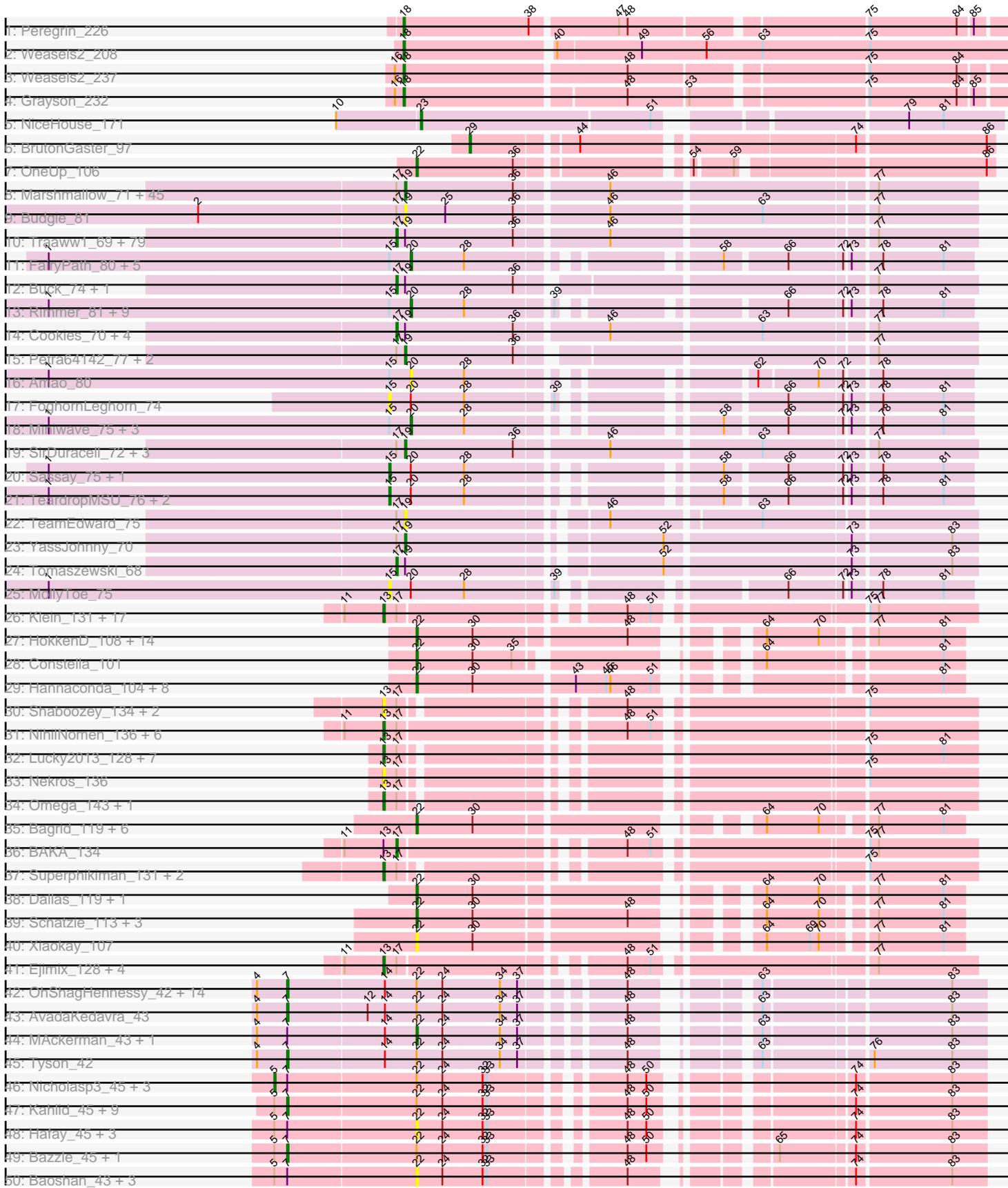
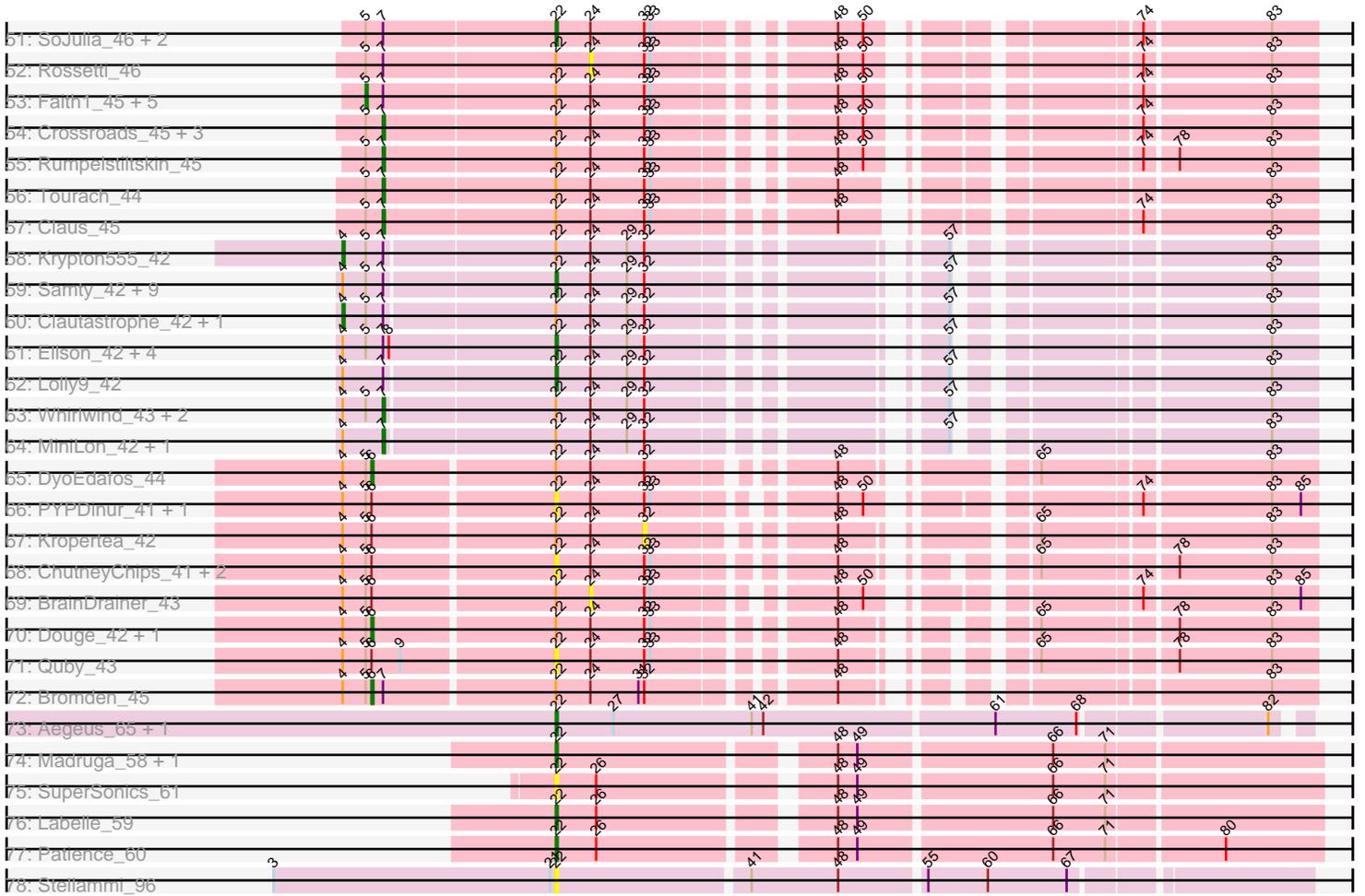


Pham 283392



Pham 283392



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 283392 Report

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

Pham number 283392 has 370 members, 70 are drafts.

Phages represented in each track:

- Track 1 : Peregrin_226
- Track 2 : Weasels2_208
- Track 3 : Weasels2_237
- Track 4 : Grayson_232
- Track 5 : NiceHouse_171
- Track 6 : BrutonGaster_97
- Track 7 : OneUp_106
- Track 8 : Marshmallow_71, PaddyBaddy_73, Bogg_73, Teaspoon_74, Nala_75, Sassay_68, Greep_77, Thresher_75, Murica_76, 244_74, Nimrod_74, FoghornLeghorn_67, Becksu_72, StellaBean_71, Kostya_73, GoldenSpark_77, Youngblood_76, Icee_74, Balomoji_73, FairyPath_73, Simpliphy_72, MadamMonkfish_73, Dumbo_73, NelitzaMV_71, Eureka_71, Goldilocks_76, Terminus_76, CrystalP_72, Cjw1_73, BugsBunny_73, NonchalantPear_71, Daikon_75, Filch_74, Easy2Say_74, Porky_72, Pumpkin_76, Amao_73, Elph10_73, Murphy_73, Command613_75, Brewer_68, Maxxinista_75, Wiggin_75, FireRed_77, Thimble_74, Willez_68
- Track 9 : Budgie_81
- Track 10 : Traaww1_69, Miniwave_68, Highbury_72, NoSleep_74, Glexan_72, Lilizi_74, Inca_70, Gemini_78, MISSy_74, Moldemort_76, Gage_75, Phaja_71, Mosby_69, BilboSwaggins_71, Myrale_73, Manda_74, Elite2014_72, HanKaySha_73, SophKB_70, IHOP_71, MPhalcon_74, Dusk_70, Quallification_74, Kanye_70, Saints25_72, PhatBacter_77, JeTaime_73, BadStone_70, Lilpickle_72, Contagion_69, Argent26_77, ShereKhan_72, Flypotenuse_69, Mindy_72, Hoonter_76, Lilac_75, Phaux_75, Ukulele_68, Cactus_76, Adnama_77, Hopey_73, GooberAzure_76, TBrady12_76, Bench_76, Phrux_70, BaboJay_70, Goku_71, Kimchi_77, Asriel_72, Henry_71, Policronamos_76, TeardropMSU_69, Bruin_70, Palpatine_75, Xandras_72, Tuco_74, Stank_76, Barbarian_72, ShamWow_73, Czyszczonek1_74, xkcd_76, StolenFromERC_76, RiverMonster_73, Sotrice96_74, Harella_73, AmericanBeauty_77, Toto_71, Pharsalus_70, Gator_71, Stark_74, Misfit_74, ChosenOne_73, Emmina_73, Tarkin_72, ABCat_70, HufflyPuff_76, Ptowny_70, DrDrey_73, Holt_78, Paperbeatsrock_72
- Track 11 : FairyPath_80, Phaja_78, SophKB_77, ShereKhan_78, Quallification_81, Myrale_80
- Track 12 : Buck_74, StormChicken_75
- Track 13 : Rimmer_81, Cookies_77, Bask21_80, SirDuracell_79, ChotaBhai_80, Pat3_78, Phaux_82, Policronamos_83, TeamEdward_82, DoctorDiddles_79
- Track 14 : Cookies_70, ChotaBhai_73, Rakim_74, Pat3_71, BigBubba_73

- Track 15 : Petra64142_77, Rimmer_74, MollyToe_68
- Track 16 : Amao_80
- Track 17 : FoghornLeghorn_74
- Track 18 : Miniwave_75, Tarkin_79, Pharsalus_77, Paperbeatsrock_79
- Track 19 : SirDuracell_72, Bask21_73, OrionPax_72, DoctorDiddles_72
- Track 20 : Sassay_75, Willez_75
- Track 21 : TeardropMSU_76, StormChicken_82, YassJohnny_77
- Track 22 : TeamEdward_75
- Track 23 : YassJohnny_70
- Track 24 : Tomaszewski_68
- Track 25 : MollyToe_75
- Track 26 : Klein_131, Redno2_126, Wanda_133, Zelink_129, Odette_138, ThreeRngTarjay_130, Dove_120, Minerva_133, HokkenD_126, DmpstrDiver_134, Constella_128, Duke13_129, Schatzie_130, Yeet_128, Bagrid_135, Hughesyang_134, Phoebus_135, EricMillard_126
- Track 27 : HokkenD_108, Ariel_113, Redno2_112, Lucky2013_110, Courthouse_108, JuicyJay_115, Phoebus_119, Porcelain_113, Squint_111, Rearden_107, Beem_120, Superphikiman_110, MiaZeal_113, NihilNomen_120, Dove_104
- Track 28 : Constella_101
- Track 29 : Hannaconda_104, Nibley_106, KashFlow_110, Shaboozey_111, Nekros_115, BronnyJames_111, Gonephishing_107, Omega_124, LittleE_118
- Track 30 : Shaboozey_134, BronnyJames_131, Nibley_130
- Track 31 : NihilNomen_136, Hidrated_121, Bombitas_122, JuicyJay_131, Bobby_126, Marleymoo_119, Beem_136
- Track 32 : Lucky2013_128, MiaZeal_133, Rearden_132, Gonephishing_128, Hannaconda_127, KashFlow_131, Porcelain_131, Squint_131
- Track 33 : Nekros_136
- Track 34 : Omega_143, LittleE_136
- Track 35 : Bagrid_119, Halley_121, Minerva_116, Hughesyang_118, Pound_108, DmpstrDiver_119, Ejimix_113
- Track 36 : BAKA_134
- Track 37 : Superphikiman_131, Ariel_133, Courthouse_129
- Track 38 : Dallas_119, Thibault_99
- Track 39 : Schatzie_113, Bombitas_106, Yeet_109, Odette_120
- Track 40 : Xiaokay_107
- Track 41 : Ejimix_128, Xiaokay_130, Halley_136, Thibault_119, Dallas_135
- Track 42 : OhShagHennessy_42, Rose5_42, Zaria_43, Enceladus_42, Halena_42, DirkDirk_42, JoeDirt_42, Wyatt2_43, UPIE_43, Wamburggrxpress_43, Silverleaf_42, LeBron_43, Acquire49_43, Appletree2_42, Calm_43
- Track 43 : AvadaKedavra_43
- Track 44 : MAckerman_43, CicholasNage_43
- Track 45 : Tyson_42
- Track 46 : Nicholasp3_45, Loadrie_44, GuuelaD_44, Wigglewiggles_45
- Track 47 : Kahlid_45, MkaliMitinis3_45, Gabriela_45, BigCheese_45, DrSeegs_45, Vetric_45, Lewan_45, Netyap_45, Wilder_45, LilDestine_45
- Track 48 : Hafay_45, OverPar_46, Soap141_45, Sarshaun_45
- Track 49 : Bazzle_45, Archie_45
- Track 50 : Baoshan_43, ZhongYanYuan_43, DHan_46, DanBing_44
- Track 51 : SoJulia_46, Lynnae_45, BobsGarage_45
- Track 52 : Rossetti_46
- Track 53 : Faith1_45, Itos_44, Winky_45, Breezona_45, Finemlucis_45, Miley16_45
- Track 54 : Crossroads_45, Zakai_45, Gardann_45, Underpass_45

- Track 55 : Rumpelstiltskin_45
- Track 56 : Tourach_44
- Track 57 : Claus_45
- Track 58 : Krypton555_42
- Track 59 : Samty_42, Moostard_42, Red305_42, Jobypre_42, Kingsolomon_42, Bellis_42, Snenia_42, Finnry_42, Nicholas_42, TriFive_42
- Track 60 : Clautastrophe_42, MsGreen_42
- Track 61 : Ellson_42, LiyuLake_42, BourbonZero_41, KirDoubleO7_40, DuncansLeg_42
- Track 62 : Lolly9_42
- Track 63 : Whirlwind_43, Jubie_42, Lumos_42
- Track 64 : MiniLon_42, MiniMac_42
- Track 65 : DyoEdafos_44
- Track 66 : PYPDinur_41, Sheng711_43
- Track 67 : Kropertea_42
- Track 68 : ChutneyChips_41, FarmResident_43, Douzhi_42
- Track 69 : BrainDrainer_43
- Track 70 : Douge_42, Chaser_42
- Track 71 : Quby_43
- Track 72 : Bromden_45
- Track 73 : Aegeus_65, Baudelaire_65
- Track 74 : Madrugá_58, Demikore_60
- Track 75 : SuperSonics_61
- Track 76 : Labelle_59
- Track 77 : Patience_60
- Track 78 : Stellammi_96

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

The start number called the most often in the published annotations is 17, it was called in 87 of the 300 non-draft genes in the pham.

Genes that call this "Most Annotated" start:

• ABCat_70, Adnama_77, AmericanBeauty_77, Argent26_77, Asriel_72, BAKA_134, BaboJay_70, BadStone_70, Barbarian_72, Bench_76, BigBubba_73, BilboSwaggins_71, Bruin_70, Buck_74, Cactus_76, ChosenOne_73, ChotaBhai_73, Contagion_69, Cookies_70, Czyszczonek_74, DrDrey_73, Dusk_70, Elite2014_72, Emmina_73, Flypotenuse_69, Gage_75, Gator_71, Gemini_78, Glexan_72, Goku_71, GooberAzure_76, HanKaySha_73, Harella_73, Henry_71, Highbury_72, Holt_78, Hoonter_76, Hopey_73, HufflyPuff_76, IHOP_71, Inca_70, JeTaime_73, Kanye_70, Kimchi_77, Lilac_75, Lilizi_74, Lilpickle_72, MISSy_74, MPhalcon_74, Manda_74, Mindy_72, Miniwave_68, Misfit_74, Moldemort_76, Mosby_69, Myrale_73, NoSleep_74, Palpatine_75, Paperbeatsrock_72, Pat3_71, Phaja_71, Pharsalus_70, PhatBacter_77, Phaux_75, Phrux_70, Policronamos_76, Ptowny_70, Quallification_74, Rakim_74, RiverMonster_73, Saints25_72, ShamWow_73, ShereKhan_72, SophKB_70, Sotrice96_74, Stank_76, Stark_74, StolenFromERC_76, StormChicken_75, TBrady12_76, Tarkin_72, TeardropMSU_69, Tomaszewski_68, Toto_71, Traaww1_69, Tuco_74, Ukulele_68, Xandras_72, xkcd_76,

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

- 244_74, Amao_73, Ariel_133, Bagrid_135, Balomogi_73, Bask21_73, Becksu_72, Beem_136, Bobby_126, Bogg_73, Bombitas_122, Brewer_68, BronnyJames_131, Budgie_81, BugsBunny_73, Cjw1_73, Command613_75, Constella_128, Courthouse_129, CrystalP_72, Daikon_75, Dallas_135, DmpstrDiver_134, DoctorDiddles_72, Dove_120, Duke13_129, Dumbo_73, Easy2Say_74, Ejimix_128, Elph10_73, EricMillard_126, Eureka_71, FairyPath_73, Filch_74, FireRed_77, FoghornLeghorn_67, GoldenSpark_77, Goldilocks_76, Gonephishing_128, Greep_77, Halley_136, Hannaconda_127, Hidrated_121, HokkenD_126, Hughesyang_134, Icee_74, JuicyJay_131, KashFlow_131, Klein_131, Kostya_73, LittleE_136, Lucky2013_128, MadamMonkfish_73, Marleymoo_119, Marshmallow_71, Maxxinista_75, MiaZeal_133, Minerva_133, MollyToe_68, Murica_76, Murphy_73, Nala_75, Nekros_136, NelitzaMV_71, Nibley_130, NihilNomen_136, Nimrod_74, NonchalantPear_71, Odette_138, Omega_143, OrionPax_72, PaddyBaddy_73, Petra64142_77, Phoebus_135, Porcelain_131, Porky_72, Pumpkin_76, Rearden_132, Redno2_126, Rimmer_74, Sassay_68, Schatzie_130, Shaboozey_134, Simpliphy_72, SirDuracell_72, Squint_131, StellaBean_71, Superphikiman_131, TeamEdward_75, Teaspoon_74, Terminus_76, Thibault_119, Thimble_74, ThreeRngTarjay_130, Thresher_75, Wanda_133, Wiggins_75, Willez_68, Xiaokay_130, YassJohnny_70, Yeet_128, Youngblood_76, Zelink_129,

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

- Acquire49_43, Aegeus_65, Amao_80, Appletree2_42, Archie_45, Ariel_113, AvadaKedavra_43, Bagrid_119, Baoshan_43, Bask21_80, Baudelaire_65, Bazzle_45, Beem_120, Bellis_42, BigCheese_45, BobsGarage_45, Bombitas_106, BourbonZero_41, BrainDrainer_43, Breezona_45, Bromden_45, BronnyJames_111, BrutonGaster_97, Calm_43, Chaser_42, ChotaBhai_80, ChutneyChips_41, CicholasNage_43, Claus_45, Clautastrophe_42, Constella_101, Cookies_77, Courthouse_108, Crossroads_45, DHan_46, Dallas_119, DanBing_44, Demikore_60, DirkDirk_42, DmpstrDiver_119, DoctorDiddles_79, Douge_42, Douzhi_42, Dove_104, DrSeegs_45, DuncansLeg_42, DyoEdafos_44, Ejimix_113, Ellson_42, Enceladus_42, FairyPath_80, Faith1_45, FarmResident_43, Finemlucis_45, Finnry_42, FoghornLeghorn_74, Gabriela_45, Gardann_45, Gonephishing_107, Grayson_232, GuuelaD_44, Hafay_45, Halena_42, Halley_121, Hannaconda_104, HokkenD_108, Hughesyang_118, Itos_44, Jobypre_42, JoeDirt_42, Jubie_42, JuicyJay_115, Kahlid_45, KashFlow_110, Kingsolomon_42, KirDoubleO7_40, Kropertea_42, Krypton555_42, Labelle_59, LeBron_43, Lewan_45, LilDestine_45, LittleE_118, LiyuLake_42, Loadrie_44, Lolly9_42, Lucky2013_110, Lumos_42, Lynnae_45, MAckerman_43, Madruga_58, MiaZeal_113, Miley16_45, Minerva_116, MiniLon_42, MiniMac_42, Miniwave_75, MkaliMitinis3_45, MollyToe_75, Moostard_42, MsGreen_42, Myrale_80, Nekros_115, Netyap_45, Nibley_106, NiceHouse_171, Nicholas_42, Nicholasp3_45, NihilNomen_120, Odette_120, OhShagHennessy_42, Omega_124, OneUp_106, OverPar_46, PYPDinur_41, Paperbeatsrock_79, Pat3_78, Patience_60, Peregrin_226, Phaja_78, Pharsalus_77, Phaux_82, Phoebus_119, Policronamos_83, Porcelain_113, Pound_108, Quallification_81, Quby_43, Rearden_107, Red305_42, Redno2_112, Rimmer_81, Rose5_42, Rossetti_46, Rumpelstiltskin_45, Samty_42, Sarshaun_45, Sassay_75, Schatzie_113, Shaboozey_111, Sheng711_43, ShereKhan_78, Silverleaf_42, SirDuracell_79, Snenia_42, SoJulia_46, Soap141_45, SophKB_77, Squint_111, Stellammi_96, StormChicken_82, SuperSonics_61, Superphikiman_110, Tarkin_79, TeamEdward_82, TeardropMSU_76, Thibault_99, Tourach_44, TriFive_42, Tyson_42, UPIE_43, Underpass_45, Vetrix_45, Wamburgrxpress_43,

Weasels2_208, Weasels2_237, Whirlwind_43, Wigglewiggler_45, Wilder_45, Willez_75, Winky_45, Wyatt2_43, Xiaokay_107, YassJohnny_77, Yeet_109, Zakai_45, Zaria_43, ZhongYanYuan_43,

Summary by start number:

Start 4:

- Found in 55 of 370 (14.9%) of genes in pham
- Manual Annotations of this start: 3 of 300
- Called 5.5% of time when present
- Phage (with cluster) where this start called: Clautastrophe_42 (L3), Krypton555_42 (L3), MsGreen_42 (L3),

Start 5:

- Found in 74 of 370 (20.0%) of genes in pham
- Manual Annotations of this start: 10 of 300
- Called 13.5% of time when present
- Phage (with cluster) where this start called: Breezonia_45 (L2), Faith1_45 (L2), Finemlucis_45 (L2), GuuelaD_44 (L2), Itos_44 (L2), Loadrie_44 (L2), Miley16_45 (L2), Nicholasp3_45 (L2), Wigglewiggler_45 (L2), Winky_45 (L2),

Start 6:

- Found in 12 of 370 (3.2%) of genes in pham
- Manual Annotations of this start: 4 of 300
- Called 33.3% of time when present
- Phage (with cluster) where this start called: Bromden_45 (L4), Chaser_42 (L4), Douge_42 (L4), DyoEdafos_44 (L4),

Start 7:

- Found in 85 of 370 (23.0%) of genes in pham
- Manual Annotations of this start: 41 of 300
- Called 48.2% of time when present
- Phage (with cluster) where this start called: Acquire49_43 (L1), Appletree2_42 (L1), Archie_45 (L2), AvadaKedavra_43 (L1), Bazzle_45 (L2), BigCheese_45 (L2), Calm_43 (L1), Claus_45 (L2), Crossroads_45 (L2), DirkDirk_42 (L1), DrSeegs_45 (L2), Enceladus_42 (L1), Gabriela_45 (L2), Gardann_45 (L2), Halena_42 (L1), JoeDirt_42 (L1), Jubie_42 (L3), Kahlid_45 (L2), LeBron_43 (L1), Lewan_45 (L2), LilDestine_45 (L2), Lumos_42 (L3), MiniLon_42 (L3), MiniMac_42 (L3), MkaliMitinis3_45 (L2), Netyap_45 (L2), OhShagHennessy_42 (L1), Rose5_42 (L1), Rumpelstiltskin_45 (L2), Silverleaf_42 (L1), Tourach_44 (L2), Tyson_42 (L1), UPIE_43 (L1), Underpass_45 (L2), Vetrix_45 (L2), Wamburggrxpress_43 (L1), Whirlwind_43 (L3), Wilder_45 (L2), Wyatt2_43 (L1), Zakai_45 (L2), Zaria_43 (L1),

Start 13:

- Found in 48 of 370 (13.0%) of genes in pham
- Manual Annotations of this start: 36 of 300
- Called 97.9% of time when present
- Phage (with cluster) where this start called: Ariel_133 (J), Bagrid_135 (J), Beem_136 (J), Bobby_126 (J), Bombitas_122 (J), BronnyJames_131 (J), Constella_128 (J), Courthouse_129 (J), Dallas_135 (J), DmpstrDiver_134 (J), Dove_120 (J), Duke13_129 (J), Ejimix_128 (J), EricMillard_126 (J), Gonephishing_128 (J), Halley_136 (J), Hannaconda_127 (J), Hidrated_121 (J), HokkenD_126 (J), Hughesyang_134 (J), JuicyJay_131 (J), KashFlow_131 (J), Klein_131 (J), LittleE_136

(J), Lucky2013_128 (J), Marleymoo_119 (J), MiaZeal_133 (J), Minerva_133 (J), Nekros_136 (J), Nibley_130 (J), NihilNomen_136 (J), Odette_138 (J), Omega_143 (J), Phoebus_135 (J), Porcelain_131 (J), Rearden_132 (J), Redno2_126 (J), Schatzie_130 (J), Shaboozey_134 (J), Squint_131 (J), Superphikiman_131 (J), Thibault_119 (J), ThreeRngTarjay_130 (J), Wanda_133 (J), Xiaokay_130 (J), Yeet_128 (J), Zelink_129 (J),

Start 15:

- Found in 28 of 370 (7.6%) of genes in pham
- Manual Annotations of this start: 4 of 300
- Called 25.0% of time when present
- Phage (with cluster) where this start called: FoghornLeghorn_74 (E), MollyToe_75 (E), Sassay_75 (E), StormChicken_82 (E), TeardropMSU_76 (E), Willez_75 (E), YassJohnny_77 (E),

Start 17:

- Found in 192 of 370 (51.9%) of genes in pham
- Manual Annotations of this start: 87 of 300
- Called 46.4% of time when present
- Phage (with cluster) where this start called: ABCat_70 (E), Adnama_77 (E), AmericanBeauty_77 (E), Argent26_77 (E), Asriel_72 (E), BAKA_134 (J), BaboJay_70 (E), BadStone_70 (E), Barbarian_72 (E), Bench_76 (E), BigBubba_73 (E), BilboSwaggins_71 (E), Bruin_70 (E), Buck_74 (E), Cactus_76 (E), ChosenOne_73 (E), ChotaBhai_73 (E), Contagion_69 (E), Cookies_70 (E), Czystczon1_74 (E), DrDrey_73 (E), Dusk_70 (E), Elite2014_72 (E), Emmina_73 (E), Flypotenuse_69 (E), Gage_75 (E), Gator_71 (E), Gemini_78 (E), Glexan_72 (E), Goku_71 (E), GooberAzure_76 (E), HankaySha_73 (E), Harella_73 (E), Henry_71 (E), Highbury_72 (E), Holt_78 (E), Hoonter_76 (E), Hopey_73 (E), HufflyPuff_76 (E), IHOP_71 (E), Inca_70 (E), JeTaimie_73 (E), Kanye_70 (E), Kimchi_77 (E), Lilac_75 (E), Lilizi_74 (E), Lilpickle_72 (E), MISSy_74 (E), MPhalcon_74 (E), Manda_74 (E), Mindy_72 (E), Miniwave_68 (E), Misfit_74 (E), Moldemort_76 (E), Mosby_69 (E), Myrale_73 (E), NoSleep_74 (E), Palpatine_75 (E), Paperbeatsrock_72 (E), Pat3_71 (E), Phaja_71 (E), Pharsalus_70 (E), PhatBacter_77 (E), Phaux_75 (E), Phrux_70 (E), Policronamos_76 (E), Ptowny_70 (E), Quallification_74 (E), Rakim_74 (E), RiverMonster_73 (E), Saints25_72 (E), ShamWow_73 (E), ShereKhan_72 (E), SophKB_70 (E), Sotrice96_74 (E), Stank_76 (E), Stark_74 (E), StolenFromERC_76 (E), StormChicken_75 (E), TBrady12_76 (E), Tarkin_72 (E), TeardropMSU_69 (E), Tomaszewski_68 (E), Toto_71 (E), Traaww1_69 (E), Tuco_74 (E), Ukulele_68 (E), Xandras_72 (E), xkcd_76 (E),

Start 18:

- Found in 4 of 370 (1.1%) of genes in pham
- Manual Annotations of this start: 4 of 300
- Called 100.0% of time when present
- Phage (with cluster) where this start called: Grayson_232 (CB), Peregrin_226 (CB), Weasels2_208 (CB), Weasels2_237 (CB),

Start 19:

- Found in 144 of 370 (38.9%) of genes in pham
- Manual Annotations of this start: 41 of 300
- Called 38.9% of time when present
- Phage (with cluster) where this start called: 244_74 (E), Amao_73 (E), Balomoji_73 (E), Bask21_73 (E), Becksu_72 (E), Bogg_73 (E), Brewer_68 (E), Budgie_81 (E),

BugsBunny_73 (E), Cjw1_73 (E), Command613_75 (E), CrystalP_72 (E), Daikon_75 (E), DoctorDiddles_72 (E), Dumbo_73 (E), Easy2Say_74 (E), Elph10_73 (E), Eureka_71 (E), FairyPath_73 (E), Filch_74 (E), FireRed_77 (E), FoghornLeghorn_67 (E), GoldenSpark_77 (E), Goldilocks_76 (E), Greep_77 (E), Icee_74 (E), Kostya_73 (E), MadamMonkfish_73 (E), Marshmallow_71 (E), Maxxinista_75 (E), MollyToe_68 (E), Murica_76 (E), Murphy_73 (E), Nala_75 (E), NelitzaMV_71 (E), Nimrod_74 (E), NonchalantPear_71 (E), OrionPax_72 (E), PaddyBaddy_73 (E), Petra64142_77 (E), Porky_72 (E), Pumpkin_76 (E), Rimmer_74 (E), Sassay_68 (E), Simpliphy_72 (E), SirDuracell_72 (E), StellaBean_71 (E), TeamEdward_75 (E), Teaspoon_74 (E), Terminus_76 (E), Thimble_74 (E), Thresher_75 (E), Wiggin_75 (E), Willez_68 (E), YassJohnny_70 (E), Youngblood_76 (E),

Start 20:

- Found in 28 of 370 (7.6%) of genes in pham
- Manual Annotations of this start: 18 of 300
- Called 75.0% of time when present
- Phage (with cluster) where this start called: Amao_80 (E), Bask21_80 (E), ChotaBhai_80 (E), Cookies_77 (E), DoctorDiddles_79 (E), FairyPath_80 (E), Miniwave_75 (E), Myrale_80 (E), Paperbeatsrock_79 (E), Pat3_78 (E), Phaja_78 (E), Pharsalus_77 (E), Phaux_82 (E), Policronamos_83 (E), Quallification_81 (E), Rimmer_81 (E), ShereKhan_78 (E), SirDuracell_79 (E), SophKB_77 (E), Tarkin_79 (E), TeamEdward_82 (E),

Start 22:

- Found in 144 of 370 (38.9%) of genes in pham
- Manual Annotations of this start: 50 of 300
- Called 57.6% of time when present
- Phage (with cluster) where this start called: Aegeus_65 (L5), Ariel_113 (J), Bagrid_119 (J), Baoshan_43 (L2), Baudelaire_65 (L5), Beem_120 (J), Bellis_42 (L3), BobsGarage_45 (L2), Bombitas_106 (J), BourbonZero_41 (L3), BronnyJames_111 (J), ChutneyChips_41 (L4), CicholasNage_43 (L1), Constella_101 (J), Courthouse_108 (J), DHan_46 (L2), Dallas_119 (J), DanBing_44 (L2), Demikore_60 (U), DmpstrDiver_119 (J), Douzhi_42 (L4), Dove_104 (J), DuncansLeg_42 (L3), Ejimix_113 (J), Ellson_42 (L3), FarmResident_43 (L4), Finnry_42 (L3), Gonephishing_107 (J), Hafay_45 (L2), Halley_121 (J), Hannaconda_104 (J), HokkenD_108 (J), Hughesyang_118 (J), Jobypre_42 (L3), JuicyJay_115 (J), KashFlow_110 (J), Kingsolomon_42 (L3), KirDoubleO7_40 (L3), Labelle_59 (U), LittleE_118 (J), LiyuLake_42 (L3), Lolly9_42 (L3), Lucky2013_110 (J), Lynnae_45 (L2), MAckerman_43 (L1), Madrugua_58 (U), MiaZeal_113 (J), Minerva_116 (J), Moostard_42 (L3), Nekros_115 (J), Nibley_106 (J), Nicholas_42 (L3), NihilNomen_120 (J), Odette_120 (J), Omega_124 (J), OneUp_106 (CQ2), OverPar_46 (L2), PYPDinur_41 (L4), Patience_60 (U), Phoebus_119 (J), Porcelain_113 (J), Pound_108 (J), Quby_43 (L4), Rearden_107 (J), Red305_42 (L3), Redno2_112 (J), Samty_42 (L3), Sarshaun_45 (L2), Schatzie_113 (J), Shaboozey_111 (J), Sheng711_43 (L4), Snenia_42 (L3), SoJulia_46 (L2), Soap141_45 (L2), Squint_111 (J), Stellammi_96 (UNK), SuperSonics_61 (U), Superphikiman_110 (J), Thibault_99 (J), TriFive_42 (L3), Xiaokay_107 (J), Yeet_109 (J), ZhongYanYuan_43 (L2),

Start 23:

- Found in 1 of 370 (0.3%) of genes in pham
- Manual Annotations of this start: 1 of 300
- Called 100.0% of time when present

- Phage (with cluster) where this start called: NiceHouse_171 (CE),

Start 24:

- Found in 96 of 370 (25.9%) of genes in pham
- No Manual Annotations of this start.
- Called 2.1% of time when present
- Phage (with cluster) where this start called: BrainDrainer_43 (L4), Rossetti_46 (L2),

Start 29:

- Found in 25 of 370 (6.8%) of genes in pham
- Manual Annotations of this start: 1 of 300
- Called 4.0% of time when present
- Phage (with cluster) where this start called: BrutonGaster_97 (CQ2),

Start 32:

- Found in 77 of 370 (20.8%) of genes in pham
- No Manual Annotations of this start.
- Called 1.3% of time when present
- Phage (with cluster) where this start called: Kropertea_42 (L4),

Summary by clusters:

There are 12 clusters represented in this pham: E, CQ2, CB, J, CE, L4, L5, L2, L3, L1, U, UNK,

Info for manual annotations of cluster CB:

- Start number 18 was manually annotated 4 times for cluster CB.

Info for manual annotations of cluster CE:

- Start number 23 was manually annotated 1 time for cluster CE.

Info for manual annotations of cluster CQ2:

- Start number 22 was manually annotated 1 time for cluster CQ2.
- Start number 29 was manually annotated 1 time for cluster CQ2.

Info for manual annotations of cluster E:

- Start number 15 was manually annotated 4 times for cluster E.
- Start number 17 was manually annotated 86 times for cluster E.
- Start number 19 was manually annotated 41 times for cluster E.
- Start number 20 was manually annotated 18 times for cluster E.

Info for manual annotations of cluster J:

- Start number 13 was manually annotated 36 times for cluster J.
- Start number 17 was manually annotated 1 time for cluster J.
- Start number 22 was manually annotated 30 times for cluster J.

Info for manual annotations of cluster L1:

- Start number 7 was manually annotated 17 times for cluster L1.
- Start number 22 was manually annotated 2 times for cluster L1.

Info for manual annotations of cluster L2:

- Start number 5 was manually annotated 10 times for cluster L2.
- Start number 7 was manually annotated 19 times for cluster L2.

- Start number 22 was manually annotated 1 time for cluster L2.

Info for manual annotations of cluster L3:

- Start number 4 was manually annotated 3 times for cluster L3.
- Start number 7 was manually annotated 5 times for cluster L3.
- Start number 22 was manually annotated 11 times for cluster L3.

Info for manual annotations of cluster L4:

- Start number 6 was manually annotated 4 times for cluster L4.

Info for manual annotations of cluster L5:

- Start number 22 was manually annotated 2 times for cluster L5.

Info for manual annotations of cluster U:

- Start number 22 was manually annotated 3 times for cluster U.

Gene Information:

Gene: 244_74 Start: 47428, Stop: 47793, Start Num: 19

Candidate Starts for 244_74:

(Start: 17 @47422 has 87 MA's), (Start: 19 @47428 has 41 MA's), (36, 47500), (46, 47554), (77, 47725),

Gene: ABCat_70 Start: 47769, Stop: 48146, Start Num: 17

Candidate Starts for ABCat_70:

(Start: 17 @47769 has 87 MA's), (Start: 19 @47775 has 41 MA's), (36, 47847), (46, 47907), (77, 48078),

Gene: Acquire49_43 Start: 34025, Stop: 34441, Start Num: 7

Candidate Starts for Acquire49_43:

(Start: 4 @34004 has 3 MA's), (Start: 7 @34025 has 41 MA's), (14, 34091), (Start: 22 @34112 has 50 MA's), (24, 34130), (34, 34169), (37, 34181), (48, 34238), (63, 34298), (83, 34418),

Gene: Adnama_77 Start: 47795, Stop: 48172, Start Num: 17

Candidate Starts for Adnama_77:

(Start: 17 @47795 has 87 MA's), (Start: 19 @47801 has 41 MA's), (36, 47873), (46, 47933), (77, 48104),

Gene: Aegeus_65 Start: 44400, Stop: 44765, Start Num: 22

Candidate Starts for Aegeus_65:

(Start: 22 @44400 has 50 MA's), (27, 44430), (41, 44502), (42, 44508), (61, 44622), (68, 44664), (82, 44751),

Gene: Amao_80 Start: 49569, Stop: 49901, Start Num: 20

Candidate Starts for Amao_80:

(1, 49317), (Start: 15 @49554 has 4 MA's), (Start: 20 @49569 has 18 MA's), (28, 49605), (62, 49764), (70, 49803), (72, 49818), (78, 49839),

Gene: Amao_73 Start: 47195, Stop: 47566, Start Num: 19

Candidate Starts for Amao_73:

(Start: 17 @47189 has 87 MA's), (Start: 19 @47195 has 41 MA's), (36, 47267), (46, 47327), (77, 47498),

Gene: AmericanBeauty_77 Start: 47938, Stop: 48315, Start Num: 17

Candidate Starts for AmericanBeauty_77:

(Start: 17 @47938 has 87 MA's), (Start: 19 @47944 has 41 MA's), (36, 48016), (46, 48076), (77, 48247),

Gene: Appletree2_42 Start: 33952, Stop: 34368, Start Num: 7

Candidate Starts for Appletree2_42:

(Start: 4 @33931 has 3 MA's), (Start: 7 @33952 has 41 MA's), (14, 34018), (Start: 22 @34039 has 50 MA's), (24, 34057), (34, 34096), (37, 34108), (48, 34165), (63, 34225), (83, 34345),

Gene: Archie_45 Start: 35560, Stop: 35976, Start Num: 7

Candidate Starts for Archie_45:

(Start: 5 @35551 has 10 MA's), (Start: 7 @35560 has 41 MA's), (Start: 22 @35647 has 50 MA's), (24, 35665), (32, 35692), (33, 35695), (48, 35770), (50, 35782), (65, 35842), (74, 35890), (83, 35953),

Gene: Argent26_77 Start: 47576, Stop: 47953, Start Num: 17

Candidate Starts for Argent26_77:

(Start: 17 @47576 has 87 MA's), (Start: 19 @47582 has 41 MA's), (36, 47654), (46, 47714), (77, 47885),

Gene: Ariel_113 Start: 61833, Stop: 62153, Start Num: 22

Candidate Starts for Ariel_113:

(Start: 22 @61833 has 50 MA's), (30, 61872), (48, 61971), (64, 62028), (70, 62064), (77, 62094), (81, 62139),

Gene: Ariel_133 Start: 69964, Stop: 70317, Start Num: 13

Candidate Starts for Ariel_133:

(Start: 13 @69964 has 36 MA's), (Start: 17 @69973 has 87 MA's), (75, 70243),

Gene: Asriel_72 Start: 46132, Stop: 46509, Start Num: 17

Candidate Starts for Asriel_72:

(Start: 17 @46132 has 87 MA's), (Start: 19 @46138 has 41 MA's), (36, 46210), (46, 46270), (77, 46441),

Gene: AvadaKedavra_43 Start: 34034, Stop: 34450, Start Num: 7

Candidate Starts for AvadaKedavra_43:

(Start: 4 @34013 has 3 MA's), (Start: 7 @34034 has 41 MA's), (12, 34088), (14, 34100), (Start: 22 @34121 has 50 MA's), (24, 34139), (34, 34178), (37, 34190), (48, 34247), (63, 34307), (83, 34427),

Gene: BAKA_134 Start: 72670, Stop: 73020, Start Num: 17

Candidate Starts for BAKA_134:

(11, 72634), (Start: 13 @72661 has 36 MA's), (Start: 17 @72670 has 87 MA's), (48, 72802), (51, 72817), (75, 72946), (77, 72952),

Gene: BaboJay_70 Start: 46969, Stop: 47346, Start Num: 17

Candidate Starts for BaboJay_70:

(Start: 17 @46969 has 87 MA's), (Start: 19 @46975 has 41 MA's), (36, 47047), (46, 47107), (77, 47278),

Gene: BadStone_70 Start: 47338, Stop: 47715, Start Num: 17

Candidate Starts for BadStone_70:

(Start: 17 @47338 has 87 MA's), (Start: 19 @47344 has 41 MA's), (36, 47416), (46, 47476), (77, 47647),

Gene: Bagrid_119 Start: 66108, Stop: 66428, Start Num: 22

Candidate Starts for Bagrid_119:

(Start: 22 @66108 has 50 MA's), (30, 66147), (64, 66303), (70, 66339), (77, 66369), (81, 66414),

Gene: Bagrid_135 Start: 72784, Stop: 73143, Start Num: 13

Candidate Starts for Bagrid_135:

(11, 72757), (Start: 13 @72784 has 36 MA's), (Start: 17 @72793 has 87 MA's), (48, 72925), (51, 72940), (75, 73069), (77, 73075),

Gene: Balomoji_73 Start: 47905, Stop: 48276, Start Num: 19

Candidate Starts for Balomoji_73:

(Start: 17 @47899 has 87 MA's), (Start: 19 @47905 has 41 MA's), (36, 47977), (46, 48037), (77, 48208),

Gene: Baoshan_43 Start: 35304, Stop: 35633, Start Num: 22

Candidate Starts for Baoshan_43:

(Start: 5 @35208 has 10 MA's), (Start: 7 @35217 has 41 MA's), (Start: 22 @35304 has 50 MA's), (24, 35322), (32, 35349), (33, 35352), (48, 35430), (74, 35547), (83, 35610),

Gene: Barbarian_72 Start: 46132, Stop: 46509, Start Num: 17

Candidate Starts for Barbarian_72:

(Start: 17 @46132 has 87 MA's), (Start: 19 @46138 has 41 MA's), (36, 46210), (46, 46270), (77, 46441),

Gene: Bask21_80 Start: 49132, Stop: 49467, Start Num: 20

Candidate Starts for Bask21_80:

(1, 48880), (Start: 15 @49117 has 4 MA's), (Start: 20 @49132 has 18 MA's), (28, 49168), (39, 49222), (66, 49348), (72, 49384), (73, 49387), (78, 49405), (81, 49447),

Gene: Bask21_73 Start: 46758, Stop: 47129, Start Num: 19

Candidate Starts for Bask21_73:

(Start: 17 @46752 has 87 MA's), (Start: 19 @46758 has 41 MA's), (36, 46830), (46, 46890), (63, 46989), (77, 47061),

Gene: Baudelaire_65 Start: 44400, Stop: 44765, Start Num: 22

Candidate Starts for Baudelaire_65:

(Start: 22 @44400 has 50 MA's), (27, 44430), (41, 44502), (42, 44508), (61, 44622), (68, 44664), (82, 44751),

Gene: Bazzle_45 Start: 35592, Stop: 36008, Start Num: 7

Candidate Starts for Bazzle_45:

(Start: 5 @35583 has 10 MA's), (Start: 7 @35592 has 41 MA's), (Start: 22 @35679 has 50 MA's), (24, 35697), (32, 35724), (33, 35727), (48, 35802), (50, 35814), (65, 35874), (74, 35922), (83, 35985),

Gene: Becksu_72 Start: 47977, Stop: 48345, Start Num: 19

Candidate Starts for Becksu_72:

(Start: 17 @47971 has 87 MA's), (Start: 19 @47977 has 41 MA's), (36, 48049), (46, 48109), (77, 48277),

Gene: Beem_120 Start: 67476, Stop: 67796, Start Num: 22
Candidate Starts for Beem_120:
(Start: 22 @67476 has 50 MA's), (30, 67515), (48, 67614), (64, 67671), (70, 67707), (77, 67737), (81, 67782),

Gene: Beem_136 Start: 74259, Stop: 74618, Start Num: 13
Candidate Starts for Beem_136:
(11, 74232), (Start: 13 @74259 has 36 MA's), (Start: 17 @74268 has 87 MA's), (48, 74400), (51, 74415),

Gene: Bellis_42 Start: 35732, Stop: 36055, Start Num: 22
Candidate Starts for Bellis_42:
(Start: 4 @35627 has 3 MA's), (Start: 5 @35639 has 10 MA's), (Start: 7 @35648 has 41 MA's), (Start: 22 @35732 has 50 MA's), (24, 35750), (Start: 29 @35768 has 1 MA's), (32, 35777), (57, 35894), (83, 36032),

Gene: Bench_76 Start: 47439, Stop: 47813, Start Num: 17
Candidate Starts for Bench_76:
(Start: 17 @47439 has 87 MA's), (Start: 19 @47445 has 41 MA's), (36, 47517), (46, 47577), (77, 47745),

Gene: BigBubba_73 Start: 47151, Stop: 47525, Start Num: 17
Candidate Starts for BigBubba_73:
(Start: 17 @47151 has 87 MA's), (Start: 19 @47157 has 41 MA's), (36, 47229), (46, 47289), (63, 47385), (77, 47457),

Gene: BigCheese_45 Start: 35356, Stop: 35772, Start Num: 7
Candidate Starts for BigCheese_45:
(Start: 5 @35347 has 10 MA's), (Start: 7 @35356 has 41 MA's), (Start: 22 @35443 has 50 MA's), (24, 35461), (32, 35488), (33, 35491), (48, 35566), (50, 35578), (74, 35686), (83, 35749),

Gene: BilboSwaggins_71 Start: 47777, Stop: 48154, Start Num: 17
Candidate Starts for BilboSwaggins_71:
(Start: 17 @47777 has 87 MA's), (Start: 19 @47783 has 41 MA's), (36, 47855), (46, 47915), (77, 48086),

Gene: Bobby_126 Start: 74360, Stop: 74719, Start Num: 13
Candidate Starts for Bobby_126:
(11, 74333), (Start: 13 @74360 has 36 MA's), (Start: 17 @74369 has 87 MA's), (48, 74501), (51, 74516),

Gene: BobsGarage_45 Start: 35443, Stop: 35772, Start Num: 22
Candidate Starts for BobsGarage_45:
(Start: 5 @35347 has 10 MA's), (Start: 7 @35356 has 41 MA's), (Start: 22 @35443 has 50 MA's), (24, 35461), (32, 35488), (33, 35491), (48, 35566), (50, 35578), (74, 35686), (83, 35749),

Gene: Bogg_73 Start: 46724, Stop: 47092, Start Num: 19
Candidate Starts for Bogg_73:
(Start: 17 @46718 has 87 MA's), (Start: 19 @46724 has 41 MA's), (36, 46796), (46, 46856), (77, 47024),

Gene: Bombitas_106 Start: 63398, Stop: 63718, Start Num: 22
Candidate Starts for Bombitas_106:

(Start: 22 @63398 has 50 MA's), (30, 63437), (48, 63536), (64, 63593), (70, 63629), (77, 63659), (81, 63704),

Gene: Bombitas_122 Start: 71670, Stop: 72029, Start Num: 13

Candidate Starts for Bombitas_122:

(11, 71643), (Start: 13 @71670 has 36 MA's), (Start: 17 @71679 has 87 MA's), (48, 71811), (51, 71826),

Gene: BourbonZero_41 Start: 35717, Stop: 36040, Start Num: 22

Candidate Starts for BourbonZero_41:

(Start: 4 @35609 has 3 MA's), (Start: 5 @35621 has 10 MA's), (Start: 7 @35630 has 41 MA's), (8, 35633), (Start: 22 @35717 has 50 MA's), (24, 35735), (Start: 29 @35753 has 1 MA's), (32, 35762), (57, 35879), (83, 36017),

Gene: BrainDrainer_43 Start: 34388, Stop: 34699, Start Num: 24

Candidate Starts for BrainDrainer_43:

(Start: 4 @34265 has 3 MA's), (Start: 5 @34277 has 10 MA's), (Start: 6 @34280 has 4 MA's), (Start: 22 @34370 has 50 MA's), (24, 34388), (32, 34415), (33, 34418), (48, 34493), (50, 34505), (74, 34613), (83, 34676), (85, 34691),

Gene: Breezona_45 Start: 35347, Stop: 35772, Start Num: 5

Candidate Starts for Breezona_45:

(Start: 5 @35347 has 10 MA's), (Start: 7 @35356 has 41 MA's), (Start: 22 @35443 has 50 MA's), (24, 35461), (32, 35488), (33, 35491), (48, 35566), (50, 35578), (74, 35686), (83, 35749),

Gene: Brewer_68 Start: 46244, Stop: 46615, Start Num: 19

Candidate Starts for Brewer_68:

(Start: 17 @46238 has 87 MA's), (Start: 19 @46244 has 41 MA's), (36, 46316), (46, 46376), (77, 46547),

Gene: Bromden_45 Start: 35106, Stop: 35519, Start Num: 6

Candidate Starts for Bromden_45:

(Start: 4 @35091 has 3 MA's), (Start: 5 @35103 has 10 MA's), (Start: 6 @35106 has 4 MA's), (Start: 7 @35112 has 41 MA's), (Start: 22 @35196 has 50 MA's), (24, 35214), (31, 35238), (32, 35241), (48, 35322), (83, 35496),

Gene: BronnyJames_131 Start: 71229, Stop: 71582, Start Num: 13

Candidate Starts for BronnyJames_131:

(Start: 13 @71229 has 36 MA's), (Start: 17 @71238 has 87 MA's), (48, 71364), (75, 71508),

Gene: BronnyJames_111 Start: 62319, Stop: 62642, Start Num: 22

Candidate Starts for BronnyJames_111:

(Start: 22 @62319 has 50 MA's), (30, 62358), (43, 62424), (45, 62445), (46, 62448), (51, 62475), (81, 62628),

Gene: Bruin_70 Start: 46315, Stop: 46689, Start Num: 17

Candidate Starts for Bruin_70:

(Start: 17 @46315 has 87 MA's), (Start: 19 @46321 has 41 MA's), (36, 46393), (46, 46453), (77, 46621),

Gene: BrutonGaster_97 Start: 63227, Stop: 63556, Start Num: 29

Candidate Starts for BrutonGaster_97:

(Start: 29 @63227 has 1 MA's), (44, 63293), (74, 63464), (86, 63551),

Gene: Buck_74 Start: 48026, Stop: 48394, Start Num: 17

Candidate Starts for Buck_74:

(Start: 17 @48026 has 87 MA's), (Start: 19 @48032 has 41 MA's), (36, 48104), (77, 48326),

Gene: Budgie_81 Start: 47813, Stop: 48184, Start Num: 19

Candidate Starts for Budgie_81:

(2, 47672), (Start: 17 @47807 has 87 MA's), (Start: 19 @47813 has 41 MA's), (25, 47840), (36, 47885), (46, 47945), (63, 48044), (77, 48116),

Gene: BugsBunny_73 Start: 47853, Stop: 48221, Start Num: 19

Candidate Starts for BugsBunny_73:

(Start: 17 @47847 has 87 MA's), (Start: 19 @47853 has 41 MA's), (36, 47925), (46, 47985), (77, 48153),

Gene: Cactus_76 Start: 46793, Stop: 47170, Start Num: 17

Candidate Starts for Cactus_76:

(Start: 17 @46793 has 87 MA's), (Start: 19 @46799 has 41 MA's), (36, 46871), (46, 46931), (77, 47102),

Gene: Calm_43 Start: 34040, Stop: 34456, Start Num: 7

Candidate Starts for Calm_43:

(Start: 4 @34019 has 3 MA's), (Start: 7 @34040 has 41 MA's), (14, 34106), (Start: 22 @34127 has 50 MA's), (24, 34145), (34, 34184), (37, 34196), (48, 34253), (63, 34313), (83, 34433),

Gene: Chaser_42 Start: 34097, Stop: 34510, Start Num: 6

Candidate Starts for Chaser_42:

(Start: 4 @34082 has 3 MA's), (Start: 5 @34094 has 10 MA's), (Start: 6 @34097 has 4 MA's), (Start: 22 @34187 has 50 MA's), (24, 34205), (32, 34232), (33, 34235), (48, 34313), (65, 34376), (78, 34439), (83, 34487),

Gene: ChosenOne_73 Start: 46796, Stop: 47170, Start Num: 17

Candidate Starts for ChosenOne_73:

(Start: 17 @46796 has 87 MA's), (Start: 19 @46802 has 41 MA's), (36, 46874), (46, 46934), (77, 47102),

Gene: ChotaBhai_73 Start: 47117, Stop: 47494, Start Num: 17

Candidate Starts for ChotaBhai_73:

(Start: 17 @47117 has 87 MA's), (Start: 19 @47123 has 41 MA's), (36, 47195), (46, 47255), (63, 47354), (77, 47426),

Gene: ChotaBhai_80 Start: 49497, Stop: 49832, Start Num: 20

Candidate Starts for ChotaBhai_80:

(1, 49245), (Start: 15 @49482 has 4 MA's), (Start: 20 @49497 has 18 MA's), (28, 49533), (39, 49587), (66, 49713), (72, 49749), (73, 49752), (78, 49770), (81, 49812),

Gene: ChutneyChips_41 Start: 34367, Stop: 34690, Start Num: 22

Candidate Starts for ChutneyChips_41:

(Start: 4 @34262 has 3 MA's), (Start: 5 @34274 has 10 MA's), (Start: 6 @34277 has 4 MA's), (Start: 22 @34367 has 50 MA's), (24, 34385), (32, 34412), (33, 34415), (48, 34493), (65, 34556), (78, 34619), (83, 34667),

Gene: CicholasNage_43 Start: 34148, Stop: 34477, Start Num: 22

Candidate Starts for CicholasNage_43:

(Start: 4 @34040 has 3 MA's), (Start: 7 @34061 has 41 MA's), (14, 34127), (Start: 22 @34148 has 50 MA's), (24, 34166), (34, 34205), (37, 34217), (48, 34274), (63, 34334), (83, 34454),

Gene: Cjw1_73 Start: 48499, Stop: 48867, Start Num: 19

Candidate Starts for Cjw1_73:

(Start: 17 @48493 has 87 MA's), (Start: 19 @48499 has 41 MA's), (36, 48571), (46, 48631), (77, 48799),

Gene: Claus_45 Start: 35375, Stop: 35791, Start Num: 7

Candidate Starts for Claus_45:

(Start: 5 @35366 has 10 MA's), (Start: 7 @35375 has 41 MA's), (Start: 22 @35462 has 50 MA's), (24, 35480), (32, 35507), (33, 35510), (48, 35588), (74, 35705), (83, 35768),

Gene: Clautastrophe_42 Start: 35625, Stop: 36053, Start Num: 4

Candidate Starts for Clautastrophe_42:

(Start: 4 @35625 has 3 MA's), (Start: 5 @35637 has 10 MA's), (Start: 7 @35646 has 41 MA's), (Start: 22 @35730 has 50 MA's), (24, 35748), (Start: 29 @35766 has 1 MA's), (32, 35775), (57, 35892), (83, 36030),

Gene: Command613_75 Start: 47838, Stop: 48209, Start Num: 19

Candidate Starts for Command613_75:

(Start: 17 @47832 has 87 MA's), (Start: 19 @47838 has 41 MA's), (36, 47910), (46, 47970), (77, 48141),

Gene: Constella_101 Start: 60252, Stop: 60566, Start Num: 22

Candidate Starts for Constella_101:

(Start: 22 @60252 has 50 MA's), (30, 60291), (35, 60318), (64, 60441), (81, 60552),

Gene: Constella_128 Start: 72912, Stop: 73271, Start Num: 13

Candidate Starts for Constella_128:

(11, 72885), (Start: 13 @72912 has 36 MA's), (Start: 17 @72921 has 87 MA's), (48, 73053), (51, 73068), (75, 73197), (77, 73203),

Gene: Contagion_69 Start: 46596, Stop: 46970, Start Num: 17

Candidate Starts for Contagion_69:

(Start: 17 @46596 has 87 MA's), (Start: 19 @46602 has 41 MA's), (36, 46674), (46, 46734), (77, 46902),

Gene: Cookies_77 Start: 49354, Stop: 49689, Start Num: 20

Candidate Starts for Cookies_77:

(1, 49102), (Start: 15 @49339 has 4 MA's), (Start: 20 @49354 has 18 MA's), (28, 49390), (39, 49444), (66, 49570), (72, 49606), (73, 49609), (78, 49627), (81, 49669),

Gene: Cookies_70 Start: 46974, Stop: 47351, Start Num: 17

Candidate Starts for Cookies_70:

(Start: 17 @46974 has 87 MA's), (Start: 19 @46980 has 41 MA's), (36, 47052), (46, 47112), (63, 47211), (77, 47283),

Gene: Courthouse_108 Start: 61433, Stop: 61753, Start Num: 22

Candidate Starts for Courthouse_108:

(Start: 22 @61433 has 50 MA's), (30, 61472), (48, 61571), (64, 61628), (70, 61664), (77, 61694), (81, 61739),

Gene: Courthouse_129 Start: 69822, Stop: 70175, Start Num: 13
Candidate Starts for Courthouse_129:
(Start: 13 @69822 has 36 MA's), (Start: 17 @69831 has 87 MA's), (75, 70101),

Gene: Crossroads_45 Start: 35358, Stop: 35774, Start Num: 7
Candidate Starts for Crossroads_45:
(Start: 5 @35349 has 10 MA's), (Start: 7 @35358 has 41 MA's), (Start: 22 @35445 has 50 MA's), (24, 35463), (32, 35490), (33, 35493), (48, 35568), (50, 35580), (74, 35688), (83, 35751),

Gene: CrystalP_72 Start: 47783, Stop: 48154, Start Num: 19
Candidate Starts for CrystalP_72:
(Start: 17 @47777 has 87 MA's), (Start: 19 @47783 has 41 MA's), (36, 47855), (46, 47915), (77, 48086),

Gene: Czyszczone1_74 Start: 47302, Stop: 47676, Start Num: 17
Candidate Starts for Czyszczone1_74:
(Start: 17 @47302 has 87 MA's), (Start: 19 @47308 has 41 MA's), (36, 47380), (46, 47440), (77, 47608),

Gene: DHan_46 Start: 35403, Stop: 35732, Start Num: 22
Candidate Starts for DHan_46:
(Start: 5 @35307 has 10 MA's), (Start: 7 @35316 has 41 MA's), (Start: 22 @35403 has 50 MA's), (24, 35421), (32, 35448), (33, 35451), (48, 35529), (74, 35646), (83, 35709),

Gene: Daikon_75 Start: 47926, Stop: 48297, Start Num: 19
Candidate Starts for Daikon_75:
(Start: 17 @47920 has 87 MA's), (Start: 19 @47926 has 41 MA's), (36, 47998), (46, 48058), (77, 48229),

Gene: Dallas_119 Start: 66991, Stop: 67311, Start Num: 22
Candidate Starts for Dallas_119:
(Start: 22 @66991 has 50 MA's), (30, 67030), (64, 67186), (70, 67222), (77, 67252), (81, 67297),

Gene: Dallas_135 Start: 73726, Stop: 74085, Start Num: 13
Candidate Starts for Dallas_135:
(11, 73699), (Start: 13 @73726 has 36 MA's), (Start: 17 @73735 has 87 MA's), (48, 73867), (51, 73882), (77, 74017),

Gene: DanBing_44 Start: 35295, Stop: 35624, Start Num: 22
Candidate Starts for DanBing_44:
(Start: 5 @35199 has 10 MA's), (Start: 7 @35208 has 41 MA's), (Start: 22 @35295 has 50 MA's), (24, 35313), (32, 35340), (33, 35343), (48, 35421), (74, 35538), (83, 35601),

Gene: Demikore_60 Start: 43030, Stop: 43398, Start Num: 22
Candidate Starts for Demikore_60:
(Start: 22 @43030 has 50 MA's), (48, 43159), (49, 43168), (66, 43264), (71, 43291),

Gene: DirkDirk_42 Start: 34012, Stop: 34428, Start Num: 7
Candidate Starts for DirkDirk_42:
(Start: 4 @33991 has 3 MA's), (Start: 7 @34012 has 41 MA's), (14, 34078), (Start: 22 @34099 has 50 MA's), (24, 34117), (34, 34156), (37, 34168), (48, 34225), (63, 34285), (83, 34405),

Gene: DmpstrDiver_134 Start: 73073, Stop: 73432, Start Num: 13
Candidate Starts for DmpstrDiver_134:
(11, 73046), (Start: 13 @73073 has 36 MA's), (Start: 17 @73082 has 87 MA's), (48, 73214), (51, 73229), (75, 73358), (77, 73364),

Gene: DmpstrDiver_119 Start: 66397, Stop: 66717, Start Num: 22
Candidate Starts for DmpstrDiver_119:
(Start: 22 @66397 has 50 MA's), (30, 66436), (64, 66592), (70, 66628), (77, 66658), (81, 66703),

Gene: DoctorDiddles_72 Start: 47167, Stop: 47538, Start Num: 19
Candidate Starts for DoctorDiddles_72:
(Start: 17 @47161 has 87 MA's), (Start: 19 @47167 has 41 MA's), (36, 47239), (46, 47299), (63, 47398), (77, 47470),

Gene: DoctorDiddles_79 Start: 49541, Stop: 49876, Start Num: 20
Candidate Starts for DoctorDiddles_79:
(1, 49289), (Start: 15 @49526 has 4 MA's), (Start: 20 @49541 has 18 MA's), (28, 49577), (39, 49631), (66, 49757), (72, 49793), (73, 49796), (78, 49814), (81, 49856),

Gene: Douge_42 Start: 34035, Stop: 34448, Start Num: 6
Candidate Starts for Douge_42:
(Start: 4 @34020 has 3 MA's), (Start: 5 @34032 has 10 MA's), (Start: 6 @34035 has 4 MA's), (Start: 22 @34125 has 50 MA's), (24, 34143), (32, 34170), (33, 34173), (48, 34251), (65, 34314), (78, 34377), (83, 34425),

Gene: Douzhi_42 Start: 34231, Stop: 34554, Start Num: 22
Candidate Starts for Douzhi_42:
(Start: 4 @34126 has 3 MA's), (Start: 5 @34138 has 10 MA's), (Start: 6 @34141 has 4 MA's), (Start: 22 @34231 has 50 MA's), (24, 34249), (32, 34276), (33, 34279), (48, 34357), (65, 34420), (78, 34483), (83, 34531),

Gene: Dove_120 Start: 68672, Stop: 69031, Start Num: 13
Candidate Starts for Dove_120:
(11, 68645), (Start: 13 @68672 has 36 MA's), (Start: 17 @68681 has 87 MA's), (48, 68813), (51, 68828), (75, 68957), (77, 68963),

Gene: Dove_104 Start: 61905, Stop: 62225, Start Num: 22
Candidate Starts for Dove_104:
(Start: 22 @61905 has 50 MA's), (30, 61944), (48, 62043), (64, 62100), (70, 62136), (77, 62166), (81, 62211),

Gene: DrDrey_73 Start: 48218, Stop: 48595, Start Num: 17
Candidate Starts for DrDrey_73:
(Start: 17 @48218 has 87 MA's), (Start: 19 @48224 has 41 MA's), (36, 48296), (46, 48356), (77, 48527),

Gene: DrSeegs_45 Start: 35356, Stop: 35772, Start Num: 7
Candidate Starts for DrSeegs_45:
(Start: 5 @35347 has 10 MA's), (Start: 7 @35356 has 41 MA's), (Start: 22 @35443 has 50 MA's), (24, 35461), (32, 35488), (33, 35491), (48, 35566), (50, 35578), (74, 35686), (83, 35749),

Gene: Duke13_129 Start: 70374, Stop: 70733, Start Num: 13
Candidate Starts for Duke13_129:

(11, 70347), (Start: 13 @70374 has 36 MA's), (Start: 17 @70383 has 87 MA's), (48, 70515), (51, 70530), (75, 70659), (77, 70665),

Gene: Dumbo_73 Start: 46707, Stop: 47075, Start Num: 19

Candidate Starts for Dumbo_73:

(Start: 17 @46701 has 87 MA's), (Start: 19 @46707 has 41 MA's), (36, 46779), (46, 46839), (77, 47007),

Gene: DuncansLeg_42 Start: 35754, Stop: 36077, Start Num: 22

Candidate Starts for DuncansLeg_42:

(Start: 4 @35646 has 3 MA's), (Start: 5 @35658 has 10 MA's), (Start: 7 @35667 has 41 MA's), (8, 35670), (Start: 22 @35754 has 50 MA's), (24, 35772), (Start: 29 @35790 has 1 MA's), (32, 35799), (57, 35916), (83, 36054),

Gene: Dusk_70 Start: 46998, Stop: 47375, Start Num: 17

Candidate Starts for Dusk_70:

(Start: 17 @46998 has 87 MA's), (Start: 19 @47004 has 41 MA's), (36, 47076), (46, 47136), (77, 47307),

Gene: DyoEdafos_44 Start: 34357, Stop: 34776, Start Num: 6

Candidate Starts for DyoEdafos_44:

(Start: 4 @34342 has 3 MA's), (Start: 5 @34354 has 10 MA's), (Start: 6 @34357 has 4 MA's), (Start: 22 @34447 has 50 MA's), (24, 34465), (32, 34492), (48, 34570), (65, 34642), (83, 34753),

Gene: Easy2Say_74 Start: 48248, Stop: 48619, Start Num: 19

Candidate Starts for Easy2Say_74:

(Start: 17 @48242 has 87 MA's), (Start: 19 @48248 has 41 MA's), (36, 48320), (46, 48380), (77, 48551),

Gene: Ejimix_128 Start: 73794, Stop: 74153, Start Num: 13

Candidate Starts for Ejimix_128:

(11, 73767), (Start: 13 @73794 has 36 MA's), (Start: 17 @73803 has 87 MA's), (48, 73935), (51, 73950), (77, 74085),

Gene: Ejimix_113 Start: 67525, Stop: 67845, Start Num: 22

Candidate Starts for Ejimix_113:

(Start: 22 @67525 has 50 MA's), (30, 67564), (64, 67720), (70, 67756), (77, 67786), (81, 67831),

Gene: Elite2014_72 Start: 46795, Stop: 47169, Start Num: 17

Candidate Starts for Elite2014_72:

(Start: 17 @46795 has 87 MA's), (Start: 19 @46801 has 41 MA's), (36, 46873), (46, 46933), (77, 47101),

Gene: Ellson_42 Start: 35730, Stop: 36053, Start Num: 22

Candidate Starts for Ellson_42:

(Start: 4 @35622 has 3 MA's), (Start: 5 @35634 has 10 MA's), (Start: 7 @35643 has 41 MA's), (8, 35646), (Start: 22 @35730 has 50 MA's), (24, 35748), (Start: 29 @35766 has 1 MA's), (32, 35775), (57, 35892), (83, 36030),

Gene: Elph10_73 Start: 46806, Stop: 47174, Start Num: 19

Candidate Starts for Elph10_73:

(Start: 17 @46800 has 87 MA's), (Start: 19 @46806 has 41 MA's), (36, 46878), (46, 46938), (77, 47106),

Gene: Emmina_73 Start: 46702, Stop: 47076, Start Num: 17

Candidate Starts for Emmina_73:

(Start: 17 @46702 has 87 MA's), (Start: 19 @46708 has 41 MA's), (36, 46780), (46, 46840), (77, 47008),

Gene: Enceladus_42 Start: 33995, Stop: 34411, Start Num: 7

Candidate Starts for Enceladus_42:

(Start: 4 @33974 has 3 MA's), (Start: 7 @33995 has 41 MA's), (14, 34061), (Start: 22 @34082 has 50 MA's), (24, 34100), (34, 34139), (37, 34151), (48, 34208), (63, 34268), (83, 34388),

Gene: EricMillard_126 Start: 72298, Stop: 72657, Start Num: 13

Candidate Starts for EricMillard_126:

(11, 72271), (Start: 13 @72298 has 36 MA's), (Start: 17 @72307 has 87 MA's), (48, 72439), (51, 72454), (75, 72583), (77, 72589),

Gene: Eureka_71 Start: 47272, Stop: 47640, Start Num: 19

Candidate Starts for Eureka_71:

(Start: 17 @47266 has 87 MA's), (Start: 19 @47272 has 41 MA's), (36, 47344), (46, 47404), (77, 47572),

Gene: FairyPath_80 Start: 50291, Stop: 50626, Start Num: 20

Candidate Starts for FairyPath_80:

(1, 50039), (Start: 15 @50276 has 4 MA's), (Start: 20 @50291 has 18 MA's), (28, 50327), (58, 50468), (66, 50507), (72, 50543), (73, 50546), (78, 50564), (81, 50606),

Gene: FairyPath_73 Start: 47917, Stop: 48288, Start Num: 19

Candidate Starts for FairyPath_73:

(Start: 17 @47911 has 87 MA's), (Start: 19 @47917 has 41 MA's), (36, 47989), (46, 48049), (77, 48220),

Gene: Faith1_45 Start: 35347, Stop: 35772, Start Num: 5

Candidate Starts for Faith1_45:

(Start: 5 @35347 has 10 MA's), (Start: 7 @35356 has 41 MA's), (Start: 22 @35443 has 50 MA's), (24, 35461), (32, 35488), (33, 35491), (48, 35566), (50, 35578), (74, 35686), (83, 35749),

Gene: FarmResident_43 Start: 34169, Stop: 34492, Start Num: 22

Candidate Starts for FarmResident_43:

(Start: 4 @34064 has 3 MA's), (Start: 5 @34076 has 10 MA's), (Start: 6 @34079 has 4 MA's), (Start: 22 @34169 has 50 MA's), (24, 34187), (32, 34214), (33, 34217), (48, 34295), (65, 34358), (78, 34421), (83, 34469),

Gene: Filch_74 Start: 46733, Stop: 47101, Start Num: 19

Candidate Starts for Filch_74:

(Start: 17 @46727 has 87 MA's), (Start: 19 @46733 has 41 MA's), (36, 46805), (46, 46865), (77, 47033),

Gene: Finemlucis_45 Start: 35623, Stop: 36048, Start Num: 5

Candidate Starts for Finemlucis_45:

(Start: 5 @35623 has 10 MA's), (Start: 7 @35632 has 41 MA's), (Start: 22 @35719 has 50 MA's), (24, 35737), (32, 35764), (33, 35767), (48, 35842), (50, 35854), (74, 35962), (83, 36025),

Gene: Finny_42 Start: 35733, Stop: 36056, Start Num: 22

Candidate Starts for Finnry_42:

(Start: 4 @35628 has 3 MA's), (Start: 5 @35640 has 10 MA's), (Start: 7 @35649 has 41 MA's), (Start: 22 @35733 has 50 MA's), (24, 35751), (Start: 29 @35769 has 1 MA's), (32, 35778), (57, 35895), (83, 36033),

Gene: FireRed_77 Start: 48298, Stop: 48663, Start Num: 19

Candidate Starts for FireRed_77:

(Start: 17 @48292 has 87 MA's), (Start: 19 @48298 has 41 MA's), (36, 48370), (46, 48424), (77, 48595),

Gene: Flypotenuse_69 Start: 46783, Stop: 47160, Start Num: 17

Candidate Starts for Flypotenuse_69:

(Start: 17 @46783 has 87 MA's), (Start: 19 @46789 has 41 MA's), (36, 46861), (46, 46921), (77, 47092),

Gene: FoghornLeghorn_67 Start: 45805, Stop: 46173, Start Num: 19

Candidate Starts for FoghornLeghorn_67:

(Start: 17 @45799 has 87 MA's), (Start: 19 @45805 has 41 MA's), (36, 45877), (46, 45937), (77, 46105),

Gene: FoghornLeghorn_74 Start: 48161, Stop: 48511, Start Num: 15

Candidate Starts for FoghornLeghorn_74:

(Start: 15 @48161 has 4 MA's), (Start: 20 @48176 has 18 MA's), (28, 48212), (39, 48266), (66, 48392), (72, 48428), (73, 48431), (78, 48449), (81, 48491),

Gene: Gabriela_45 Start: 35618, Stop: 36034, Start Num: 7

Candidate Starts for Gabriela_45:

(Start: 5 @35609 has 10 MA's), (Start: 7 @35618 has 41 MA's), (Start: 22 @35705 has 50 MA's), (24, 35723), (32, 35750), (33, 35753), (48, 35828), (50, 35840), (74, 35948), (83, 36011),

Gene: Gage_75 Start: 47576, Stop: 47953, Start Num: 17

Candidate Starts for Gage_75:

(Start: 17 @47576 has 87 MA's), (Start: 19 @47582 has 41 MA's), (36, 47654), (46, 47714), (77, 47885),

Gene: Gardann_45 Start: 35357, Stop: 35773, Start Num: 7

Candidate Starts for Gardann_45:

(Start: 5 @35348 has 10 MA's), (Start: 7 @35357 has 41 MA's), (Start: 22 @35444 has 50 MA's), (24, 35462), (32, 35489), (33, 35492), (48, 35567), (50, 35579), (74, 35687), (83, 35750),

Gene: Gator_71 Start: 47629, Stop: 48006, Start Num: 17

Candidate Starts for Gator_71:

(Start: 17 @47629 has 87 MA's), (Start: 19 @47635 has 41 MA's), (36, 47707), (46, 47767), (77, 47938),

Gene: Gemini_78 Start: 48093, Stop: 48470, Start Num: 17

Candidate Starts for Gemini_78:

(Start: 17 @48093 has 87 MA's), (Start: 19 @48099 has 41 MA's), (36, 48171), (46, 48231), (77, 48402),

Gene: Glexan_72 Start: 47913, Stop: 48290, Start Num: 17

Candidate Starts for Glexan_72:

(Start: 17 @47913 has 87 MA's), (Start: 19 @47919 has 41 MA's), (36, 47991), (46, 48051), (77, 48222),

Gene: Goku_71 Start: 46995, Stop: 47369, Start Num: 17

Candidate Starts for Goku_71:

(Start: 17 @46995 has 87 MA's), (Start: 19 @47001 has 41 MA's), (36, 47073), (46, 47133), (77, 47301),

Gene: GoldenSpark_77 Start: 47582, Stop: 47953, Start Num: 19

Candidate Starts for GoldenSpark_77:

(Start: 17 @47576 has 87 MA's), (Start: 19 @47582 has 41 MA's), (36, 47654), (46, 47714), (77, 47885),

Gene: Goldilocks_76 Start: 47080, Stop: 47451, Start Num: 19

Candidate Starts for Goldilocks_76:

(Start: 17 @47074 has 87 MA's), (Start: 19 @47080 has 41 MA's), (36, 47152), (46, 47212), (77, 47383),

Gene: Gonephishing_128 Start: 69464, Stop: 69817, Start Num: 13

Candidate Starts for Gonephishing_128:

(Start: 13 @69464 has 36 MA's), (Start: 17 @69473 has 87 MA's), (75, 69743), (81, 69794),

Gene: Gonephishing_107 Start: 60857, Stop: 61180, Start Num: 22

Candidate Starts for Gonephishing_107:

(Start: 22 @60857 has 50 MA's), (30, 60896), (43, 60962), (45, 60983), (46, 60986), (51, 61013), (81, 61166),

Gene: GooberAzure_76 Start: 47576, Stop: 47953, Start Num: 17

Candidate Starts for GooberAzure_76:

(Start: 17 @47576 has 87 MA's), (Start: 19 @47582 has 41 MA's), (36, 47654), (46, 47714), (77, 47885),

Gene: Grayson_232 Start: 113102, Stop: 113485, Start Num: 18

Candidate Starts for Grayson_232:

(16, 113096), (Start: 18 @113102 has 4 MA's), (48, 113249), (53, 113288), (75, 113396), (84, 113456), (85, 113465),

Gene: Greep_77 Start: 48584, Stop: 48952, Start Num: 19

Candidate Starts for Greep_77:

(Start: 17 @48578 has 87 MA's), (Start: 19 @48584 has 41 MA's), (36, 48656), (46, 48716), (77, 48884),

Gene: GuuelaD_44 Start: 35386, Stop: 35811, Start Num: 5

Candidate Starts for GuuelaD_44:

(Start: 5 @35386 has 10 MA's), (Start: 7 @35395 has 41 MA's), (Start: 22 @35482 has 50 MA's), (24, 35500), (32, 35527), (33, 35530), (48, 35605), (50, 35617), (74, 35725), (83, 35788),

Gene: Hafay_45 Start: 35477, Stop: 35806, Start Num: 22

Candidate Starts for Hafay_45:

(Start: 5 @35381 has 10 MA's), (Start: 7 @35390 has 41 MA's), (Start: 22 @35477 has 50 MA's), (24, 35495), (32, 35522), (33, 35525), (48, 35600), (50, 35612), (74, 35720), (83, 35783),

Gene: Halena_42 Start: 34036, Stop: 34452, Start Num: 7

Candidate Starts for Halena_42:

(Start: 4 @34015 has 3 MA's), (Start: 7 @34036 has 41 MA's), (14, 34102), (Start: 22 @34123 has 50 MA's), (24, 34141), (34, 34180), (37, 34192), (48, 34249), (63, 34309), (83, 34429),

Gene: Halley_121 Start: 67841, Stop: 68161, Start Num: 22

Candidate Starts for Halley_121:

(Start: 22 @67841 has 50 MA's), (30, 67880), (64, 68036), (70, 68072), (77, 68102), (81, 68147),

Gene: Halley_136 Start: 74110, Stop: 74469, Start Num: 13

Candidate Starts for Halley_136:

(11, 74083), (Start: 13 @74110 has 36 MA's), (Start: 17 @74119 has 87 MA's), (48, 74251), (51, 74266), (77, 74401),

Gene: HanKaySha_73 Start: 46880, Stop: 47254, Start Num: 17

Candidate Starts for HanKaySha_73:

(Start: 17 @46880 has 87 MA's), (Start: 19 @46886 has 41 MA's), (36, 46958), (46, 47018), (77, 47186),

Gene: Hannaconda_104 Start: 59803, Stop: 60126, Start Num: 22

Candidate Starts for Hannaconda_104:

(Start: 22 @59803 has 50 MA's), (30, 59842), (43, 59908), (45, 59929), (46, 59932), (51, 59959), (81, 60112),

Gene: Hannaconda_127 Start: 70117, Stop: 70470, Start Num: 13

Candidate Starts for Hannaconda_127:

(Start: 13 @70117 has 36 MA's), (Start: 17 @70126 has 87 MA's), (75, 70396), (81, 70447),

Gene: Harella_73 Start: 48429, Stop: 48806, Start Num: 17

Candidate Starts for Harella_73:

(Start: 17 @48429 has 87 MA's), (Start: 19 @48435 has 41 MA's), (36, 48507), (46, 48567), (77, 48738),

Gene: Henry_71 Start: 47217, Stop: 47594, Start Num: 17

Candidate Starts for Henry_71:

(Start: 17 @47217 has 87 MA's), (Start: 19 @47223 has 41 MA's), (36, 47295), (46, 47355), (77, 47526),

Gene: Hidrated_121 Start: 72693, Stop: 73052, Start Num: 13

Candidate Starts for Hidrated_121:

(11, 72666), (Start: 13 @72693 has 36 MA's), (Start: 17 @72702 has 87 MA's), (48, 72834), (51, 72849),

Gene: Highbury_72 Start: 46868, Stop: 47242, Start Num: 17

Candidate Starts for Highbury_72:

(Start: 17 @46868 has 87 MA's), (Start: 19 @46874 has 41 MA's), (36, 46946), (46, 47006), (77, 47174),

Gene: HokkenD_108 Start: 64913, Stop: 65233, Start Num: 22

Candidate Starts for HokkenD_108:

(Start: 22 @64913 has 50 MA's), (30, 64952), (48, 65051), (64, 65108), (70, 65144), (77, 65174), (81, 65219),

Gene: HokkenD_126 Start: 72994, Stop: 73353, Start Num: 13

Candidate Starts for HokkenD_126:

(11, 72967), (Start: 13 @72994 has 36 MA's), (Start: 17 @73003 has 87 MA's), (48, 73135), (51, 73150), (75, 73279), (77, 73285),

Gene: Holt_78 Start: 47990, Stop: 48367, Start Num: 17

Candidate Starts for Holt_78:

(Start: 17 @47990 has 87 MA's), (Start: 19 @47996 has 41 MA's), (36, 48068), (46, 48128), (77, 48299),

Gene: Hoonter_76 Start: 47576, Stop: 47953, Start Num: 17

Candidate Starts for Hoonter_76:

(Start: 17 @47576 has 87 MA's), (Start: 19 @47582 has 41 MA's), (36, 47654), (46, 47714), (77, 47885),

Gene: Hopey_73 Start: 47412, Stop: 47786, Start Num: 17

Candidate Starts for Hopey_73:

(Start: 17 @47412 has 87 MA's), (Start: 19 @47418 has 41 MA's), (36, 47490), (46, 47550), (77, 47718),

Gene: HufflyPuff_76 Start: 48245, Stop: 48619, Start Num: 17

Candidate Starts for HufflyPuff_76:

(Start: 17 @48245 has 87 MA's), (Start: 19 @48251 has 41 MA's), (36, 48323), (46, 48383), (77, 48551),

Gene: Hughesyang_134 Start: 73880, Stop: 74239, Start Num: 13

Candidate Starts for Hughesyang_134:

(11, 73853), (Start: 13 @73880 has 36 MA's), (Start: 17 @73889 has 87 MA's), (48, 74021), (51, 74036), (75, 74165), (77, 74171),

Gene: Hughesyang_118 Start: 67297, Stop: 67617, Start Num: 22

Candidate Starts for Hughesyang_118:

(Start: 22 @67297 has 50 MA's), (30, 67336), (64, 67492), (70, 67528), (77, 67558), (81, 67603),

Gene: IHOP_71 Start: 47341, Stop: 47718, Start Num: 17

Candidate Starts for IHOP_71:

(Start: 17 @47341 has 87 MA's), (Start: 19 @47347 has 41 MA's), (36, 47419), (46, 47479), (77, 47650),

Gene: Icee_74 Start: 47246, Stop: 47617, Start Num: 19

Candidate Starts for Icee_74:

(Start: 17 @47240 has 87 MA's), (Start: 19 @47246 has 41 MA's), (36, 47318), (46, 47378), (77, 47549),

Gene: Inca_70 Start: 45869, Stop: 46243, Start Num: 17

Candidate Starts for Inca_70:

(Start: 17 @45869 has 87 MA's), (Start: 19 @45875 has 41 MA's), (36, 45947), (46, 46007), (77, 46175),

Gene: Itos_44 Start: 34253, Stop: 34678, Start Num: 5

Candidate Starts for Itos_44:

(Start: 5 @34253 has 10 MA's), (Start: 7 @34262 has 41 MA's), (Start: 22 @34349 has 50 MA's), (24, 34367), (32, 34394), (33, 34397), (48, 34472), (50, 34484), (74, 34592), (83, 34655),

Gene: JeTaime_73 Start: 48064, Stop: 48435, Start Num: 17

Candidate Starts for JeTaime_73:

(Start: 17 @48064 has 87 MA's), (Start: 19 @48070 has 41 MA's), (36, 48142), (46, 48196), (77, 48367),

Gene: Jobypre_42 Start: 35730, Stop: 36053, Start Num: 22

Candidate Starts for Jobypre_42:

(Start: 4 @35625 has 3 MA's), (Start: 5 @35637 has 10 MA's), (Start: 7 @35646 has 41 MA's), (Start: 22 @35730 has 50 MA's), (24, 35748), (Start: 29 @35766 has 1 MA's), (32, 35775), (57, 35892), (83, 36030),

Gene: JoeDirt_42 Start: 33993, Stop: 34409, Start Num: 7

Candidate Starts for JoeDirt_42:

(Start: 4 @33972 has 3 MA's), (Start: 7 @33993 has 41 MA's), (14, 34059), (Start: 22 @34080 has 50 MA's), (24, 34098), (34, 34137), (37, 34149), (48, 34206), (63, 34266), (83, 34386),

Gene: Jubie_42 Start: 35647, Stop: 36054, Start Num: 7

Candidate Starts for Jubie_42:

(Start: 4 @35626 has 3 MA's), (Start: 5 @35638 has 10 MA's), (Start: 7 @35647 has 41 MA's), (Start: 22 @35731 has 50 MA's), (24, 35749), (Start: 29 @35767 has 1 MA's), (32, 35776), (57, 35893), (83, 36031),

Gene: JuicyJay_115 Start: 68611, Stop: 68931, Start Num: 22

Candidate Starts for JuicyJay_115:

(Start: 22 @68611 has 50 MA's), (30, 68650), (48, 68749), (64, 68806), (70, 68842), (77, 68872), (81, 68917),

Gene: JuicyJay_131 Start: 75395, Stop: 75754, Start Num: 13

Candidate Starts for JuicyJay_131:

(11, 75368), (Start: 13 @75395 has 36 MA's), (Start: 17 @75404 has 87 MA's), (48, 75536), (51, 75551),

Gene: Kahlid_45 Start: 35362, Stop: 35778, Start Num: 7

Candidate Starts for Kahlid_45:

(Start: 5 @35353 has 10 MA's), (Start: 7 @35362 has 41 MA's), (Start: 22 @35449 has 50 MA's), (24, 35467), (32, 35494), (33, 35497), (48, 35572), (50, 35584), (74, 35692), (83, 35755),

Gene: Kanye_70 Start: 46922, Stop: 47299, Start Num: 17

Candidate Starts for Kanye_70:

(Start: 17 @46922 has 87 MA's), (Start: 19 @46928 has 41 MA's), (36, 47000), (46, 47060), (77, 47231),

Gene: KashFlow_110 Start: 62308, Stop: 62631, Start Num: 22

Candidate Starts for KashFlow_110:

(Start: 22 @62308 has 50 MA's), (30, 62347), (43, 62413), (45, 62434), (46, 62437), (51, 62464), (81, 62617),

Gene: KashFlow_131 Start: 71552, Stop: 71905, Start Num: 13

Candidate Starts for KashFlow_131:

(Start: 13 @71552 has 36 MA's), (Start: 17 @71561 has 87 MA's), (75, 71831), (81, 71882),

Gene: Kimchi_77 Start: 47579, Stop: 47956, Start Num: 17

Candidate Starts for Kimchi_77:

(Start: 17 @47579 has 87 MA's), (Start: 19 @47585 has 41 MA's), (36, 47657), (46, 47717), (77, 47888),

Gene: Kingsolomon_42 Start: 35730, Stop: 36053, Start Num: 22

Candidate Starts for Kingsolomon_42:

(Start: 4 @35625 has 3 MA's), (Start: 5 @35637 has 10 MA's), (Start: 7 @35646 has 41 MA's), (Start: 22 @35730 has 50 MA's), (24, 35748), (Start: 29 @35766 has 1 MA's), (32, 35775), (57, 35892), (83, 36030),

Gene: KirDoubleO7_40 Start: 35758, Stop: 36081, Start Num: 22

Candidate Starts for KirDoubleO7_40:

(Start: 4 @35650 has 3 MA's), (Start: 5 @35662 has 10 MA's), (Start: 7 @35671 has 41 MA's), (8, 35674), (Start: 22 @35758 has 50 MA's), (24, 35776), (Start: 29 @35794 has 1 MA's), (32, 35803), (57, 35920), (83, 36058),

Gene: Klein_131 Start: 71031, Stop: 71390, Start Num: 13

Candidate Starts for Klein_131:

(11, 71004), (Start: 13 @71031 has 36 MA's), (Start: 17 @71040 has 87 MA's), (48, 71172), (51, 71187), (75, 71316), (77, 71322),

Gene: Kostya_73 Start: 47446, Stop: 47817, Start Num: 19

Candidate Starts for Kostya_73:

(Start: 17 @47440 has 87 MA's), (Start: 19 @47446 has 41 MA's), (36, 47518), (46, 47578), (77, 47749),

Gene: Kropertea_42 Start: 34315, Stop: 34599, Start Num: 32

Candidate Starts for Kropertea_42:

(Start: 4 @34165 has 3 MA's), (Start: 5 @34177 has 10 MA's), (Start: 6 @34180 has 4 MA's), (Start: 22 @34270 has 50 MA's), (24, 34288), (32, 34315), (48, 34393), (65, 34465), (83, 34576),

Gene: Krypton555_42 Start: 35542, Stop: 35970, Start Num: 4

Candidate Starts for Krypton555_42:

(Start: 4 @35542 has 3 MA's), (Start: 5 @35554 has 10 MA's), (Start: 7 @35563 has 41 MA's), (Start: 22 @35647 has 50 MA's), (24, 35665), (Start: 29 @35683 has 1 MA's), (32, 35692), (57, 35809), (83, 35947),

Gene: Labelle_59 Start: 43035, Stop: 43403, Start Num: 22

Candidate Starts for Labelle_59:

(Start: 22 @43035 has 50 MA's), (26, 43056), (48, 43164), (49, 43173), (66, 43269), (71, 43296),

Gene: LeBron_43 Start: 34037, Stop: 34453, Start Num: 7

Candidate Starts for LeBron_43:

(Start: 4 @34016 has 3 MA's), (Start: 7 @34037 has 41 MA's), (14, 34103), (Start: 22 @34124 has 50 MA's), (24, 34142), (34, 34181), (37, 34193), (48, 34250), (63, 34310), (83, 34430),

Gene: Lewan_45 Start: 35349, Stop: 35765, Start Num: 7

Candidate Starts for Lewan_45:

(Start: 5 @35340 has 10 MA's), (Start: 7 @35349 has 41 MA's), (Start: 22 @35436 has 50 MA's), (24, 35454), (32, 35481), (33, 35484), (48, 35559), (50, 35571), (74, 35679), (83, 35742),

Gene: LilDestine_45 Start: 35354, Stop: 35770, Start Num: 7

Candidate Starts for LilDestine_45:

(Start: 5 @35345 has 10 MA's), (Start: 7 @35354 has 41 MA's), (Start: 22 @35441 has 50 MA's), (24, 35459), (32, 35486), (33, 35489), (48, 35564), (50, 35576), (74, 35684), (83, 35747),

Gene: Lilac_75 Start: 47197, Stop: 47571, Start Num: 17

Candidate Starts for Lilac_75:

(Start: 17 @47197 has 87 MA's), (Start: 19 @47203 has 41 MA's), (36, 47275), (46, 47335), (77, 47503),

Gene: Lilizi_74 Start: 46910, Stop: 47284, Start Num: 17

Candidate Starts for Lilizi_74:

(Start: 17 @46910 has 87 MA's), (Start: 19 @46916 has 41 MA's), (36, 46988), (46, 47048), (77, 47216),

Gene: Lilpickle_72 Start: 46795, Stop: 47169, Start Num: 17

Candidate Starts for Lilpickle_72:

(Start: 17 @46795 has 87 MA's), (Start: 19 @46801 has 41 MA's), (36, 46873), (46, 46933), (77, 47101),

Gene: LittleE_136 Start: 72806, Stop: 73159, Start Num: 13

Candidate Starts for LittleE_136:

(Start: 13 @72806 has 36 MA's), (Start: 17 @72815 has 87 MA's),

Gene: LittleE_118 Start: 65723, Stop: 66046, Start Num: 22

Candidate Starts for LittleE_118:

(Start: 22 @65723 has 50 MA's), (30, 65762), (43, 65828), (45, 65849), (46, 65852), (51, 65879), (81, 66032),

Gene: LiyuLake_42 Start: 35720, Stop: 36043, Start Num: 22

Candidate Starts for LiyuLake_42:

(Start: 4 @35612 has 3 MA's), (Start: 5 @35624 has 10 MA's), (Start: 7 @35633 has 41 MA's), (8, 35636), (Start: 22 @35720 has 50 MA's), (24, 35738), (Start: 29 @35756 has 1 MA's), (32, 35765), (57, 35882), (83, 36020),

Gene: Loadrie_44 Start: 35379, Stop: 35804, Start Num: 5

Candidate Starts for Loadrie_44:

(Start: 5 @35379 has 10 MA's), (Start: 7 @35388 has 41 MA's), (Start: 22 @35475 has 50 MA's), (24, 35493), (32, 35520), (33, 35523), (48, 35598), (50, 35610), (74, 35718), (83, 35781),

Gene: Lolly9_42 Start: 35541, Stop: 35864, Start Num: 22

Candidate Starts for Lolly9_42:

(Start: 4 @35436 has 3 MA's), (Start: 7 @35457 has 41 MA's), (Start: 22 @35541 has 50 MA's), (24, 35559), (Start: 29 @35577 has 1 MA's), (32, 35586), (57, 35703), (83, 35841),

Gene: Lucky2013_128 Start: 69682, Stop: 70035, Start Num: 13

Candidate Starts for Lucky2013_128:

(Start: 13 @69682 has 36 MA's), (Start: 17 @69691 has 87 MA's), (75, 69961), (81, 70012),

Gene: Lucky2013_110 Start: 61874, Stop: 62194, Start Num: 22

Candidate Starts for Lucky2013_110:

(Start: 22 @61874 has 50 MA's), (30, 61913), (48, 62012), (64, 62069), (70, 62105), (77, 62135), (81, 62180),

Gene: Lumos_42 Start: 35643, Stop: 36050, Start Num: 7

Candidate Starts for Lumos_42:

(Start: 4 @35622 has 3 MA's), (Start: 5 @35634 has 10 MA's), (Start: 7 @35643 has 41 MA's), (Start: 22 @35727 has 50 MA's), (24, 35745), (Start: 29 @35763 has 1 MA's), (32, 35772), (57, 35889), (83, 36027),

Gene: Lynnae_45 Start: 35432, Stop: 35761, Start Num: 22

Candidate Starts for Lynnae_45:

(Start: 5 @35336 has 10 MA's), (Start: 7 @35345 has 41 MA's), (Start: 22 @35432 has 50 MA's), (24, 35450), (32, 35477), (33, 35480), (48, 35555), (50, 35567), (74, 35675), (83, 35738),

Gene: MAckerman_43 Start: 34117, Stop: 34446, Start Num: 22

Candidate Starts for MAckerman_43:

(Start: 4 @34009 has 3 MA's), (Start: 7 @34030 has 41 MA's), (14, 34096), (Start: 22 @34117 has 50 MA's), (24, 34135), (34, 34174), (37, 34186), (48, 34243), (63, 34303), (83, 34423),

Gene: MISSy_74 Start: 47301, Stop: 47675, Start Num: 17

Candidate Starts for MISSy_74:

(Start: 17 @47301 has 87 MA's), (Start: 19 @47307 has 41 MA's), (36, 47379), (46, 47439), (77, 47607),

Gene: MPhalcon_74 Start: 47294, Stop: 47668, Start Num: 17

Candidate Starts for MPhalcon_74:

(Start: 17 @47294 has 87 MA's), (Start: 19 @47300 has 41 MA's), (36, 47372), (46, 47432), (77, 47600),

Gene: MadamMonkfish_73 Start: 46525, Stop: 46893, Start Num: 19

Candidate Starts for MadamMonkfish_73:

(Start: 17 @46519 has 87 MA's), (Start: 19 @46525 has 41 MA's), (36, 46597), (46, 46657), (77, 46825),

Gene: Madruga_58 Start: 42688, Stop: 43056, Start Num: 22

Candidate Starts for Madruga_58:

(Start: 22 @42688 has 50 MA's), (48, 42817), (49, 42826), (66, 42922), (71, 42949),

Gene: Manda_74 Start: 48378, Stop: 48755, Start Num: 17

Candidate Starts for Manda_74:

(Start: 17 @48378 has 87 MA's), (Start: 19 @48384 has 41 MA's), (36, 48456), (46, 48516), (77, 48687),

Gene: Marleymoo_119 Start: 70106, Stop: 70465, Start Num: 13

Candidate Starts for Marleymoo_119:

(11, 70079), (Start: 13 @70106 has 36 MA's), (Start: 17 @70115 has 87 MA's), (48, 70247), (51, 70262),

Gene: Marshmallow_71 Start: 48077, Stop: 48448, Start Num: 19

Candidate Starts for Marshmallow_71:

(Start: 17 @48071 has 87 MA's), (Start: 19 @48077 has 41 MA's), (36, 48149), (46, 48209), (77, 48380),

Gene: Maxxinista_75 Start: 47176, Stop: 47544, Start Num: 19

Candidate Starts for Maxxinista_75:

(Start: 17 @47170 has 87 MA's), (Start: 19 @47176 has 41 MA's), (36, 47248), (46, 47308), (77, 47476),

Gene: MiaZeal_133 Start: 70821, Stop: 71174, Start Num: 13

Candidate Starts for MiaZeal_133:

(Start: 13 @70821 has 36 MA's), (Start: 17 @70830 has 87 MA's), (75, 71100), (81, 71151),

Gene: MiaZeal_113 Start: 62505, Stop: 62825, Start Num: 22

Candidate Starts for MiaZeal_113:

(Start: 22 @62505 has 50 MA's), (30, 62544), (48, 62643), (64, 62700), (70, 62736), (77, 62766), (81, 62811),

Gene: Miley16_45 Start: 35347, Stop: 35772, Start Num: 5

Candidate Starts for Miley16_45:

(Start: 5 @35347 has 10 MA's), (Start: 7 @35356 has 41 MA's), (Start: 22 @35443 has 50 MA's), (24, 35461), (32, 35488), (33, 35491), (48, 35566), (50, 35578), (74, 35686), (83, 35749),

Gene: Mindy_72 Start: 46383, Stop: 46760, Start Num: 17

Candidate Starts for Mindy_72:

(Start: 17 @46383 has 87 MA's), (Start: 19 @46389 has 41 MA's), (36, 46461), (46, 46521), (77, 46692),

Gene: Minerva_133 Start: 72481, Stop: 72840, Start Num: 13

Candidate Starts for Minerva_133:

(11, 72454), (Start: 13 @72481 has 36 MA's), (Start: 17 @72490 has 87 MA's), (48, 72622), (51, 72637), (75, 72766), (77, 72772),

Gene: Minerva_116 Start: 65898, Stop: 66218, Start Num: 22

Candidate Starts for Minerva_116:

(Start: 22 @65898 has 50 MA's), (30, 65937), (64, 66093), (70, 66129), (77, 66159), (81, 66204),

Gene: MiniLon_42 Start: 35458, Stop: 35865, Start Num: 7

Candidate Starts for MiniLon_42:

(Start: 4 @35437 has 3 MA's), (Start: 7 @35458 has 41 MA's), (Start: 22 @35542 has 50 MA's), (24, 35560), (Start: 29 @35578 has 1 MA's), (32, 35587), (57, 35704), (83, 35842),

Gene: MiniMac_42 Start: 35455, Stop: 35862, Start Num: 7

Candidate Starts for MiniMac_42:

(Start: 4 @35434 has 3 MA's), (Start: 7 @35455 has 41 MA's), (Start: 22 @35539 has 50 MA's), (24, 35557), (Start: 29 @35575 has 1 MA's), (32, 35584), (57, 35701), (83, 35839),

Gene: Miniwave_68 Start: 46836, Stop: 47213, Start Num: 17

Candidate Starts for Miniwave_68:

(Start: 17 @46836 has 87 MA's), (Start: 19 @46842 has 41 MA's), (36, 46914), (46, 46974), (77, 47145),

Gene: Miniwave_75 Start: 49216, Stop: 49551, Start Num: 20

Candidate Starts for Miniwave_75:

(1, 48964), (Start: 15 @49201 has 4 MA's), (Start: 20 @49216 has 18 MA's), (28, 49252), (58, 49393), (66, 49432), (72, 49468), (73, 49471), (78, 49489), (81, 49531),

Gene: Misfit_74 Start: 48313, Stop: 48687, Start Num: 17

Candidate Starts for Misfit_74:

(Start: 17 @48313 has 87 MA's), (Start: 19 @48319 has 41 MA's), (36, 48391), (46, 48451), (77, 48619),

Gene: MkaliMitinis3_45 Start: 35358, Stop: 35774, Start Num: 7

Candidate Starts for MkaliMitinis3_45:

(Start: 5 @35349 has 10 MA's), (Start: 7 @35358 has 41 MA's), (Start: 22 @35445 has 50 MA's), (24, 35463), (32, 35490), (33, 35493), (48, 35568), (50, 35580), (74, 35688), (83, 35751),

Gene: Moldemort_76 Start: 47395, Stop: 47772, Start Num: 17

Candidate Starts for Moldemort_76:

(Start: 17 @47395 has 87 MA's), (Start: 19 @47401 has 41 MA's), (36, 47473), (46, 47533), (77, 47704),

Gene: MollyToe_68 Start: 46152, Stop: 46514, Start Num: 19

Candidate Starts for MollyToe_68:

(Start: 17 @46146 has 87 MA's), (Start: 19 @46152 has 41 MA's), (36, 46224), (77, 46446),

Gene: MollyToe_75 Start: 48502, Stop: 48852, Start Num: 15

Candidate Starts for MollyToe_75:

(1, 48265), (Start: 15 @48502 has 4 MA's), (Start: 20 @48517 has 18 MA's), (28, 48553), (39, 48607), (66, 48733), (72, 48769), (73, 48772), (78, 48790), (81, 48832),

Gene: Moostard_42 Start: 35732, Stop: 36055, Start Num: 22

Candidate Starts for Moostard_42:

(Start: 4 @35627 has 3 MA's), (Start: 5 @35639 has 10 MA's), (Start: 7 @35648 has 41 MA's), (Start: 22 @35732 has 50 MA's), (24, 35750), (Start: 29 @35768 has 1 MA's), (32, 35777), (57, 35894), (83, 36032),

Gene: Mosby_69 Start: 46596, Stop: 46970, Start Num: 17

Candidate Starts for Mosby_69:

(Start: 17 @46596 has 87 MA's), (Start: 19 @46602 has 41 MA's), (36, 46674), (46, 46734), (77, 46902),

Gene: MsGreen_42 Start: 35625, Stop: 36053, Start Num: 4

Candidate Starts for MsGreen_42:

(Start: 4 @35625 has 3 MA's), (Start: 5 @35637 has 10 MA's), (Start: 7 @35646 has 41 MA's), (Start: 22 @35730 has 50 MA's), (24, 35748), (Start: 29 @35766 has 1 MA's), (32, 35775), (57, 35892), (83, 36030),

Gene: Murica_76 Start: 48251, Stop: 48619, Start Num: 19

Candidate Starts for Murica_76:

(Start: 17 @48245 has 87 MA's), (Start: 19 @48251 has 41 MA's), (36, 48323), (46, 48383), (77, 48551),

Gene: Murphy_73 Start: 47688, Stop: 48056, Start Num: 19

Candidate Starts for Murphy_73:

(Start: 17 @47682 has 87 MA's), (Start: 19 @47688 has 41 MA's), (36, 47760), (46, 47820), (77, 47988),

Gene: Myrale_73 Start: 47936, Stop: 48313, Start Num: 17

Candidate Starts for Myrale_73:

(Start: 17 @47936 has 87 MA's), (Start: 19 @47942 has 41 MA's), (36, 48014), (46, 48074), (77, 48245),

Gene: Myrale_80 Start: 50316, Stop: 50651, Start Num: 20

Candidate Starts for Myrale_80:

(1, 50064), (Start: 15 @50301 has 4 MA's), (Start: 20 @50316 has 18 MA's), (28, 50352), (58, 50493), (66, 50532), (72, 50568), (73, 50571), (78, 50589), (81, 50631),

Gene: Nala_75 Start: 47812, Stop: 48177, Start Num: 19

Candidate Starts for Nala_75:

(Start: 17 @47806 has 87 MA's), (Start: 19 @47812 has 41 MA's), (36, 47884), (46, 47938), (77, 48109),

Gene: Nekros_136 Start: 74272, Stop: 74625, Start Num: 13

Candidate Starts for Nekros_136:

(Start: 13 @74272 has 36 MA's), (Start: 17 @74281 has 87 MA's), (75, 74551),

Gene: Nekros_115 Start: 65028, Stop: 65351, Start Num: 22

Candidate Starts for Nekros_115:

(Start: 22 @65028 has 50 MA's), (30, 65067), (43, 65133), (45, 65154), (46, 65157), (51, 65184), (81, 65337),

Gene: NelitzaMV_71 Start: 46888, Stop: 47259, Start Num: 19

Candidate Starts for NelitzaMV_71:

(Start: 17 @46882 has 87 MA's), (Start: 19 @46888 has 41 MA's), (36, 46960), (46, 47020), (77, 47191),

Gene: Netyap_45 Start: 35356, Stop: 35772, Start Num: 7

Candidate Starts for Netyap_45:

(Start: 5 @35347 has 10 MA's), (Start: 7 @35356 has 41 MA's), (Start: 22 @35443 has 50 MA's), (24, 35461), (32, 35488), (33, 35491), (48, 35566), (50, 35578), (74, 35686), (83, 35749),

Gene: Nibley_106 Start: 61896, Stop: 62219, Start Num: 22

Candidate Starts for Nibley_106:

(Start: 22 @61896 has 50 MA's), (30, 61935), (43, 62001), (45, 62022), (46, 62025), (51, 62052), (81, 62205),

Gene: Nibley_130 Start: 70806, Stop: 71159, Start Num: 13

Candidate Starts for Nibley_130:

(Start: 13 @70806 has 36 MA's), (Start: 17 @70815 has 87 MA's), (48, 70941), (75, 71085),

Gene: NiceHouse_171 Start: 97963, Stop: 98331, Start Num: 23

Candidate Starts for NiceHouse_171:

(10, 97906), (Start: 23 @97963 has 1 MA's), (51, 98119), (79, 98266), (81, 98290),

Gene: Nicholas_42 Start: 35730, Stop: 36053, Start Num: 22

Candidate Starts for Nicholas_42:

(Start: 4 @35625 has 3 MA's), (Start: 5 @35637 has 10 MA's), (Start: 7 @35646 has 41 MA's), (Start: 22 @35730 has 50 MA's), (24, 35748), (Start: 29 @35766 has 1 MA's), (32, 35775), (57, 35892), (83, 36030),

Gene: Nicholasp3_45 Start: 35348, Stop: 35773, Start Num: 5

Candidate Starts for Nicholasp3_45:

(Start: 5 @35348 has 10 MA's), (Start: 7 @35357 has 41 MA's), (Start: 22 @35444 has 50 MA's), (24, 35462), (32, 35489), (33, 35492), (48, 35567), (50, 35579), (74, 35687), (83, 35750),

Gene: NihilNomen_136 Start: 73340, Stop: 73699, Start Num: 13

Candidate Starts for NihilNomen_136:

(11, 73313), (Start: 13 @73340 has 36 MA's), (Start: 17 @73349 has 87 MA's), (48, 73481), (51, 73496),

Gene: NihilNomen_120 Start: 66563, Stop: 66883, Start Num: 22

Candidate Starts for NihilNomen_120:

(Start: 22 @66563 has 50 MA's), (30, 66602), (48, 66701), (64, 66758), (70, 66794), (77, 66824), (81, 66869),

Gene: Nimrod_74 Start: 48509, Stop: 48880, Start Num: 19

Candidate Starts for Nimrod_74:

(Start: 17 @48503 has 87 MA's), (Start: 19 @48509 has 41 MA's), (36, 48581), (46, 48641), (77, 48812),

Gene: NoSleep_74 Start: 47140, Stop: 47514, Start Num: 17

Candidate Starts for NoSleep_74:

(Start: 17 @47140 has 87 MA's), (Start: 19 @47146 has 41 MA's), (36, 47218), (46, 47278), (77, 47446),

Gene: NonchalantPear_71 Start: 46996, Stop: 47367, Start Num: 19

Candidate Starts for NonchalantPear_71:

(Start: 17 @46990 has 87 MA's), (Start: 19 @46996 has 41 MA's), (36, 47068), (46, 47128), (77, 47299),

Gene: Odette_138 Start: 74911, Stop: 75270, Start Num: 13

Candidate Starts for Odette_138:

(11, 74884), (Start: 13 @74911 has 36 MA's), (Start: 17 @74920 has 87 MA's), (48, 75052), (51, 75067), (75, 75196), (77, 75202),

Gene: Odette_120 Start: 66457, Stop: 66777, Start Num: 22

Candidate Starts for Odette_120:

(Start: 22 @66457 has 50 MA's), (30, 66496), (48, 66595), (64, 66652), (70, 66688), (77, 66718), (81, 66763),

Gene: OhShagHennessy_42 Start: 33983, Stop: 34399, Start Num: 7

Candidate Starts for OhShagHennessy_42:

(Start: 4 @33962 has 3 MA's), (Start: 7 @33983 has 41 MA's), (14, 34049), (Start: 22 @34070 has 50 MA's), (24, 34088), (34, 34127), (37, 34139), (48, 34196), (63, 34256), (83, 34376),

Gene: Omega_143 Start: 74487, Stop: 74840, Start Num: 13

Candidate Starts for Omega_143:

(Start: 13 @74487 has 36 MA's), (Start: 17 @74496 has 87 MA's),

Gene: Omega_124 Start: 66872, Stop: 67195, Start Num: 22

Candidate Starts for Omega_124:

(Start: 22 @66872 has 50 MA's), (30, 66911), (43, 66977), (45, 66998), (46, 67001), (51, 67028), (81, 67181),

Gene: OneUp_106 Start: 66594, Stop: 66947, Start Num: 22

Candidate Starts for OneUp_106:

(Start: 22 @66594 has 50 MA's), (36, 66660), (54, 66759), (59, 66783), (86, 66942),

Gene: OrionPax_72 Start: 46894, Stop: 47265, Start Num: 19

Candidate Starts for OrionPax_72:

(Start: 17 @46888 has 87 MA's), (Start: 19 @46894 has 41 MA's), (36, 46966), (46, 47026), (63, 47125), (77, 47197),

Gene: OverPar_46 Start: 35475, Stop: 35804, Start Num: 22

Candidate Starts for OverPar_46:

(Start: 5 @35379 has 10 MA's), (Start: 7 @35388 has 41 MA's), (Start: 22 @35475 has 50 MA's), (24, 35493), (32, 35520), (33, 35523), (48, 35598), (50, 35610), (74, 35718), (83, 35781),

Gene: PYPDinur_41 Start: 34231, Stop: 34560, Start Num: 22

Candidate Starts for PYPDinur_41:

(Start: 4 @34126 has 3 MA's), (Start: 5 @34138 has 10 MA's), (Start: 6 @34141 has 4 MA's), (Start: 22 @34231 has 50 MA's), (24, 34249), (32, 34276), (33, 34279), (48, 34354), (50, 34366), (74, 34474), (83, 34537), (85, 34552),

Gene: PaddyBaddy_73 Start: 46900, Stop: 47268, Start Num: 19

Candidate Starts for PaddyBaddy_73:

(Start: 17 @46894 has 87 MA's), (Start: 19 @46900 has 41 MA's), (36, 46972), (46, 47032), (77, 47200),

Gene: Palpatine_75 Start: 48272, Stop: 48646, Start Num: 17

Candidate Starts for Palpatine_75:

(Start: 17 @48272 has 87 MA's), (Start: 19 @48278 has 41 MA's), (36, 48350), (46, 48410), (77, 48578),

Gene: Paperbeatsrock_72 Start: 47514, Stop: 47891, Start Num: 17

Candidate Starts for Paperbeatsrock_72:

(Start: 17 @47514 has 87 MA's), (Start: 19 @47520 has 41 MA's), (36, 47592), (46, 47652), (77, 47823),

Gene: Paperbeatsrock_79 Start: 49894, Stop: 50229, Start Num: 20

Candidate Starts for Paperbeatsrock_79:

(1, 49642), (Start: 15 @49879 has 4 MA's), (Start: 20 @49894 has 18 MA's), (28, 49930), (58, 50071), (66, 50110), (72, 50146), (73, 50149), (78, 50167), (81, 50209),

Gene: Pat3_78 Start: 48426, Stop: 48761, Start Num: 20

Candidate Starts for Pat3_78:

(1, 48174), (Start: 15 @48411 has 4 MA's), (Start: 20 @48426 has 18 MA's), (28, 48462), (39, 48516), (66, 48642), (72, 48678), (73, 48681), (78, 48699), (81, 48741),

Gene: Pat3_71 Start: 46046, Stop: 46423, Start Num: 17

Candidate Starts for Pat3_71:

(Start: 17 @46046 has 87 MA's), (Start: 19 @46052 has 41 MA's), (36, 46124), (46, 46184), (63, 46283), (77, 46355),

Gene: Patience_60 Start: 43583, Stop: 43951, Start Num: 22

Candidate Starts for Patience_60:

(Start: 22 @43583 has 50 MA's), (26, 43604), (48, 43712), (49, 43721), (66, 43817), (71, 43844), (80, 43901),

Gene: Peregrin_226 Start: 113095, Stop: 113481, Start Num: 18

Candidate Starts for Peregrin_226:

(Start: 18 @113095 has 4 MA's), (38, 113182), (47, 113239), (48, 113245), (75, 113392), (84, 113452), (85, 113461),

Gene: Petra64142_77 Start: 48748, Stop: 49110, Start Num: 19

Candidate Starts for Petra64142_77:

(Start: 17 @48742 has 87 MA's), (Start: 19 @48748 has 41 MA's), (36, 48820), (77, 49042),

Gene: Phaja_71 Start: 47340, Stop: 47717, Start Num: 17

Candidate Starts for Phaja_71:

(Start: 17 @47340 has 87 MA's), (Start: 19 @47346 has 41 MA's), (36, 47418), (46, 47478), (77, 47649),

Gene: Phaja_78 Start: 49720, Stop: 50055, Start Num: 20

Candidate Starts for Phaja_78:

(1, 49468), (Start: 15 @49705 has 4 MA's), (Start: 20 @49720 has 18 MA's), (28, 49756), (58, 49897), (66, 49936), (72, 49972), (73, 49975), (78, 49993), (81, 50035),

Gene: Pharsalus_70 Start: 47314, Stop: 47691, Start Num: 17

Candidate Starts for Pharsalus_70:

(Start: 17 @47314 has 87 MA's), (Start: 19 @47320 has 41 MA's), (36, 47392), (46, 47452), (77, 47623),

Gene: Pharsalus_77 Start: 49694, Stop: 50029, Start Num: 20

Candidate Starts for Pharsalus_77:

(1, 49442), (Start: 15 @49679 has 4 MA's), (Start: 20 @49694 has 18 MA's), (28, 49730), (58, 49871), (66, 49910), (72, 49946), (73, 49949), (78, 49967), (81, 50009),

Gene: PhatBacter_77 Start: 48289, Stop: 48663, Start Num: 17

Candidate Starts for PhatBacter_77:

(Start: 17 @48289 has 87 MA's), (Start: 19 @48295 has 41 MA's), (36, 48367), (46, 48427), (77, 48595),

Gene: Phaux_75 Start: 48284, Stop: 48658, Start Num: 17

Candidate Starts for Phaux_75:

(Start: 17 @48284 has 87 MA's), (Start: 19 @48290 has 41 MA's), (36, 48362), (46, 48422), (77, 48590),

Gene: Phaux_82 Start: 50661, Stop: 50996, Start Num: 20

Candidate Starts for Phaux_82:

(1, 50409), (Start: 15 @50646 has 4 MA's), (Start: 20 @50661 has 18 MA's), (28, 50697), (39, 50751), (66, 50877), (72, 50913), (73, 50916), (78, 50934), (81, 50976),

Gene: Phoebus_119 Start: 68421, Stop: 68741, Start Num: 22

Candidate Starts for Phoebus_119:

(Start: 22 @68421 has 50 MA's), (30, 68460), (48, 68559), (64, 68616), (70, 68652), (77, 68682), (81, 68727),

Gene: Phoebus_135 Start: 75234, Stop: 75593, Start Num: 13

Candidate Starts for Phoebus_135:

(11, 75207), (Start: 13 @75234 has 36 MA's), (Start: 17 @75243 has 87 MA's), (48, 75375), (51, 75390), (75, 75519), (77, 75525),

Gene: Phrux_70 Start: 46880, Stop: 47254, Start Num: 17

Candidate Starts for Phrux_70:

(Start: 17 @46880 has 87 MA's), (Start: 19 @46886 has 41 MA's), (36, 46958), (46, 47018), (77, 47186),

Gene: Policronamos_76 Start: 48284, Stop: 48658, Start Num: 17

Candidate Starts for Policronamos_76:

(Start: 17 @48284 has 87 MA's), (Start: 19 @48290 has 41 MA's), (36, 48362), (46, 48422), (77, 48590),

Gene: Policronamos_83 Start: 50661, Stop: 50996, Start Num: 20

Candidate Starts for Policronamos_83:

(1, 50409), (Start: 15 @50646 has 4 MA's), (Start: 20 @50661 has 18 MA's), (28, 50697), (39, 50751), (66, 50877), (72, 50913), (73, 50916), (78, 50934), (81, 50976),

Gene: Porcelain_113 Start: 62820, Stop: 63140, Start Num: 22

Candidate Starts for Porcelain_113:

(Start: 22 @62820 has 50 MA's), (30, 62859), (48, 62958), (64, 63015), (70, 63051), (77, 63081), (81, 63126),

Gene: Porcelain_131 Start: 70628, Stop: 70981, Start Num: 13

Candidate Starts for Porcelain_131:

(Start: 13 @70628 has 36 MA's), (Start: 17 @70637 has 87 MA's), (75, 70907), (81, 70958),

Gene: Porky_72 Start: 46716, Stop: 47084, Start Num: 19

Candidate Starts for Porky_72:

(Start: 17 @46710 has 87 MA's), (Start: 19 @46716 has 41 MA's), (36, 46788), (46, 46848), (77, 47016),

Gene: Pound_108 Start: 64917, Stop: 65237, Start Num: 22

Candidate Starts for Pound_108:

(Start: 22 @64917 has 50 MA's), (30, 64956), (64, 65112), (70, 65148), (77, 65178), (81, 65223),

Gene: Ptowny_70 Start: 46176, Stop: 46553, Start Num: 17

Candidate Starts for Ptowny_70:

(Start: 17 @46176 has 87 MA's), (Start: 19 @46182 has 41 MA's), (36, 46254), (46, 46314), (77, 46485),

Gene: Pumpkin_76 Start: 47944, Stop: 48312, Start Num: 19

Candidate Starts for Pumpkin_76:

(Start: 17 @47938 has 87 MA's), (Start: 19 @47944 has 41 MA's), (36, 48016), (46, 48076), (77, 48244),

Gene: Quallification_74 Start: 47922, Stop: 48299, Start Num: 17

Candidate Starts for Quallification_74:

(Start: 17 @47922 has 87 MA's), (Start: 19 @47928 has 41 MA's), (36, 48000), (46, 48060), (77, 48231),

Gene: Quallification_81 Start: 50302, Stop: 50637, Start Num: 20

Candidate Starts for Quallification_81:

(1, 50050), (Start: 15 @50287 has 4 MA's), (Start: 20 @50302 has 18 MA's), (28, 50338), (58, 50479), (66, 50518), (72, 50554), (73, 50557), (78, 50575), (81, 50617),

Gene: Quby_43 Start: 34125, Stop: 34448, Start Num: 22

Candidate Starts for Quby_43:

(Start: 4 @34020 has 3 MA's), (Start: 5 @34032 has 10 MA's), (Start: 6 @34035 has 4 MA's), (9, 34050), (Start: 22 @34125 has 50 MA's), (24, 34143), (32, 34170), (33, 34173), (48, 34251), (65, 34314), (78, 34377), (83, 34425),

Gene: Rakim_74 Start: 47394, Stop: 47768, Start Num: 17

Candidate Starts for Rakim_74:

(Start: 17 @47394 has 87 MA's), (Start: 19 @47400 has 41 MA's), (36, 47472), (46, 47532), (63, 47628), (77, 47700),

Gene: Rearden_132 Start: 71022, Stop: 71375, Start Num: 13

Candidate Starts for Rearden_132:

(Start: 13 @71022 has 36 MA's), (Start: 17 @71031 has 87 MA's), (75, 71301), (81, 71352),

Gene: Rearden_107 Start: 62553, Stop: 62873, Start Num: 22

Candidate Starts for Rearden_107:

(Start: 22 @62553 has 50 MA's), (30, 62592), (48, 62691), (64, 62748), (70, 62784), (77, 62814), (81, 62859),

Gene: Red305_42 Start: 35730, Stop: 36053, Start Num: 22

Candidate Starts for Red305_42:

(Start: 4 @35625 has 3 MA's), (Start: 5 @35637 has 10 MA's), (Start: 7 @35646 has 41 MA's), (Start: 22 @35730 has 50 MA's), (24, 35748), (Start: 29 @35766 has 1 MA's), (32, 35775), (57, 35892), (83, 36030),

Gene: Redno2_126 Start: 70622, Stop: 70981, Start Num: 13

Candidate Starts for Redno2_126:

(11, 70595), (Start: 13 @70622 has 36 MA's), (Start: 17 @70631 has 87 MA's), (48, 70763), (51, 70778), (75, 70907), (77, 70913),

Gene: Redno2_112 Start: 64353, Stop: 64673, Start Num: 22

Candidate Starts for Redno2_112:

(Start: 22 @64353 has 50 MA's), (30, 64392), (48, 64491), (64, 64548), (70, 64584), (77, 64614), (81, 64659),

Gene: Rimmer_81 Start: 50007, Stop: 50342, Start Num: 20

Candidate Starts for Rimmer_81:

(1, 49755), (Start: 15 @49992 has 4 MA's), (Start: 20 @50007 has 18 MA's), (28, 50043), (39, 50097), (66, 50223), (72, 50259), (73, 50262), (78, 50280), (81, 50322),

Gene: Rimmer_74 Start: 47642, Stop: 48004, Start Num: 19

Candidate Starts for Rimmer_74:

(Start: 17 @47636 has 87 MA's), (Start: 19 @47642 has 41 MA's), (36, 47714), (77, 47936),

Gene: RiverMonster_73 Start: 47458, Stop: 47832, Start Num: 17

Candidate Starts for RiverMonster_73:

(Start: 17 @47458 has 87 MA's), (Start: 19 @47464 has 41 MA's), (36, 47536), (46, 47596), (77, 47764),

Gene: Rose5_42 Start: 34025, Stop: 34441, Start Num: 7

Candidate Starts for Rose5_42:

(Start: 4 @34004 has 3 MA's), (Start: 7 @34025 has 41 MA's), (14, 34091), (Start: 22 @34112 has 50 MA's), (24, 34130), (34, 34169), (37, 34181), (48, 34238), (63, 34298), (83, 34418),

Gene: Rossetti_46 Start: 36009, Stop: 36320, Start Num: 24

Candidate Starts for Rossetti_46:

(Start: 5 @35895 has 10 MA's), (Start: 7 @35904 has 41 MA's), (Start: 22 @35991 has 50 MA's), (24, 36009), (32, 36036), (33, 36039), (48, 36114), (50, 36126), (74, 36234), (83, 36297),

Gene: Rumpelstiltskin_45 Start: 35623, Stop: 36039, Start Num: 7

Candidate Starts for Rumpelstiltskin_45:

(Start: 5 @35614 has 10 MA's), (Start: 7 @35623 has 41 MA's), (Start: 22 @35710 has 50 MA's), (24, 35728), (32, 35755), (33, 35758), (48, 35833), (50, 35845), (74, 35953), (78, 35968), (83, 36016),

Gene: Saints25_72 Start: 46868, Stop: 47242, Start Num: 17

Candidate Starts for Saints25_72:

(Start: 17 @46868 has 87 MA's), (Start: 19 @46874 has 41 MA's), (36, 46946), (46, 47006), (77, 47174),

Gene: Samty_42 Start: 35731, Stop: 36054, Start Num: 22

Candidate Starts for Samty_42:

(Start: 4 @35626 has 3 MA's), (Start: 5 @35638 has 10 MA's), (Start: 7 @35647 has 41 MA's), (Start: 22 @35731 has 50 MA's), (24, 35749), (Start: 29 @35767 has 1 MA's), (32, 35776), (57, 35893), (83, 36031),

Gene: Sarshaun_45 Start: 35477, Stop: 35806, Start Num: 22

Candidate Starts for Sarshaun_45:

(Start: 5 @35381 has 10 MA's), (Start: 7 @35390 has 41 MA's), (Start: 22 @35477 has 50 MA's), (24, 35495), (32, 35522), (33, 35525), (48, 35600), (50, 35612), (74, 35720), (83, 35783),

Gene: Sassay_68 Start: 45564, Stop: 45932, Start Num: 19

Candidate Starts for Sassay_68:

(Start: 17 @45558 has 87 MA's), (Start: 19 @45564 has 41 MA's), (36, 45636), (46, 45696), (77, 45864),

Gene: Sassay_75 Start: 47920, Stop: 48270, Start Num: 15

Candidate Starts for Sassay_75:

(1, 47683), (Start: 15 @47920 has 4 MA's), (Start: 20 @47935 has 18 MA's), (28, 47971), (58, 48112), (66, 48151), (72, 48187), (73, 48190), (78, 48208), (81, 48250),

Gene: Schatzie_113 Start: 65339, Stop: 65659, Start Num: 22

Candidate Starts for Schatzie_113:

(Start: 22 @65339 has 50 MA's), (30, 65378), (48, 65477), (64, 65534), (70, 65570), (77, 65600), (81, 65645),

Gene: Schatzie_130 Start: 73330, Stop: 73689, Start Num: 13

Candidate Starts for Schatzie_130:

(11, 73303), (Start: 13 @73330 has 36 MA's), (Start: 17 @73339 has 87 MA's), (48, 73471), (51, 73486), (75, 73615), (77, 73621),

Gene: Shaboozey_134 Start: 71250, Stop: 71603, Start Num: 13

Candidate Starts for Shaboozey_134:

(Start: 13 @71250 has 36 MA's), (Start: 17 @71259 has 87 MA's), (48, 71385), (75, 71529),

Gene: Shaboozey_111 Start: 62340, Stop: 62663, Start Num: 22

Candidate Starts for Shaboozey_111:

(Start: 22 @62340 has 50 MA's), (30, 62379), (43, 62445), (45, 62466), (46, 62469), (51, 62496), (81, 62649),

Gene: ShamWow_73 Start: 47777, Stop: 48154, Start Num: 17

Candidate Starts for ShamWow_73:

(Start: 17 @47777 has 87 MA's), (Start: 19 @47783 has 41 MA's), (36, 47855), (46, 47915), (77, 48086),

Gene: Sheng711_43 Start: 34231, Stop: 34560, Start Num: 22

Candidate Starts for Sheng711_43:

(Start: 4 @34126 has 3 MA's), (Start: 5 @34138 has 10 MA's), (Start: 6 @34141 has 4 MA's), (Start: 22 @34231 has 50 MA's), (24, 34249), (32, 34276), (33, 34279), (48, 34354), (50, 34366), (74, 34474), (83, 34537), (85, 34552),

Gene: ShereKhan_72 Start: 47846, Stop: 48223, Start Num: 17

Candidate Starts for ShereKhan_72:

(Start: 17 @47846 has 87 MA's), (Start: 19 @47852 has 41 MA's), (36, 47924), (46, 47984), (77, 48155),

Gene: ShereKhan_78 Start: 50227, Stop: 50562, Start Num: 20

Candidate Starts for ShereKhan_78:

(1, 49975), (Start: 15 @50212 has 4 MA's), (Start: 20 @50227 has 18 MA's), (28, 50263), (58, 50404), (66, 50443), (72, 50479), (73, 50482), (78, 50500), (81, 50542),

Gene: Silverleaf_42 Start: 34025, Stop: 34441, Start Num: 7

Candidate Starts for Silverleaf_42:

(Start: 4 @34004 has 3 MA's), (Start: 7 @34025 has 41 MA's), (14, 34091), (Start: 22 @34112 has 50 MA's), (24, 34130), (34, 34169), (37, 34181), (48, 34238), (63, 34298), (83, 34418),

Gene: Simpliphy_72 Start: 46864, Stop: 47232, Start Num: 19

Candidate Starts for Simpliphy_72:

(Start: 17 @46858 has 87 MA's), (Start: 19 @46864 has 41 MA's), (36, 46936), (46, 46996), (77, 47164),

Gene: SirDuracell_79 Start: 48521, Stop: 48856, Start Num: 20

Candidate Starts for SirDuracell_79:

(1, 48269), (Start: 15 @48506 has 4 MA's), (Start: 20 @48521 has 18 MA's), (28, 48557), (39, 48611), (66, 48737), (72, 48773), (73, 48776), (78, 48794), (81, 48836),

Gene: SirDuracell_72 Start: 46147, Stop: 46518, Start Num: 19

Candidate Starts for SirDuracell_72:

(Start: 17 @46141 has 87 MA's), (Start: 19 @46147 has 41 MA's), (36, 46219), (46, 46279), (63, 46378), (77, 46450),

Gene: Snenia_42 Start: 35731, Stop: 36054, Start Num: 22

Candidate Starts for Snenia_42:

(Start: 4 @35626 has 3 MA's), (Start: 5 @35638 has 10 MA's), (Start: 7 @35647 has 41 MA's), (Start: 22 @35731 has 50 MA's), (24, 35749), (Start: 29 @35767 has 1 MA's), (32, 35776), (57, 35893), (83, 36031),

Gene: SoJulia_46 Start: 35703, Stop: 36032, Start Num: 22

Candidate Starts for SoJulia_46:

(Start: 5 @35607 has 10 MA's), (Start: 7 @35616 has 41 MA's), (Start: 22 @35703 has 50 MA's), (24, 35721), (32, 35748), (33, 35751), (48, 35826), (50, 35838), (74, 35946), (83, 36009),

Gene: Soap141_45 Start: 35477, Stop: 35806, Start Num: 22

Candidate Starts for Soap141_45:

(Start: 5 @35381 has 10 MA's), (Start: 7 @35390 has 41 MA's), (Start: 22 @35477 has 50 MA's), (24, 35495), (32, 35522), (33, 35525), (48, 35600), (50, 35612), (74, 35720), (83, 35783),

Gene: SophKB_70 Start: 46533, Stop: 46910, Start Num: 17

Candidate Starts for SophKB_70:

(Start: 17 @46533 has 87 MA's), (Start: 19 @46539 has 41 MA's), (36, 46611), (46, 46671), (77, 46842),

Gene: SophKB_77 Start: 48913, Stop: 49248, Start Num: 20

Candidate Starts for SophKB_77:

(1, 48661), (Start: 15 @48898 has 4 MA's), (Start: 20 @48913 has 18 MA's), (28, 48949), (58, 49090), (66, 49129), (72, 49165), (73, 49168), (78, 49186), (81, 49228),

Gene: Sotrice96_74 Start: 47536, Stop: 47913, Start Num: 17

Candidate Starts for Sotrice96_74:

(Start: 17 @47536 has 87 MA's), (Start: 19 @47542 has 41 MA's), (36, 47614), (46, 47674), (77, 47845),

Gene: Squint_111 Start: 62624, Stop: 62944, Start Num: 22

Candidate Starts for Squint_111:

(Start: 22 @62624 has 50 MA's), (30, 62663), (48, 62762), (64, 62819), (70, 62855), (77, 62885), (81, 62930),

Gene: Squint_131 Start: 70888, Stop: 71241, Start Num: 13

Candidate Starts for Squint_131:

(Start: 13 @70888 has 36 MA's), (Start: 17 @70897 has 87 MA's), (75, 71167), (81, 71218),

Gene: Stank_76 Start: 47794, Stop: 48171, Start Num: 17

Candidate Starts for Stank_76:

(Start: 17 @47794 has 87 MA's), (Start: 19 @47800 has 41 MA's), (36, 47872), (46, 47932), (77, 48103),

Gene: Stark_74 Start: 47341, Stop: 47715, Start Num: 17

Candidate Starts for Stark_74:

(Start: 17 @47341 has 87 MA's), (Start: 19 @47347 has 41 MA's), (36, 47419), (46, 47479), (77, 47647),

Gene: StellaBean_71 Start: 47107, Stop: 47478, Start Num: 19

Candidate Starts for StellaBean_71:

(Start: 17 @47101 has 87 MA's), (Start: 19 @47107 has 41 MA's), (36, 47179), (46, 47239), (77, 47410),

Gene: Stellammi_96 Start: 46045, Stop: 46407, Start Num: 22

Candidate Starts for Stellammi_96:

(3, 45898), (21, 46042), (Start: 22 @46045 has 50 MA's), (41, 46141), (48, 46186), (55, 46225), (60, 46255), (67, 46294),

Gene: StolenFromERC_76 Start: 47576, Stop: 47953, Start Num: 17

Candidate Starts for StolenFromERC_76:

(Start: 17 @47576 has 87 MA's), (Start: 19 @47582 has 41 MA's), (36, 47654), (46, 47714), (77, 47885),

Gene: StormChicken_82 Start: 50599, Stop: 50949, Start Num: 15

Candidate Starts for StormChicken_82:

(1, 50362), (Start: 15 @50599 has 4 MA's), (Start: 20 @50614 has 18 MA's), (28, 50650), (58, 50791), (66, 50830), (72, 50866), (73, 50869), (78, 50887), (81, 50929),

Gene: StormChicken_75 Start: 48243, Stop: 48611, Start Num: 17

Candidate Starts for StormChicken_75:

(Start: 17 @48243 has 87 MA's), (Start: 19 @48249 has 41 MA's), (36, 48321), (77, 48543),

Gene: SuperSonics_61 Start: 42729, Stop: 43097, Start Num: 22

Candidate Starts for SuperSonics_61:

(Start: 22 @42729 has 50 MA's), (26, 42750), (48, 42858), (49, 42867), (66, 42963), (71, 42990),

Gene: Superphikiman_131 Start: 70104, Stop: 70457, Start Num: 13

Candidate Starts for Superphikiman_131:

(Start: 13 @70104 has 36 MA's), (Start: 17 @70113 has 87 MA's), (75, 70383),

Gene: Superphikiman_110 Start: 61715, Stop: 62035, Start Num: 22

Candidate Starts for Superphikiman_110:

(Start: 22 @61715 has 50 MA's), (30, 61754), (48, 61853), (64, 61910), (70, 61946), (77, 61976), (81, 62021),

Gene: TBrady12_76 Start: 47275, Stop: 47652, Start Num: 17

Candidate Starts for TBrady12_76:

(Start: 17 @47275 has 87 MA's), (Start: 19 @47281 has 41 MA's), (36, 47353), (46, 47413), (77, 47584),

Gene: Tarkin_79 Start: 49903, Stop: 50238, Start Num: 20

Candidate Starts for Tarkin_79:

(1, 49651), (Start: 15 @49888 has 4 MA's), (Start: 20 @49903 has 18 MA's), (28, 49939), (58, 50080), (66, 50119), (72, 50155), (73, 50158), (78, 50176), (81, 50218),

Gene: Tarkin_72 Start: 47523, Stop: 47900, Start Num: 17

Candidate Starts for Tarkin_72:

(Start: 17 @47523 has 87 MA's), (Start: 19 @47529 has 41 MA's), (36, 47601), (46, 47661), (77, 47832),

Gene: TeamEdward_75 Start: 48249, Stop: 48605, Start Num: 19

Candidate Starts for TeamEdward_75:

(Start: 17 @48243 has 87 MA's), (Start: 19 @48249 has 41 MA's), (46, 48369), (63, 48465),

Gene: TeamEdward_82 Start: 50608, Stop: 50943, Start Num: 20

Candidate Starts for TeamEdward_82:

(1, 50356), (Start: 15 @50593 has 4 MA's), (Start: 20 @50608 has 18 MA's), (28, 50644), (39, 50698), (66, 50824), (72, 50860), (73, 50863), (78, 50881), (81, 50923),

Gene: TeardropMSU_76 Start: 48888, Stop: 49238, Start Num: 15

Candidate Starts for TeardropMSU_76:

(1, 48651), (Start: 15 @48888 has 4 MA's), (Start: 20 @48903 has 18 MA's), (28, 48939), (58, 49080), (66, 49119), (72, 49155), (73, 49158), (78, 49176), (81, 49218),

Gene: TeardropMSU_69 Start: 46523, Stop: 46900, Start Num: 17

Candidate Starts for TeardropMSU_69:

(Start: 17 @46523 has 87 MA's), (Start: 19 @46529 has 41 MA's), (36, 46601), (46, 46661), (77, 46832),

Gene: Teaspoon_74 Start: 47423, Stop: 47794, Start Num: 19

Candidate Starts for Teaspoon_74:

(Start: 17 @47417 has 87 MA's), (Start: 19 @47423 has 41 MA's), (36, 47495), (46, 47555), (77, 47726),

Gene: Terminus_76 Start: 48319, Stop: 48687, Start Num: 19

Candidate Starts for Terminus_76:

(Start: 17 @48313 has 87 MA's), (Start: 19 @48319 has 41 MA's), (36, 48391), (46, 48451), (77, 48619),

Gene: Thibault_99 Start: 60528, Stop: 60848, Start Num: 22

Candidate Starts for Thibault_99:

(Start: 22 @60528 has 50 MA's), (30, 60567), (64, 60723), (70, 60759), (77, 60789), (81, 60834),

Gene: Thibault_119 Start: 70544, Stop: 70903, Start Num: 13

Candidate Starts for Thibault_119:

(11, 70517), (Start: 13 @70544 has 36 MA's), (Start: 17 @70553 has 87 MA's), (48, 70685), (51, 70700), (77, 70835),

Gene: Thimble_74 Start: 46764, Stop: 47135, Start Num: 19

Candidate Starts for Thimble_74:

(Start: 17 @46758 has 87 MA's), (Start: 19 @46764 has 41 MA's), (36, 46836), (46, 46896), (77, 47067),

Gene: ThreeRngTarjay_130 Start: 73825, Stop: 74184, Start Num: 13

Candidate Starts for ThreeRngTarjay_130:

(11, 73798), (Start: 13 @73825 has 36 MA's), (Start: 17 @73834 has 87 MA's), (48, 73966), (51, 73981), (75, 74110), (77, 74116),

Gene: Thresher_75 Start: 48406, Stop: 48774, Start Num: 19

Candidate Starts for Thresher_75:

(Start: 17 @48400 has 87 MA's), (Start: 19 @48406 has 41 MA's), (36, 48478), (46, 48538), (77, 48706),

Gene: Tomaszewski_68 Start: 46695, Stop: 47063, Start Num: 17

Candidate Starts for Tomaszewski_68:

(Start: 17 @46695 has 87 MA's), (Start: 19 @46701 has 41 MA's), (52, 46857), (73, 46980), (83, 47046),

Gene: Toto_71 Start: 47777, Stop: 48154, Start Num: 17

Candidate Starts for Toto_71:

(Start: 17 @47777 has 87 MA's), (Start: 19 @47783 has 41 MA's), (36, 47855), (46, 47915), (77, 48086),

Gene: Tourach_44 Start: 35371, Stop: 35784, Start Num: 7

Candidate Starts for Tourach_44:

(Start: 5 @35362 has 10 MA's), (Start: 7 @35371 has 41 MA's), (Start: 22 @35458 has 50 MA's), (24, 35476), (32, 35503), (33, 35506), (48, 35581), (83, 35761),

Gene: Traaww1_69 Start: 46961, Stop: 47338, Start Num: 17

Candidate Starts for Traaww1_69:

(Start: 17 @46961 has 87 MA's), (Start: 19 @46967 has 41 MA's), (36, 47039), (46, 47099), (77, 47270),

Gene: TriFive_42 Start: 35730, Stop: 36053, Start Num: 22

Candidate Starts for TriFive_42:

(Start: 4 @35625 has 3 MA's), (Start: 5 @35637 has 10 MA's), (Start: 7 @35646 has 41 MA's), (Start: 22 @35730 has 50 MA's), (24, 35748), (Start: 29 @35766 has 1 MA's), (32, 35775), (57, 35892), (83, 36030),

Gene: Tuco_74 Start: 48285, Stop: 48662, Start Num: 17

Candidate Starts for Tuco_74:

(Start: 17 @48285 has 87 MA's), (Start: 19 @48291 has 41 MA's), (36, 48363), (46, 48423), (77, 48594),

Gene: Tyson_42 Start: 34026, Stop: 34442, Start Num: 7

Candidate Starts for Tyson_42:

(Start: 4 @34005 has 3 MA's), (Start: 7 @34026 has 41 MA's), (14, 34092), (Start: 22 @34113 has 50 MA's), (24, 34131), (34, 34170), (37, 34182), (48, 34239), (63, 34299), (76, 34365), (83, 34419),

Gene: UPIE_43 Start: 34009, Stop: 34425, Start Num: 7

Candidate Starts for UPIE_43:

(Start: 4 @33988 has 3 MA's), (Start: 7 @34009 has 41 MA's), (14, 34075), (Start: 22 @34096 has 50 MA's), (24, 34114), (34, 34153), (37, 34165), (48, 34222), (63, 34282), (83, 34402),

Gene: Ukulele_68 Start: 46671, Stop: 47045, Start Num: 17

Candidate Starts for Ukulele_68:

(Start: 17 @46671 has 87 MA's), (Start: 19 @46677 has 41 MA's), (36, 46749), (46, 46809), (77, 46977),

Gene: Underpass_45 Start: 35357, Stop: 35773, Start Num: 7

Candidate Starts for Underpass_45:

(Start: 5 @35348 has 10 MA's), (Start: 7 @35357 has 41 MA's), (Start: 22 @35444 has 50 MA's), (24, 35462), (32, 35489), (33, 35492), (48, 35567), (50, 35579), (74, 35687), (83, 35750),

Gene: Vetrix_45 Start: 35363, Stop: 35779, Start Num: 7

Candidate Starts for Vetrix_45:

(Start: 5 @35354 has 10 MA's), (Start: 7 @35363 has 41 MA's), (Start: 22 @35450 has 50 MA's), (24, 35468), (32, 35495), (33, 35498), (48, 35573), (50, 35585), (74, 35693), (83, 35756),

Gene: Wamburgrexpress_43 Start: 34024, Stop: 34440, Start Num: 7

Candidate Starts for Wamburgrexpress_43:

(Start: 4 @34003 has 3 MA's), (Start: 7 @34024 has 41 MA's), (14, 34090), (Start: 22 @34111 has 50 MA's), (24, 34129), (34, 34168), (37, 34180), (48, 34237), (63, 34297), (83, 34417),

Gene: Wanda_133 Start: 70960, Stop: 71319, Start Num: 13

Candidate Starts for Wanda_133:

(11, 70933), (Start: 13 @70960 has 36 MA's), (Start: 17 @70969 has 87 MA's), (48, 71101), (51, 71116), (75, 71245), (77, 71251),

Gene: Weasels2_208 Start: 107565, Stop: 107978, Start Num: 18

Candidate Starts for Weasels2_208:

(Start: 18 @107565 has 4 MA's), (40, 107664), (49, 107721), (56, 107766), (63, 107805), (75, 107880),

Gene: Weasels2_237 Start: 116136, Stop: 116522, Start Num: 18

Candidate Starts for Weasels2_237:

(16, 116130), (Start: 18 @116136 has 4 MA's), (48, 116286), (75, 116433), (84, 116493),

Gene: Whirlwind_43 Start: 35405, Stop: 35812, Start Num: 7

Candidate Starts for Whirlwind_43:

(Start: 4 @35384 has 3 MA's), (Start: 5 @35396 has 10 MA's), (Start: 7 @35405 has 41 MA's), (Start: 22 @35489 has 50 MA's), (24, 35507), (Start: 29 @35525 has 1 MA's), (32, 35534), (57, 35651), (83, 35789),

Gene: Wiggin_75 Start: 47368, Stop: 47739, Start Num: 19

Candidate Starts for Wiggin_75:

(Start: 17 @47362 has 87 MA's), (Start: 19 @47368 has 41 MA's), (36, 47440), (46, 47500), (77, 47671),

Gene: Wigglewigggle_45 Start: 35380, Stop: 35805, Start Num: 5

Candidate Starts for Wigglewigggle_45:

(Start: 5 @35380 has 10 MA's), (Start: 7 @35389 has 41 MA's), (Start: 22 @35476 has 50 MA's), (24, 35494), (32, 35521), (33, 35524), (48, 35599), (50, 35611), (74, 35719), (83, 35782),

Gene: Wilder_45 Start: 35362, Stop: 35778, Start Num: 7

Candidate Starts for Wilder_45:

(Start: 5 @35353 has 10 MA's), (Start: 7 @35362 has 41 MA's), (Start: 22 @35449 has 50 MA's), (24, 35467), (32, 35494), (33, 35497), (48, 35572), (50, 35584), (74, 35692), (83, 35755),

Gene: Willez_75 Start: 47920, Stop: 48270, Start Num: 15

Candidate Starts for Willez_75:

(1, 47683), (Start: 15 @47920 has 4 MA's), (Start: 20 @47935 has 18 MA's), (28, 47971), (58, 48112), (66, 48151), (72, 48187), (73, 48190), (78, 48208), (81, 48250),

Gene: Willez_68 Start: 45564, Stop: 45932, Start Num: 19

Candidate Starts for Willez_68:

(Start: 17 @45558 has 87 MA's), (Start: 19 @45564 has 41 MA's), (36, 45636), (46, 45696), (77, 45864),

Gene: Winky_45 Start: 35347, Stop: 35772, Start Num: 5

Candidate Starts for Winky_45:

(Start: 5 @35347 has 10 MA's), (Start: 7 @35356 has 41 MA's), (Start: 22 @35443 has 50 MA's), (24, 35461), (32, 35488), (33, 35491), (48, 35566), (50, 35578), (74, 35686), (83, 35749),

Gene: Wyatt2_43 Start: 34025, Stop: 34441, Start Num: 7

Candidate Starts for Wyatt2_43:

(Start: 4 @34004 has 3 MA's), (Start: 7 @34025 has 41 MA's), (14, 34091), (Start: 22 @34112 has 50 MA's), (24, 34130), (34, 34169), (37, 34181), (48, 34238), (63, 34298), (83, 34418),

Gene: Xandras_72 Start: 46773, Stop: 47147, Start Num: 17

Candidate Starts for Xandras_72:

(Start: 17 @46773 has 87 MA's), (Start: 19 @46779 has 41 MA's), (36, 46851), (46, 46911), (77, 47079),

Gene: Xiaokay_107 Start: 63424, Stop: 63744, Start Num: 22

Candidate Starts for Xiaokay_107:

(Start: 22 @63424 has 50 MA's), (30, 63463), (64, 63619), (69, 63649), (70, 63655), (77, 63685), (81, 63730),

Gene: Xiaokay_130 Start: 73215, Stop: 73574, Start Num: 13

Candidate Starts for Xiaokay_130:

(11, 73188), (Start: 13 @73215 has 36 MA's), (Start: 17 @73224 has 87 MA's), (48, 73356), (51, 73371), (77, 73506),

Gene: YassJohnny_77 Start: 49090, Stop: 49440, Start Num: 15

Candidate Starts for YassJohnny_77:

(1, 48853), (Start: 15 @49090 has 4 MA's), (Start: 20 @49105 has 18 MA's), (28, 49141), (58, 49282), (66, 49321), (72, 49357), (73, 49360), (78, 49378), (81, 49420),

Gene: YassJohnny_70 Start: 46740, Stop: 47102, Start Num: 19

Candidate Starts for YassJohnny_70:

(Start: 17 @46734 has 87 MA's), (Start: 19 @46740 has 41 MA's), (52, 46896), (73, 47019), (83, 47085),

Gene: Yeet_109 Start: 64277, Stop: 64597, Start Num: 22

Candidate Starts for Yeet_109:

(Start: 22 @64277 has 50 MA's), (30, 64316), (48, 64415), (64, 64472), (70, 64508), (77, 64538), (81, 64583),

Gene: Yeet_128 Start: 73023, Stop: 73382, Start Num: 13

Candidate Starts for Yeet_128:

(11, 72996), (Start: 13 @73023 has 36 MA's), (Start: 17 @73032 has 87 MA's), (48, 73164), (51, 73179), (75, 73308), (77, 73314),

Gene: Youngblood_76 Start: 48246, Stop: 48614, Start Num: 19

Candidate Starts for Youngblood_76:

(Start: 17 @48240 has 87 MA's), (Start: 19 @48246 has 41 MA's), (36, 48318), (46, 48378), (77, 48546),

Gene: Zakai_45 Start: 35614, Stop: 36030, Start Num: 7

Candidate Starts for Zakai_45:

(Start: 5 @35605 has 10 MA's), (Start: 7 @35614 has 41 MA's), (Start: 22 @35701 has 50 MA's), (24, 35719), (32, 35746), (33, 35749), (48, 35824), (50, 35836), (74, 35944), (83, 36007),

Gene: Zaria_43 Start: 34040, Stop: 34456, Start Num: 7

Candidate Starts for Zaria_43:

(Start: 4 @34019 has 3 MA's), (Start: 7 @34040 has 41 MA's), (14, 34106), (Start: 22 @34127 has 50 MA's), (24, 34145), (34, 34184), (37, 34196), (48, 34253), (63, 34313), (83, 34433),

Gene: Zelink_129 Start: 73772, Stop: 74131, Start Num: 13

Candidate Starts for Zelink_129:

(11, 73745), (Start: 13 @73772 has 36 MA's), (Start: 17 @73781 has 87 MA's), (48, 73913), (51, 73928), (75, 74057), (77, 74063),

Gene: ZhongYanYuan_43 Start: 35304, Stop: 35633, Start Num: 22

Candidate Starts for ZhongYanYuan_43:

(Start: 5 @35208 has 10 MA's), (Start: 7 @35217 has 41 MA's), (Start: 22 @35304 has 50 MA's), (24, 35322), (32, 35349), (33, 35352), (48, 35430), (74, 35547), (83, 35610),

Gene: xkcd_76 Start: 48430, Stop: 48804, Start Num: 17

Candidate Starts for xkcd_76:

(Start: 17 @48430 has 87 MA's), (Start: 19 @48436 has 41 MA's), (36, 48508), (46, 48568), (77, 48736),