candidate Starts for Aleemily_115:

(55, 64249), (Start: 79 @64180 has 12 MA's), (97, 64108), (102, 64093), (108, 64078), (134, 64000),

Gene: AlleyCat_59 Start: 39910, Stop: 40122, Start Num: 72

Candidate Starts for AlleyCat_59:

(Start: 72 @39910 has 81 MA's), (94, 39988), (104, 40012), (105, 40015), (113, 40042), (128, 40069),

Gene: AlumE_55 Start: 39196, Stop: 39438, Start Num: 69

Candidate Starts for AlumE_55:

(Start: 69 @39196 has 84 MA's), (96, 39292), (105, 39322),

Gene: Amgine_62 Start: 43547, Stop: 43759, Start Num: 72

Candidate Starts for Amgine_62:

(Start: 72 @43547 has 81 MA's), (94, 43628), (99, 43637),

Gene: Aminay_62 Start: 41845, Stop: 42069, Start Num: 71

Candidate Starts for Aminay_62:

(Start: 71 @41845 has 1 MA's), (93, 41926), (98, 41935), (105, 41956), (130, 42025),

Gene: Amohndition_63 Start: 43082, Stop: 43294, Start Num: 72

Candidate Starts for Amohndition_63:

(2, 42395), (5, 42482), (7, 42530), (8, 42557), (9, 42581), (12, 42623), (25, 42905), (Start: 72 @43082 has 81 MA's), (94, 43163), (99, 43172), (132, 43247),

Gene: Amok_50 Start: 36274, Stop: 36023, Start Num: 61

Candidate Starts for Amok_50:

(Start: 61 @36274 has 23 MA's), (64, 36268), (101, 36145), (117, 36100),

Gene: Amore2_80 Start: 61514, Stop: 61275, Start Num: 82

Candidate Starts for Amore2_80:

(36, 61679), (Start: 82 @61514 has 3 MA's), (130, 61355),

Gene: Anakin_76 Start: 53365, Stop: 53553, Start Num: 69

Candidate Starts for Anakin_76:

(Start: 65 @53350 has 1 MA's), (Start: 69 @53365 has 84 MA's), (87, 53422), (121, 53500), (127, 53518), (131, 53530),

Gene: Anaya_66 Start: 43420, Stop: 43638, Start Num: 70

Candidate Starts for Anaya_66:

(Start: 70 @43420 has 82 MA's), (94, 43507), (99, 43516),

Gene: AndPeggy_46 Start: 35560, Stop: 35309, Start Num: 61

Candidate Starts for AndPeggy_46:

(Start: 61 @35560 has 23 MA's), (64, 35554), (101, 35431), (117, 35386),

Gene: Angelica_63 Start: 42629, Stop: 42844, Start Num: 70

Candidate Starts for Angelica_63:

(Start: 70 @42629 has 82 MA's), (94, 42716), (99, 42725),

Gene: AnnaSerena_76 Start: 53399, Stop: 53587, Start Num: 69

Candidate Starts for AnnaSerena_76:

(Start: 65 @53384 has 1 MA's), (Start: 69 @53399 has 84 MA's), (87, 53456), (121, 53534), (127, 53552), (131, 53564),

Gene: Annalisa_53 Start: 35580, Stop: 35795, Start Num: 69

Candidate Starts for Annalisa_53:

(20, 35316), (21, 35352), (29, 35424), (Start: 69 @35580 has 84 MA's), (105, 35679),

Gene: Apocalypse_66 Start: 43395, Stop: 43610, Start Num: 70

Candidate Starts for Apocalypse_66:

(Start: 70 @43395 has 82 MA's), (94, 43482), (99, 43491),

Gene: Asayake_63 Start: 42792, Stop: 43007, Start Num: 70

Candidate Starts for Asayake_63:

(Start: 70 @42792 has 82 MA's), (94, 42879), (99, 42888),

Gene: Atiba_64 Start: 42440, Stop: 42655, Start Num: 70

Candidate Starts for Atiba_64:

(Start: 70 @42440 has 82 MA's), (94, 42527), (99, 42536),

Gene: AuntGwenStacy_89 Start: 58871, Stop: 59092, Start Num: 74

Candidate Starts for AuntGwenStacy_89:

(Start: 74 @58871 has 6 MA's), (84, 58907), (90, 58937),

Gene: Austin_79 Start: 61512, Stop: 61273, Start Num: 82

Candidate Starts for Austin_79:

(36, 61677), (Start: 82 @61512 has 3 MA's), (130, 61353),

Gene: Auxilium_46 Start: 28442, Stop: 28633, Start Num: 79

Candidate Starts for Auxilium_46:

(Start: 79 @28442 has 12 MA's),

Gene: Axym_48 Start: 35927, Stop: 35694, Start Num: 61

Candidate Starts for Axym_48:

(Start: 61 @35927 has 23 MA's), (85, 35843), (111, 35783),

Gene: Ayotoya_72 Start: 48939, Stop: 49139, Start Num: 77

Candidate Starts for Ayotoya_72:

(46, 48855), (50, 48861), (Start: 71 @48927 has 1 MA's), (Start: 77 @48939 has 10 MA's),

Gene: BEEST_63 Start: 42792, Stop: 43007, Start Num: 70

Candidate Starts for BEEST_63:

(Start: 70 @42792 has 82 MA's), (94, 42879), (99, 42888),

Gene: BGlluviae_63 Start: 42595, Stop: 42810, Start Num: 70

Candidate Starts for BGlluviae_63:

(Start: 70 @42595 has 82 MA's), (94, 42682), (99, 42691),

Gene: BaghaKamala_63 Start: 42253, Stop: 42471, Start Num: 70

Candidate Starts for BaghaKamala_63:

(44, 42175), (Start: 70 @42253 has 82 MA's), (94, 42340), (99, 42349),

Gene: BarrelRoll_64 Start: 42877, Stop: 43092, Start Num: 70

Candidate Starts for BarrelRoll_64:

(45, 42799), (Start: 70 @42877 has 82 MA's), (94, 42964), (99, 42973),

Gene: BatStarr_56 Start: 40720, Stop: 40962, Start Num: 69

Candidate Starts for BatStarr_56:

(Start: 69 @40720 has 84 MA's), (105, 40846),

Gene: BaxterFox_57 Start: 40474, Stop: 40716, Start Num: 69

Candidate Starts for BaxterFox_57:

(Start: 69 @40474 has 84 MA's), (105, 40600),

Gene: Beezoo_65 Start: 43389, Stop: 43604, Start Num: 70

Candidate Starts for Beezoo_65:

(Start: 70 @43389 has 82 MA's), (94, 43476), (99, 43485),

Gene: Bella96_64 Start: 43173, Stop: 43388, Start Num: 70

Candidate Starts for Bella96_64:

(Start: 70 @43173 has 82 MA's), (94, 43260), (99, 43269),

Gene: Belladonna_63 Start: 42595, Stop: 42810, Start Num: 70

Candidate Starts for Belladonna_63:

(Start: 70 @42595 has 82 MA's), (94, 42682), (99, 42691),

Gene: BillDoor_49 Start: 35229, Stop: 34978, Start Num: 61

Candidate Starts for BillDoor_49:

(32, 35346), (Start: 61 @35229 has 23 MA's), (64, 35223), (75, 35187), (101, 35100), (117, 35055),

Gene: Bipper_99 Start: 62157, Stop: 62378, Start Num: 74

Candidate Starts for Bipper_99:

(26, 61980), (38, 62025), (39, 62028), (43, 62067), (60, 62115), (Start: 74 @62157 has 6 MA's), (84, 62193),

Gene: Biskit_52 Start: 36207, Stop: 35971, Start Num: 61

Candidate Starts for Biskit_52:

(53, 36225), (Start: 61 @36207 has 23 MA's), (111, 36060), (114, 36048), (115, 36045),

Gene: Blizzard_63 Start: 42792, Stop: 43007, Start Num: 70

Candidate Starts for Blizzard_63:

(Start: 70 @42792 has 82 MA's), (94, 42879), (99, 42888),

Gene: Boiiii_63 Start: 42794, Stop: 43009, Start Num: 70

Candidate Starts for Boiiii_63:

(Start: 70 @42794 has 82 MA's), (94, 42881), (99, 42890),

Gene: BoyNamedSue_55 Start: 39196, Stop: 39438, Start Num: 69

Candidate Starts for BoyNamedSue_55:

(Start: 69 @39196 has 84 MA's), (96, 39292), (105, 39322),

Gene: Bryler_67 Start: 42423, Stop: 42635, Start Num: 72

Candidate Starts for Bryler_67:

(3, 41757), (4, 41781), (6, 41856), (14, 42009), (24, 42240), (Start: 72 @42423 has 81 MA's), (94, 42504), (99, 42513),

Gene: Brylie_71 Start: 47955, Stop: 48155, Start Num: 77

Candidate Starts for Brylie_71:

(46, 47871), (50, 47877), (67, 47931), (Start: 71 @47943 has 1 MA's), (Start: 77 @47955 has 10 MA's),

Gene: Bunnybear_49 Start: 37204, Stop: 37446, Start Num: 69

Candidate Starts for Bunnybear_49:

(Start: 69 @37204 has 84 MA's), (105, 37330),

Gene: Burnsey_49 Start: 36021, Stop: 35788, Start Num: 61

Candidate Starts for Burnsey_49:

(Start: 61 @36021 has 23 MA's), (85, 35937), (111, 35877),

Gene: Button_51 Start: 36058, Stop: 35855, Start Num: 69

Candidate Starts for Button_51:

(Start: 69 @36058 has 84 MA's), (76, 36046), (Start: 80 @36037 has 1 MA's), (Start: 83 @36031 has 1 MA's), (92, 35980), (106, 35956),

Gene: Buttrmlkdreams_52 Start: 36654, Stop: 36418, Start Num: 61

Candidate Starts for Buttrmlkdreams_52:

(53, 36672), (Start: 61 @36654 has 23 MA's), (111, 36507), (114, 36495), (115, 36492),

Gene: CREW_63 Start: 42595, Stop: 42810, Start Num: 70

Candidate Starts for CREW_63:

(Start: 70 @42595 has 82 MA's), (94, 42682), (99, 42691),

Gene: Cafasso_117 Start: 64785, Stop: 64579, Start Num: 79

Candidate Starts for Cafasso_117:

(Start: 79 @64785 has 12 MA's), (97, 64713), (102, 64698), (108, 64683),

Gene: Cain_67 Start: 42411, Stop: 42623, Start Num: 72

Candidate Starts for Cain_67:

(3, 41745), (4, 41769), (6, 41844), (14, 41997), (24, 42228), (Start: 72 @42411 has 81 MA's), (94, 42492), (99, 42501),

Gene: Capricorn_63 Start: 42595, Stop: 42810, Start Num: 70

Candidate Starts for Capricorn_63:

(Start: 70 @42595 has 82 MA's), (94, 42682), (99, 42691),

Gene: CaseJules_65 Start: 42792, Stop: 43007, Start Num: 70

Candidate Starts for CaseJules_65:

(Start: 70 @42792 has 82 MA's), (94, 42879), (99, 42888),

Gene: Cashline_53 Start: 39714, Stop: 39956, Start Num: 69

Candidate Starts for Cashline_53:

(Start: 69 @39714 has 84 MA's), (105, 39840),

Gene: Chancellor_66 Start: 41921, Stop: 42139, Start Num: 72

Candidate Starts for Chancellor_66:

(33, 41762), (34, 41771), (Start: 72 @41921 has 81 MA's), (109, 42038), (124, 42074), (129, 42089),

Gene: CheetoDust_63 Start: 42300, Stop: 42518, Start Num: 70

Candidate Starts for CheetoDust_63:

(Start: 70 @42300 has 82 MA's), (94, 42387), (99, 42396),

Gene: Cheetobro_66 Start: 41918, Stop: 42136, Start Num: 72

Candidate Starts for Cheetobro_66:

(33, 41759), (34, 41768), (Start: 72 @41918 has 81 MA's), (109, 42035), (124, 42071), (129, 42086),

Gene: CherryTomatoes_158 Start: 111644, Stop: 111907, Start Num: 62

Candidate Starts for CherryTomatoes_158:

(45, 111599), (59, 111641), (Start: 62 @111644 has 3 MA's), (105, 111794), (120, 111830), (125, 111842),

Gene: Chivey_77 Start: 52802, Stop: 52990, Start Num: 69

Candidate Starts for Chivey_77:

(Start: 65 @52787 has 1 MA's), (Start: 69 @52802 has 84 MA's), (87, 52859), (121, 52937), (127, 52955), (131, 52967),

Gene: Chop_73 Start: 49004, Stop: 49204, Start Num: 77

Candidate Starts for Chop_73:

(46, 48920), (50, 48926), (Start: 71 @48992 has 1 MA's), (Start: 77 @49004 has 10 MA's),

Gene: Chris_66 Start: 43655, Stop: 43864, Start Num: 72

Candidate Starts for Chris_66:

(11, 43181), (Start: 72 @43655 has 81 MA's), (88, 43718), (94, 43736), (99, 43745), (107, 43769),

Gene: Collard_55 Start: 39573, Stop: 39785, Start Num: 72

Candidate Starts for Collard_55:

(47, 39498), (52, 39507), (56, 39519), (Start: 72 @39573 has 81 MA's), (Start: 83 @39591 has 1 MA's), (94, 39651), (104, 39675), (105, 39678), (113, 39705), (128, 39732), (136, 39780),

Gene: CoolCookie_75 Start: 53498, Stop: 53686, Start Num: 69
Candidate Starts for CoolCookie_75:
(Start: 65 @53483 has 1 MA's), (Start: 69 @53498 has 84 MA's), (87, 53555), (121, 53633), (127, 53651), (131, 53663),

Gene: Cozz_47 Start: 35618, Stop: 35385, Start Num: 61
Candidate Starts for Cozz_47:
(Start: 61 @35618 has 23 MA's), (85, 35534), (111, 35474),

Gene: Cracklewink_99 Start: 61392, Stop: 61613, Start Num: 74
Candidate Starts for Cracklewink_99:
(26, 61215), (38, 61260), (39, 61263), (43, 61302), (60, 61350), (Start: 74 @61392 has 6 MA's), (Start: 80 @61404 has 1 MA's), (84, 61428),

Gene: Crestdrop_77 Start: 53319, Stop: 53507, Start Num: 69
Candidate Starts for Crestdrop_77:
(Start: 69 @53319 has 84 MA's), (87, 53376), (121, 53454), (127, 53472), (131, 53484),

Gene: CrimD_65 Start: 43416, Stop: 43631, Start Num: 70
Candidate Starts for CrimD_65:
(45, 43338), (Start: 70 @43416 has 82 MA's), (94, 43503), (99, 43512),

Gene: Curiosium_67 Start: 42105, Stop: 42323, Start Num: 70
Candidate Starts for Curiosium_67:
(Start: 70 @42105 has 82 MA's), (76, 42117), (94, 42192), (99, 42201),

Gene: Cybele_76 Start: 53395, Stop: 53583, Start Num: 69
Candidate Starts for Cybele_76:
(Start: 65 @53380 has 1 MA's), (Start: 69 @53395 has 84 MA's), (87, 53452), (121, 53530), (127, 53548), (131, 53560),

Gene: Dadosky_59 Start: 39912, Stop: 40124, Start Num: 72
Candidate Starts for Dadosky_59:
(Start: 72 @39912 has 81 MA's), (94, 39990), (104, 40014), (105, 40017), (113, 40044), (128, 40071),

Gene: Dalmuri_63 Start: 42595, Stop: 42810, Start Num: 70
Candidate Starts for Dalmuri_63:
(Start: 70 @42595 has 82 MA's), (94, 42682), (99, 42691),

Gene: DannyDe_77 Start: 52804, Stop: 52992, Start Num: 69
Candidate Starts for DannyDe_77:
(Start: 65 @52789 has 1 MA's), (Start: 69 @52804 has 84 MA's), (87, 52861), (121, 52939), (127, 52957), (131, 52969),

Gene: DarthP_63 Start: 42936, Stop: 43148, Start Num: 72
Candidate Starts for DarthP_63:
(2, 42249), (5, 42336), (7, 42384), (8, 42411), (9, 42435), (12, 42477), (25, 42759), (Start: 72 @42936 has 81 MA's), (94, 43017), (99, 43026), (132, 43101),

Gene: Dartin_66 Start: 43084, Stop: 43293, Start Num: 72
Candidate Starts for Dartin_66:
(24, 42904), (Start: 72 @43084 has 81 MA's), (94, 43165), (99, 43174),

Gene: Dauntless_75 Start: 53031, Stop: 53219, Start Num: 69
Candidate Starts for Dauntless_75:
(Start: 65 @53016 has 1 MA's), (Start: 69 @53031 has 84 MA's), (87, 53088), (121, 53166), (127, 53184), (131, 53196),

Gene: Deby_64 Start: 43078, Stop: 43293, Start Num: 70
Candidate Starts for Deby_64:
(Start: 70 @43078 has 82 MA's), (94, 43165), (99, 43174),

Gene: DelRio_72 Start: 49046, Stop: 49246, Start Num: 77
Candidate Starts for DelRio_72:
(46, 48962), (50, 48968), (Start: 71 @49034 has 1 MA's), (Start: 77 @49046 has 10 MA's),

Gene: Denise_48 Start: 33091, Stop: 33306, Start Num: 69
Candidate Starts for Denise_48:
(Start: 69 @33091 has 84 MA's), (105, 33190), (116, 33223),

Gene: Devera_71 Start: 44431, Stop: 44646, Start Num: 70
Candidate Starts for Devera_71:
(45, 44353), (Start: 70 @44431 has 82 MA's), (94, 44518), (99, 44527),

Gene: Dole_69 Start: 44434, Stop: 44649, Start Num: 70
Candidate Starts for Dole_69:
(45, 44356), (Start: 70 @44434 has 82 MA's), (94, 44521), (99, 44530),

Gene: DrHayes_64 Start: 43328, Stop: 43543, Start Num: 70
Candidate Starts for DrHayes_64:
(Start: 70 @43328 has 82 MA's), (94, 43415), (99, 43424),

Gene: DumpsterDude_53 Start: 41558, Stop: 41800, Start Num: 69
Candidate Starts for DumpsterDude_53:
(Start: 69 @41558 has 84 MA's), (73, 41567), (105, 41684),

Gene: Durfee_63 Start: 42792, Stop: 43007, Start Num: 70
Candidate Starts for Durfee_63:
(Start: 70 @42792 has 82 MA's), (94, 42879), (99, 42888),

Gene: EMSquaredA_53 Start: 38371, Stop: 38613, Start Num: 69
Candidate Starts for EMSquaredA_53:
(Start: 69 @38371 has 84 MA's), (96, 38467), (105, 38497),

Gene: Easley_49 Start: 35528, Stop: 35743, Start Num: 69
Candidate Starts for Easley_49:
(Start: 69 @35528 has 84 MA's), (105, 35627),

Gene: Ebert_54 Start: 34571, Stop: 34813, Start Num: 69
Candidate Starts for Ebert_54:
(Start: 69 @34571 has 84 MA's), (105, 34697),

Gene: Edugator_56 Start: 41333, Stop: 41545, Start Num: 72
Candidate Starts for Edugator_56:
(Start: 72 @41333 has 81 MA's), (Start: 83 @41351 has 1 MA's), (94, 41411), (104, 41435), (105, 41438), (113, 41465), (128, 41492), (136, 41540),

Gene: Efra2_69 Start: 43158, Stop: 43376, Start Num: 70
Candidate Starts for Efra2_69:
(44, 43080), (Start: 70 @43158 has 82 MA's), (94, 43245), (99, 43254),

Gene: Ellie_59 Start: 42407, Stop: 42619, Start Num: 72
Candidate Starts for Ellie_59:
(Start: 72 @42407 has 81 MA's), (94, 42488), (99, 42497),

Gene: Emalyn_48 Start: 35066, Stop: 34815, Start Num: 61
Candidate Starts for Emalyn_48:
(Start: 61 @35066 has 23 MA's), (64, 35060), (101, 34937), (117, 34892),

Gene: Emerson_65 Start: 42909, Stop: 43127, Start Num: 70
Candidate Starts for Emerson_65:
(Start: 70 @42909 has 82 MA's), (94, 42996), (99, 43005),

Gene: Eponine_68 Start: 42764, Stop: 42982, Start Num: 72
Candidate Starts for Eponine_68:
(33, 42605), (34, 42614), (Start: 72 @42764 has 81 MA's), (109, 42881), (124, 42917), (129, 42932),

Gene: Erudite_75 Start: 53031, Stop: 53219, Start Num: 69
Candidate Starts for Erudite_75:
(Start: 65 @53016 has 1 MA's), (Start: 69 @53031 has 84 MA's), (87, 53088), (121, 53166), (127, 53184), (131, 53196),

Gene: Eviarto_57 Start: 40695, Stop: 40937, Start Num: 69
Candidate Starts for Eviarto_57:
(Start: 69 @40695 has 84 MA's), (105, 40821),

Gene: Faith5x5_42 Start: 30278, Stop: 30463, Start Num: 69
Candidate Starts for Faith5x5_42:
(Start: 69 @30278 has 84 MA's), (105, 30377), (116, 30410),

Gene: Fefferhead_61 Start: 42316, Stop: 42528, Start Num: 72
Candidate Starts for Fefferhead_61:
(Start: 72 @42316 has 81 MA's), (94, 42397), (99, 42406),

Gene: Feyre_60 Start: 43292, Stop: 43504, Start Num: 72
Candidate Starts for Feyre_60:
(Start: 72 @43292 has 81 MA's), (94, 43370), (104, 43394), (105, 43397), (119, 43430), (128, 43451), (134, 43478),

Gene: Fionnbharth_66 Start: 42162, Stop: 42380, Start Num: 72
Candidate Starts for Fionnbharth_66:
(33, 42003), (34, 42012), (Start: 72 @42162 has 81 MA's), (109, 42279), (124, 42315), (129, 42330),

Gene: Floral_54 Start: 40277, Stop: 40519, Start Num: 69
Candidate Starts for Floral_54:
(Start: 69 @40277 has 84 MA's), (105, 40403),

Gene: FreddieHg_77 Start: 52819, Stop: 53007, Start Num: 69
Candidate Starts for FreddieHg_77:

(Start: 65 @52804 has 1 MA's), (Start: 69 @52819 has 84 MA's), (87, 52876), (121, 52954), (127, 52972), (131, 52984),

Gene: GMA7_69 Start: 55728, Stop: 55489, Start Num: 82
Candidate Starts for GMA7_69:
(36, 55893), (Start: 82 @55728 has 3 MA's), (130, 55569),

Gene: GTE2_40 Start: 35662, Stop: 35417, Start Num: 64
Candidate Starts for GTE2_40:
(32, 35785), (Start: 61 @35668 has 23 MA's), (64, 35662), (75, 35626), (85, 35575), (101, 35539),
(117, 35494), (132, 35461),

Gene: GTE7_68 Start: 55759, Stop: 55520, Start Num: 82
Candidate Starts for GTE7_68:
(36, 55924), (Start: 82 @55759 has 3 MA's), (130, 55600),

Gene: Ganymede_64 Start: 42817, Stop: 43032, Start Num: 70
Candidate Starts for Ganymede_64:
(Start: 70 @42817 has 82 MA's), (94, 42904), (99, 42913),

Gene: Gengar_57 Start: 41311, Stop: 41523, Start Num: 72
Candidate Starts for Gengar_57:
(Start: 72 @41311 has 81 MA's), (94, 41389), (104, 41413), (105, 41416), (113, 41443), (128, 41470),
(134, 41497),

Gene: Geraldini_66 Start: 43474, Stop: 43689, Start Num: 70
Candidate Starts for Geraldini_66:
(Start: 70 @43474 has 82 MA's), (94, 43561), (99, 43570),

Gene: GiKK_53 Start: 36382, Stop: 36179, Start Num: 69
Candidate Starts for GiKK_53:
(Start: 69 @36382 has 84 MA's), (76, 36370), (Start: 80 @36361 has 1 MA's), (Start: 83 @36355 has
1 MA's), (92, 36304), (106, 36280),

Gene: Gilda_76 Start: 53387, Stop: 53575, Start Num: 69
Candidate Starts for Gilda_76:
(Start: 65 @53372 has 1 MA's), (Start: 69 @53387 has 84 MA's), (87, 53444), (121, 53522), (127,
53540), (131, 53552),

Gene: Gorpy_49 Start: 31480, Stop: 31674, Start Num: 79
Candidate Starts for Gorpy_49:
(Start: 79 @31480 has 12 MA's), (94, 31549), (130, 31627),

Gene: GrandSlam_73 Start: 49004, Stop: 49204, Start Num: 77
Candidate Starts for GrandSlam_73:
(46, 48920), (50, 48926), (Start: 71 @48992 has 1 MA's), (Start: 77 @49004 has 10 MA's),

Gene: Guanica15_68 Start: 42899, Stop: 43117, Start Num: 70
Candidate Starts for Guanica15_68:
(44, 42821), (Start: 70 @42899 has 82 MA's), (94, 42986), (99, 42995),

Gene: Guillsminger_58 Start: 41282, Stop: 41494, Start Num: 72
Candidate Starts for Guillsminger_58:

(Start: 72 @41282 has 81 MA's), (94, 41360), (104, 41384), (105, 41387), (119, 41420), (128, 41441), (134, 41468),

Gene: Hager_78 Start: 52853, Stop: 53041, Start Num: 69

Candidate Starts for Hager_78:

(Start: 65 @52838 has 1 MA's), (Start: 69 @52853 has 84 MA's), (121, 52988), (127, 53006), (131, 53018),

Gene: Hammy_63 Start: 42924, Stop: 43136, Start Num: 72

Candidate Starts for Hammy_63:

(25, 42747), (Start: 72 @42924 has 81 MA's), (94, 43005), (99, 43014), (132, 43089),

Gene: Hamood_73 Start: 49004, Stop: 49204, Start Num: 77

Candidate Starts for Hamood_73:

(46, 48920), (50, 48926), (Start: 71 @48992 has 1 MA's), (Start: 77 @49004 has 10 MA's),

Gene: Haunter_77 Start: 52808, Stop: 52996, Start Num: 69

Candidate Starts for Haunter_77:

(Start: 65 @52793 has 1 MA's), (Start: 69 @52808 has 84 MA's), (87, 52865), (121, 52943), (127, 52961), (131, 52973),

Gene: HayZem_81 Start: 61512, Stop: 61273, Start Num: 82

Candidate Starts for HayZem_81:

(36, 61677), (Start: 82 @61512 has 3 MA's), (130, 61353),

Gene: HedwigODU_63 Start: 42440, Stop: 42655, Start Num: 70

Candidate Starts for HedwigODU_63:

(Start: 70 @42440 has 82 MA's), (94, 42527), (99, 42536),

Gene: Heftyboy_58 Start: 41654, Stop: 41866, Start Num: 72

Candidate Starts for Heftyboy_58:

(Start: 72 @41654 has 81 MA's), (94, 41732), (104, 41756), (105, 41759), (119, 41792), (128, 41813), (134, 41840),

Gene: Herod_55 Start: 40739, Stop: 40981, Start Num: 69

Candidate Starts for Herod_55:

(Start: 69 @40739 has 84 MA's), (105, 40865),

Gene: Hexbug_56 Start: 38441, Stop: 38238, Start Num: 69

Candidate Starts for Hexbug_56:

(Start: 69 @38441 has 84 MA's), (Start: 80 @38420 has 1 MA's), (106, 38339), (112, 38318), (118, 38309), (132, 38282),

Gene: Hiddenleaf_77 Start: 52802, Stop: 52990, Start Num: 69

Candidate Starts for Hiddenleaf_77:

(Start: 65 @52787 has 1 MA's), (Start: 69 @52802 has 84 MA's), (87, 52859), (121, 52937), (127, 52955), (131, 52967),

Gene: Hilltopfarm_91 Start: 59257, Stop: 59478, Start Num: 74

Candidate Starts for Hilltopfarm_91:

(Start: 74 @59257 has 6 MA's), (84, 59293), (90, 59323),

Gene: Homura_63 Start: 42595, Stop: 42810, Start Num: 70

Candidate Starts for Homura_63:

(Start: 70 @42595 has 82 MA's), (94, 42682), (99, 42691),

Gene: Horseradish_52 Start: 36140, Stop: 35904, Start Num: 61

Candidate Starts for Horseradish_52:

(53, 36158), (Start: 61 @36140 has 23 MA's), (111, 35993), (114, 35981), (115, 35978),

Gene: Hortense_55 Start: 40090, Stop: 40332, Start Num: 69

Candidate Starts for Hortense_55:

(Start: 69 @40090 has 84 MA's), (105, 40216),

Gene: Howe_55 Start: 40090, Stop: 40332, Start Num: 69

Candidate Starts for Howe_55:

(Start: 69 @40090 has 84 MA's), (105, 40216),

Gene: Hugley_53 Start: 40719, Stop: 40961, Start Num: 69

Candidate Starts for Hugley_53:

(Start: 69 @40719 has 84 MA's), (105, 40845),

Gene: Hurricane_64 Start: 42910, Stop: 43122, Start Num: 72

Candidate Starts for Hurricane_64:

(Start: 72 @42910 has 81 MA's), (99, 43000), (132, 43075),

Gene: Hyperbowlee_63 Start: 42792, Stop: 43007, Start Num: 70

Candidate Starts for Hyperbowlee_63:

(Start: 70 @42792 has 82 MA's), (94, 42879), (99, 42888),

Gene: Hyzer_62 Start: 42111, Stop: 42353, Start Num: 69

Candidate Starts for Hyzer_62:

(Start: 69 @42111 has 84 MA's), (105, 42237),

Gene: Illumine_69 Start: 44433, Stop: 44648, Start Num: 70

Candidate Starts for Illumine_69:

(45, 44355), (Start: 70 @44433 has 82 MA's), (94, 44520), (99, 44529),

Gene: Inky_63 Start: 42595, Stop: 42810, Start Num: 70

Candidate Starts for Inky_63:

(Start: 70 @42595 has 82 MA's), (94, 42682), (99, 42691),

Gene: InvictusManeo_55 Start: 39616, Stop: 39828, Start Num: 72

Candidate Starts for InvictusManeo_55:

(47, 39541), (52, 39550), (56, 39562), (Start: 72 @39616 has 81 MA's), (Start: 83 @39634 has 1 MA's), (94, 39694), (104, 39718), (105, 39721), (113, 39748), (128, 39775), (136, 39823),

Gene: Isolde_49 Start: 30525, Stop: 30716, Start Num: 79

Candidate Starts for Isolde_49:

(Start: 79 @30525 has 12 MA's),

Gene: JAWS_64 Start: 42868, Stop: 43086, Start Num: 70

Candidate Starts for JAWS_64:

(44, 42790), (Start: 70 @42868 has 82 MA's), (94, 42955), (99, 42964),

Gene: JDawG_75 Start: 52995, Stop: 53183, Start Num: 69

Candidate Starts for JDawG_75:

(Start: 65 @52980 has 1 MA's), (Start: 69 @52995 has 84 MA's), (87, 53052), (121, 53130), (127, 53148), (131, 53160),

Gene: JF1_66 Start: 42079, Stop: 42297, Start Num: 72

Candidate Starts for JF1_66:

(33, 41920), (34, 41929), (Start: 72 @42079 has 81 MA's), (109, 42196), (124, 42232), (129, 42247),

Gene: Jablanski_57 Start: 41777, Stop: 42019, Start Num: 69

Candidate Starts for Jablanski_57:

(15, 41396), (Start: 69 @41777 has 84 MA's), (105, 41903),

Gene: Jamzy_53 Start: 36362, Stop: 36159, Start Num: 69

Candidate Starts for Jamzy_53:

(Start: 69 @36362 has 84 MA's), (76, 36350), (Start: 80 @36341 has 1 MA's), (Start: 83 @36335 has 1 MA's), (92, 36284), (106, 36260),

Gene: Jarvi_63 Start: 42595, Stop: 42810, Start Num: 70

Candidate Starts for Jarvi_63:

(Start: 70 @42595 has 82 MA's), (94, 42682), (99, 42691),

Gene: Jayhawk_65 Start: 42937, Stop: 43152, Start Num: 70

Candidate Starts for Jayhawk_65:

(Start: 70 @42937 has 82 MA's), (94, 43024), (99, 43033),

Gene: Jeckyll_63 Start: 42595, Stop: 42810, Start Num: 70

Candidate Starts for Jeckyll_63:

(Start: 70 @42595 has 82 MA's), (94, 42682), (99, 42691),

Gene: JingleBells_76 Start: 52907, Stop: 53095, Start Num: 69

Candidate Starts for JingleBells_76:

(Start: 65 @52892 has 1 MA's), (Start: 69 @52907 has 84 MA's), (87, 52964), (121, 53042), (127, 53060), (131, 53072),

Gene: Joy99_63 Start: 42524, Stop: 42739, Start Num: 70

Candidate Starts for Joy99_63:

(Start: 70 @42524 has 82 MA's), (94, 42611), (99, 42620),

Gene: Juliette_68 Start: 42226, Stop: 42444, Start Num: 72

Candidate Starts for Juliette_68:

(33, 42067), (34, 42076), (Start: 72 @42226 has 81 MA's), (109, 42343), (124, 42379), (129, 42394),

Gene: Karate_75 Start: 53099, Stop: 53287, Start Num: 69

Candidate Starts for Karate_75:

(Start: 65 @53084 has 1 MA's), (Start: 69 @53099 has 84 MA's), (87, 53156), (127, 53252), (131, 53264),

Gene: Kate_76 Start: 53310, Stop: 53498, Start Num: 69

Candidate Starts for Kate_76:

(Start: 65 @53295 has 1 MA's), (Start: 69 @53310 has 84 MA's), (87, 53367), (121, 53445), (127, 53463), (131, 53475),

Gene: Keshu_66 Start: 43008, Stop: 43220, Start Num: 72

Candidate Starts for Keshu_66:

(24, 42825), (Start: 72 @43008 has 81 MA's), (99, 43098), (132, 43173),

Gene: Kevin1_59 Start: 36836, Stop: 37027, Start Num: 78

Candidate Starts for Kevin1_59:

(Start: 78 @36836 has 2 MA's), (123, 36968),

Gene: KiSi_68 Start: 43636, Stop: 43845, Start Num: 72

Candidate Starts for KiSi_68:

(Start: 72 @43636 has 81 MA's), (Start: 83 @43657 has 1 MA's), (88, 43699), (94, 43717), (99, 43726), (107, 43750),

Gene: Krampus_76 Start: 53400, Stop: 53588, Start Num: 69

Candidate Starts for Krampus_76:

(Start: 65 @53385 has 1 MA's), (Start: 69 @53400 has 84 MA's), (87, 53457), (121, 53535), (127, 53553), (131, 53565),

Gene: Kratio_55 Start: 39352, Stop: 39564, Start Num: 72

Candidate Starts for Kratio_55:

(10, 38872), (16, 38959), (19, 39010), (22, 39118), (23, 39124), (47, 39277), (52, 39286), (56, 39298), (Start: 72 @39352 has 81 MA's), (Start: 83 @39370 has 1 MA's), (104, 39454), (105, 39457), (113, 39484), (128, 39511), (136, 39559),

Gene: Kraw_67 Start: 41914, Stop: 42132, Start Num: 72

Candidate Starts for Kraw_67:

(33, 41755), (34, 41764), (Start: 72 @41914 has 81 MA's), (109, 42031), (124, 42067), (129, 42082),

Gene: Krueger_68 Start: 42699, Stop: 42911, Start Num: 72

Candidate Starts for Krueger_68:

(24, 42516), (Start: 72 @42699 has 81 MA's), (94, 42780), (99, 42789), (133, 42873),

Gene: Larva_58 Start: 40784, Stop: 40996, Start Num: 72

Candidate Starts for Larva_58:

(Start: 72 @40784 has 81 MA's), (94, 40862), (104, 40886), (105, 40889), (113, 40916), (128, 40943),

Gene: LastHope_68 Start: 42025, Stop: 42237, Start Num: 72

Candidate Starts for LastHope_68:

(Start: 72 @42025 has 81 MA's), (94, 42106), (99, 42115),

Gene: LaterM_64 Start: 43287, Stop: 43502, Start Num: 70

Candidate Starts for LaterM_64:

(Start: 70 @43287 has 82 MA's), (94, 43374), (99, 43383),

Gene: LeMond_67 Start: 43270, Stop: 43479, Start Num: 72

Candidate Starts for LeMond_67:

(Start: 72 @43270 has 81 MA's), (Start: 83 @43291 has 1 MA's), (88, 43333), (94, 43351), (99, 43360), (107, 43384),

Gene: Leston_57 Start: 41411, Stop: 41623, Start Num: 72

Candidate Starts for Leston_57:

(Start: 72 @41411 has 81 MA's), (94, 41489), (104, 41513), (105, 41516), (119, 41549), (128, 41570), (134, 41597),

Gene: LilPharaoh_52 Start: 39482, Stop: 39691, Start Num: 72

Candidate Starts for LilPharaoh_52:

(Start: 72 @39482 has 81 MA's), (94, 39563), (99, 39572),

Gene: LindNT_63 Start: 43082, Stop: 43297, Start Num: 70

Candidate Starts for LindNT_63:

(45, 43004), (Start: 70 @43082 has 82 MA's), (94, 43169), (99, 43178),

Gene: Llorens_63 Start: 42595, Stop: 42810, Start Num: 70

Candidate Starts for Llorens_63:

(Start: 70 @42595 has 82 MA's), (94, 42682), (99, 42691),

Gene: Lton_46 Start: 30324, Stop: 30512, Start Num: 69

Candidate Starts for Lton_46:

(48, 30261), (Start: 62 @30294 has 3 MA's), (Start: 69 @30324 has 84 MA's), (90, 30396), (105, 30423), (116, 30456),

Gene: Lucky10_47 Start: 33042, Stop: 33230, Start Num: 69

Candidate Starts for Lucky10_47:

(Start: 69 @33042 has 84 MA's), (105, 33141), (116, 33174),

Gene: Lunahalos_63 Start: 42595, Stop: 42810, Start Num: 70

Candidate Starts for Lunahalos_63:

(Start: 70 @42595 has 82 MA's), (94, 42682), (99, 42691),

Gene: MScarn_54 Start: 36322, Stop: 36086, Start Num: 61

Candidate Starts for MScarn_54:

(53, 36340), (Start: 61 @36322 has 23 MA's), (111, 36175), (114, 36163), (115, 36160),

Gene: MacnCheese_66 Start: 43527, Stop: 43739, Start Num: 72

Candidate Starts for MacnCheese_66:

(Start: 70 @43521 has 82 MA's), (Start: 72 @43527 has 81 MA's), (99, 43617), (126, 43677), (132, 43692),

Gene: Madeline_54 Start: 39604, Stop: 39846, Start Num: 69

Candidate Starts for Madeline_54:

(Start: 69 @39604 has 84 MA's), (105, 39730),

Gene: Malisha_67 Start: 41399, Stop: 41608, Start Num: 69

Candidate Starts for Malisha_67:

(Start: 69 @41399 has 84 MA's), (105, 41525), (107, 41531),

Gene: Malthus_67 Start: 41914, Stop: 42132, Start Num: 72

Candidate Starts for Malthus_67:

(33, 41755), (34, 41764), (Start: 72 @41914 has 81 MA's), (109, 42031), (124, 42067), (129, 42082),

Gene: Margaret_54 Start: 37114, Stop: 36911, Start Num: 69

Candidate Starts for Margaret_54:

(Start: 69 @37114 has 84 MA's), (76, 37102), (Start: 80 @37093 has 1 MA's), (Start: 83 @37087 has 1 MA's), (92, 37036), (106, 37012),

Gene: Maridalia_57 Start: 38950, Stop: 39192, Start Num: 69

Candidate Starts for Maridalia_57:

(Start: 69 @38950 has 84 MA's), (105, 39076),

Gene: MarkPhew_66 Start: 42770, Stop: 42982, Start Num: 72

Candidate Starts for MarkPhew_66:

(Start: 72 @42770 has 81 MA's), (88, 42833), (94, 42851), (99, 42860), (107, 42884),

Gene: Marshawn_63 Start: 43120, Stop: 43332, Start Num: 72

Candidate Starts for Marshawn_63:

(Start: 72 @43120 has 81 MA's), (94, 43201),

Gene: Marteena_52 Start: 38371, Stop: 38613, Start Num: 69

Candidate Starts for Marteena_52:

(Start: 69 @38371 has 84 MA's), (96, 38467), (105, 38497),

Gene: McMater_66 Start: 43084, Stop: 43293, Start Num: 72

Candidate Starts for McMater_66:

(24, 42904), (Start: 72 @43084 has 81 MA's), (94, 43165), (99, 43174),

Gene: Mcklovin_51 Start: 41557, Stop: 41799, Start Num: 69

Candidate Starts for Mcklovin_51:

(Start: 69 @41557 has 84 MA's), (105, 41683),

Gene: MeaningOfLife_64 Start: 43347, Stop: 43562, Start Num: 70

Candidate Starts for MeaningOfLife_64:

(Start: 70 @43347 has 82 MA's), (94, 43434), (99, 43443),

Gene: Megsy_66 Start: 43003, Stop: 43218, Start Num: 70

Candidate Starts for Megsy_66:

(Start: 70 @43003 has 82 MA's), (94, 43090), (99, 43099),

Gene: Mercedes_58 Start: 39826, Stop: 40002, Start Num: 83

Candidate Starts for Mercedes_58:

(63, 39766), (81, 39823), (Start: 83 @39826 has 1 MA's), (110, 39919),

Gene: MidnightRain_51 Start: 31618, Stop: 31809, Start Num: 79

Candidate Starts for MidnightRain_51:

(54, 31558), (Start: 79 @31618 has 12 MA's), (129, 31756),

Gene: Miryou_61 Start: 44008, Stop: 44220, Start Num: 72

Candidate Starts for Miryou_61:

(Start: 72 @44008 has 81 MA's), (94, 44086), (104, 44110), (105, 44113), (113, 44140), (128, 44167), (134, 44194),

Gene: MissDaisy_63 Start: 40826, Stop: 41044, Start Num: 72

Candidate Starts for MissDaisy_63:

(33, 40667), (34, 40676), (Start: 72 @40826 has 81 MA's), (109, 40943), (124, 40979), (129, 40994), (130, 41000),

Gene: Mitti_66 Start: 42093, Stop: 42311, Start Num: 72

Candidate Starts for Mitti_66:

(33, 41934), (34, 41943), (Start: 72 @42093 has 81 MA's), (109, 42210), (124, 42246), (129, 42261),

Gene: ModicumRichard_117 Start: 65073, Stop: 64867, Start Num: 79

Candidate Starts for ModicumRichard_117:
(Start: 79 @65073 has 12 MA's), (97, 65001), (102, 64986), (108, 64971),

Gene: Moosehead_50 Start: 31430, Stop: 31645, Start Num: 69
Candidate Starts for Moosehead_50:
(Start: 69 @31430 has 84 MA's), (105, 31529), (132, 31601),

Gene: Morgana_124 Start: 67243, Stop: 67037, Start Num: 79
Candidate Starts for Morgana_124:
(55, 67312), (Start: 79 @67243 has 12 MA's), (97, 67171), (102, 67156), (108, 67141),

Gene: Morkie_49 Start: 32379, Stop: 32567, Start Num: 69
Candidate Starts for Morkie_49:
(Start: 69 @32379 has 84 MA's), (91, 32454), (105, 32478), (116, 32511),

Gene: MortySmith_74 Start: 52505, Stop: 52693, Start Num: 69
Candidate Starts for MortySmith_74:
(Start: 65 @52490 has 1 MA's), (Start: 69 @52505 has 84 MA's), (87, 52562), (121, 52640), (127, 52658), (131, 52670),

Gene: Mulch_71 Start: 47994, Stop: 48194, Start Num: 77
Candidate Starts for Mulch_71:
(46, 47910), (50, 47916), (67, 47970), (Start: 71 @47982 has 1 MA's), (Start: 77 @47994 has 10 MA's),

Gene: MunkgeeRoachy_47 Start: 35379, Stop: 35146, Start Num: 61
Candidate Starts for MunkgeeRoachy_47:
(Start: 61 @35379 has 23 MA's), (85, 35295), (111, 35235),

Gene: Murucutumbu_65 Start: 43862, Stop: 44077, Start Num: 70
Candidate Starts for Murucutumbu_65:
(45, 43784), (Start: 70 @43862 has 82 MA's), (94, 43949), (99, 43958),

Gene: Mynx_65 Start: 43204, Stop: 43422, Start Num: 70
Candidate Starts for Mynx_65:
(44, 43126), (Start: 70 @43204 has 82 MA's), (94, 43291), (99, 43300),

Gene: Nadeem_71 Start: 47982, Stop: 48182, Start Num: 77
Candidate Starts for Nadeem_71:
(46, 47898), (50, 47904), (67, 47958), (Start: 71 @47970 has 1 MA's), (Start: 77 @47982 has 10 MA's),

Gene: NarutoRun_76 Start: 53365, Stop: 53553, Start Num: 69
Candidate Starts for NarutoRun_76:
(Start: 65 @53350 has 1 MA's), (Start: 69 @53365 has 84 MA's), (87, 53422), (121, 53500), (127, 53518), (131, 53530),

Gene: Neptune_76 Start: 53395, Stop: 53583, Start Num: 69
Candidate Starts for Neptune_76:
(Start: 65 @53380 has 1 MA's), (Start: 69 @53395 has 84 MA's), (87, 53452), (121, 53530), (127, 53548), (131, 53560),

Gene: Nibb_66 Start: 42981, Stop: 43193, Start Num: 72

Candidate Starts for Nibb_66:
(11, 42507), (Start: 72 @42981 has 81 MA's), (88, 43044), (94, 43062), (99, 43071), (122, 43122),

Gene: Niklas_66 Start: 43145, Stop: 43354, Start Num: 72
Candidate Starts for Niklas_66:
(Start: 72 @43145 has 81 MA's), (94, 43226), (99, 43235),

Gene: Nina_48 Start: 36199, Stop: 35966, Start Num: 61
Candidate Starts for Nina_48:
(Start: 61 @36199 has 23 MA's), (85, 36115), (111, 36055),

Gene: Nodigi_56 Start: 38471, Stop: 38268, Start Num: 69
Candidate Starts for Nodigi_56:
(Start: 69 @38471 has 84 MA's), (Start: 80 @38450 has 1 MA's), (106, 38369), (112, 38348), (118, 38339), (132, 38312),

Gene: Nymphadora_57 Start: 40719, Stop: 40961, Start Num: 69
Candidate Starts for Nymphadora_57:
(Start: 69 @40719 has 84 MA's), (105, 40845),

Gene: ObLaDi_116 Start: 64475, Stop: 64269, Start Num: 79
Candidate Starts for ObLaDi_116:
(Start: 79 @64475 has 12 MA's), (97, 64403), (102, 64388), (108, 64373),

Gene: Ohgeesy_54 Start: 38818, Stop: 39060, Start Num: 69
Candidate Starts for Ohgeesy_54:
(Start: 69 @38818 has 84 MA's), (105, 38944),

Gene: OkiRoe_58 Start: 41679, Stop: 41891, Start Num: 72
Candidate Starts for OkiRoe_58:
(Start: 72 @41679 has 81 MA's), (94, 41757), (104, 41781), (105, 41784), (113, 41811), (128, 41838), (134, 41865),

Gene: OmniCritical_65 Start: 41983, Stop: 42201, Start Num: 72
Candidate Starts for OmniCritical_65:
(33, 41824), (34, 41833), (Start: 72 @41983 has 81 MA's), (109, 42100), (124, 42136), (129, 42151),

Gene: Omnicron_61 Start: 41791, Stop: 42003, Start Num: 72
Candidate Starts for Omnicron_61:
(56, 41737), (Start: 72 @41791 has 81 MA's), (90, 41857), (94, 41869), (105, 41896), (128, 41950), (134, 41977),

Gene: OneDirection_43 Start: 29772, Stop: 29960, Start Num: 69
Candidate Starts for OneDirection_43:
(Start: 69 @29772 has 84 MA's), (90, 29844), (105, 29871), (116, 29904),

Gene: Oregano_54 Start: 36212, Stop: 36427, Start Num: 69
Candidate Starts for Oregano_54:
(Start: 69 @36212 has 84 MA's), (105, 36311),

Gene: Orla_56 Start: 38400, Stop: 38197, Start Num: 69
Candidate Starts for Orla_56:

(Start: 69 @38400 has 84 MA's), (Start: 80 @38379 has 1 MA's), (106, 38298), (112, 38277), (118, 38268), (132, 38241),

Gene: Oscar_67 Start: 43187, Stop: 43396, Start Num: 72

Candidate Starts for Oscar_67:

(Start: 72 @43187 has 81 MA's), (Start: 83 @43208 has 1 MA's), (88, 43250), (94, 43268), (99, 43277), (107, 43301),

Gene: OverHedge_75 Start: 53261, Stop: 53449, Start Num: 69

Candidate Starts for OverHedge_75:

(Start: 65 @53246 has 1 MA's), (Start: 69 @53261 has 84 MA's), (87, 53318), (121, 53396), (127, 53414), (131, 53426),

Gene: Padfoot_63 Start: 42792, Stop: 43007, Start Num: 70

Candidate Starts for Padfoot_63:

(Start: 70 @42792 has 82 MA's), (94, 42879), (99, 42888),

Gene: Padpat_66 Start: 42909, Stop: 43127, Start Num: 70

Candidate Starts for Padpat_66:

(Start: 70 @42909 has 82 MA's), (94, 42996), (99, 43005),

Gene: PantheRoc_57 Start: 39540, Stop: 39782, Start Num: 69

Candidate Starts for PantheRoc_57:

(Start: 69 @39540 has 84 MA's), (105, 39666),

Gene: Paola_57 Start: 41282, Stop: 41494, Start Num: 72

Candidate Starts for Paola_57:

(Start: 72 @41282 has 81 MA's), (94, 41360), (104, 41384), (105, 41387), (119, 41420), (128, 41441), (134, 41468),

Gene: Parada_71 Start: 47994, Stop: 48194, Start Num: 77

Candidate Starts for Parada_71:

(46, 47910), (50, 47916), (67, 47970), (Start: 71 @47982 has 1 MA's), (Start: 77 @47994 has 10 MA's),

Gene: Patt_62 Start: 40550, Stop: 40768, Start Num: 72

Candidate Starts for Patt_62:

(33, 40391), (34, 40400), (Start: 72 @40550 has 81 MA's), (109, 40667), (124, 40703), (129, 40718), (130, 40724),

Gene: Peanam_66 Start: 43103, Stop: 43312, Start Num: 72

Candidate Starts for Peanam_66:

(24, 42923), (Start: 72 @43103 has 81 MA's), (94, 43184), (99, 43193),

Gene: Peel_63 Start: 42597, Stop: 42812, Start Num: 70

Candidate Starts for Peel_63:

(Start: 70 @42597 has 82 MA's), (94, 42684), (99, 42693),

Gene: Pepperoni_44 Start: 31534, Stop: 31722, Start Num: 69

Candidate Starts for Pepperoni_44:

(Start: 69 @31534 has 84 MA's), (73, 31543), (91, 31609), (105, 31633), (116, 31666),

Gene: Pharb_63 Start: 42257, Stop: 42469, Start Num: 72

Candidate Starts for Pharb_63:
(68, 42242), (Start: 72 @42257 has 81 MA's), (99, 42347),

Gene: Pharpay_75 Start: 53410, Stop: 53598, Start Num: 69
Candidate Starts for Pharpay_75:
(Start: 65 @53395 has 1 MA's), (Start: 69 @53410 has 84 MA's), (87, 53467), (121, 53545), (127, 53563), (131, 53575),

Gene: PhelpsODU_65 Start: 42337, Stop: 42549, Start Num: 72
Candidate Starts for PhelpsODU_65:
(3, 41674), (4, 41698), (6, 41770), (14, 41923), (24, 42154), (Start: 72 @42337 has 81 MA's), (94, 42418), (99, 42427),

Gene: PhorbesPhlower_47 Start: 31528, Stop: 31713, Start Num: 69
Candidate Starts for PhorbesPhlower_47:
(Start: 69 @31528 has 84 MA's), (103, 31621), (105, 31627), (116, 31660),

Gene: Phrank_67 Start: 42401, Stop: 42613, Start Num: 72
Candidate Starts for Phrank_67:
(3, 41735), (4, 41759), (6, 41834), (14, 41987), (24, 42218), (Start: 72 @42401 has 81 MA's), (94, 42482), (99, 42491),

Gene: PhriskyACE_50 Start: 36177, Stop: 36419, Start Num: 69
Candidate Starts for PhriskyACE_50:
(18, 35853), (Start: 69 @36177 has 84 MA's), (105, 36303),

Gene: PhunaPhoke_76 Start: 53380, Stop: 53568, Start Num: 69
Candidate Starts for PhunaPhoke_76:
(Start: 65 @53365 has 1 MA's), (Start: 69 @53380 has 84 MA's), (87, 53437), (121, 53515), (127, 53533), (131, 53545),

Gene: Piatt_63 Start: 42792, Stop: 43007, Start Num: 70
Candidate Starts for Piatt_63:
(Start: 70 @42792 has 82 MA's), (94, 42879), (99, 42888),

Gene: Pixie_63 Start: 42430, Stop: 42642, Start Num: 72
Candidate Starts for Pixie_63:
(Start: 72 @42430 has 81 MA's), (99, 42520), (132, 42595),

Gene: Pokerus_63 Start: 42937, Stop: 43152, Start Num: 70
Candidate Starts for Pokerus_63:
(45, 42859), (Start: 70 @42937 has 82 MA's), (94, 43024), (99, 43033),

Gene: Pollux_56 Start: 40277, Stop: 40519, Start Num: 69
Candidate Starts for Pollux_56:
(Start: 69 @40277 has 84 MA's), (105, 40403),

Gene: Potty_75 Start: 53310, Stop: 53498, Start Num: 69
Candidate Starts for Potty_75:
(Start: 65 @53295 has 1 MA's), (Start: 69 @53310 has 84 MA's), (87, 53367), (121, 53445), (127, 53463), (131, 53475),

Gene: Poultruss_75 Start: 53607, Stop: 53795, Start Num: 69

Candidate Starts for Poultruss_75:

(Start: 65 @53592 has 1 MA's), (Start: 69 @53607 has 84 MA's), (87, 53664), (121, 53742), (127, 53760), (131, 53772),

Gene: Powerball_51 Start: 36303, Stop: 36545, Start Num: 69

Candidate Starts for Powerball_51:

(18, 35979), (Start: 69 @36303 has 84 MA's), (105, 36429),

Gene: Prithvi_65 Start: 43082, Stop: 43297, Start Num: 70

Candidate Starts for Prithvi_65:

(45, 43004), (Start: 70 @43082 has 82 MA's), (94, 43169), (99, 43178),

Gene: Psycho_57 Start: 39909, Stop: 40121, Start Num: 72

Candidate Starts for Psycho_57:

(Start: 72 @39909 has 81 MA's), (94, 39987), (104, 40011), (105, 40014), (113, 40041), (128, 40068),

Gene: Pupper_157 Start: 111884, Stop: 112147, Start Num: 62

Candidate Starts for Pupper_157:

(45, 111839), (59, 111881), (Start: 62 @111884 has 3 MA's), (105, 112034), (120, 112070), (125, 112082),

Gene: Pytheas_57 Start: 41776, Stop: 42018, Start Num: 69

Candidate Starts for Pytheas_57:

(15, 41395), (Start: 69 @41776 has 84 MA's), (105, 41902),

Gene: Quasar_49 Start: 36624, Stop: 36391, Start Num: 61

Candidate Starts for Quasar_49:

(Start: 61 @36624 has 23 MA's), (85, 36540), (111, 36480),

Gene: QuincyRose_62 Start: 42817, Stop: 43032, Start Num: 70

Candidate Starts for QuincyRose_62:

(Start: 70 @42817 has 82 MA's), (94, 42904), (99, 42913),

Gene: Rachella_76 Start: 53391, Stop: 53579, Start Num: 69

Candidate Starts for Rachella_76:

(Start: 65 @53376 has 1 MA's), (Start: 69 @53391 has 84 MA's), (87, 53448), (121, 53526), (127, 53544), (131, 53556),

Gene: Ramen_64 Start: 42442, Stop: 42657, Start Num: 70

Candidate Starts for Ramen_64:

(Start: 70 @42442 has 82 MA's), (94, 42529), (99, 42538),

Gene: RanchParmCat_53 Start: 37255, Stop: 37052, Start Num: 69

Candidate Starts for RanchParmCat_53:

(Start: 69 @37255 has 84 MA's), (76, 37243), (Start: 80 @37234 has 1 MA's), (Start: 83 @37228 has 1 MA's), (92, 37177), (106, 37153),

Gene: Rando14_59 Start: 39518, Stop: 39730, Start Num: 72

Candidate Starts for Rando14_59:

(47, 39443), (52, 39452), (56, 39464), (Start: 72 @39518 has 81 MA's), (94, 39596), (104, 39620), (105, 39623), (128, 39677), (134, 39704),

Gene: Raphaella_49 Start: 30457, Stop: 30648, Start Num: 79

Candidate Starts for Raphaella_49:
(Start: 79 @30457 has 12 MA's),

Gene: Rapunzel97_65 Start: 42892, Stop: 43107, Start Num: 70
Candidate Starts for Rapunzel97_65:
(45, 42814), (Start: 70 @42892 has 82 MA's), (94, 42979), (99, 42988),

Gene: RedBaron_51 Start: 36246, Stop: 36013, Start Num: 61
Candidate Starts for RedBaron_51:
(Start: 61 @36246 has 23 MA's), (85, 36162),

Gene: RedWattleHog_174 Start: 111466, Stop: 111675, Start Num: 74
Candidate Starts for RedWattleHog_174:
(Start: 72 @111463 has 81 MA's), (Start: 74 @111466 has 6 MA's), (128, 111625), (135, 111655),

Gene: Reptar3000_63 Start: 40538, Stop: 40756, Start Num: 72
Candidate Starts for Reptar3000_63:
(33, 40379), (34, 40388), (Start: 72 @40538 has 81 MA's), (109, 40655), (124, 40691), (129, 40706),
(130, 40712),

Gene: Richo_66 Start: 43084, Stop: 43293, Start Num: 72
Candidate Starts for Richo_66:
(24, 42904), (Start: 72 @43084 has 81 MA's), (94, 43165), (99, 43174),

Gene: Rie18_76 Start: 53133, Stop: 53321, Start Num: 69
Candidate Starts for Rie18_76:
(Start: 65 @53118 has 1 MA's), (Start: 69 @53133 has 84 MA's), (121, 53268), (127, 53286), (131, 53298),

Gene: Rosmarinus_63 Start: 42583, Stop: 42798, Start Num: 70
Candidate Starts for Rosmarinus_63:
(Start: 70 @42583 has 82 MA's), (94, 42670), (99, 42679),

Gene: Ruthiejr_67 Start: 41964, Stop: 42182, Start Num: 72
Candidate Starts for Ruthiejr_67:
(33, 41805), (34, 41814), (Start: 72 @41964 has 81 MA's), (109, 42081), (124, 42117), (129, 42132),

Gene: Ruthy_52 Start: 39090, Stop: 39332, Start Num: 69
Candidate Starts for Ruthy_52:
(Start: 69 @39090 has 84 MA's), (73, 39099), (105, 39216),

Gene: SCentae_156 Start: 112038, Stop: 112301, Start Num: 62
Candidate Starts for SCentae_156:
(45, 111993), (59, 112035), (Start: 62 @112038 has 3 MA's), (105, 112188), (120, 112224), (125, 112236),

Gene: Sakai_48 Start: 30191, Stop: 30385, Start Num: 79
Candidate Starts for Sakai_48:
(Start: 79 @30191 has 12 MA's), (94, 30260), (130, 30338),

Gene: SamScheppers_64 Start: 42393, Stop: 42611, Start Num: 72
Candidate Starts for SamScheppers_64:
(33, 42234), (34, 42243), (Start: 72 @42393 has 81 MA's), (109, 42510), (124, 42546), (129, 42561),

Gene: SamuelLPlaqson_64 Start: 43328, Stop: 43543, Start Num: 70
Candidate Starts for SamuelLPlaqson_64:
(Start: 70 @43328 has 82 MA's), (94, 43415), (99, 43424),

Gene: Scarlett_68 Start: 43514, Stop: 43726, Start Num: 72
Candidate Starts for Scarlett_68:
(Start: 72 @43514 has 81 MA's), (Start: 83 @43535 has 1 MA's), (88, 43577), (94, 43595), (99, 43604), (107, 43628),

Gene: SgtBeansprout_52 Start: 39754, Stop: 39963, Start Num: 72
Candidate Starts for SgtBeansprout_52:
(Start: 72 @39754 has 81 MA's), (94, 39835), (99, 39844),

Gene: Shadow1_68 Start: 42852, Stop: 43064, Start Num: 72
Candidate Starts for Shadow1_68:
(Start: 72 @42852 has 81 MA's), (94, 42933), (99, 42942),

Gene: Shaobing_66 Start: 43121, Stop: 43330, Start Num: 72
Candidate Starts for Shaobing_66:
(24, 42941), (Start: 72 @43121 has 81 MA's), (94, 43202), (99, 43211),

Gene: ShedlockHolmes_65 Start: 42949, Stop: 43161, Start Num: 72
Candidate Starts for ShedlockHolmes_65:
(Start: 72 @42949 has 81 MA's), (99, 43039), (132, 43114),

Gene: ShiaSurprise_64 Start: 42792, Stop: 43007, Start Num: 70
Candidate Starts for ShiaSurprise_64:
(Start: 70 @42792 has 82 MA's), (94, 42879), (99, 42888),

Gene: Shlim410_53 Start: 40090, Stop: 40332, Start Num: 69
Candidate Starts for Shlim410_53:
(Start: 69 @40090 has 84 MA's), (105, 40216),

Gene: Sidious_53 Start: 38484, Stop: 38726, Start Num: 69
Candidate Starts for Sidious_53:
(Start: 69 @38484 has 84 MA's), (105, 38610),

Gene: SketchMex_50 Start: 36207, Stop: 35971, Start Num: 61
Candidate Starts for SketchMex_50:
(53, 36225), (Start: 61 @36207 has 23 MA's), (111, 36060), (114, 36048), (115, 36045),

Gene: Skog_217 Start: 141536, Stop: 141781, Start Num: 66
Candidate Starts for Skog_217:
(Start: 66 @141536 has 1 MA's), (89, 141623), (95, 141641), (105, 141668), (111, 141683), (120, 141701),

Gene: Slarp_66 Start: 41921, Stop: 42139, Start Num: 72
Candidate Starts for Slarp_66:
(33, 41762), (34, 41771), (Start: 72 @41921 has 81 MA's), (109, 42038), (124, 42074), (129, 42089),

Gene: Slimphazie_64 Start: 42892, Stop: 43107, Start Num: 70
Candidate Starts for Slimphazie_64:

(45, 42814), (Start: 70 @42892 has 82 MA's), (94, 42979), (99, 42988),

Gene: Snakehole_77 Start: 52751, Stop: 52939, Start Num: 69

Candidate Starts for Snakehole_77:

(Start: 65 @52736 has 1 MA's), (Start: 69 @52751 has 84 MA's), (87, 52808), (121, 52886), (127, 52904), (131, 52916),

Gene: SoSeph_58 Start: 41654, Stop: 41866, Start Num: 72

Candidate Starts for SoSeph_58:

(Start: 72 @41654 has 81 MA's), (94, 41732), (104, 41756), (105, 41759), (119, 41792), (128, 41813), (134, 41840),

Gene: Spock_63 Start: 42596, Stop: 42811, Start Num: 70

Candidate Starts for Spock_63:

(Start: 70 @42596 has 82 MA's), (94, 42683), (99, 42692),

Gene: SteamedHams_49 Start: 35394, Stop: 35161, Start Num: 61

Candidate Starts for SteamedHams_49:

(27, 35529), (29, 35520), (30, 35517), (40, 35469), (41, 35457), (Start: 61 @35394 has 23 MA's), (85, 35310), (111, 35250),

Gene: Stinson_65 Start: 43220, Stop: 43435, Start Num: 70

Candidate Starts for Stinson_65:

(Start: 70 @43220 has 82 MA's), (94, 43307), (99, 43316),

Gene: Stormageddon_175 Start: 112431, Stop: 112640, Start Num: 74

Candidate Starts for Stormageddon_175:

(Start: 72 @112428 has 81 MA's), (Start: 74 @112431 has 6 MA's), (128, 112590), (135, 112620),

Gene: Sulley_63 Start: 42656, Stop: 42871, Start Num: 70

Candidate Starts for Sulley_63:

(Start: 70 @42656 has 82 MA's), (94, 42743), (99, 42752),

Gene: Sunflower1121_69 Start: 42998, Stop: 43210, Start Num: 72

Candidate Starts for Sunflower1121_69:

(Start: 72 @42998 has 81 MA's), (94, 43079), (99, 43088),

Gene: SweatNTears_51 Start: 36160, Stop: 35927, Start Num: 61

Candidate Starts for SweatNTears_51:

(Start: 61 @36160 has 23 MA's), (85, 36076), (111, 36016),

Gene: Syra333_67 Start: 42711, Stop: 42923, Start Num: 72

Candidate Starts for Syra333_67:

(24, 42528), (Start: 72 @42711 has 81 MA's), (94, 42792), (99, 42801),

Gene: TClif_64 Start: 42546, Stop: 42758, Start Num: 72

Candidate Starts for TClif_64:

(Start: 72 @42546 has 81 MA's), (94, 42627), (99, 42636), (132, 42711),

Gene: TPA4_81 Start: 53987, Stop: 54289, Start Num: 51

Candidate Starts for TPA4_81:

(1, 53147), (17, 53672), (28, 53882), (42, 53957), (51, 53987),

Gene: Tachez_63 Start: 42440, Stop: 42655, Start Num: 70

Candidate Starts for Tachez_63:

(Start: 70 @42440 has 82 MA's), (94, 42527), (99, 42536),

Gene: TaiwanKao_66 Start: 43144, Stop: 43359, Start Num: 70

Candidate Starts for TaiwanKao_66:

(45, 43066), (Start: 70 @43144 has 82 MA's), (94, 43231), (99, 43240),

Gene: Taquito_65 Start: 42156, Stop: 42374, Start Num: 72

Candidate Starts for Taquito_65:

(33, 41997), (34, 42006), (Start: 72 @42156 has 81 MA's), (109, 42273), (124, 42309), (129, 42324),

Gene: Tedro_76 Start: 52895, Stop: 53083, Start Num: 69

Candidate Starts for Tedro_76:

(58, 52859), (Start: 65 @52880 has 1 MA's), (Start: 69 @52895 has 84 MA's), (87, 52952), (127, 53048), (131, 53060),

Gene: ThankyouJordi_56 Start: 40759, Stop: 41001, Start Num: 69

Candidate Starts for ThankyouJordi_56:

(31, 40612), (35, 40627), (37, 40636), (49, 40702), (Start: 69 @40759 has 84 MA's), (105, 40885),

Gene: Thimann_54 Start: 37092, Stop: 37307, Start Num: 69

Candidate Starts for Thimann_54:

(Start: 69 @37092 has 84 MA's), (105, 37191),

Gene: Thyatira_60 Start: 43612, Stop: 43824, Start Num: 72

Candidate Starts for Thyatira_60:

(Start: 72 @43612 has 81 MA's), (94, 43690), (104, 43714), (105, 43717), (119, 43750), (128, 43771), (134, 43798),

Gene: Tierra_67 Start: 43212, Stop: 43424, Start Num: 72

Candidate Starts for Tierra_67:

(3, 42546), (4, 42570), (6, 42645), (14, 42798), (24, 43029), (Start: 72 @43212 has 81 MA's), (94, 43293), (99, 43302),

Gene: Tiff81_50 Start: 28970, Stop: 29161, Start Num: 79

Candidate Starts for Tiff81_50:

(Start: 79 @28970 has 12 MA's),

Gene: TimTam_57 Start: 40719, Stop: 40961, Start Num: 69

Candidate Starts for TimTam_57:

(Start: 69 @40719 has 84 MA's), (105, 40845),

Gene: TingHuaYa_67 Start: 42388, Stop: 42606, Start Num: 70

Candidate Starts for TingHuaYa_67:

(36, 42253), (44, 42310), (Start: 70 @42388 has 82 MA's), (94, 42475), (99, 42484),

Gene: TiniBug_64 Start: 43324, Stop: 43539, Start Num: 70

Candidate Starts for TiniBug_64:

(Start: 70 @43324 has 82 MA's), (94, 43411), (99, 43420),

Gene: Tiri_64 Start: 42728, Stop: 42943, Start Num: 70

Candidate Starts for Tiri_64:

(Start: 70 @42728 has 82 MA's), (94, 42815), (99, 42824),

Gene: Tolls_50 Start: 35802, Stop: 35551, Start Num: 61

Candidate Starts for Tolls_50:

(Start: 61 @35802 has 23 MA's), (64, 35796), (101, 35673), (117, 35628),

Gene: Topper_63 Start: 42595, Stop: 42810, Start Num: 70

Candidate Starts for Topper_63:

(Start: 70 @42595 has 82 MA's), (94, 42682), (99, 42691),

Gene: TreyKay_65 Start: 43082, Stop: 43297, Start Num: 70

Candidate Starts for TreyKay_65:

(45, 43004), (Start: 70 @43082 has 82 MA's), (94, 43169), (99, 43178),

Gene: TribelTrouble_64 Start: 43429, Stop: 43641, Start Num: 72

Candidate Starts for TribelTrouble_64:

(13, 43003), (24, 43246), (Start: 72 @43429 has 81 MA's), (99, 43519),

Gene: Trogglehumper_5 Start: 2263, Stop: 2457, Start Num: 78

Candidate Starts for Trogglehumper_5:

(Start: 78 @2263 has 2 MA's), (87, 2314), (93, 2332), (103, 2356),

Gene: Troje_52 Start: 36545, Stop: 36309, Start Num: 61

Candidate Starts for Troje_52:

(53, 36563), (Start: 61 @36545 has 23 MA's), (111, 36398), (114, 36386), (115, 36383),

Gene: TruffulaTree_64 Start: 42888, Stop: 43103, Start Num: 70

Candidate Starts for TruffulaTree_64:

(45, 42810), (Start: 70 @42888 has 82 MA's), (94, 42975), (99, 42984),

Gene: Twinkle_54 Start: 41149, Stop: 41391, Start Num: 69

Candidate Starts for Twinkle_54:

(Start: 69 @41149 has 84 MA's), (105, 41275),

Gene: Twitch_63 Start: 42597, Stop: 42812, Start Num: 70

Candidate Starts for Twitch_63:

(Start: 70 @42597 has 82 MA's), (94, 42684), (99, 42693),

Gene: Typha_89 Start: 58872, Stop: 59093, Start Num: 74

Candidate Starts for Typha_89:

(Start: 74 @58872 has 6 MA's), (84, 58908), (90, 58938),

Gene: Typhonmachy_49 Start: 35740, Stop: 35507, Start Num: 61

Candidate Starts for Typhonmachy_49:

(Start: 61 @35740 has 23 MA's), (85, 35656), (111, 35596),

Gene: Unicorn_65 Start: 42337, Stop: 42549, Start Num: 72

Candidate Starts for Unicorn_65:

(3, 41674), (4, 41698), (6, 41770), (14, 41923), (24, 42154), (Start: 72 @42337 has 81 MA's), (94, 42418), (99, 42427),

Gene: Urkel_64 Start: 43328, Stop: 43543, Start Num: 70

Candidate Starts for Urkel_64:

(Start: 70 @43328 has 82 MA's), (94, 43415), (99, 43424),

Gene: Validus_68 Start: 43466, Stop: 43675, Start Num: 72

Candidate Starts for Validus_68:

(Start: 72 @43466 has 81 MA's), (94, 43547), (99, 43556), (132, 43631),

Gene: VanLee_109 Start: 57771, Stop: 57962, Start Num: 79

Candidate Starts for VanLee_109:

(Start: 79 @57771 has 12 MA's), (134, 57936),

Gene: Veliki_65 Start: 42859, Stop: 43077, Start Num: 70

Candidate Starts for Veliki_65:

(44, 42781), (Start: 70 @42859 has 82 MA's), (94, 42946), (99, 42955),

Gene: Waterfoul_59 Start: 41716, Stop: 41928, Start Num: 72

Candidate Starts for Waterfoul_59:

(Start: 72 @41716 has 81 MA's), (94, 41794), (104, 41818), (105, 41821), (119, 41854), (128, 41875), (134, 41902),

Gene: WelcomeAyanna_56 Start: 40906, Stop: 41148, Start Num: 69

Candidate Starts for WelcomeAyanna_56:

(31, 40759), (35, 40774), (37, 40783), (49, 40849), (Start: 69 @40906 has 84 MA's), (105, 41032),

Gene: WheatThin_71 Start: 47982, Stop: 48182, Start Num: 77

Candidate Starts for WheatThin_71:

(46, 47898), (50, 47904), (67, 47958), (Start: 71 @47970 has 1 MA's), (Start: 77 @47982 has 10 MA's),

Gene: Wintermute_66 Start: 42151, Stop: 42369, Start Num: 72

Candidate Starts for Wintermute_66:

(33, 41992), (34, 42001), (Start: 72 @42151 has 81 MA's), (109, 42268), (124, 42304), (129, 42319),

Gene: Ximenita_69 Start: 43037, Stop: 43249, Start Num: 72

Candidate Starts for Ximenita_69:

(24, 42854), (Start: 72 @43037 has 81 MA's), (94, 43118), (99, 43127),

Gene: Y10_64 Start: 42079, Stop: 42297, Start Num: 72

Candidate Starts for Y10_64:

(33, 41920), (34, 41929), (Start: 72 @42079 has 81 MA's), (109, 42196), (124, 42232), (129, 42247),

Gene: Y2_64 Start: 42079, Stop: 42297, Start Num: 72

Candidate Starts for Y2_64:

(33, 41920), (34, 41929), (Start: 72 @42079 has 81 MA's), (109, 42196), (124, 42232), (129, 42247),

Gene: Yakult_51 Start: 37137, Stop: 36952, Start Num: 80

Candidate Starts for Yakult_51:

(57, 37200), (Start: 69 @37158 has 84 MA's), (Start: 80 @37137 has 1 MA's), (86, 37098), (106, 37056), (114, 37032), (132, 36996),

Gene: Yarn_46 Start: 35565, Stop: 35314, Start Num: 61

Candidate Starts for Yarn_46:

(Start: 61 @35565 has 23 MA's), (64, 35559), (101, 35436), (117, 35391),

Gene: Yeezy_53 Start: 37368, Stop: 37610, Start Num: 69

Candidate Starts for Yeezy_53:

(Start: 69 @37368 has 84 MA's), (105, 37494),

Gene: YoungHarleezy_50 Start: 31023, Stop: 31214, Start Num: 79

Candidate Starts for YoungHarleezy_50:

(Start: 79 @31023 has 12 MA's),

Gene: YoureAdopted_63 Start: 43008, Stop: 43223, Start Num: 70

Candidate Starts for YoureAdopted_63:

(45, 42930), (Start: 70 @43008 has 82 MA's), (94, 43095), (99, 43104),

Gene: Yummy_52 Start: 36254, Stop: 36018, Start Num: 61

Candidate Starts for Yummy_52:

(53, 36272), (Start: 61 @36254 has 23 MA's), (111, 36107), (114, 36095), (115, 36092),

Gene: Yunkel11_68 Start: 42904, Stop: 43122, Start Num: 70

Candidate Starts for Yunkel11_68:

(44, 42826), (Start: 70 @42904 has 82 MA's), (94, 42991), (99, 43000),

Gene: Zabiza_58 Start: 38745, Stop: 38960, Start Num: 70

Candidate Starts for Zabiza_58:

(Start: 70 @38745 has 82 MA's), (94, 38832), (99, 38841),

Gene: Zavala_66 Start: 43164, Stop: 43382, Start Num: 70

Candidate Starts for Zavala_66:

(44, 43086), (Start: 70 @43164 has 82 MA's), (94, 43251), (99, 43260),