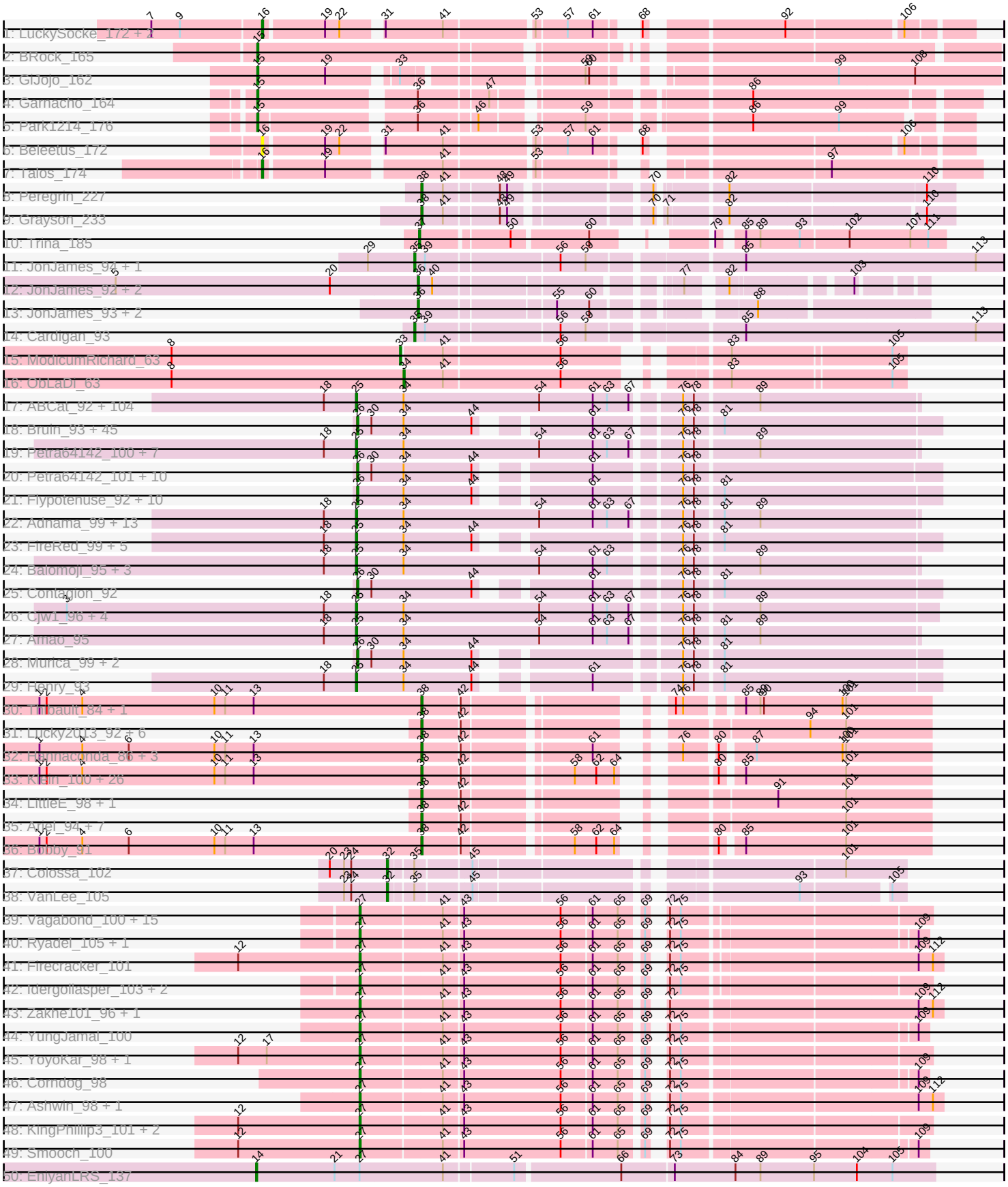
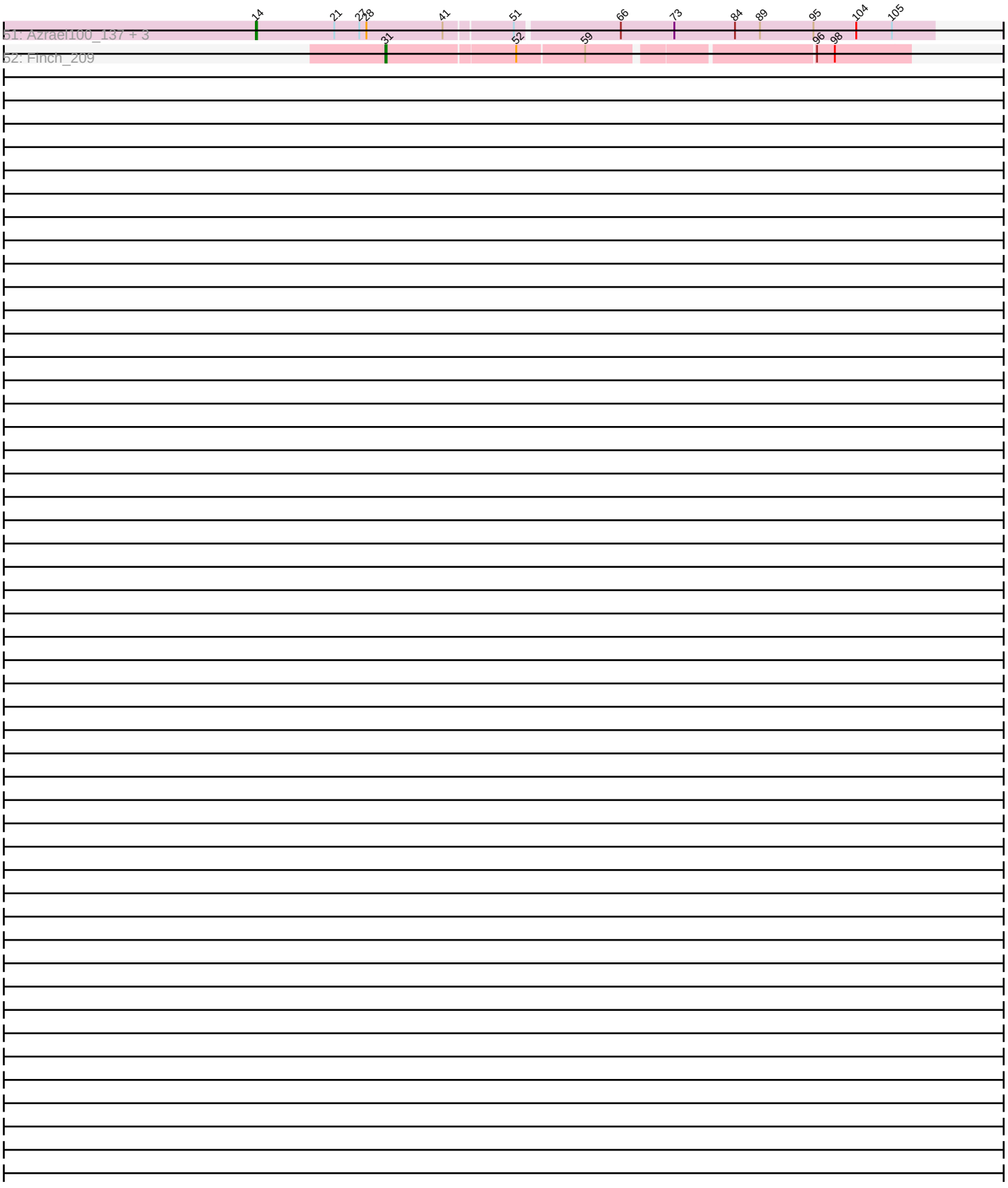
# Pham 347146



# Pham 347146


14
21
27
28
41
51
66
73
84
89
95
104
105
51: Azrael100_137 + 3
31
52
59
96
98
52: Finch_209

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 347146 Report

This analysis was run 11/14/26 on database version 672.

Pham number 347146 has 332 members, 28 are drafts.

Phages represented in each track:
• Track 1 : LuckySocke_172, Alone3_174, Fudan_171
• Track 2 : BRock_165
• Track 3 : GiJojo_162
• Track 4 : Garnacho_164
• Track 5 : Park1214_176
• Track 6 : Beleetus_172
• Track 7 : Talos_174
• Track 8 : Peregrin_227
• Track 9 : Grayson_233
• Track 10 : Trina_185
• Track 11 : JonJames_94, Yvonnetastic_92
• Track 12 : JonJames_92, Cardigan_91, Yvonnetastic_90
• Track 13 : JonJames_93, Yvonnetastic_91, Cardigan_92
• Track 14 : Cardigan_93
• Track 15 : ModicumRichard_63
• Track 16 : ObLaDi_63
• Track 17 : ABCat_92, Bruin_92, GoldenSpark_99, HanKaySha_96, ShereKhan_93, Lilpickle_94, Hopey_96, Easy2Say_96, Thresher_98, Thimble_97, IHOP_93, Ukulele_90, Manda_97, TBrady12_98, Command613_97, Bench_98, MPhalcon_96, BugsBunny_95, Becksu_94, Filch_97, Quallification_96, Rakim_96, StellaBean_93, Marshmallow_93, Goku_94, Czyszczon1_96, Stark_97, CrystalP_94, Mindy_94, Holt_100, AmericanBeauty_99, Youngblood_98, Kanye_92, Pumpkin_99, NelitzaMV_93, Mosby_91, Lilizi_96, Kostya_95, Dumbo_95, Moldemort_98, YassJohnny_92, Eureka_94, ShamWow_95, Inca_92, Phaux_98, ChosenOne_95, Hoonter_98, SophKB_92, Gemini_100, Brewer_91, MISSy_96, Phaja_93, Stank_97, Emmina_95, SirDuracell_95, BaboJay_95, Argent26_99, Highbury_94, GooberAzure_98, RiverMonster_96, Xandras_94, TeardropMSU_91, FairyPath_96, Sassay_90, Elite2014_94, Murphy_95, BilboSwaggins_93, NonchalantPear_95, Myrale_95, Pharsalus_92, Maxxinista_98, Toto_93, Murica_98, Gage_97, Paperbeatsrock_94, MadamMonkfish_95, NoSleep_96, BadStone_92, Saints25_94, Lilac_98, Bogg_95, HufflyPuff_97, Misfit_96, Porky_94, Dusk_92, Elph10_96, Goldilocks_98, Contagion_91, StolenFromERC_98, Simpliphy_94, PaddyBaddy_96, Greep_99, Ptowny_92, Nala_97, OrionPax_94, Willez_90, Tomaszewski_90, MollyToe_90, xkcd_98, Miniwave_90, Tarkin_94, Kimchi_99, DrDrey_95, Phrux_93, Terminus_98
• Track 18 : Bruin_93, HanKaySha_97, Hopey_97, Pat3_93, Harella_96, MPhalcon_97, Becksu_95, Gator_94, Rakim_97, Cookies_93, Czyszczon1_97,

244_97, Misfit_97, Mindy_95, Mosby_92, Balomoji_96, Myrale_96, Kanye_93, GoldenSpark_100, Moldemort_99, Gemini_101, Brewer_92, Stank_98, Youngblood_99, GooberAzure_99, Xandras_95, Simpliphy_95, MadamMonkfish_96, Ukulele_91, Nala_98, Gage_98, Hoonter_99, Holt_101, Sassay_91, Bench_99, ShereKhan_94, Dumbo_96, Lilizi_97, OrionPax_95, Willez_91, Tomaszewski_91, MISSy_97, StolenFromERC_99, Kimchi_100, Argent26_100, Terminus_99
• Track 19 : Petra64142_100, DoctorDiddles_94, ChotaBhai_95, Buck_96, Bask21_95, Pat3_92, Daikon_96, StormChicken_97
• Track 20 : Petra64142_101, ChotaBhai_96, DoctorDiddles_95, Amao_96, Rimmer_94, SirDuracell_96, Buck_97, Daikon_97, Bask21_96, TeamEdward_96, StormChicken_98
• Track 21 : Flypotenuse_92, Adnama_100, Asriel_94, Glexan_95, Barbarian_95, Wiggin_98, Sotrice96_97, Tuco_97, Cactus_99, Icee_97, Traaww1_92
• Track 22 : Adnama_99, BigBubba_95, Tuco_96, Icee_96, Harella_95, Teaspoon_96, Barbarian_94, Cactus_98, Wiggin_97, Sotrice96_96, Asriel_93, Flypotenuse_91, Glexan_94, Traaww1_91
• Track 23 : FireRed_99, Policronamos_98, Palpatine_97, Nimrod_96, Livelaughbron_97, PhatBacter_99
• Track 24 : Balomoji_95, Gator_93, Cookies_92, FoghornLeghorn_89
• Track 25 : Contagion_92
• Track 26 : Cjw1_96, Rimmer_93, TeamEdward_95, 244_96, JeTaime_96
• Track 27 : Amao_95
• Track 28 : Murica_99, HufflyPuff_98, xkcd_99
• Track 29 : Henry_93
• Track 30 : Thibault_84, Constella_85
• Track 31 : Lucky2013_92, Gonephishing_87, BronnyJames_94, Nibley_88, Nekros_97, Rearden_89, Shaboozey_93
• Track 32 : Hannaconda_86, DmpstrDiver_101, KashFlow_90, Marleymoo_81
• Track 33 : Klein_100, Bombitas_88, Dallas_101, Halley_101, Duke13_96, Beem_100, EricMillard_93, Phoebus_101, Minerva_99, Ejimix_93, Schatzie_94, Pound_91, Odette_99, JuicyJay_96, Dove_85, Wanda_103, Hughesyang_99, Bagrid_99, Yeet_92, Kalah2_93, ThreeRngTarjay_96, BAKA_101, Zelink_96, NihilNomen_101, Optimus_93, Redno2_91, HokkenD_88
• Track 34 : LittleE_98, Omega_104
• Track 35 : Ariel_94, Courthouse_90, Porcelain_93, Squint_93, Hidrated_86, MiaZeal_95, Superphikiman_92, Xiaokay_89
• Track 36 : Bobby_91
• Track 37 : Colossa_102
• Track 38 : VanLee_105
• Track 39 : Vagabond_100, Familton_102, Winget_101, Mori_101, Blessica_99, Schuy_101, Imara_100, Zebo_100, Bora_100, Vorrps_101, Alkhayr_101, FoulBall_100, Catdawg_102, Murai_101, SchoolBus_100, NiebruSaylor_101
• Track 40 : Ryadel_105, MadKillah_104
• Track 41 : Firecracker_101
• Track 42 : Idergollasper_103, Wogge42_98, Krili_103
• Track 43 : Zakhe101_96, Dylan_96
• Track 44 : YungJamal_100
• Track 45 : YoyoKar_98, TelAviv_98
• Track 46 : Corndog_98
• Track 47 : Ashwin_98, Wildflower_98
• Track 48 : KingPhillip3_101, JangDynasty_97, Shida_103
• Track 49 : Smooch_100
• Track 50 : EniyanLRS_137

• Track 51 : Azrael100_137, Cosmo_144, MaryV_130, Wildcat_144
• Track 52 : Finch_209

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

The start number called the most often in the published annotations is 25, it was called in 133 of the 304 non-draft genes in the pham.

Genes that call this "Most Annotated" start:
• 244_96, ABCat_92, Adnama_99, Amao_95, AmericanBeauty_99, Argent26_99, Asriel_93, BaboJay_95, BadStone_92, Balomoji_95, Barbarian_94, Bask21_95, Becksu_94, Bench_98, BigBubba_95, BilboSwaggins_93, Bogg_95, Brewer_91, Bruin_92, Buck_96, BugsBunny_95, Cactus_98, ChosenOne_95, ChotaBhai_95, Cjw1_96, Command613_97, Contagion_91, Cookies_92, CrystalP_94, Czyszczon1_96, Daikon_96, DoctorDiddles_94, DrDrey_95, Dumbo_95, Dusk_92, Easy2Say_96, Elite2014_94, Elph10_96, Emmina_95, Eureka_94, FairyPath_96, Filch_97, FireRed_99, Flypotenuse_91, FoghornLeghorn_89, Gage_97, Gator_93, Gemini_100, Glexan_94, Goku_94, GoldenSpark_99, Goldilocks_98, GooberAzure_98, Greep_99, HanKaySha_96, Harella_95, Henry_93, Highbury_94, Holt_100, Hoonter_98, Hopey_96, HufflyPuff_97, IHOP_93, Icee_96, Inca_92, JeTaime_96, Kanye_92, Kimchi_99, Kostya_95, Lilac_98, Lilizi_96, Lilpickle_94, Livelaughbron_97, MISSy_96, MPhalcon_96, MadamMonkfish_95, Manda_97, Marshmallow_93, Maxxinista_98, Mindy_94, Miniwave_90, Misfit_96, Moldemort_98, MollyToe_90, Mosby_91, Murica_98, Murphy_95, Myrale_95, Nala_97, NelitzaMV_93, Nimrod_96, NoSleep_96, NonchalantPear_95, OrionPax_94, PaddyBaddy_96, Palpatine_97, Paperbeatsrock_94, Pat3_92, Petra64142_100, Phaja_93, Pharsalus_92, PhatBacter_99, Phaux_98, Phrux_93, Policronamos_98, Porky_94, Ptowny_92, Pumpkin_99, Quallification_96, Rakim_96, Rimmer_93, RiverMonster_96, Saints25_94, Sassay_90, ShamWow_95, ShereKhan_93, Simpliphy_94, SirDuracell_95, SophKB_92, Sotrice96_96, Stank_97, Stark_97, StellaBean_93, StolenFromERC_98, StormChicken_97, TBrady12_98, Tarkin_94, TeamEdward_95, TeardropMSU_91, Teaspoon_96, Terminus_98, Thimble_97, Thresher_98, Tomaszewski_90, Toto_93, Traaww1_91, Tuco_96, Ukulele_90, Wiggin_97, Willez_90, Xandras_94, YassJohnny_92, Youngblood_98, xkcd_98,

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

Genes that do not have the "Most Annotated" start:
• 244_97, Adnama_100, Alkhayr_101, Alone3_174, Amao_96, Argent26_100, Ariel_94, Ashwin_98, Asriel_94, Azrael100_137, BAKA_101, BRock_165, Bagrid_99, Balomoji_96, Barbarian_95, Bask21_96, Becksu_95, Beem_100, Beleetus_172, Bench_99, Blessica_99, Bobby_91, Bombitas_88, Bora_100, Brewer_92, BronnyJames_94, Bruin_93, Buck_97, Cactus_99, Cardigan_91, Cardigan_92, Cardigan_93, Catdawg_102, ChotaBhai_96, Colossa_102, Constella_85, Contagion_92, Cookies_93, Corndog_98, Cosmo_144, Courthouse_90, Czyszczon1_97, Daikon_97, Dallas_101, DmpstrDiver_101, DoctorDiddles_95, Dove_85, Duke13_96, Dumbo_96, Dylan_96, Ejimix_93, EniyanLRS_137, EricMillard_93, Familton_102, Finch_209, Firecracker_101, Flypotenuse_92, FoulBall_100, Fudan_171, Gage_98, Garnacho_164, Gator_94, Gemini_101,

GiJojo_162, Glexan_95, GoldenSpark_100, Gonephishing_87, GooberAzure_99, Grayson_233, Halley_101, HanKaySha_97, Hannaconda_86, Harella_96, Hidrated_86, HokkenD_88, Holt_101, Hoonter_99, Hopey_97, HufflyPuff_98, Hughesyang_99, Icee_97, Idergollasper_103, Imara_100, JangDynasty_97, JonJames_92, JonJames_93, JonJames_94, JuicyJay_96, Kalah2_93, Kanye_93, KashFlow_90, Kimchi_100, KingPhillip3_101, Klein_100, Krili_103, Lilizi_97, LittleE_98, Lucky2013_92, LuckySocke_172, MISSy_97, MPhalcon_97, MadKillah_104, MadamMonkfish_96, Marleymoo_81, MaryV_130, MiaZeal_95, Mindy_95, Minerva_99, Misfit_97, ModicumRichard_63, Moldemort_99, Mori_101, Mosby_92, Murai_101, Murica_99, Myrale_96, Nala_98, Nekros_97, Nibley_88, NiebruSaylor_101, NihilNomen_101, ObLaDi_63, Odette_99, Omega_104, Optimus_93, OrionPax_95, Park1214_176, Pat3_93, Peregrin_227, Petra64142_101, Phoebus_101, Porcelain_93, Pound_91, Rakim_97, Rearden_89, Redno2_91, Rimmer_94, Ryadel_105, Sassay_91, Schatzie_94, SchoolBus_100, Schuy_101, Shaboozey_93, ShereKhan_94, Shida_103, Simpliphy_95, SirDuracell_96, Smooch_100, Sotrice96_97, Squint_93, Stank_98, StolenFromERC_99, StormChicken_98, Superphikiman_92, Talos_174, TeamEdward_96, TelAviv_98, Terminus_99, Thibault_84, ThreeRngTarjay_96, Tomaszewski_91, Traaww1_92, Trina_185, Tuco_97, Ukulele_91, Vagabond_100, VanLee_105, Vorrps_101, Wanda_103, Wiggin_98, Wildcat_144, Wildflower_98, Willez_91, Winget_101, Wogge42_98, Xandras_95, Xiaokay_89, Yeet_92, Youngblood_99, YoyoKar_98, YungJamal_100, Yvonnetastic_90, Yvonnetastic_91, Yvonnetastic_92, Zakhe101_96, Zebo_100, Zelink_96, xkcd_99,

**Summary by start number:**

Start 14:
• Found in 5 of 332 ( 1.5% ) of genes in pham
• Manual Annotations of this start: 5 of 304
• Called 100.0% of time when present
• Phage (with cluster) where this start called: Azrael100_137 (V), Cosmo_144 (V), EniyanLRS_137 (V), MaryV_130 (V), Wildcat_144 (V),

Start 15:
• Found in 4 of 332 ( 1.2% ) of genes in pham
• Manual Annotations of this start: 4 of 304
• Called 100.0% of time when present
• Phage (with cluster) where this start called: BRock_165 (BS), Garnacho_164 (BS), GiJojo_162 (BS), Park1214_176 (BS),

Start 16:
• Found in 5 of 332 ( 1.5% ) of genes in pham
• Manual Annotations of this start: 4 of 304
• Called 100.0% of time when present
• Phage (with cluster) where this start called: Alone3_174 (BS), Beleetus_172 (BS), Fudan_171 (BS), LuckySocke_172 (BS), Talos_174 (BS),

Start 25:
• Found in 144 of 332 ( 43.4% ) of genes in pham
• Manual Annotations of this start: 133 of 304
• Called 100.0% of time when present
• Phage (with cluster) where this start called: 244_96 (E), ABCat_92 (E), Adnama_99 (E), Amao_95 (E), AmericanBeauty_99 (E), Argent26_99 (E), Asriel_93 (E),

BaboJay_95 (E), BadStone_92 (E), Balomoji_95 (E), Barbarian_94 (E), Bask21_95 (E), Becksu_94 (E), Bench_98 (E), BigBubba_95 (E), BilboSwaggins_93 (E), Bogg_95 (E), Brewer_91 (E), Bruin_92 (E), Buck_96 (E), BugsBunny_95 (E), Cactus_98 (E), ChosenOne_95 (E), ChotaBhai_95 (E), Cjw1_96 (E), Command613_97 (E), Contagion_91 (E), Cookies_92 (E), CrystalP_94 (E), Czyszczon1_96 (E), Daikon_96 (E), DoctorDiddles_94 (E), DrDrey_95 (E), Dumbo_95 (E), Dusk_92 (E), Easy2Say_96 (E), Elite2014_94 (E), Elph10_96 (E), Emmina_95 (E), Eureka_94 (E), FairyPath_96 (E), Filch_97 (E), FireRed_99 (E), Flypotenuse_91 (E), FoghornLeghorn_89 (E), Gage_97 (E), Gator_93 (E), Gemini_100 (E), Glexan_94 (E), Goku_94 (E), GoldenSpark_99 (E), Goldilocks_98 (E), GooberAzure_98 (E), Greep_99 (E), HanKaySha_96 (E), Harella_95 (E), Henry_93 (E), Highbury_94 (E), Holt_100 (E), Hoonter_98 (E), Hopey_96 (E), HufflyPuff_97 (E), IHOP_93 (E), Icee_96 (E), Inca_92 (E), JeTaime_96 (E), Kanye_92 (E), Kimchi_99 (E), Kostya_95 (E), Lilac_98 (E), Lilizi_96 (E), Lilpickle_94 (E), Livelaughbron_97 (E), MISSy_96 (E), MPhalcon_96 (E), MadamMonkfish_95 (E), Manda_97 (E), Marshmallow_93 (E), Maxxinista_98 (E), Mindy_94 (E), Miniwave_90 (E), Misfit_96 (E), Moldemort_98 (E), MollyToe_90 (E), Mosby_91 (E), Murica_98 (E), Murphy_95 (E), Myrale_95 (E), Nala_97 (E), NelitzaMV_93 (E), Nimrod_96 (E), NoSleep_96 (E), NonchalantPear_95 (E), OrionPax_94 (E), PaddyBaddy_96 (E), Palpatine_97 (E), Paperbeatsrock_94 (E), Pat3_92 (E), Petra64142_100 (E), Phaja_93 (E), Pharsalus_92 (E), PhatBacter_99 (E), Phaux_98 (E), Phrux_93 (E), Policronamos_98 (E), Porky_94 (E), Ptowny_92 (E), Pumpkin_99 (E), Quallification_96 (E), Rakim_96 (E), Rimmer_93 (E), RiverMonster_96 (E), Saints25_94 (E), Sassay_90 (E), ShamWow_95 (E), ShereKhan_93 (E), Simpliphy_94 (E), SirDuracell_95 (E), SophKB_92 (E), Sotrice96_96 (E), Stank_97 (E), Stark_97 (E), StellaBean_93 (E), StolenFromERC_98 (E), StormChicken_97 (E), TBrady12_98 (E), Tarkin_94 (E), TeamEdward_95 (E), TeardropMSU_91 (E), Teaspoon_96 (E), Terminus_98 (E), Thimble_97 (E), Thresher_98 (E), Tomaszewski_90 (E), Toto_93 (E), Traaww1_91 (E), Tuco_96 (E), Ukulele_90 (E), Wiggin_97 (E), Willez_90 (E), Xandras_94 (E), YassJohnny_92 (E), Youngblood_98 (E), xkcd_98 (E),

Start 26:
• Found in 72 of 332 ( 21.7% ) of genes in pham
• Manual Annotations of this start: 68 of 304
• Called 100.0% of time when present
• Phage (with cluster) where this start called: 244_97 (E), Adnama_100 (E), Amao_96 (E), Argent26_100 (E), Asriel_94 (E), Balomoji_96 (E), Barbarian_95 (E), Bask21_96 (E), Becksu_95 (E), Bench_99 (E), Brewer_92 (E), Bruin_93 (E), Buck_97 (E), Cactus_99 (E), ChotaBhai_96 (E), Contagion_92 (E), Cookies_93 (E), Czyszczon1_97 (E), Daikon_97 (E), DoctorDiddles_95 (E), Dumbo_96 (E), Flypotenuse_92 (E), Gage_98 (E), Gator_94 (E), Gemini_101 (E), Glexan_95 (E), GoldenSpark_100 (E), GooberAzure_99 (E), HanKaySha_97 (E), Harella_96 (E), Holt_101 (E), Hoonter_99 (E), Hopey_97 (E), HufflyPuff_98 (E), Icee_97 (E), Kanye_93 (E), Kimchi_100 (E), Lilizi_97 (E), MISSy_97 (E), MPhalcon_97 (E), MadamMonkfish_96 (E), Mindy_95 (E), Misfit_97 (E), Moldemort_99 (E), Mosby_92 (E), Murica_99 (E), Myrale_96 (E), Nala_98 (E), OrionPax_95 (E), Pat3_93 (E), Petra64142_101 (E), Rakim_97 (E), Rimmer_94 (E), Sassay_91 (E), ShereKhan_94 (E), Simpliphy_95 (E), SirDuracell_96 (E), Sotrice96_97 (E), Stank_98 (E), StolenFromERC_99 (E), StormChicken_98 (E), TeamEdward_96 (E), Terminus_99 (E), Tomaszewski_91 (E), Traaww1_92 (E), Tuco_97 (E), Ukulele_91 (E), Wiggin_98 (E), Willez_91 (E), Xandras_95 (E), Youngblood_99 (E), xkcd_99 (E),

Start 27:
• Found in 39 of 332 ( 11.7% ) of genes in pham
• Manual Annotations of this start: 32 of 304
• Called 87.2% of time when present
• Phage (with cluster) where this start called: Alkhayr_101 (O), Ashwin_98 (O), Blessica_99 (O), Bora_100 (O), Catdawg_102 (O), Corndog_98 (O), Dylan_96 (O), Familton_102 (O), Firecracker_101 (O), FoulBall_100 (O), Idergollasper_103 (O), Imara_100 (O), JangDynasty_97 (O), KingPhillip3_101 (O), Krili_103 (O), MadKillah_104 (O), Mori_101 (O), Murai_101 (O), NiebruSaylor_101 (O), Ryadel_105 (O), SchoolBus_100 (O), Schuy_101 (O), Shida_103 (O), Smooch_100 (O), TelAviv_98 (O), Vagabond_100 (O), Vorrps_101 (O), Wildflower_98 (O), Winget_101 (O), Wogge42_98 (O), YoyoKar_98 (O), YungJamal_100 (O), Zakhe101_96 (O), Zebo_100 (O),

Start 31:
• Found in 5 of 332 ( 1.5% ) of genes in pham
• Manual Annotations of this start: 1 of 304
• Called 20.0% of time when present
• Phage (with cluster) where this start called: Finch_209 (singleton),

Start 32:
• Found in 2 of 332 ( 0.6% ) of genes in pham
• Manual Annotations of this start: 2 of 304
• Called 100.0% of time when present
• Phage (with cluster) where this start called: Colossa_102 (KA), VanLee_105 (KA),

Start 33:
• Found in 2 of 332 ( 0.6% ) of genes in pham
• Manual Annotations of this start: 1 of 304
• Called 50.0% of time when present
• Phage (with cluster) where this start called: ModicumRichard_63 (DZ),

Start 34:
• Found in 216 of 332 ( 65.1% ) of genes in pham
• Manual Annotations of this start: 1 of 304
• Called 0.5% of time when present
• Phage (with cluster) where this start called: ObLaDi_63 (DZ),

Start 35:
• Found in 5 of 332 ( 1.5% ) of genes in pham
• Manual Annotations of this start: 3 of 304
• Called 60.0% of time when present
• Phage (with cluster) where this start called: Cardigan_93 (DD), JonJames_94 (DD), Yvonnetastic_92 (DD),

Start 36:
• Found in 8 of 332 ( 2.4% ) of genes in pham
• Manual Annotations of this start: 6 of 304
• Called 75.0% of time when present
• Phage (with cluster) where this start called: Cardigan_91 (DD), Cardigan_92 (DD), JonJames_92 (DD), JonJames_93 (DD), Yvonnetastic_90 (DD), Yvonnetastic_91 (DD),

Start 37:
• Found in 1 of 332 ( 0.3% ) of genes in pham
• Manual Annotations of this start: 1 of 304
• Called 100.0% of time when present
• Phage (with cluster) where this start called: Trina_185 (CE),

Start 38:
• Found in 53 of 332 ( 16.0% ) of genes in pham
• Manual Annotations of this start: 43 of 304
• Called 100.0% of time when present
• Phage (with cluster) where this start called: Ariel_94 (J), BAKA_101 (J), Bagrid_99 (J), Beem_100 (J), Bobby_91 (J), Bombitas_88 (J), BronnyJames_94 (J), Constella_85 (J), Courthouse_90 (J), Dallas_101 (J), DmpstrDiver_101 (J), Dove_85 (J), Duke13_96 (J), Ejimix_93 (J), EricMillard_93 (J), Gonephishing_87 (J), Grayson_233 (CB), Halley_101 (J), Hannaconda_86 (J), Hidrated_86 (J), HokkenD_88 (J), Hughesyang_99 (J), JuicyJay_96 (J), Kalah2_93 (J), KashFlow_90 (J), Klein_100 (J), LittleE_98 (J), Lucky2013_92 (J), Marleymoo_81 (J), MiaZeal_95 (J), Minerva_99 (J), Nekros_97 (J), Nibley_88 (J), NihilNomen_101 (J), Odette_99 (J), Omega_104 (J), Optimus_93 (J), Peregrin_227 (CB), Phoebus_101 (J), Porcelain_93 (J), Pound_91 (J), Rearden_89 (J), Redno2_91 (J), Schatzie_94 (J), Shaboozey_93 (J), Squint_93 (J), Superphikiman_92 (J), Thibault_84 (J), ThreeRngTarjay_96 (J), Wanda_103 (J), Xiaokay_89 (J), Yeet_92 (J), Zelink_96 (J),

**Summary by clusters:**

There are 11 clusters represented in this pham: V, E, CB, DD, J, KA, O, DZ, CE, BS, singleton,

Info for manual annotations of cluster BS:
•Start number 15 was manually annotated 4 times for cluster BS.
•Start number 16 was manually annotated 4 times for cluster BS.

Info for manual annotations of cluster CB:
•Start number 38 was manually annotated 2 times for cluster CB.

Info for manual annotations of cluster CE:
•Start number 37 was manually annotated 1 time for cluster CE.

Info for manual annotations of cluster DD:
•Start number 35 was manually annotated 3 times for cluster DD.
•Start number 36 was manually annotated 6 times for cluster DD.

Info for manual annotations of cluster DZ:
•Start number 33 was manually annotated 1 time for cluster DZ.
•Start number 34 was manually annotated 1 time for cluster DZ.

Info for manual annotations of cluster E:
•Start number 25 was manually annotated 133 times for cluster E.
•Start number 26 was manually annotated 68 times for cluster E.

Info for manual annotations of cluster J:
•Start number 38 was manually annotated 41 times for cluster J.

Info for manual annotations of cluster KA:
•Start number 32 was manually annotated 2 times for cluster KA.

Info for manual annotations of cluster O:
•Start number 27 was manually annotated 32 times for cluster O.

Info for manual annotations of cluster V:
•Start number 14 was manually annotated 5 times for cluster V.

***Gene Information:***

Gene: 244_97 Start: 57329, Stop: 57772, Start Num: 26
Candidate Starts for 244_97:
(Start: 26 @57329 has 68 MA's), (30, 57341), (Start: 34 @57368 has 1 MA's), (44, 57425), (61, 57500), (76, 57563), (78, 57572), (81, 57593),

Gene: 244_96 Start: 56873, Stop: 57325, Start Num: 25
Candidate Starts for 244_96:
(3, 56630), (18, 56846), (Start: 25 @56873 has 133 MA's), (Start: 34 @56912 has 1 MA's), (54, 57026), (61, 57071), (63, 57083), (67, 57101), (76, 57134), (78, 57143), (89, 57194),

Gene: ABCat_92 Start: 57560, Stop: 58012, Start Num: 25
Candidate Starts for ABCat_92:
(18, 57533), (Start: 25 @57560 has 133 MA's), (Start: 34 @57599 has 1 MA's), (54, 57713), (61, 57758), (63, 57770), (67, 57788), (76, 57821), (78, 57830), (89, 57881),

Gene: Adnama_99 Start: 57168, Stop: 57620, Start Num: 25
Candidate Starts for Adnama_99:
(18, 57141), (Start: 25 @57168 has 133 MA's), (Start: 34 @57207 has 1 MA's), (54, 57321), (61, 57366), (63, 57378), (67, 57396), (76, 57429), (78, 57438), (81, 57459), (89, 57489),

Gene: Adnama_100 Start: 57624, Stop: 58067, Start Num: 26
Candidate Starts for Adnama_100:
(Start: 26 @57624 has 68 MA's), (Start: 34 @57663 has 1 MA's), (44, 57720), (61, 57795), (76, 57858), (78, 57867), (81, 57888),

Gene: Alkhayr_101 Start: 62112, Stop: 61681, Start Num: 27
Candidate Starts for Alkhayr_101:
(Start: 27 @62112 has 32 MA's), (41, 62046), (43, 62031), (56, 61950), (61, 61926), (65, 61905), (69, 61890), (72, 61884), (75, 61875),

Gene: Alone3_174 Start: 90396, Stop: 90902, Start Num: 16
Candidate Starts for Alone3_174:
(7, 90306), (9, 90330), (Start: 16 @90396 has 4 MA's), (19, 90444), (22, 90456), (Start: 31 @90483 has 1 MA's), (41, 90531), (53, 90600), (57, 90624), (61, 90645), (68, 90663), (92, 90762), (106, 90852),

Gene: Amao_96 Start: 57137, Stop: 57580, Start Num: 26
Candidate Starts for Amao_96:
(Start: 26 @57137 has 68 MA's), (30, 57149), (Start: 34 @57176 has 1 MA's), (44, 57233), (61, 57308), (76, 57371), (78, 57380),

Gene: Amao_95 Start: 56681, Stop: 57133, Start Num: 25
Candidate Starts for Amao_95:
(18, 56654), (Start: 25 @56681 has 133 MA's), (Start: 34 @56720 has 1 MA's), (54, 56834), (61, 56879), (63, 56891), (67, 56909), (76, 56942), (78, 56951), (81, 56972), (89, 57002),

Gene: AmericanBeauty_99 Start: 57729, Stop: 58181, Start Num: 25
Candidate Starts for AmericanBeauty_99:
(18, 57702), (Start: 25 @57729 has 133 MA's), (Start: 34 @57768 has 1 MA's), (54, 57882), (61, 57927), (63, 57939), (67, 57957), (76, 57990), (78, 57999), (89, 58050),

Gene: Argent26_99 Start: 57089, Stop: 57541, Start Num: 25
Candidate Starts for Argent26_99:
(18, 57062), (Start: 25 @57089 has 133 MA's), (Start: 34 @57128 has 1 MA's), (54, 57242), (61, 57287), (63, 57299), (67, 57317), (76, 57350), (78, 57359), (89, 57410),

Gene: Argent26_100 Start: 57545, Stop: 57991, Start Num: 26
Candidate Starts for Argent26_100:
(Start: 26 @57545 has 68 MA's), (30, 57557), (Start: 34 @57584 has 1 MA's), (44, 57641), (61, 57716), (76, 57779), (78, 57788), (81, 57809),

Gene: Ariel_94 Start: 54759, Stop: 55124, Start Num: 38
Candidate Starts for Ariel_94:
(Start: 38 @54759 has 43 MA's), (42, 54789), (101, 55053),

Gene: Ashwin_98 Start: 61339, Stop: 60893, Start Num: 27
Candidate Starts for Ashwin_98:
(Start: 27 @61339 has 32 MA's), (41, 61273), (43, 61258), (56, 61177), (61, 61153), (65, 61132), (69, 61117), (72, 61111), (75, 61102), (109, 60913), (112, 60901),

Gene: Asriel_94 Start: 55961, Stop: 56404, Start Num: 26
Candidate Starts for Asriel_94:
(Start: 26 @55961 has 68 MA's), (Start: 34 @56000 has 1 MA's), (44, 56057), (61, 56132), (76, 56195), (78, 56204), (81, 56225),

Gene: Asriel_93 Start: 55505, Stop: 55957, Start Num: 25
Candidate Starts for Asriel_93:
(18, 55478), (Start: 25 @55505 has 133 MA's), (Start: 34 @55544 has 1 MA's), (54, 55658), (61, 55703), (63, 55715), (67, 55733), (76, 55766), (78, 55775), (81, 55796), (89, 55826),

Gene: Azrael100_137 Start: 67846, Stop: 67289, Start Num: 14
Candidate Starts for Azrael100_137:
(Start: 14 @67846 has 5 MA's), (21, 67780), (Start: 27 @67759 has 32 MA's), (28, 67753), (41, 67690), (51, 67636), (66, 67552), (73, 67507), (84, 67456), (89, 67435), (95, 67390), (104, 67354), (105, 67324),

Gene: BAKA_101 Start: 60653, Stop: 61012, Start Num: 38
Candidate Starts for BAKA_101:
(1, 60332), (2, 60338), (4, 60368), (10, 60479), (11, 60488), (13, 60512), (Start: 38 @60653 has 43 MA's), (42, 60683), (58, 60764), (62, 60782), (64, 60797), (80, 60842), (85, 60857), (101, 60941),

Gene: BRock_165 Start: 85734, Stop: 86285, Start Num: 15
Candidate Starts for BRock_165:
(Start: 15 @85734 has 4 MA's),

Gene: BaboJay_95 Start: 57751, Stop: 58203, Start Num: 25
Candidate Starts for BaboJay_95:
(18, 57724), (Start: 25 @57751 has 133 MA's), (Start: 34 @57790 has 1 MA's), (54, 57904), (61, 57949), (63, 57961), (67, 57979), (76, 58012), (78, 58021), (89, 58072),

Gene: BadStone_92 Start: 57129, Stop: 57581, Start Num: 25
Candidate Starts for BadStone_92:
(18, 57102), (Start: 25 @57129 has 133 MA's), (Start: 34 @57168 has 1 MA's), (54, 57282), (61, 57327), (63, 57339), (67, 57357), (76, 57390), (78, 57399), (89, 57450),

Gene: Bagrid_99 Start: 59520, Stop: 59879, Start Num: 38
Candidate Starts for Bagrid_99:
(1, 59199), (2, 59205), (4, 59235), (10, 59346), (11, 59355), (13, 59379), (Start: 38 @59520 has 43 MA's), (42, 59550), (58, 59631), (62, 59649), (64, 59664), (80, 59709), (85, 59724), (101, 59808),

Gene: Balomoji_95 Start: 57288, Stop: 57740, Start Num: 25
Candidate Starts for Balomoji_95:
(18, 57261), (Start: 25 @57288 has 133 MA's), (Start: 34 @57327 has 1 MA's), (54, 57441), (61, 57486), (63, 57498), (76, 57549), (78, 57558), (89, 57609),

Gene: Balomoji_96 Start: 57744, Stop: 58187, Start Num: 26
Candidate Starts for Balomoji_96:
(Start: 26 @57744 has 68 MA's), (30, 57756), (Start: 34 @57783 has 1 MA's), (44, 57840), (61, 57915), (76, 57978), (78, 57987), (81, 58008),

Gene: Barbarian_94 Start: 55505, Stop: 55957, Start Num: 25
Candidate Starts for Barbarian_94:
(18, 55478), (Start: 25 @55505 has 133 MA's), (Start: 34 @55544 has 1 MA's), (54, 55658), (61, 55703), (63, 55715), (67, 55733), (76, 55766), (78, 55775), (81, 55796), (89, 55826),

Gene: Barbarian_95 Start: 55961, Stop: 56404, Start Num: 26
Candidate Starts for Barbarian_95:
(Start: 26 @55961 has 68 MA's), (Start: 34 @56000 has 1 MA's), (44, 56057), (61, 56132), (76, 56195), (78, 56204), (81, 56225),

Gene: Bask21_95 Start: 56141, Stop: 56593, Start Num: 25
Candidate Starts for Bask21_95:
(18, 56114), (Start: 25 @56141 has 133 MA's), (Start: 34 @56180 has 1 MA's), (54, 56294), (61, 56339), (63, 56351), (67, 56369), (76, 56402), (78, 56411), (89, 56462),

Gene: Bask21_96 Start: 56597, Stop: 57043, Start Num: 26
Candidate Starts for Bask21_96:
(Start: 26 @56597 has 68 MA's), (30, 56609), (Start: 34 @56636 has 1 MA's), (44, 56693), (61, 56768), (76, 56831), (78, 56840),

Gene: Becksu_95 Start: 57937, Stop: 58380, Start Num: 26
Candidate Starts for Becksu_95:
(Start: 26 @57937 has 68 MA's), (30, 57949), (Start: 34 @57976 has 1 MA's), (44, 58033), (61, 58108), (76, 58171), (78, 58180), (81, 58201),

Gene: Becksu_94 Start: 57481, Stop: 57933, Start Num: 25
Candidate Starts for Becksu_94:

(18, 57454), (Start: 25 @57481 has 133 MA's), (Start: 34 @57520 has 1 MA's), (54, 57634), (61, 57679), (63, 57691), (67, 57709), (76, 57742), (78, 57751), (89, 57802),

Gene: Beem_100 Start: 60381, Stop: 60740, Start Num: 38
Candidate Starts for Beem_100:
(1, 60060), (2, 60066), (4, 60096), (10, 60207), (11, 60216), (13, 60240), (Start: 38 @60381 has 43 MA's), (42, 60411), (58, 60492), (62, 60510), (64, 60525), (80, 60570), (85, 60585), (101, 60669),

Gene: Beleetus_172 Start: 89060, Stop: 89566, Start Num: 16
Candidate Starts for Beleetus_172:
(Start: 16 @89060 has 4 MA's), (19, 89108), (22, 89120), (Start: 31 @89147 has 1 MA's), (41, 89195), (53, 89264), (57, 89288), (61, 89309), (68, 89327), (106, 89516),

Gene: Bench_98 Start: 57224, Stop: 57676, Start Num: 25
Candidate Starts for Bench_98:
(18, 57197), (Start: 25 @57224 has 133 MA's), (Start: 34 @57263 has 1 MA's), (54, 57377), (61, 57422), (63, 57434), (67, 57452), (76, 57485), (78, 57494), (89, 57545),

Gene: Bench_99 Start: 57680, Stop: 58123, Start Num: 26
Candidate Starts for Bench_99:
(Start: 26 @57680 has 68 MA's), (30, 57692), (Start: 34 @57719 has 1 MA's), (44, 57776), (61, 57851), (76, 57914), (78, 57923), (81, 57944),

Gene: BigBubba_95 Start: 56521, Stop: 56973, Start Num: 25
Candidate Starts for BigBubba_95:
(18, 56494), (Start: 25 @56521 has 133 MA's), (Start: 34 @56560 has 1 MA's), (54, 56674), (61, 56719), (63, 56731), (67, 56749), (76, 56782), (78, 56791), (81, 56812), (89, 56842),

Gene: BilboSwaggins_93 Start: 57526, Stop: 57978, Start Num: 25
Candidate Starts for BilboSwaggins_93:
(18, 57499), (Start: 25 @57526 has 133 MA's), (Start: 34 @57565 has 1 MA's), (54, 57679), (61, 57724), (63, 57736), (67, 57754), (76, 57787), (78, 57796), (89, 57847),

Gene: Blessica_99 Start: 62320, Stop: 61889, Start Num: 27
Candidate Starts for Blessica_99:
(Start: 27 @62320 has 32 MA's), (41, 62254), (43, 62239), (56, 62158), (61, 62134), (65, 62113), (69, 62098), (72, 62092), (75, 62083),

Gene: Bobby_91 Start: 58746, Stop: 59105, Start Num: 38
Candidate Starts for Bobby_91:
(1, 58425), (2, 58431), (4, 58461), (6, 58500), (10, 58572), (11, 58581), (13, 58605), (Start: 38 @58746 has 43 MA's), (42, 58776), (58, 58857), (62, 58875), (64, 58890), (80, 58935), (85, 58950), (101, 59034),

Gene: Bogg_95 Start: 56439, Stop: 56891, Start Num: 25
Candidate Starts for Bogg_95:
(18, 56412), (Start: 25 @56439 has 133 MA's), (Start: 34 @56478 has 1 MA's), (54, 56592), (61, 56637), (63, 56649), (67, 56667), (76, 56700), (78, 56709), (89, 56760),

Gene: Bombitas_88 Start: 57544, Stop: 57903, Start Num: 38
Candidate Starts for Bombitas_88:
(1, 57223), (2, 57229), (4, 57259), (10, 57370), (11, 57379), (13, 57403), (Start: 38 @57544 has 43 MA's), (42, 57574), (58, 57655), (62, 57673), (64, 57688), (80, 57733), (85, 57748), (101, 57832),

Gene: Bora_100 Start: 63162, Stop: 62731, Start Num: 27
Candidate Starts for Bora_100:
(Start: 27 @63162 has 32 MA's), (41, 63096), (43, 63081), (56, 63000), (61, 62976), (65, 62955), (69, 62940), (72, 62934), (75, 62925),

Gene: Brewer_91 Start: 56026, Stop: 56478, Start Num: 25
Candidate Starts for Brewer_91:
(18, 55999), (Start: 25 @56026 has 133 MA's), (Start: 34 @56065 has 1 MA's), (54, 56179), (61, 56224), (63, 56236), (67, 56254), (76, 56287), (78, 56296), (89, 56347),

Gene: Brewer_92 Start: 56482, Stop: 56925, Start Num: 26
Candidate Starts for Brewer_92:
(Start: 26 @56482 has 68 MA's), (30, 56494), (Start: 34 @56521 has 1 MA's), (44, 56578), (61, 56653), (76, 56716), (78, 56725), (81, 56746),

Gene: BronnyJames_94 Start: 55241, Stop: 55606, Start Num: 38
Candidate Starts for BronnyJames_94:
(Start: 38 @55241 has 43 MA's), (42, 55271), (94, 55505), (101, 55535),

Gene: Bruin_93 Start: 56559, Stop: 57002, Start Num: 26
Candidate Starts for Bruin_93:
(Start: 26 @56559 has 68 MA's), (30, 56571), (Start: 34 @56598 has 1 MA's), (44, 56655), (61, 56730), (76, 56793), (78, 56802), (81, 56823),

Gene: Bruin_92 Start: 56103, Stop: 56555, Start Num: 25
Candidate Starts for Bruin_92:
(18, 56076), (Start: 25 @56103 has 133 MA's), (Start: 34 @56142 has 1 MA's), (54, 56256), (61, 56301), (63, 56313), (67, 56331), (76, 56364), (78, 56373), (89, 56424),

Gene: Buck_97 Start: 58249, Stop: 58692, Start Num: 26
Candidate Starts for Buck_97:
(Start: 26 @58249 has 68 MA's), (30, 58261), (Start: 34 @58288 has 1 MA's), (44, 58345), (61, 58420), (76, 58483), (78, 58492),

Gene: Buck_96 Start: 57793, Stop: 58245, Start Num: 25
Candidate Starts for Buck_96:
(18, 57766), (Start: 25 @57793 has 133 MA's), (Start: 34 @57832 has 1 MA's), (54, 57946), (61, 57991), (63, 58003), (67, 58021), (76, 58054), (78, 58063), (89, 58114),

Gene: BugsBunny_95 Start: 57632, Stop: 58102, Start Num: 25
Candidate Starts for BugsBunny_95:
(18, 57605), (Start: 25 @57632 has 133 MA's), (Start: 34 @57671 has 1 MA's), (54, 57785), (61, 57830), (63, 57842), (67, 57860), (76, 57893), (78, 57902), (89, 57953),

Gene: Cactus_98 Start: 56169, Stop: 56621, Start Num: 25
Candidate Starts for Cactus_98:
(18, 56142), (Start: 25 @56169 has 133 MA's), (Start: 34 @56208 has 1 MA's), (54, 56322), (61, 56367), (63, 56379), (67, 56397), (76, 56430), (78, 56439), (81, 56460), (89, 56490),

Gene: Cactus_99 Start: 56625, Stop: 57068, Start Num: 26
Candidate Starts for Cactus_99:

(Start: 26 @56625 has 68 MA's), (Start: 34 @56664 has 1 MA's), (44, 56721), (61, 56796), (76, 56859), (78, 56868), (81, 56889),

Gene: Cardigan_91 Start: 56443, Stop: 56784, Start Num: 36
Candidate Starts for Cardigan_91:
(5, 56191), (20, 56371), (Start: 36 @56443 has 6 MA's), (40, 56455), (77, 56629), (82, 56653), (103, 56737),

Gene: Cardigan_93 Start: 57149, Stop: 57616, Start Num: 35
Candidate Starts for Cardigan_93:
(Start: 35 @57149 has 3 MA's), (39, 57158), (56, 57263), (59, 57284), (85, 57401), (113, 57593),

Gene: Cardigan_92 Start: 56781, Stop: 57152, Start Num: 36
Candidate Starts for Cardigan_92:
(Start: 36 @56781 has 6 MA's), (55, 56886), (60, 56913), (88, 57018),

Gene: Catdawg_102 Start: 63432, Stop: 63001, Start Num: 27
Candidate Starts for Catdawg_102:
(Start: 27 @63432 has 32 MA's), (41, 63366), (43, 63351), (56, 63270), (61, 63246), (65, 63225), (69, 63210), (72, 63204), (75, 63195),

Gene: ChosenOne_95 Start: 56584, Stop: 57036, Start Num: 25
Candidate Starts for ChosenOne_95:
(18, 56557), (Start: 25 @56584 has 133 MA's), (Start: 34 @56623 has 1 MA's), (54, 56737), (61, 56782), (63, 56794), (67, 56812), (76, 56845), (78, 56854), (89, 56905),

Gene: ChotaBhai_95 Start: 56506, Stop: 56958, Start Num: 25
Candidate Starts for ChotaBhai_95:
(18, 56479), (Start: 25 @56506 has 133 MA's), (Start: 34 @56545 has 1 MA's), (54, 56659), (61, 56704), (63, 56716), (67, 56734), (76, 56767), (78, 56776), (89, 56827),

Gene: ChotaBhai_96 Start: 56962, Stop: 57405, Start Num: 26
Candidate Starts for ChotaBhai_96:
(Start: 26 @56962 has 68 MA's), (30, 56974), (Start: 34 @57001 has 1 MA's), (44, 57058), (61, 57133), (76, 57196), (78, 57205),

Gene: Cjw1_96 Start: 58549, Stop: 59016, Start Num: 25
Candidate Starts for Cjw1_96:
(3, 58306), (18, 58522), (Start: 25 @58549 has 133 MA's), (Start: 34 @58588 has 1 MA's), (54, 58702), (61, 58747), (63, 58759), (67, 58777), (76, 58810), (78, 58819), (89, 58870),

Gene: Colossa_102 Start: 55194, Stop: 55577, Start Num: 32
Candidate Starts for Colossa_102:
(20, 55146), (23, 55158), (24, 55164), (Start: 32 @55194 has 2 MA's), (Start: 35 @55212 has 3 MA's), (45, 55254), (101, 55527),

Gene: Command613_97 Start: 57623, Stop: 58075, Start Num: 25
Candidate Starts for Command613_97:
(18, 57596), (Start: 25 @57623 has 133 MA's), (Start: 34 @57662 has 1 MA's), (54, 57776), (61, 57821), (63, 57833), (67, 57851), (76, 57884), (78, 57893), (89, 57944),

Gene: Constella_85 Start: 54550, Stop: 54906, Start Num: 38
Candidate Starts for Constella_85:

(1, 54229), (2, 54235), (4, 54265), (10, 54376), (11, 54385), (13, 54409), (Start: 38 @54550 has 43 MA's), (42, 54580), (74, 54709), (76, 54715), (85, 54751), (89, 54763), (90, 54766), (100, 54832), (101, 54835),

Gene: Contagion_92 Start: 56840, Stop: 57283, Start Num: 26
Candidate Starts for Contagion_92:
(Start: 26 @56840 has 68 MA's), (30, 56852), (44, 56936), (61, 57011), (76, 57074), (78, 57083), (81, 57104),

Gene: Contagion_91 Start: 56384, Stop: 56836, Start Num: 25
Candidate Starts for Contagion_91:
(18, 56357), (Start: 25 @56384 has 133 MA's), (Start: 34 @56423 has 1 MA's), (54, 56537), (61, 56582), (63, 56594), (67, 56612), (76, 56645), (78, 56654), (89, 56705),

Gene: Cookies_93 Start: 56819, Stop: 57262, Start Num: 26
Candidate Starts for Cookies_93:
(Start: 26 @56819 has 68 MA's), (30, 56831), (Start: 34 @56858 has 1 MA's), (44, 56915), (61, 56990), (76, 57053), (78, 57062), (81, 57083),

Gene: Cookies_92 Start: 56363, Stop: 56815, Start Num: 25
Candidate Starts for Cookies_92:
(18, 56336), (Start: 25 @56363 has 133 MA's), (Start: 34 @56402 has 1 MA's), (54, 56516), (61, 56561), (63, 56573), (76, 56624), (78, 56633), (89, 56684),

Gene: Corndog_98 Start: 61248, Stop: 60820, Start Num: 27
Candidate Starts for Corndog_98:
(Start: 27 @61248 has 32 MA's), (41, 61182), (43, 61167), (56, 61086), (61, 61062), (65, 61041), (69, 61026), (72, 61020), (75, 61011), (109, 60828),

Gene: Cosmo_144 Start: 68009, Stop: 67452, Start Num: 14
Candidate Starts for Cosmo_144:
(Start: 14 @68009 has 5 MA's), (21, 67943), (Start: 27 @67922 has 32 MA's), (28, 67916), (41, 67853), (51, 67799), (66, 67715), (73, 67670), (84, 67619), (89, 67598), (95, 67553), (104, 67517), (105, 67487),

Gene: Courthouse_90 Start: 54359, Stop: 54724, Start Num: 38
Candidate Starts for Courthouse_90:
(Start: 38 @54359 has 43 MA's), (42, 54389), (101, 54653),

Gene: CrystalP_94 Start: 57526, Stop: 57978, Start Num: 25
Candidate Starts for CrystalP_94:
(18, 57499), (Start: 25 @57526 has 133 MA's), (Start: 34 @57565 has 1 MA's), (54, 57679), (61, 57724), (63, 57736), (67, 57754), (76, 57787), (78, 57796), (89, 57847),

Gene: Czyszczon1_96 Start: 57087, Stop: 57539, Start Num: 25
Candidate Starts for Czyszczon1_96:
(18, 57060), (Start: 25 @57087 has 133 MA's), (Start: 34 @57126 has 1 MA's), (54, 57240), (61, 57285), (63, 57297), (67, 57315), (76, 57348), (78, 57357), (89, 57408),

Gene: Czyszczon1_97 Start: 57543, Stop: 57986, Start Num: 26
Candidate Starts for Czyszczon1_97:
(Start: 26 @57543 has 68 MA's), (30, 57555), (Start: 34 @57582 has 1 MA's), (44, 57639), (61, 57714), (76, 57777), (78, 57786), (81, 57807),

Gene: Daikon_97 Start: 57571, Stop: 58014, Start Num: 26
Candidate Starts for Daikon_97:
(Start: 26 @57571 has 68 MA's), (30, 57583), (Start: 34 @57610 has 1 MA's), (44, 57667), (61, 57742), (76, 57805), (78, 57814),

Gene: Daikon_96 Start: 57115, Stop: 57567, Start Num: 25
Candidate Starts for Daikon_96:
(18, 57088), (Start: 25 @57115 has 133 MA's), (Start: 34 @57154 has 1 MA's), (54, 57268), (61, 57313), (63, 57325), (67, 57343), (76, 57376), (78, 57385), (89, 57436),

Gene: Dallas_101 Start: 60389, Stop: 60748, Start Num: 38
Candidate Starts for Dallas_101:
(1, 60068), (2, 60074), (4, 60104), (10, 60215), (11, 60224), (13, 60248), (Start: 38 @60389 has 43 MA's), (42, 60419), (58, 60500), (62, 60518), (64, 60533), (80, 60578), (85, 60593), (101, 60677),

Gene: DmpstrDiver_101 Start: 59812, Stop: 60168, Start Num: 38
Candidate Starts for DmpstrDiver_101:
(1, 59491), (4, 59527), (6, 59566), (10, 59638), (11, 59647), (13, 59671), (Start: 38 @59812 has 43 MA's), (42, 59842), (61, 59938), (76, 59977), (80, 59998), (87, 60022), (100, 60094), (101, 60097),

Gene: DoctorDiddles_94 Start: 56550, Stop: 57002, Start Num: 25
Candidate Starts for DoctorDiddles_94:
(18, 56523), (Start: 25 @56550 has 133 MA's), (Start: 34 @56589 has 1 MA's), (54, 56703), (61, 56748), (63, 56760), (67, 56778), (76, 56811), (78, 56820), (89, 56871),

Gene: DoctorDiddles_95 Start: 57006, Stop: 57449, Start Num: 26
Candidate Starts for DoctorDiddles_95:
(Start: 26 @57006 has 68 MA's), (30, 57018), (Start: 34 @57045 has 1 MA's), (44, 57102), (61, 57177), (76, 57240), (78, 57249),

Gene: Dove_85 Start: 55810, Stop: 56169, Start Num: 38
Candidate Starts for Dove_85:
(1, 55489), (2, 55495), (4, 55525), (10, 55636), (11, 55645), (13, 55669), (Start: 38 @55810 has 43 MA's), (42, 55840), (58, 55921), (62, 55939), (64, 55954), (80, 55999), (85, 56014), (101, 56098),

Gene: DrDrey_95 Start: 58006, Stop: 58458, Start Num: 25
Candidate Starts for DrDrey_95:
(18, 57979), (Start: 25 @58006 has 133 MA's), (Start: 34 @58045 has 1 MA's), (54, 58159), (61, 58204), (63, 58216), (67, 58234), (76, 58267), (78, 58276), (89, 58327),

Gene: Duke13_96 Start: 58321, Stop: 58680, Start Num: 38
Candidate Starts for Duke13_96:
(1, 58000), (2, 58006), (4, 58036), (10, 58147), (11, 58156), (13, 58180), (Start: 38 @58321 has 43 MA's), (42, 58351), (58, 58432), (62, 58450), (64, 58465), (80, 58510), (85, 58525), (101, 58609),

Gene: Dumbo_95 Start: 56486, Stop: 56938, Start Num: 25
Candidate Starts for Dumbo_95:
(18, 56459), (Start: 25 @56486 has 133 MA's), (Start: 34 @56525 has 1 MA's), (54, 56639), (61, 56684), (63, 56696), (67, 56714), (76, 56747), (78, 56756), (89, 56807),

Gene: Dumbo_96 Start: 56942, Stop: 57385, Start Num: 26
Candidate Starts for Dumbo_96:

(Start: 26 @56942 has 68 MA's), (30, 56954), (Start: 34 @56981 has 1 MA's), (44, 57038), (61, 57113), (76, 57176), (78, 57185), (81, 57206),

Gene: Dusk_92 Start: 56789, Stop: 57241, Start Num: 25
Candidate Starts for Dusk_92:
(18, 56762), (Start: 25 @56789 has 133 MA's), (Start: 34 @56828 has 1 MA's), (54, 56942), (61, 56987), (63, 56999), (67, 57017), (76, 57050), (78, 57059), (89, 57110),

Gene: Dylan_96 Start: 61072, Stop: 60626, Start Num: 27
Candidate Starts for Dylan_96:
(Start: 27 @61072 has 32 MA's), (41, 61006), (43, 60991), (56, 60910), (61, 60886), (65, 60865), (69, 60850), (72, 60844), (109, 60646), (112, 60634),

Gene: Easy2Say_96 Start: 57988, Stop: 58458, Start Num: 25
Candidate Starts for Easy2Say_96:
(18, 57961), (Start: 25 @57988 has 133 MA's), (Start: 34 @58027 has 1 MA's), (54, 58141), (61, 58186), (63, 58198), (67, 58216), (76, 58249), (78, 58258), (89, 58309),

Gene: Ejimix_93 Start: 60108, Stop: 60467, Start Num: 38
Candidate Starts for Ejimix_93:
(1, 59787), (2, 59793), (4, 59823), (10, 59934), (11, 59943), (13, 59967), (Start: 38 @60108 has 43 MA's), (42, 60138), (58, 60219), (62, 60237), (64, 60252), (80, 60297), (85, 60312), (101, 60396),

Gene: Elite2014_94 Start: 56583, Stop: 57035, Start Num: 25
Candidate Starts for Elite2014_94:
(18, 56556), (Start: 25 @56583 has 133 MA's), (Start: 34 @56622 has 1 MA's), (54, 56736), (61, 56781), (63, 56793), (67, 56811), (76, 56844), (78, 56853), (89, 56904),

Gene: Elph10_96 Start: 56576, Stop: 57046, Start Num: 25
Candidate Starts for Elph10_96:
(18, 56549), (Start: 25 @56576 has 133 MA's), (Start: 34 @56615 has 1 MA's), (54, 56729), (61, 56774), (63, 56786), (67, 56804), (76, 56837), (78, 56846), (89, 56897),

Gene: Emmina_95 Start: 56209, Stop: 56661, Start Num: 25
Candidate Starts for Emmina_95:
(18, 56182), (Start: 25 @56209 has 133 MA's), (Start: 34 @56248 has 1 MA's), (54, 56362), (61, 56407), (63, 56419), (67, 56437), (76, 56470), (78, 56479), (89, 56530),

Gene: EniyanLRS_137 Start: 68351, Stop: 67797, Start Num: 14
Candidate Starts for EniyanLRS_137:
(Start: 14 @68351 has 5 MA's), (21, 68285), (Start: 27 @68264 has 32 MA's), (41, 68195), (51, 68141), (66, 68057), (73, 68015), (84, 67964), (89, 67943), (95, 67898), (104, 67862), (105, 67832),

Gene: EricMillard_93 Start: 59449, Stop: 59808, Start Num: 38
Candidate Starts for EricMillard_93:
(1, 59128), (2, 59134), (4, 59164), (10, 59275), (11, 59284), (13, 59308), (Start: 38 @59449 has 43 MA's), (42, 59479), (58, 59560), (62, 59578), (64, 59593), (80, 59638), (85, 59653), (101, 59737),

Gene: Eureka_94 Start: 57496, Stop: 57948, Start Num: 25
Candidate Starts for Eureka_94:
(18, 57469), (Start: 25 @57496 has 133 MA's), (Start: 34 @57535 has 1 MA's), (54, 57649), (61, 57694), (63, 57706), (67, 57724), (76, 57757), (78, 57766), (89, 57817),

Gene: FairyPath_96 Start: 57702, Stop: 58154, Start Num: 25
Candidate Starts for FairyPath_96:
(18, 57675), (Start: 25 @57702 has 133 MA's), (Start: 34 @57741 has 1 MA's), (54, 57855), (61, 57900), (63, 57912), (67, 57930), (76, 57963), (78, 57972), (89, 58023),

Gene: Familton_102 Start: 62844, Stop: 62413, Start Num: 27
Candidate Starts for Familton_102:
(Start: 27 @62844 has 32 MA's), (41, 62778), (43, 62763), (56, 62682), (61, 62658), (65, 62637), (69, 62622), (72, 62616), (75, 62607),

Gene: Filch_97 Start: 56781, Stop: 57233, Start Num: 25
Candidate Starts for Filch_97:
(18, 56754), (Start: 25 @56781 has 133 MA's), (Start: 34 @56820 has 1 MA's), (54, 56934), (61, 56979), (63, 56991), (67, 57009), (76, 57042), (78, 57051), (89, 57102),

Gene: Finch_209 Start: 121773, Stop: 122186, Start Num: 31
Candidate Starts for Finch_209:
(Start: 31 @121773 has 1 MA's), (52, 121878), (59, 121932), (96, 122109), (98, 122124),

Gene: FireRed_99 Start: 57799, Stop: 58242, Start Num: 25
Candidate Starts for FireRed_99:
(18, 57772), (Start: 25 @57799 has 133 MA's), (Start: 34 @57838 has 1 MA's), (44, 57895), (76, 58033), (78, 58042), (81, 58063),

Gene: Firecracker_101 Start: 62707, Stop: 62264, Start Num: 27
Candidate Starts for Firecracker_101:
(12, 62809), (Start: 27 @62707 has 32 MA's), (41, 62641), (43, 62626), (56, 62545), (61, 62521), (65, 62500), (69, 62485), (72, 62479), (75, 62470), (109, 62284), (112, 62272),

Gene: Flypotenuse_92 Start: 56615, Stop: 57058, Start Num: 26
Candidate Starts for Flypotenuse_92:
(Start: 26 @56615 has 68 MA's), (Start: 34 @56654 has 1 MA's), (44, 56711), (61, 56786), (76, 56849), (78, 56858), (81, 56879),

Gene: Flypotenuse_91 Start: 56159, Stop: 56611, Start Num: 25
Candidate Starts for Flypotenuse_91:
(18, 56132), (Start: 25 @56159 has 133 MA's), (Start: 34 @56198 has 1 MA's), (54, 56312), (61, 56357), (63, 56369), (67, 56387), (76, 56420), (78, 56429), (81, 56450), (89, 56480),

Gene: FoghornLeghorn_89 Start: 55185, Stop: 55637, Start Num: 25
Candidate Starts for FoghornLeghorn_89:
(18, 55158), (Start: 25 @55185 has 133 MA's), (Start: 34 @55224 has 1 MA's), (54, 55338), (61, 55383), (63, 55395), (76, 55446), (78, 55455), (89, 55506),

Gene: FoulBall_100 Start: 62395, Stop: 61964, Start Num: 27
Candidate Starts for FoulBall_100:
(Start: 27 @62395 has 32 MA's), (41, 62329), (43, 62314), (56, 62233), (61, 62209), (65, 62188), (69, 62173), (72, 62167), (75, 62158),

Gene: Fudan_171 Start: 88952, Stop: 89458, Start Num: 16
Candidate Starts for Fudan_171:
(7, 88862), (9, 88886), (Start: 16 @88952 has 4 MA's), (19, 89000), (22, 89012), (Start: 31 @89039 has 1 MA's), (41, 89087), (53, 89156), (57, 89180), (61, 89201), (68, 89219), (92, 89318), (106, 89408),

Gene: Gage_97 Start: 57230, Stop: 57682, Start Num: 25
Candidate Starts for Gage_97:
(18, 57203), (Start: 25 @57230 has 133 MA's), (Start: 34 @57269 has 1 MA's), (54, 57383), (61, 57428), (63, 57440), (67, 57458), (76, 57491), (78, 57500), (89, 57551),

Gene: Gage_98 Start: 57686, Stop: 58129, Start Num: 26
Candidate Starts for Gage_98:
(Start: 26 @57686 has 68 MA's), (30, 57698), (Start: 34 @57725 has 1 MA's), (44, 57782), (61, 57857), (76, 57920), (78, 57929), (81, 57950),

Gene: Garnacho_164 Start: 88706, Stop: 89239, Start Num: 15
Candidate Starts for Garnacho_164:
(Start: 15 @88706 has 4 MA's), (Start: 36 @88826 has 6 MA's), (47, 88880), (86, 89060),

Gene: Gator_93 Start: 57015, Stop: 57467, Start Num: 25
Candidate Starts for Gator_93:
(18, 56988), (Start: 25 @57015 has 133 MA's), (Start: 34 @57054 has 1 MA's), (54, 57168), (61, 57213), (63, 57225), (76, 57276), (78, 57285), (89, 57336),

Gene: Gator_94 Start: 57471, Stop: 57914, Start Num: 26
Candidate Starts for Gator_94:
(Start: 26 @57471 has 68 MA's), (30, 57483), (Start: 34 @57510 has 1 MA's), (44, 57567), (61, 57642), (76, 57705), (78, 57714), (81, 57735),

Gene: Gemini_100 Start: 57606, Stop: 58058, Start Num: 25
Candidate Starts for Gemini_100:
(18, 57579), (Start: 25 @57606 has 133 MA's), (Start: 34 @57645 has 1 MA's), (54, 57759), (61, 57804), (63, 57816), (67, 57834), (76, 57867), (78, 57876), (89, 57927),

Gene: Gemini_101 Start: 58062, Stop: 58508, Start Num: 26
Candidate Starts for Gemini_101:
(Start: 26 @58062 has 68 MA's), (30, 58074), (Start: 34 @58101 has 1 MA's), (44, 58158), (61, 58233), (76, 58296), (78, 58305), (81, 58326),

Gene: GiJojo_162 Start: 89485, Stop: 90018, Start Num: 15
Candidate Starts for GiJojo_162:
(Start: 15 @89485 has 4 MA's), (19, 89542), (Start: 33 @89590 has 1 MA's), (59, 89719), (60, 89722), (99, 89884), (108, 89947),

Gene: Glexan_95 Start: 57745, Stop: 58188, Start Num: 26
Candidate Starts for Glexan_95:
(Start: 26 @57745 has 68 MA's), (Start: 34 @57784 has 1 MA's), (44, 57841), (61, 57916), (76, 57979), (78, 57988), (81, 58009),

Gene: Glexan_94 Start: 57289, Stop: 57741, Start Num: 25
Candidate Starts for Glexan_94:
(18, 57262), (Start: 25 @57289 has 133 MA's), (Start: 34 @57328 has 1 MA's), (54, 57442), (61, 57487), (63, 57499), (67, 57517), (76, 57550), (78, 57559), (81, 57580), (89, 57610),

Gene: Goku_94 Start: 57225, Stop: 57677, Start Num: 25
Candidate Starts for Goku_94:

(18, 57198), (Start: 25 @57225 has 133 MA's), (Start: 34 @57264 has 1 MA's), (54, 57378), (61, 57423), (63, 57435), (67, 57453), (76, 57486), (78, 57495), (89, 57546),

Gene: GoldenSpark_99 Start: 57089, Stop: 57541, Start Num: 25
Candidate Starts for GoldenSpark_99:
(18, 57062), (Start: 25 @57089 has 133 MA's), (Start: 34 @57128 has 1 MA's), (54, 57242), (61, 57287), (63, 57299), (67, 57317), (76, 57350), (78, 57359), (89, 57410),

Gene: GoldenSpark_100 Start: 57545, Stop: 57991, Start Num: 26
Candidate Starts for GoldenSpark_100:
(Start: 26 @57545 has 68 MA's), (30, 57557), (Start: 34 @57584 has 1 MA's), (44, 57641), (61, 57716), (76, 57779), (78, 57788), (81, 57809),

Gene: Goldilocks_98 Start: 56447, Stop: 56899, Start Num: 25
Candidate Starts for Goldilocks_98:
(18, 56420), (Start: 25 @56447 has 133 MA's), (Start: 34 @56486 has 1 MA's), (54, 56600), (61, 56645), (63, 56657), (67, 56675), (76, 56708), (78, 56717), (89, 56768),

Gene: Gonephishing_87 Start: 53920, Stop: 54285, Start Num: 38
Candidate Starts for Gonephishing_87:
(Start: 38 @53920 has 43 MA's), (42, 53950), (94, 54184), (101, 54214),

Gene: GooberAzure_98 Start: 57089, Stop: 57541, Start Num: 25
Candidate Starts for GooberAzure_98:
(18, 57062), (Start: 25 @57089 has 133 MA's), (Start: 34 @57128 has 1 MA's), (54, 57242), (61, 57287), (63, 57299), (67, 57317), (76, 57350), (78, 57359), (89, 57410),

Gene: GooberAzure_99 Start: 57545, Stop: 57991, Start Num: 26
Candidate Starts for GooberAzure_99:
(Start: 26 @57545 has 68 MA's), (30, 57557), (Start: 34 @57584 has 1 MA's), (44, 57641), (61, 57716), (76, 57779), (78, 57788), (81, 57809),

Gene: Grayson_233 Start: 113502, Stop: 113894, Start Num: 38
Candidate Starts for Grayson_233:
(Start: 38 @113502 has 43 MA's), (41, 113520), (48, 113562), (49, 113568), (70, 113667), (71, 113670), (82, 113715), (110, 113871),

Gene: Greep_99 Start: 58363, Stop: 58815, Start Num: 25
Candidate Starts for Greep_99:
(18, 58336), (Start: 25 @58363 has 133 MA's), (Start: 34 @58402 has 1 MA's), (54, 58516), (61, 58561), (63, 58573), (67, 58591), (76, 58624), (78, 58633), (89, 58684),

Gene: Halley_101 Start: 60382, Stop: 60741, Start Num: 38
Candidate Starts for Halley_101:
(1, 60061), (2, 60067), (4, 60097), (10, 60208), (11, 60217), (13, 60241), (Start: 38 @60382 has 43 MA's), (42, 60412), (58, 60493), (62, 60511), (64, 60526), (80, 60571), (85, 60586), (101, 60670),

Gene: HanKaySha_97 Start: 57112, Stop: 57555, Start Num: 26
Candidate Starts for HanKaySha_97:
(Start: 26 @57112 has 68 MA's), (30, 57124), (Start: 34 @57151 has 1 MA's), (44, 57208), (61, 57283), (76, 57346), (78, 57355), (81, 57376),

Gene: HanKaySha_96 Start: 56656, Stop: 57108, Start Num: 25

Candidate Starts for HanKaySha_96:
(18, 56629), (Start: 25 @56656 has 133 MA's), (Start: 34 @56695 has 1 MA's), (54, 56809), (61, 56854), (63, 56866), (67, 56884), (76, 56917), (78, 56926), (89, 56977),

Gene: Hannaconda_86 Start: 53322, Stop: 53678, Start Num: 38
Candidate Starts for Hannaconda_86:
(1, 53001), (4, 53037), (6, 53076), (10, 53148), (11, 53157), (13, 53181), (Start: 38 @53322 has 43 MA's), (42, 53352), (61, 53448), (76, 53487), (80, 53508), (87, 53532), (100, 53604), (101, 53607),

Gene: Harella_96 Start: 58261, Stop: 58704, Start Num: 26
Candidate Starts for Harella_96:
(Start: 26 @58261 has 68 MA's), (30, 58273), (Start: 34 @58300 has 1 MA's), (44, 58357), (61, 58432), (76, 58495), (78, 58504), (81, 58525),

Gene: Harella_95 Start: 57805, Stop: 58257, Start Num: 25
Candidate Starts for Harella_95:
(18, 57778), (Start: 25 @57805 has 133 MA's), (Start: 34 @57844 has 1 MA's), (54, 57958), (61, 58003), (63, 58015), (67, 58033), (76, 58066), (78, 58075), (81, 58096), (89, 58126),

Gene: Henry_93 Start: 56966, Stop: 57409, Start Num: 25
Candidate Starts for Henry_93:
(18, 56939), (Start: 25 @56966 has 133 MA's), (Start: 34 @57005 has 1 MA's), (44, 57062), (61, 57137), (76, 57200), (78, 57209), (81, 57230),

Gene: Hidrated_86 Start: 58278, Stop: 58643, Start Num: 38
Candidate Starts for Hidrated_86:
(Start: 38 @58278 has 43 MA's), (42, 58308), (101, 58572),

Gene: Highbury_94 Start: 56656, Stop: 57126, Start Num: 25
Candidate Starts for Highbury_94:
(18, 56629), (Start: 25 @56656 has 133 MA's), (Start: 34 @56695 has 1 MA's), (54, 56809), (61, 56854), (63, 56866), (67, 56884), (76, 56917), (78, 56926), (89, 56977),

Gene: HokkenD_88 Start: 58651, Stop: 59010, Start Num: 38
Candidate Starts for HokkenD_88:
(1, 58330), (2, 58336), (4, 58366), (10, 58477), (11, 58486), (13, 58510), (Start: 38 @58651 has 43 MA's), (42, 58681), (58, 58762), (62, 58780), (64, 58795), (80, 58840), (85, 58855), (101, 58939),

Gene: Holt_100 Start: 57503, Stop: 57955, Start Num: 25
Candidate Starts for Holt_100:
(18, 57476), (Start: 25 @57503 has 133 MA's), (Start: 34 @57542 has 1 MA's), (54, 57656), (61, 57701), (63, 57713), (67, 57731), (76, 57764), (78, 57773), (89, 57824),

Gene: Holt_101 Start: 57959, Stop: 58405, Start Num: 26
Candidate Starts for Holt_101:
(Start: 26 @57959 has 68 MA's), (30, 57971), (Start: 34 @57998 has 1 MA's), (44, 58055), (61, 58130), (76, 58193), (78, 58202), (81, 58223),

Gene: Hoonter_98 Start: 56961, Stop: 57413, Start Num: 25
Candidate Starts for Hoonter_98:
(18, 56934), (Start: 25 @56961 has 133 MA's), (Start: 34 @57000 has 1 MA's), (54, 57114), (61, 57159), (63, 57171), (67, 57189), (76, 57222), (78, 57231), (89, 57282),

Gene: Hoonter_99 Start: 57417, Stop: 57860, Start Num: 26
Candidate Starts for Hoonter_99:
(Start: 26 @57417 has 68 MA's), (30, 57429), (Start: 34 @57456 has 1 MA's), (44, 57513), (61, 57588), (76, 57651), (78, 57660), (81, 57681),

Gene: Hopey_96 Start: 57467, Stop: 57919, Start Num: 25
Candidate Starts for Hopey_96:
(18, 57440), (Start: 25 @57467 has 133 MA's), (Start: 34 @57506 has 1 MA's), (54, 57620), (61, 57665), (63, 57677), (67, 57695), (76, 57728), (78, 57737), (89, 57788),

Gene: Hopey_97 Start: 57923, Stop: 58366, Start Num: 26
Candidate Starts for Hopey_97:
(Start: 26 @57923 has 68 MA's), (30, 57935), (Start: 34 @57962 has 1 MA's), (44, 58019), (61, 58094), (76, 58157), (78, 58166), (81, 58187),

Gene: HufflyPuff_97 Start: 57551, Stop: 58003, Start Num: 25
Candidate Starts for HufflyPuff_97:
(18, 57524), (Start: 25 @57551 has 133 MA's), (Start: 34 @57590 has 1 MA's), (54, 57704), (61, 57749), (63, 57761), (67, 57779), (76, 57812), (78, 57821), (89, 57872),

Gene: HufflyPuff_98 Start: 58007, Stop: 58450, Start Num: 26
Candidate Starts for HufflyPuff_98:
(Start: 26 @58007 has 68 MA's), (30, 58019), (Start: 34 @58046 has 1 MA's), (44, 58103), (76, 58241), (78, 58250), (81, 58271),

Gene: Hughesyang_99 Start: 60340, Stop: 60699, Start Num: 38
Candidate Starts for Hughesyang_99:
(1, 60019), (2, 60025), (4, 60055), (10, 60166), (11, 60175), (13, 60199), (Start: 38 @60340 has 43 MA's), (42, 60370), (58, 60451), (62, 60469), (64, 60484), (80, 60529), (85, 60544), (101, 60628),

Gene: IHOP_93 Start: 57129, Stop: 57581, Start Num: 25
Candidate Starts for IHOP_93:
(18, 57102), (Start: 25 @57129 has 133 MA's), (Start: 34 @57168 has 1 MA's), (54, 57282), (61, 57327), (63, 57339), (67, 57357), (76, 57390), (78, 57399), (89, 57450),

Gene: Icee_96 Start: 56616, Stop: 57068, Start Num: 25
Candidate Starts for Icee_96:
(18, 56589), (Start: 25 @56616 has 133 MA's), (Start: 34 @56655 has 1 MA's), (54, 56769), (61, 56814), (63, 56826), (67, 56844), (76, 56877), (78, 56886), (81, 56907), (89, 56937),

Gene: Icee_97 Start: 57072, Stop: 57515, Start Num: 26
Candidate Starts for Icee_97:
(Start: 26 @57072 has 68 MA's), (Start: 34 @57111 has 1 MA's), (44, 57168), (61, 57243), (76, 57306), (78, 57315), (81, 57336),

Gene: Idergollasper_103 Start: 63392, Stop: 62961, Start Num: 27
Candidate Starts for Idergollasper_103:
(Start: 27 @63392 has 32 MA's), (41, 63326), (43, 63311), (56, 63230), (61, 63206), (65, 63185), (69, 63170), (72, 63164), (75, 63155),

Gene: Imara_100 Start: 62198, Stop: 61767, Start Num: 27
Candidate Starts for Imara_100:

(Start: 27 @62198 has 32 MA's), (41, 62132), (43, 62117), (56, 62036), (61, 62012), (65, 61991), (69, 61976), (72, 61970), (75, 61961),

Gene: Inca_92 Start: 55618, Stop: 56070, Start Num: 25
Candidate Starts for Inca_92:
(18, 55591), (Start: 25 @55618 has 133 MA's), (Start: 34 @55657 has 1 MA's), (54, 55771), (61, 55816), (63, 55828), (67, 55846), (76, 55879), (78, 55888), (89, 55939),

Gene: JangDynasty_97 Start: 61738, Stop: 61307, Start Num: 27
Candidate Starts for JangDynasty_97:
(12, 61840), (Start: 27 @61738 has 32 MA's), (41, 61672), (43, 61657), (56, 61576), (61, 61552), (65, 61531), (69, 61516), (72, 61510), (75, 61501),

Gene: JeTaime_96 Start: 57820, Stop: 58290, Start Num: 25
Candidate Starts for JeTaime_96:
(3, 57577), (18, 57793), (Start: 25 @57820 has 133 MA's), (Start: 34 @57859 has 1 MA's), (54, 57973), (61, 58018), (63, 58030), (67, 58048), (76, 58081), (78, 58090), (89, 58141),

Gene: JonJames_94 Start: 57342, Stop: 57809, Start Num: 35
Candidate Starts for JonJames_94:
(29, 57303), (Start: 35 @57342 has 3 MA's), (39, 57351), (56, 57456), (59, 57477), (85, 57594), (113, 57786),

Gene: JonJames_92 Start: 56636, Stop: 56977, Start Num: 36
Candidate Starts for JonJames_92:
(5, 56384), (20, 56564), (Start: 36 @56636 has 6 MA's), (40, 56648), (77, 56822), (82, 56846), (103, 56930),

Gene: JonJames_93 Start: 56974, Stop: 57345, Start Num: 36
Candidate Starts for JonJames_93:
(Start: 36 @56974 has 6 MA's), (55, 57079), (60, 57106), (88, 57211),

Gene: JuicyJay_96 Start: 61516, Stop: 61875, Start Num: 38
Candidate Starts for JuicyJay_96:
(1, 61195), (2, 61201), (4, 61231), (10, 61342), (11, 61351), (13, 61375), (Start: 38 @61516 has 43 MA's), (42, 61546), (58, 61627), (62, 61645), (64, 61660), (80, 61705), (85, 61720), (101, 61804),

Gene: Kalah2_93 Start: 59675, Stop: 60034, Start Num: 38
Candidate Starts for Kalah2_93:
(1, 59354), (2, 59360), (4, 59390), (10, 59501), (11, 59510), (13, 59534), (Start: 38 @59675 has 43 MA's), (42, 59705), (58, 59786), (62, 59804), (64, 59819), (80, 59864), (85, 59879), (101, 59963),

Gene: Kanye_92 Start: 56713, Stop: 57165, Start Num: 25
Candidate Starts for Kanye_92:
(18, 56686), (Start: 25 @56713 has 133 MA's), (Start: 34 @56752 has 1 MA's), (54, 56866), (61, 56911), (63, 56923), (67, 56941), (76, 56974), (78, 56983), (89, 57034),

Gene: Kanye_93 Start: 57169, Stop: 57612, Start Num: 26
Candidate Starts for Kanye_93:
(Start: 26 @57169 has 68 MA's), (30, 57181), (Start: 34 @57208 has 1 MA's), (44, 57265), (61, 57340), (76, 57403), (78, 57412), (81, 57433),

Gene: KashFlow_90 Start: 54883, Stop: 55239, Start Num: 38

Candidate Starts for KashFlow_90:
(1, 54562), (4, 54598), (6, 54637), (10, 54709), (11, 54718), (13, 54742), (Start: 38 @54883 has 43 MA's), (42, 54913), (61, 55009), (76, 55048), (80, 55069), (87, 55093), (100, 55165), (101, 55168),

Gene: Kimchi_99 Start: 57233, Stop: 57685, Start Num: 25
Candidate Starts for Kimchi_99:
(18, 57206), (Start: 25 @57233 has 133 MA's), (Start: 34 @57272 has 1 MA's), (54, 57386), (61, 57431), (63, 57443), (67, 57461), (76, 57494), (78, 57503), (89, 57554),

Gene: Kimchi_100 Start: 57689, Stop: 58132, Start Num: 26
Candidate Starts for Kimchi_100:
(Start: 26 @57689 has 68 MA's), (30, 57701), (Start: 34 @57728 has 1 MA's), (44, 57785), (61, 57860), (76, 57923), (78, 57932), (81, 57953),

Gene: KingPhillip3_101 Start: 63095, Stop: 62661, Start Num: 27
Candidate Starts for KingPhillip3_101:
(12, 63197), (Start: 27 @63095 has 32 MA's), (41, 63029), (43, 63014), (56, 62933), (61, 62909), (65, 62888), (69, 62873), (72, 62867), (75, 62858),

Gene: Klein_100 Start: 59382, Stop: 59741, Start Num: 38
Candidate Starts for Klein_100:
(1, 59061), (2, 59067), (4, 59097), (10, 59208), (11, 59217), (13, 59241), (Start: 38 @59382 has 43 MA's), (42, 59412), (58, 59493), (62, 59511), (64, 59526), (80, 59571), (85, 59586), (101, 59670),

Gene: Kostya_95 Start: 57231, Stop: 57683, Start Num: 25
Candidate Starts for Kostya_95:
(18, 57204), (Start: 25 @57231 has 133 MA's), (Start: 34 @57270 has 1 MA's), (54, 57384), (61, 57429), (63, 57441), (67, 57459), (76, 57492), (78, 57501), (89, 57552),

Gene: Krili_103 Start: 62941, Stop: 62510, Start Num: 27
Candidate Starts for Krili_103:
(Start: 27 @62941 has 32 MA's), (41, 62875), (43, 62860), (56, 62779), (61, 62755), (65, 62734), (69, 62719), (72, 62713), (75, 62704),

Gene: Lilac_98 Start: 57058, Stop: 57528, Start Num: 25
Candidate Starts for Lilac_98:
(18, 57031), (Start: 25 @57058 has 133 MA's), (Start: 34 @57097 has 1 MA's), (54, 57211), (61, 57256), (63, 57268), (67, 57286), (76, 57319), (78, 57328), (89, 57379),

Gene: Lilizi_96 Start: 56695, Stop: 57147, Start Num: 25
Candidate Starts for Lilizi_96:
(18, 56668), (Start: 25 @56695 has 133 MA's), (Start: 34 @56734 has 1 MA's), (54, 56848), (61, 56893), (63, 56905), (67, 56923), (76, 56956), (78, 56965), (89, 57016),

Gene: Lilizi_97 Start: 57151, Stop: 57594, Start Num: 26
Candidate Starts for Lilizi_97:
(Start: 26 @57151 has 68 MA's), (30, 57163), (Start: 34 @57190 has 1 MA's), (44, 57247), (61, 57322), (76, 57385), (78, 57394), (81, 57415),

Gene: Lilpickle_94 Start: 56583, Stop: 57035, Start Num: 25
Candidate Starts for Lilpickle_94:
(18, 56556), (Start: 25 @56583 has 133 MA's), (Start: 34 @56622 has 1 MA's), (54, 56736), (61, 56781), (63, 56793), (67, 56811), (76, 56844), (78, 56853), (89, 56904),

Gene: LittleE_98 Start: 58455, Stop: 58820, Start Num: 38
Candidate Starts for LittleE_98:
(Start: 38 @58455 has 43 MA's), (42, 58485), (91, 58692), (101, 58749),

Gene: Livelaughbron_97 Start: 58158, Stop: 58601, Start Num: 25
Candidate Starts for Livelaughbron_97:
(18, 58131), (Start: 25 @58158 has 133 MA's), (Start: 34 @58197 has 1 MA's), (44, 58254), (76, 58392), (78, 58401), (81, 58422),

Gene: Lucky2013_92 Start: 54775, Stop: 55140, Start Num: 38
Candidate Starts for Lucky2013_92:
(Start: 38 @54775 has 43 MA's), (42, 54805), (94, 55039), (101, 55069),

Gene: LuckySocke_172 Start: 88901, Stop: 89407, Start Num: 16
Candidate Starts for LuckySocke_172:
(7, 88811), (9, 88835), (Start: 16 @88901 has 4 MA's), (19, 88949), (22, 88961), (Start: 31 @88988 has 1 MA's), (41, 89036), (53, 89105), (57, 89129), (61, 89150), (68, 89168), (92, 89267), (106, 89357),

Gene: MISSy_96 Start: 56811, Stop: 57263, Start Num: 25
Candidate Starts for MISSy_96:
(18, 56784), (Start: 25 @56811 has 133 MA's), (Start: 34 @56850 has 1 MA's), (54, 56964), (61, 57009), (63, 57021), (67, 57039), (76, 57072), (78, 57081), (89, 57132),

Gene: MISSy_97 Start: 57267, Stop: 57710, Start Num: 26
Candidate Starts for MISSy_97:
(Start: 26 @57267 has 68 MA's), (30, 57279), (Start: 34 @57306 has 1 MA's), (44, 57363), (61, 57438), (76, 57501), (78, 57510), (81, 57531),

Gene: MPhalcon_96 Start: 56804, Stop: 57256, Start Num: 25
Candidate Starts for MPhalcon_96:
(18, 56777), (Start: 25 @56804 has 133 MA's), (Start: 34 @56843 has 1 MA's), (54, 56957), (61, 57002), (63, 57014), (67, 57032), (76, 57065), (78, 57074), (89, 57125),

Gene: MPhalcon_97 Start: 57260, Stop: 57703, Start Num: 26
Candidate Starts for MPhalcon_97:
(Start: 26 @57260 has 68 MA's), (30, 57272), (Start: 34 @57299 has 1 MA's), (44, 57356), (61, 57431), (76, 57494), (78, 57503), (81, 57524),

Gene: MadKillah_104 Start: 62467, Stop: 62042, Start Num: 27
Candidate Starts for MadKillah_104:
(Start: 27 @62467 has 32 MA's), (41, 62401), (43, 62386), (56, 62305), (61, 62281), (65, 62260), (69, 62245), (72, 62239), (75, 62230), (109, 62050),

Gene: MadamMonkfish_96 Start: 56766, Stop: 57209, Start Num: 26
Candidate Starts for MadamMonkfish_96:
(Start: 26 @56766 has 68 MA's), (30, 56778), (Start: 34 @56805 has 1 MA's), (44, 56862), (61, 56937), (76, 57000), (78, 57009), (81, 57030),

Gene: MadamMonkfish_95 Start: 56310, Stop: 56762, Start Num: 25
Candidate Starts for MadamMonkfish_95:
(18, 56283), (Start: 25 @56310 has 133 MA's), (Start: 34 @56349 has 1 MA's), (54, 56463), (61, 56508), (63, 56520), (67, 56538), (76, 56571), (78, 56580), (89, 56631),

Gene: Manda_97 Start: 58387, Stop: 58839, Start Num: 25
Candidate Starts for Manda_97:
(18, 58360), (Start: 25 @58387 has 133 MA's), (Start: 34 @58426 has 1 MA's), (54, 58540), (61, 58585), (63, 58597), (67, 58615), (76, 58648), (78, 58657), (89, 58708),

Gene: Marleymoo_81 Start: 56537, Stop: 56893, Start Num: 38
Candidate Starts for Marleymoo_81:
(1, 56216), (4, 56252), (6, 56291), (10, 56363), (11, 56372), (13, 56396), (Start: 38 @56537 has 43 MA's), (42, 56567), (61, 56663), (76, 56702), (80, 56723), (87, 56747), (100, 56819), (101, 56822),

Gene: Marshmallow_93 Start: 57859, Stop: 58329, Start Num: 25
Candidate Starts for Marshmallow_93:
(18, 57832), (Start: 25 @57859 has 133 MA's), (Start: 34 @57898 has 1 MA's), (54, 58012), (61, 58057), (63, 58069), (67, 58087), (76, 58120), (78, 58129), (89, 58180),

Gene: MaryV_130 Start: 66197, Stop: 65640, Start Num: 14
Candidate Starts for MaryV_130:
(Start: 14 @66197 has 5 MA's), (21, 66131), (Start: 27 @66110 has 32 MA's), (28, 66104), (41, 66041), (51, 65987), (66, 65903), (73, 65858), (84, 65807), (89, 65786), (95, 65741), (104, 65705), (105, 65675),

Gene: Maxxinista_98 Start: 57225, Stop: 57695, Start Num: 25
Candidate Starts for Maxxinista_98:
(18, 57198), (Start: 25 @57225 has 133 MA's), (Start: 34 @57264 has 1 MA's), (54, 57378), (61, 57423), (63, 57435), (67, 57453), (76, 57486), (78, 57495), (89, 57546),

Gene: MiaZeal_95 Start: 55431, Stop: 55796, Start Num: 38
Candidate Starts for MiaZeal_95:
(Start: 38 @55431 has 43 MA's), (42, 55461), (101, 55725),

Gene: Mindy_94 Start: 56132, Stop: 56584, Start Num: 25
Candidate Starts for Mindy_94:
(18, 56105), (Start: 25 @56132 has 133 MA's), (Start: 34 @56171 has 1 MA's), (54, 56285), (61, 56330), (63, 56342), (67, 56360), (76, 56393), (78, 56402), (89, 56453),

Gene: Mindy_95 Start: 56588, Stop: 57031, Start Num: 26
Candidate Starts for Mindy_95:
(Start: 26 @56588 has 68 MA's), (30, 56600), (Start: 34 @56627 has 1 MA's), (44, 56684), (61, 56759), (76, 56822), (78, 56831), (81, 56852),

Gene: Minerva_99 Start: 60327, Stop: 60686, Start Num: 38
Candidate Starts for Minerva_99:
(1, 60006), (2, 60012), (4, 60042), (10, 60153), (11, 60162), (13, 60186), (Start: 38 @60327 has 43 MA's), (42, 60357), (58, 60438), (62, 60456), (64, 60471), (80, 60516), (85, 60531), (101, 60615),

Gene: Miniwave_90 Start: 56627, Stop: 57079, Start Num: 25
Candidate Starts for Miniwave_90:
(18, 56600), (Start: 25 @56627 has 133 MA's), (Start: 34 @56666 has 1 MA's), (54, 56780), (61, 56825), (63, 56837), (67, 56855), (76, 56888), (78, 56897), (89, 56948),

Gene: Misfit_97 Start: 58557, Stop: 59000, Start Num: 26
Candidate Starts for Misfit_97:

(Start: 26 @58557 has 68 MA's), (30, 58569), (Start: 34 @58596 has 1 MA's), (44, 58653), (61, 58728), (76, 58791), (78, 58800), (81, 58821),

Gene: Misfit_96 Start: 58101, Stop: 58553, Start Num: 25
Candidate Starts for Misfit_96:
(18, 58074), (Start: 25 @58101 has 133 MA's), (Start: 34 @58140 has 1 MA's), (54, 58254), (61, 58299), (63, 58311), (67, 58329), (76, 58362), (78, 58371), (89, 58422),

Gene: ModicumRichard_63 Start: 43300, Stop: 43671, Start Num: 33
Candidate Starts for ModicumRichard_63:
(8, 43108), (Start: 33 @43300 has 1 MA's), (41, 43333), (56, 43429), (83, 43531), (105, 43660),

Gene: Moldemort_98 Start: 56768, Stop: 57220, Start Num: 25
Candidate Starts for Moldemort_98:
(18, 56741), (Start: 25 @56768 has 133 MA's), (Start: 34 @56807 has 1 MA's), (54, 56921), (61, 56966), (63, 56978), (67, 56996), (76, 57029), (78, 57038), (89, 57089),

Gene: Moldemort_99 Start: 57224, Stop: 57667, Start Num: 26
Candidate Starts for Moldemort_99:
(Start: 26 @57224 has 68 MA's), (30, 57236), (Start: 34 @57263 has 1 MA's), (44, 57320), (61, 57395), (76, 57458), (78, 57467), (81, 57488),

Gene: MollyToe_90 Start: 55650, Stop: 56102, Start Num: 25
Candidate Starts for MollyToe_90:
(18, 55623), (Start: 25 @55650 has 133 MA's), (Start: 34 @55689 has 1 MA's), (54, 55803), (61, 55848), (63, 55860), (67, 55878), (76, 55911), (78, 55920), (89, 55971),

Gene: Mori_101 Start: 62970, Stop: 62539, Start Num: 27
Candidate Starts for Mori_101:
(Start: 27 @62970 has 32 MA's), (41, 62904), (43, 62889), (56, 62808), (61, 62784), (65, 62763), (69, 62748), (72, 62742), (75, 62733),

Gene: Mosby_92 Start: 56840, Stop: 57283, Start Num: 26
Candidate Starts for Mosby_92:
(Start: 26 @56840 has 68 MA's), (30, 56852), (Start: 34 @56879 has 1 MA's), (44, 56936), (61, 57011), (76, 57074), (78, 57083), (81, 57104),

Gene: Mosby_91 Start: 56384, Stop: 56836, Start Num: 25
Candidate Starts for Mosby_91:
(18, 56357), (Start: 25 @56384 has 133 MA's), (Start: 34 @56423 has 1 MA's), (54, 56537), (61, 56582), (63, 56594), (67, 56612), (76, 56645), (78, 56654), (89, 56705),

Gene: Murai_101 Start: 62818, Stop: 62387, Start Num: 27
Candidate Starts for Murai_101:
(Start: 27 @62818 has 32 MA's), (41, 62752), (43, 62737), (56, 62656), (61, 62632), (65, 62611), (69, 62596), (72, 62590), (75, 62581),

Gene: Murica_99 Start: 58483, Stop: 58926, Start Num: 26
Candidate Starts for Murica_99:
(Start: 26 @58483 has 68 MA's), (30, 58495), (Start: 34 @58522 has 1 MA's), (44, 58579), (76, 58717), (78, 58726), (81, 58747),

Gene: Murica_98 Start: 58027, Stop: 58479, Start Num: 25

Candidate Starts for Murica_98:
(18, 58000), (Start: 25 @58027 has 133 MA's), (Start: 34 @58066 has 1 MA's), (54, 58180), (61, 58225), (63, 58237), (67, 58255), (76, 58288), (78, 58297), (89, 58348),

Gene: Murphy_95 Start: 57468, Stop: 57920, Start Num: 25
Candidate Starts for Murphy_95:
(18, 57441), (Start: 25 @57468 has 133 MA's), (Start: 34 @57507 has 1 MA's), (54, 57621), (61, 57666), (63, 57678), (67, 57696), (76, 57729), (78, 57738), (89, 57789),

Gene: Myrale_96 Start: 58046, Stop: 58489, Start Num: 26
Candidate Starts for Myrale_96:
(Start: 26 @58046 has 68 MA's), (30, 58058), (Start: 34 @58085 has 1 MA's), (44, 58142), (61, 58217), (76, 58280), (78, 58289), (81, 58310),

Gene: Myrale_95 Start: 57590, Stop: 58042, Start Num: 25
Candidate Starts for Myrale_95:
(18, 57563), (Start: 25 @57590 has 133 MA's), (Start: 34 @57629 has 1 MA's), (54, 57743), (61, 57788), (63, 57800), (67, 57818), (76, 57851), (78, 57860), (89, 57911),

Gene: Nala_98 Start: 57769, Stop: 58212, Start Num: 26
Candidate Starts for Nala_98:
(Start: 26 @57769 has 68 MA's), (30, 57781), (Start: 34 @57808 has 1 MA's), (44, 57865), (61, 57940), (76, 58003), (78, 58012), (81, 58033),

Gene: Nala_97 Start: 57313, Stop: 57765, Start Num: 25
Candidate Starts for Nala_97:
(18, 57286), (Start: 25 @57313 has 133 MA's), (Start: 34 @57352 has 1 MA's), (54, 57466), (61, 57511), (63, 57523), (67, 57541), (76, 57574), (78, 57583), (89, 57634),

Gene: Nekros_97 Start: 58390, Stop: 58755, Start Num: 38
Candidate Starts for Nekros_97:
(Start: 38 @58390 has 43 MA's), (42, 58420), (94, 58654), (101, 58684),

Gene: NelitzaMV_93 Start: 56673, Stop: 57125, Start Num: 25
Candidate Starts for NelitzaMV_93:
(18, 56646), (Start: 25 @56673 has 133 MA's), (Start: 34 @56712 has 1 MA's), (54, 56826), (61, 56871), (63, 56883), (67, 56901), (76, 56934), (78, 56943), (89, 56994),

Gene: Nibley_88 Start: 54818, Stop: 55183, Start Num: 38
Candidate Starts for Nibley_88:
(Start: 38 @54818 has 43 MA's), (42, 54848), (94, 55082), (101, 55112),

Gene: NiebruSaylor_101 Start: 62085, Stop: 61654, Start Num: 27
Candidate Starts for NiebruSaylor_101:
(Start: 27 @62085 has 32 MA's), (41, 62019), (43, 62004), (56, 61923), (61, 61899), (65, 61878), (69, 61863), (72, 61857), (75, 61848),

Gene: NihilNomen_101 Start: 60468, Stop: 60827, Start Num: 38
Candidate Starts for NihilNomen_101:
(1, 60147), (2, 60153), (4, 60183), (10, 60294), (11, 60303), (13, 60327), (Start: 38 @60468 has 43 MA's), (42, 60498), (58, 60579), (62, 60597), (64, 60612), (80, 60657), (85, 60672), (101, 60756),

Gene: Nimrod_96 Start: 58016, Stop: 58456, Start Num: 25

Candidate Starts for Nimrod_96:
(18, 57989), (Start: 25 @58016 has 133 MA's), (Start: 34 @58055 has 1 MA's), (44, 58112), (76, 58250), (78, 58259), (81, 58280),

Gene: NoSleep_96 Start: 56650, Stop: 57102, Start Num: 25
Candidate Starts for NoSleep_96:
(18, 56623), (Start: 25 @56650 has 133 MA's), (Start: 34 @56689 has 1 MA's), (54, 56803), (61, 56848), (63, 56860), (67, 56878), (76, 56911), (78, 56920), (89, 56971),

Gene: NonchalantPear_95 Start: 56506, Stop: 56958, Start Num: 25
Candidate Starts for NonchalantPear_95:
(18, 56479), (Start: 25 @56506 has 133 MA's), (Start: 34 @56545 has 1 MA's), (54, 56659), (61, 56704), (63, 56716), (67, 56734), (76, 56767), (78, 56776), (89, 56827),

Gene: ObLaDi_63 Start: 43248, Stop: 43619, Start Num: 34
Candidate Starts for ObLaDi_63:
(8, 43053), (Start: 34 @43248 has 1 MA's), (41, 43281), (56, 43377), (83, 43479), (105, 43608),

Gene: Odette_99 Start: 59511, Stop: 59870, Start Num: 38
Candidate Starts for Odette_99:
(1, 59190), (2, 59196), (4, 59226), (10, 59337), (11, 59346), (13, 59370), (Start: 38 @59511 has 43 MA's), (42, 59541), (58, 59622), (62, 59640), (64, 59655), (80, 59700), (85, 59715), (101, 59799),

Gene: Omega_104 Start: 60228, Stop: 60593, Start Num: 38
Candidate Starts for Omega_104:
(Start: 38 @60228 has 43 MA's), (42, 60258), (91, 60465), (101, 60522),

Gene: Optimus_93 Start: 59002, Stop: 59361, Start Num: 38
Candidate Starts for Optimus_93:
(1, 58681), (2, 58687), (4, 58717), (10, 58828), (11, 58837), (13, 58861), (Start: 38 @59002 has 43 MA's), (42, 59032), (58, 59113), (62, 59131), (64, 59146), (80, 59191), (85, 59206), (101, 59290),

Gene: OrionPax_94 Start: 56401, Stop: 56853, Start Num: 25
Candidate Starts for OrionPax_94:
(18, 56374), (Start: 25 @56401 has 133 MA's), (Start: 34 @56440 has 1 MA's), (54, 56554), (61, 56599), (63, 56611), (67, 56629), (76, 56662), (78, 56671), (89, 56722),

Gene: OrionPax_95 Start: 56857, Stop: 57300, Start Num: 26
Candidate Starts for OrionPax_95:
(Start: 26 @56857 has 68 MA's), (30, 56869), (Start: 34 @56896 has 1 MA's), (44, 56953), (61, 57028), (76, 57091), (78, 57100), (81, 57121),

Gene: PaddyBaddy_96 Start: 56949, Stop: 57419, Start Num: 25
Candidate Starts for PaddyBaddy_96:
(18, 56922), (Start: 25 @56949 has 133 MA's), (Start: 34 @56988 has 1 MA's), (54, 57102), (61, 57147), (63, 57159), (67, 57177), (76, 57210), (78, 57219), (89, 57270),

Gene: Palpatine_97 Start: 58054, Stop: 58497, Start Num: 25
Candidate Starts for Palpatine_97:
(18, 58027), (Start: 25 @58054 has 133 MA's), (Start: 34 @58093 has 1 MA's), (44, 58150), (76, 58288), (78, 58297), (81, 58318),

Gene: Paperbeatsrock_94 Start: 57305, Stop: 57757, Start Num: 25

Candidate Starts for Paperbeatsrock_94:
(18, 57278), (Start: 25 @57305 has 133 MA's), (Start: 34 @57344 has 1 MA's), (54, 57458), (61, 57503), (63, 57515), (67, 57533), (76, 57566), (78, 57575), (89, 57626),

Gene: Park1214_176 Start: 90265, Stop: 90783, Start Num: 15
Candidate Starts for Park1214_176:
(Start: 15 @90265 has 4 MA's), (Start: 36 @90382 has 6 MA's), (46, 90427), (59, 90499), (86, 90616), (99, 90688),

Gene: Pat3_93 Start: 55960, Stop: 56406, Start Num: 26
Candidate Starts for Pat3_93:
(Start: 26 @55960 has 68 MA's), (30, 55972), (Start: 34 @55999 has 1 MA's), (44, 56056), (61, 56131), (76, 56194), (78, 56203), (81, 56224),

Gene: Pat3_92 Start: 55504, Stop: 55956, Start Num: 25
Candidate Starts for Pat3_92:
(18, 55477), (Start: 25 @55504 has 133 MA's), (Start: 34 @55543 has 1 MA's), (54, 55657), (61, 55702), (63, 55714), (67, 55732), (76, 55765), (78, 55774), (89, 55825),

Gene: Peregrin_227 Start: 113498, Stop: 113893, Start Num: 38
Candidate Starts for Peregrin_227:
(Start: 38 @113498 has 43 MA's), (41, 113516), (48, 113558), (49, 113564), (70, 113663), (82, 113711), (110, 113870),

Gene: Petra64142_100 Start: 58509, Stop: 58961, Start Num: 25
Candidate Starts for Petra64142_100:
(18, 58482), (Start: 25 @58509 has 133 MA's), (Start: 34 @58548 has 1 MA's), (54, 58662), (61, 58707), (63, 58719), (67, 58737), (76, 58770), (78, 58779), (89, 58830),

Gene: Petra64142_101 Start: 58965, Stop: 59408, Start Num: 26
Candidate Starts for Petra64142_101:
(Start: 26 @58965 has 68 MA's), (30, 58977), (Start: 34 @59004 has 1 MA's), (44, 59061), (61, 59136), (76, 59199), (78, 59208),

Gene: Phaja_93 Start: 57131, Stop: 57583, Start Num: 25
Candidate Starts for Phaja_93:
(18, 57104), (Start: 25 @57131 has 133 MA's), (Start: 34 @57170 has 1 MA's), (54, 57284), (61, 57329), (63, 57341), (67, 57359), (76, 57392), (78, 57401), (89, 57452),

Gene: Pharsalus_92 Start: 57105, Stop: 57557, Start Num: 25
Candidate Starts for Pharsalus_92:
(18, 57078), (Start: 25 @57105 has 133 MA's), (Start: 34 @57144 has 1 MA's), (54, 57258), (61, 57303), (63, 57315), (67, 57333), (76, 57366), (78, 57375), (89, 57426),

Gene: PhatBacter_99 Start: 57799, Stop: 58242, Start Num: 25
Candidate Starts for PhatBacter_99:
(18, 57772), (Start: 25 @57799 has 133 MA's), (Start: 34 @57838 has 1 MA's), (44, 57895), (76, 58033), (78, 58042), (81, 58063),

Gene: Phaux_98 Start: 58341, Stop: 58811, Start Num: 25
Candidate Starts for Phaux_98:
(18, 58314), (Start: 25 @58341 has 133 MA's), (Start: 34 @58380 has 1 MA's), (54, 58494), (61, 58539), (63, 58551), (67, 58569), (76, 58602), (78, 58611), (89, 58662),

Gene: Phoebus_101 Start: 61651, Stop: 62010, Start Num: 38
Candidate Starts for Phoebus_101:
(1, 61330), (2, 61336), (4, 61366), (10, 61477), (11, 61486), (13, 61510), (Start: 38 @61651 has 43 MA's), (42, 61681), (58, 61762), (62, 61780), (64, 61795), (80, 61840), (85, 61855), (101, 61939),

Gene: Phrux_93 Start: 56617, Stop: 57087, Start Num: 25
Candidate Starts for Phrux_93:
(18, 56590), (Start: 25 @56617 has 133 MA's), (Start: 34 @56656 has 1 MA's), (54, 56770), (61, 56815), (63, 56827), (67, 56845), (76, 56878), (78, 56887), (89, 56938),

Gene: Policronamos_98 Start: 58072, Stop: 58515, Start Num: 25
Candidate Starts for Policronamos_98:
(18, 58045), (Start: 25 @58072 has 133 MA's), (Start: 34 @58111 has 1 MA's), (44, 58168), (76, 58306), (78, 58315), (81, 58336),

Gene: Porcelain_93 Start: 55431, Stop: 55796, Start Num: 38
Candidate Starts for Porcelain_93:
(Start: 38 @55431 has 43 MA's), (42, 55461), (101, 55725),

Gene: Porky_94 Start: 56217, Stop: 56669, Start Num: 25
Candidate Starts for Porky_94:
(18, 56190), (Start: 25 @56217 has 133 MA's), (Start: 34 @56256 has 1 MA's), (54, 56370), (61, 56415), (63, 56427), (67, 56445), (76, 56478), (78, 56487), (89, 56538),

Gene: Pound_91 Start: 59679, Stop: 60038, Start Num: 38
Candidate Starts for Pound_91:
(1, 59358), (2, 59364), (4, 59394), (10, 59505), (11, 59514), (13, 59538), (Start: 38 @59679 has 43 MA's), (42, 59709), (58, 59790), (62, 59808), (64, 59823), (80, 59868), (85, 59883), (101, 59967),

Gene: Ptowny_92 Start: 55967, Stop: 56419, Start Num: 25
Candidate Starts for Ptowny_92:
(18, 55940), (Start: 25 @55967 has 133 MA's), (Start: 34 @56006 has 1 MA's), (54, 56120), (61, 56165), (63, 56177), (67, 56195), (76, 56228), (78, 56237), (89, 56288),

Gene: Pumpkin_99 Start: 57993, Stop: 58463, Start Num: 25
Candidate Starts for Pumpkin_99:
(18, 57966), (Start: 25 @57993 has 133 MA's), (Start: 34 @58032 has 1 MA's), (54, 58146), (61, 58191), (63, 58203), (67, 58221), (76, 58254), (78, 58263), (89, 58314),

Gene: Quallification_96 Start: 57713, Stop: 58165, Start Num: 25
Candidate Starts for Quallification_96:
(18, 57686), (Start: 25 @57713 has 133 MA's), (Start: 34 @57752 has 1 MA's), (54, 57866), (61, 57911), (63, 57923), (67, 57941), (76, 57974), (78, 57983), (89, 58034),

Gene: Rakim_97 Start: 57498, Stop: 57941, Start Num: 26
Candidate Starts for Rakim_97:
(Start: 26 @57498 has 68 MA's), (30, 57510), (Start: 34 @57537 has 1 MA's), (44, 57594), (61, 57669), (76, 57732), (78, 57741), (81, 57762),

Gene: Rakim_96 Start: 57042, Stop: 57494, Start Num: 25
Candidate Starts for Rakim_96:

(18, 57015), (Start: 25 @57042 has 133 MA's), (Start: 34 @57081 has 1 MA's), (54, 57195), (61, 57240), (63, 57252), (67, 57270), (76, 57303), (78, 57312), (89, 57363),

Gene: Rearden_89 Start: 55614, Stop: 55979, Start Num: 38
Candidate Starts for Rearden_89:
(Start: 38 @55614 has 43 MA's), (42, 55644), (94, 55878), (101, 55908),

Gene: Redno2_91 Start: 56202, Stop: 56561, Start Num: 38
Candidate Starts for Redno2_91:
(1, 55881), (2, 55887), (4, 55917), (10, 56028), (11, 56037), (13, 56061), (Start: 38 @56202 has 43 MA's), (42, 56232), (58, 56313), (62, 56331), (64, 56346), (80, 56391), (85, 56406), (101, 56490),

Gene: Rimmer_94 Start: 57071, Stop: 57517, Start Num: 26
Candidate Starts for Rimmer_94:
(Start: 26 @57071 has 68 MA's), (30, 57083), (Start: 34 @57110 has 1 MA's), (44, 57167), (61, 57242), (76, 57305), (78, 57314),

Gene: Rimmer_93 Start: 56615, Stop: 57067, Start Num: 25
Candidate Starts for Rimmer_93:
(3, 56372), (18, 56588), (Start: 25 @56615 has 133 MA's), (Start: 34 @56654 has 1 MA's), (54, 56768), (61, 56813), (63, 56825), (67, 56843), (76, 56876), (78, 56885), (89, 56936),

Gene: RiverMonster_96 Start: 57513, Stop: 57983, Start Num: 25
Candidate Starts for RiverMonster_96:
(18, 57486), (Start: 25 @57513 has 133 MA's), (Start: 34 @57552 has 1 MA's), (54, 57666), (61, 57711), (63, 57723), (67, 57741), (76, 57774), (78, 57783), (89, 57834),

Gene: Ryadel_105 Start: 63803, Stop: 63378, Start Num: 27
Candidate Starts for Ryadel_105:
(Start: 27 @63803 has 32 MA's), (41, 63737), (43, 63722), (56, 63641), (61, 63617), (65, 63596), (69, 63581), (72, 63575), (75, 63566), (109, 63386),

Gene: Saints25_94 Start: 56656, Stop: 57126, Start Num: 25
Candidate Starts for Saints25_94:
(18, 56629), (Start: 25 @56656 has 133 MA's), (Start: 34 @56695 has 1 MA's), (54, 56809), (61, 56854), (63, 56866), (67, 56884), (76, 56917), (78, 56926), (89, 56977),

Gene: Sassay_90 Start: 55346, Stop: 55798, Start Num: 25
Candidate Starts for Sassay_90:
(18, 55319), (Start: 25 @55346 has 133 MA's), (Start: 34 @55385 has 1 MA's), (54, 55499), (61, 55544), (63, 55556), (67, 55574), (76, 55607), (78, 55616), (89, 55667),

Gene: Sassay_91 Start: 55802, Stop: 56245, Start Num: 26
Candidate Starts for Sassay_91:
(Start: 26 @55802 has 68 MA's), (30, 55814), (Start: 34 @55841 has 1 MA's), (44, 55898), (61, 55973), (76, 56036), (78, 56045), (81, 56066),

Gene: Schatzie_94 Start: 59258, Stop: 59617, Start Num: 38
Candidate Starts for Schatzie_94:
(1, 58937), (2, 58943), (4, 58973), (10, 59084), (11, 59093), (13, 59117), (Start: 38 @59258 has 43 MA's), (42, 59288), (58, 59369), (62, 59387), (64, 59402), (80, 59447), (85, 59462), (101, 59546),

Gene: SchoolBus_100 Start: 62561, Stop: 62130, Start Num: 27

Candidate Starts for SchoolBus_100:
(Start: 27 @62561 has 32 MA's), (41, 62495), (43, 62480), (56, 62399), (61, 62375), (65, 62354), (69, 62339), (72, 62333), (75, 62324),

Gene: Schuy_101 Start: 62180, Stop: 61749, Start Num: 27
Candidate Starts for Schuy_101:
(Start: 27 @62180 has 32 MA's), (41, 62114), (43, 62099), (56, 62018), (61, 61994), (65, 61973), (69, 61958), (72, 61952), (75, 61943),

Gene: Shaboozey_93 Start: 55262, Stop: 55627, Start Num: 38
Candidate Starts for Shaboozey_93:
(Start: 38 @55262 has 43 MA's), (42, 55292), (94, 55526), (101, 55556),

Gene: ShamWow_95 Start: 57526, Stop: 57978, Start Num: 25
Candidate Starts for ShamWow_95:
(18, 57499), (Start: 25 @57526 has 133 MA's), (Start: 34 @57565 has 1 MA's), (54, 57679), (61, 57724), (63, 57736), (67, 57754), (76, 57787), (78, 57796), (89, 57847),

Gene: ShereKhan_93 Start: 57638, Stop: 58090, Start Num: 25
Candidate Starts for ShereKhan_93:
(18, 57611), (Start: 25 @57638 has 133 MA's), (Start: 34 @57677 has 1 MA's), (54, 57791), (61, 57836), (63, 57848), (67, 57866), (76, 57899), (78, 57908), (89, 57959),

Gene: ShereKhan_94 Start: 58094, Stop: 58537, Start Num: 26
Candidate Starts for ShereKhan_94:
(Start: 26 @58094 has 68 MA's), (30, 58106), (Start: 34 @58133 has 1 MA's), (44, 58190), (61, 58265), (76, 58328), (78, 58337), (81, 58358),

Gene: Shida_103 Start: 63065, Stop: 62631, Start Num: 27
Candidate Starts for Shida_103:
(12, 63167), (Start: 27 @63065 has 32 MA's), (41, 62999), (43, 62984), (56, 62903), (61, 62879), (65, 62858), (69, 62843), (72, 62837), (75, 62828),

Gene: Simpliphy_95 Start: 57102, Stop: 57545, Start Num: 26
Candidate Starts for Simpliphy_95:
(Start: 26 @57102 has 68 MA's), (30, 57114), (Start: 34 @57141 has 1 MA's), (44, 57198), (61, 57273), (76, 57336), (78, 57345), (81, 57366),

Gene: Simpliphy_94 Start: 56646, Stop: 57098, Start Num: 25
Candidate Starts for Simpliphy_94:
(18, 56619), (Start: 25 @56646 has 133 MA's), (Start: 34 @56685 has 1 MA's), (54, 56799), (61, 56844), (63, 56856), (67, 56874), (76, 56907), (78, 56916), (89, 56967),

Gene: SirDuracell_96 Start: 56475, Stop: 56921, Start Num: 26
Candidate Starts for SirDuracell_96:
(Start: 26 @56475 has 68 MA's), (30, 56487), (Start: 34 @56514 has 1 MA's), (44, 56571), (61, 56646), (76, 56709), (78, 56718),

Gene: SirDuracell_95 Start: 56019, Stop: 56471, Start Num: 25
Candidate Starts for SirDuracell_95:
(18, 55992), (Start: 25 @56019 has 133 MA's), (Start: 34 @56058 has 1 MA's), (54, 56172), (61, 56217), (63, 56229), (67, 56247), (76, 56280), (78, 56289), (89, 56340),

Gene: Smooch_100 Start: 62946, Stop: 62518, Start Num: 27
Candidate Starts for Smooch_100:
(12, 63048), (Start: 27 @62946 has 32 MA's), (41, 62880), (43, 62865), (56, 62784), (61, 62760), (65, 62739), (69, 62724), (72, 62718), (75, 62709), (109, 62526),

Gene: SophKB_92 Start: 56324, Stop: 56776, Start Num: 25
Candidate Starts for SophKB_92:
(18, 56297), (Start: 25 @56324 has 133 MA's), (Start: 34 @56363 has 1 MA's), (54, 56477), (61, 56522), (63, 56534), (67, 56552), (76, 56585), (78, 56594), (89, 56645),

Gene: Sotrice96_97 Start: 57368, Stop: 57811, Start Num: 26
Candidate Starts for Sotrice96_97:
(Start: 26 @57368 has 68 MA's), (Start: 34 @57407 has 1 MA's), (44, 57464), (61, 57539), (76, 57602), (78, 57611), (81, 57632),

Gene: Sotrice96_96 Start: 56912, Stop: 57364, Start Num: 25
Candidate Starts for Sotrice96_96:
(18, 56885), (Start: 25 @56912 has 133 MA's), (Start: 34 @56951 has 1 MA's), (54, 57065), (61, 57110), (63, 57122), (67, 57140), (76, 57173), (78, 57182), (81, 57203), (89, 57233),

Gene: Squint_93 Start: 55550, Stop: 55915, Start Num: 38
Candidate Starts for Squint_93:
(Start: 38 @55550 has 43 MA's), (42, 55580), (101, 55844),

Gene: Stank_98 Start: 57761, Stop: 58204, Start Num: 26
Candidate Starts for Stank_98:
(Start: 26 @57761 has 68 MA's), (30, 57773), (Start: 34 @57800 has 1 MA's), (44, 57857), (61, 57932), (76, 57995), (78, 58004), (81, 58025),

Gene: Stank_97 Start: 57305, Stop: 57757, Start Num: 25
Candidate Starts for Stank_97:
(18, 57278), (Start: 25 @57305 has 133 MA's), (Start: 34 @57344 has 1 MA's), (54, 57458), (61, 57503), (63, 57515), (67, 57533), (76, 57566), (78, 57575), (89, 57626),

Gene: Stark_97 Start: 57396, Stop: 57866, Start Num: 25
Candidate Starts for Stark_97:
(18, 57369), (Start: 25 @57396 has 133 MA's), (Start: 34 @57435 has 1 MA's), (54, 57549), (61, 57594), (63, 57606), (67, 57624), (76, 57657), (78, 57666), (89, 57717),

Gene: StellaBean_93 Start: 56850, Stop: 57302, Start Num: 25
Candidate Starts for StellaBean_93:
(18, 56823), (Start: 25 @56850 has 133 MA's), (Start: 34 @56889 has 1 MA's), (54, 57003), (61, 57048), (63, 57060), (67, 57078), (76, 57111), (78, 57120), (89, 57171),

Gene: StolenFromERC_98 Start: 57230, Stop: 57682, Start Num: 25
Candidate Starts for StolenFromERC_98:
(18, 57203), (Start: 25 @57230 has 133 MA's), (Start: 34 @57269 has 1 MA's), (54, 57383), (61, 57428), (63, 57440), (67, 57458), (76, 57491), (78, 57500), (89, 57551),

Gene: StolenFromERC_99 Start: 57686, Stop: 58129, Start Num: 26
Candidate Starts for StolenFromERC_99:
(Start: 26 @57686 has 68 MA's), (30, 57698), (Start: 34 @57725 has 1 MA's), (44, 57782), (61, 57857), (76, 57920), (78, 57929), (81, 57950),

Gene: StormChicken_97 Start: 58010, Stop: 58462, Start Num: 25
Candidate Starts for StormChicken_97:
(18, 57983), (Start: 25 @58010 has 133 MA's), (Start: 34 @58049 has 1 MA's), (54, 58163), (61, 58208), (63, 58220), (67, 58238), (76, 58271), (78, 58280), (89, 58331),

Gene: StormChicken_98 Start: 58466, Stop: 58909, Start Num: 26
Candidate Starts for StormChicken_98:
(Start: 26 @58466 has 68 MA's), (30, 58478), (Start: 34 @58505 has 1 MA's), (44, 58562), (61, 58637), (76, 58700), (78, 58709),

Gene: Superphikiman_92 Start: 54641, Stop: 55006, Start Num: 38
Candidate Starts for Superphikiman_92:
(Start: 38 @54641 has 43 MA's), (42, 54671), (101, 54935),

Gene: TBrady12_98 Start: 57066, Stop: 57518, Start Num: 25
Candidate Starts for TBrady12_98:
(18, 57039), (Start: 25 @57066 has 133 MA's), (Start: 34 @57105 has 1 MA's), (54, 57219), (61, 57264), (63, 57276), (67, 57294), (76, 57327), (78, 57336), (89, 57387),

Gene: Talos_174 Start: 88895, Stop: 89413, Start Num: 16
Candidate Starts for Talos_174:
(Start: 16 @88895 has 4 MA's), (19, 88943), (41, 89030), (53, 89099), (97, 89294),

Gene: Tarkin_94 Start: 57314, Stop: 57766, Start Num: 25
Candidate Starts for Tarkin_94:
(18, 57287), (Start: 25 @57314 has 133 MA's), (Start: 34 @57353 has 1 MA's), (54, 57467), (61, 57512), (63, 57524), (67, 57542), (76, 57575), (78, 57584), (89, 57635),

Gene: TeamEdward_95 Start: 57216, Stop: 57668, Start Num: 25
Candidate Starts for TeamEdward_95:
(3, 56973), (18, 57189), (Start: 25 @57216 has 133 MA's), (Start: 34 @57255 has 1 MA's), (54, 57369), (61, 57414), (63, 57426), (67, 57444), (76, 57477), (78, 57486), (89, 57537),

Gene: TeamEdward_96 Start: 57672, Stop: 58115, Start Num: 26
Candidate Starts for TeamEdward_96:
(Start: 26 @57672 has 68 MA's), (30, 57684), (Start: 34 @57711 has 1 MA's), (44, 57768), (61, 57843), (76, 57906), (78, 57915),

Gene: TeardropMSU_91 Start: 56314, Stop: 56766, Start Num: 25
Candidate Starts for TeardropMSU_91:
(18, 56287), (Start: 25 @56314 has 133 MA's), (Start: 34 @56353 has 1 MA's), (54, 56467), (61, 56512), (63, 56524), (67, 56542), (76, 56575), (78, 56584), (89, 56635),

Gene: Teaspoon_96 Start: 57166, Stop: 57618, Start Num: 25
Candidate Starts for Teaspoon_96:
(18, 57139), (Start: 25 @57166 has 133 MA's), (Start: 34 @57205 has 1 MA's), (54, 57319), (61, 57364), (63, 57376), (67, 57394), (76, 57427), (78, 57436), (81, 57457), (89, 57487),

Gene: TelAviv_98 Start: 62790, Stop: 62356, Start Num: 27
Candidate Starts for TelAviv_98:
(12, 62892), (17, 62868), (Start: 27 @62790 has 32 MA's), (41, 62724), (43, 62709), (56, 62628), (61, 62604), (65, 62583), (69, 62568), (72, 62562), (75, 62553),

Gene: Terminus_99 Start: 58557, Stop: 59000, Start Num: 26
Candidate Starts for Terminus_99:
(Start: 26 @58557 has 68 MA's), (30, 58569), (Start: 34 @58596 has 1 MA's), (44, 58653), (61, 58728), (76, 58791), (78, 58800), (81, 58821),

Gene: Terminus_98 Start: 58101, Stop: 58553, Start Num: 25
Candidate Starts for Terminus_98:
(18, 58074), (Start: 25 @58101 has 133 MA's), (Start: 34 @58140 has 1 MA's), (54, 58254), (61, 58299), (63, 58311), (67, 58329), (76, 58362), (78, 58371), (89, 58422),

Gene: Thibault_84 Start: 55167, Stop: 55523, Start Num: 38
Candidate Starts for Thibault_84:
(1, 54846), (2, 54852), (4, 54882), (10, 54993), (11, 55002), (13, 55026), (Start: 38 @55167 has 43 MA's), (42, 55197), (74, 55326), (76, 55332), (85, 55368), (89, 55380), (90, 55383), (100, 55449), (101, 55452),

Gene: Thimble_97 Start: 56816, Stop: 57268, Start Num: 25
Candidate Starts for Thimble_97:
(18, 56789), (Start: 25 @56816 has 133 MA's), (Start: 34 @56855 has 1 MA's), (54, 56969), (61, 57014), (63, 57026), (67, 57044), (76, 57077), (78, 57086), (89, 57137),

Gene: ThreeRngTarjay_96 Start: 60543, Stop: 60902, Start Num: 38
Candidate Starts for ThreeRngTarjay_96:
(1, 60222), (2, 60228), (4, 60258), (10, 60369), (11, 60378), (13, 60402), (Start: 38 @60543 has 43 MA's), (42, 60573), (58, 60654), (62, 60672), (64, 60687), (80, 60732), (85, 60747), (101, 60831),

Gene: Thresher_98 Start: 58176, Stop: 58646, Start Num: 25
Candidate Starts for Thresher_98:
(18, 58149), (Start: 25 @58176 has 133 MA's), (Start: 34 @58215 has 1 MA's), (54, 58329), (61, 58374), (63, 58386), (67, 58404), (76, 58437), (78, 58446), (89, 58497),

Gene: Tomaszewski_90 Start: 56477, Stop: 56929, Start Num: 25
Candidate Starts for Tomaszewski_90:
(18, 56450), (Start: 25 @56477 has 133 MA's), (Start: 34 @56516 has 1 MA's), (54, 56630), (61, 56675), (63, 56687), (67, 56705), (76, 56738), (78, 56747), (89, 56798),

Gene: Tomaszewski_91 Start: 56933, Stop: 57376, Start Num: 26
Candidate Starts for Tomaszewski_91:
(Start: 26 @56933 has 68 MA's), (30, 56945), (Start: 34 @56972 has 1 MA's), (44, 57029), (61, 57104), (76, 57167), (78, 57176), (81, 57197),

Gene: Toto_93 Start: 57526, Stop: 57978, Start Num: 25
Candidate Starts for Toto_93:
(18, 57499), (Start: 25 @57526 has 133 MA's), (Start: 34 @57565 has 1 MA's), (54, 57679), (61, 57724), (63, 57736), (67, 57754), (76, 57787), (78, 57796), (89, 57847),

Gene: Traaww1_91 Start: 56334, Stop: 56786, Start Num: 25
Candidate Starts for Traaww1_91:
(18, 56307), (Start: 25 @56334 has 133 MA's), (Start: 34 @56373 has 1 MA's), (54, 56487), (61, 56532), (63, 56544), (67, 56562), (76, 56595), (78, 56604), (81, 56625), (89, 56655),

Gene: Traaww1_92 Start: 56790, Stop: 57233, Start Num: 26

Candidate Starts for Traaww1_92:
(Start: 26 @56790 has 68 MA's), (Start: 34 @56829 has 1 MA's), (44, 56886), (61, 56961), (76, 57024), (78, 57033), (81, 57054),

Gene: Trina_185 Start: 102486, Stop: 102851, Start Num: 37
Candidate Starts for Trina_185:
(Start: 37 @102486 has 1 MA's), (50, 102555), (60, 102615), (79, 102672), (85, 102687), (89, 102699), (93, 102732), (102, 102771), (107, 102822), (111, 102837),

Gene: Tuco_96 Start: 58073, Stop: 58525, Start Num: 25
Candidate Starts for Tuco_96:
(18, 58046), (Start: 25 @58073 has 133 MA's), (Start: 34 @58112 has 1 MA's), (54, 58226), (61, 58271), (63, 58283), (67, 58301), (76, 58334), (78, 58343), (81, 58364), (89, 58394),

Gene: Tuco_97 Start: 58529, Stop: 58972, Start Num: 26
Candidate Starts for Tuco_97:
(Start: 26 @58529 has 68 MA's), (Start: 34 @58568 has 1 MA's), (44, 58625), (61, 58700), (76, 58763), (78, 58772), (81, 58793),

Gene: Ukulele_90 Start: 56459, Stop: 56911, Start Num: 25
Candidate Starts for Ukulele_90:
(18, 56432), (Start: 25 @56459 has 133 MA's), (Start: 34 @56498 has 1 MA's), (54, 56612), (61, 56657), (63, 56669), (67, 56687), (76, 56720), (78, 56729), (89, 56780),

Gene: Ukulele_91 Start: 56915, Stop: 57358, Start Num: 26
Candidate Starts for Ukulele_91:
(Start: 26 @56915 has 68 MA's), (30, 56927), (Start: 34 @56954 has 1 MA's), (44, 57011), (61, 57086), (76, 57149), (78, 57158), (81, 57179),

Gene: Vagabond_100 Start: 62228, Stop: 61797, Start Num: 27
Candidate Starts for Vagabond_100:
(Start: 27 @62228 has 32 MA's), (41, 62162), (43, 62147), (56, 62066), (61, 62042), (65, 62021), (69, 62006), (72, 62000), (75, 61991),

Gene: VanLee_105 Start: 56038, Stop: 56412, Start Num: 32
Candidate Starts for VanLee_105:
(23, 56002), (24, 56008), (Start: 32 @56038 has 2 MA's), (Start: 35 @56056 has 3 MA's), (45, 56098), (93, 56335), (105, 56401),

Gene: Vorrps_101 Start: 62971, Stop: 62540, Start Num: 27
Candidate Starts for Vorrps_101:
(Start: 27 @62971 has 32 MA's), (41, 62905), (43, 62890), (56, 62809), (61, 62785), (65, 62764), (69, 62749), (72, 62743), (75, 62734),

Gene: Wanda_103 Start: 59659, Stop: 60018, Start Num: 38
Candidate Starts for Wanda_103:
(1, 59338), (2, 59344), (4, 59374), (10, 59485), (11, 59494), (13, 59518), (Start: 38 @59659 has 43 MA's), (42, 59689), (58, 59770), (62, 59788), (64, 59803), (80, 59848), (85, 59863), (101, 59947),

Gene: Wiggin_97 Start: 56735, Stop: 57187, Start Num: 25
Candidate Starts for Wiggin_97:
(18, 56708), (Start: 25 @56735 has 133 MA's), (Start: 34 @56774 has 1 MA's), (54, 56888), (61, 56933), (63, 56945), (67, 56963), (76, 56996), (78, 57005), (81, 57026), (89, 57056),

Gene: Wiggin_98 Start: 57191, Stop: 57634, Start Num: 26
Candidate Starts for Wiggin_98:
(Start: 26 @57191 has 68 MA's), (Start: 34 @57230 has 1 MA's), (44, 57287), (61, 57362), (76, 57425), (78, 57434), (81, 57455),

Gene: Wildcat_144 Start: 68090, Stop: 67533, Start Num: 14
Candidate Starts for Wildcat_144:
(Start: 14 @68090 has 5 MA's), (21, 68024), (Start: 27 @68003 has 32 MA's), (28, 67997), (41, 67934), (51, 67880), (66, 67796), (73, 67751), (84, 67700), (89, 67679), (95, 67634), (104, 67598), (105, 67568),

Gene: Wildflower_98 Start: 60971, Stop: 60525, Start Num: 27
Candidate Starts for Wildflower_98:
(Start: 27 @60971 has 32 MA's), (41, 60905), (43, 60890), (56, 60809), (61, 60785), (65, 60764), (69, 60749), (72, 60743), (75, 60734), (109, 60545), (112, 60533),

Gene: Willez_91 Start: 55802, Stop: 56245, Start Num: 26
Candidate Starts for Willez_91:
(Start: 26 @55802 has 68 MA's), (30, 55814), (Start: 34 @55841 has 1 MA's), (44, 55898), (61, 55973), (76, 56036), (78, 56045), (81, 56066),

Gene: Willez_90 Start: 55346, Stop: 55798, Start Num: 25
Candidate Starts for Willez_90:
(18, 55319), (Start: 25 @55346 has 133 MA's), (Start: 34 @55385 has 1 MA's), (54, 55499), (61, 55544), (63, 55556), (67, 55574), (76, 55607), (78, 55616), (89, 55667),

Gene: Winget_101 Start: 62865, Stop: 62434, Start Num: 27
Candidate Starts for Winget_101:
(Start: 27 @62865 has 32 MA's), (41, 62799), (43, 62784), (56, 62703), (61, 62679), (65, 62658), (69, 62643), (72, 62637), (75, 62628),

Gene: Wogge42_98 Start: 62149, Stop: 61718, Start Num: 27
Candidate Starts for Wogge42_98:
(Start: 27 @62149 has 32 MA's), (41, 62083), (43, 62068), (56, 61987), (61, 61963), (65, 61942), (69, 61927), (72, 61921), (75, 61912),

Gene: Xandras_94 Start: 56558, Stop: 57010, Start Num: 25
Candidate Starts for Xandras_94:
(18, 56531), (Start: 25 @56558 has 133 MA's), (Start: 34 @56597 has 1 MA's), (54, 56711), (61, 56756), (63, 56768), (67, 56786), (76, 56819), (78, 56828), (89, 56879),

Gene: Xandras_95 Start: 57014, Stop: 57457, Start Num: 26
Candidate Starts for Xandras_95:
(Start: 26 @57014 has 68 MA's), (30, 57026), (Start: 34 @57053 has 1 MA's), (44, 57110), (61, 57185), (76, 57248), (78, 57257), (81, 57278),

Gene: Xiaokay_89 Start: 56418, Stop: 56783, Start Num: 38
Candidate Starts for Xiaokay_89:
(Start: 38 @56418 has 43 MA's), (42, 56448), (101, 56712),

Gene: YassJohnny_92 Start: 56199, Stop: 56651, Start Num: 25
Candidate Starts for YassJohnny_92:

(18, 56172), (Start: 25 @56199 has 133 MA's), (Start: 34 @56238 has 1 MA's), (54, 56352), (61, 56397), (63, 56409), (67, 56427), (76, 56460), (78, 56469), (89, 56520),

Gene: Yeet_92 Start: 58760, Stop: 59119, Start Num: 38
Candidate Starts for Yeet_92:
(1, 58439), (2, 58445), (4, 58475), (10, 58586), (11, 58595), (13, 58619), (Start: 38 @58760 has 43 MA's), (42, 58790), (58, 58871), (62, 58889), (64, 58904), (80, 58949), (85, 58964), (101, 59048),

Gene: Youngblood_98 Start: 58028, Stop: 58480, Start Num: 25
Candidate Starts for Youngblood_98:
(18, 58001), (Start: 25 @58028 has 133 MA's), (Start: 34 @58067 has 1 MA's), (54, 58181), (61, 58226), (63, 58238), (67, 58256), (76, 58289), (78, 58298), (89, 58349),

Gene: Youngblood_99 Start: 58484, Stop: 58927, Start Num: 26
Candidate Starts for Youngblood_99:
(Start: 26 @58484 has 68 MA's), (30, 58496), (Start: 34 @58523 has 1 MA's), (44, 58580), (61, 58655), (76, 58718), (78, 58727), (81, 58748),

Gene: YoyoKar_98 Start: 62126, Stop: 61692, Start Num: 27
Candidate Starts for YoyoKar_98:
(12, 62228), (17, 62204), (Start: 27 @62126 has 32 MA's), (41, 62060), (43, 62045), (56, 61964), (61, 61940), (65, 61919), (69, 61904), (72, 61898), (75, 61889),

Gene: YungJamal_100 Start: 62022, Stop: 61594, Start Num: 27
Candidate Starts for YungJamal_100:
(Start: 27 @62022 has 32 MA's), (41, 61956), (43, 61941), (56, 61860), (61, 61836), (65, 61815), (69, 61800), (72, 61794), (75, 61785), (109, 61602),

Gene: Yvonnetastic_90 Start: 54178, Stop: 54519, Start Num: 36
Candidate Starts for Yvonnetastic_90:
(5, 53926), (20, 54106), (Start: 36 @54178 has 6 MA's), (40, 54190), (77, 54364), (82, 54388), (103, 54472),

Gene: Yvonnetastic_91 Start: 54516, Stop: 54887, Start Num: 36
Candidate Starts for Yvonnetastic_91:
(Start: 36 @54516 has 6 MA's), (55, 54621), (60, 54648), (88, 54753),

Gene: Yvonnetastic_92 Start: 54884, Stop: 55351, Start Num: 35
Candidate Starts for Yvonnetastic_92:
(29, 54845), (Start: 35 @54884 has 3 MA's), (39, 54893), (56, 54998), (59, 55019), (85, 55136), (113, 55328),

Gene: Zakhe101_96 Start: 61076, Stop: 60630, Start Num: 27
Candidate Starts for Zakhe101_96:
(Start: 27 @61076 has 32 MA's), (41, 61010), (43, 60995), (56, 60914), (61, 60890), (65, 60869), (69, 60854), (72, 60848), (109, 60650), (112, 60638),

Gene: Zebo_100 Start: 62561, Stop: 62130, Start Num: 27
Candidate Starts for Zebo_100:
(Start: 27 @62561 has 32 MA's), (41, 62495), (43, 62480), (56, 62399), (61, 62375), (65, 62354), (69, 62339), (72, 62333), (75, 62324),

Gene: Zelink_96 Start: 60854, Stop: 61213, Start Num: 38

Candidate Starts for Zelink_96:
(1, 60533), (2, 60539), (4, 60569), (10, 60680), (11, 60689), (13, 60713), (Start: 38 @60854 has 43 MA's), (42, 60884), (58, 60965), (62, 60983), (64, 60998), (80, 61043), (85, 61058), (101, 61142),

Gene: xkcd_98 Start: 58212, Stop: 58664, Start Num: 25
Candidate Starts for xkcd_98:
(18, 58185), (Start: 25 @58212 has 133 MA's), (Start: 34 @58251 has 1 MA's), (54, 58365), (61, 58410), (63, 58422), (67, 58440), (76, 58473), (78, 58482), (89, 58533),

Gene: xkcd_99 Start: 58668, Stop: 59111, Start Num: 26
Candidate Starts for xkcd_99:
(Start: 26 @58668 has 68 MA's), (30, 58680), (Start: 34 @58707 has 1 MA's), (44, 58764), (76, 58902), (78, 58911), (81, 58932),