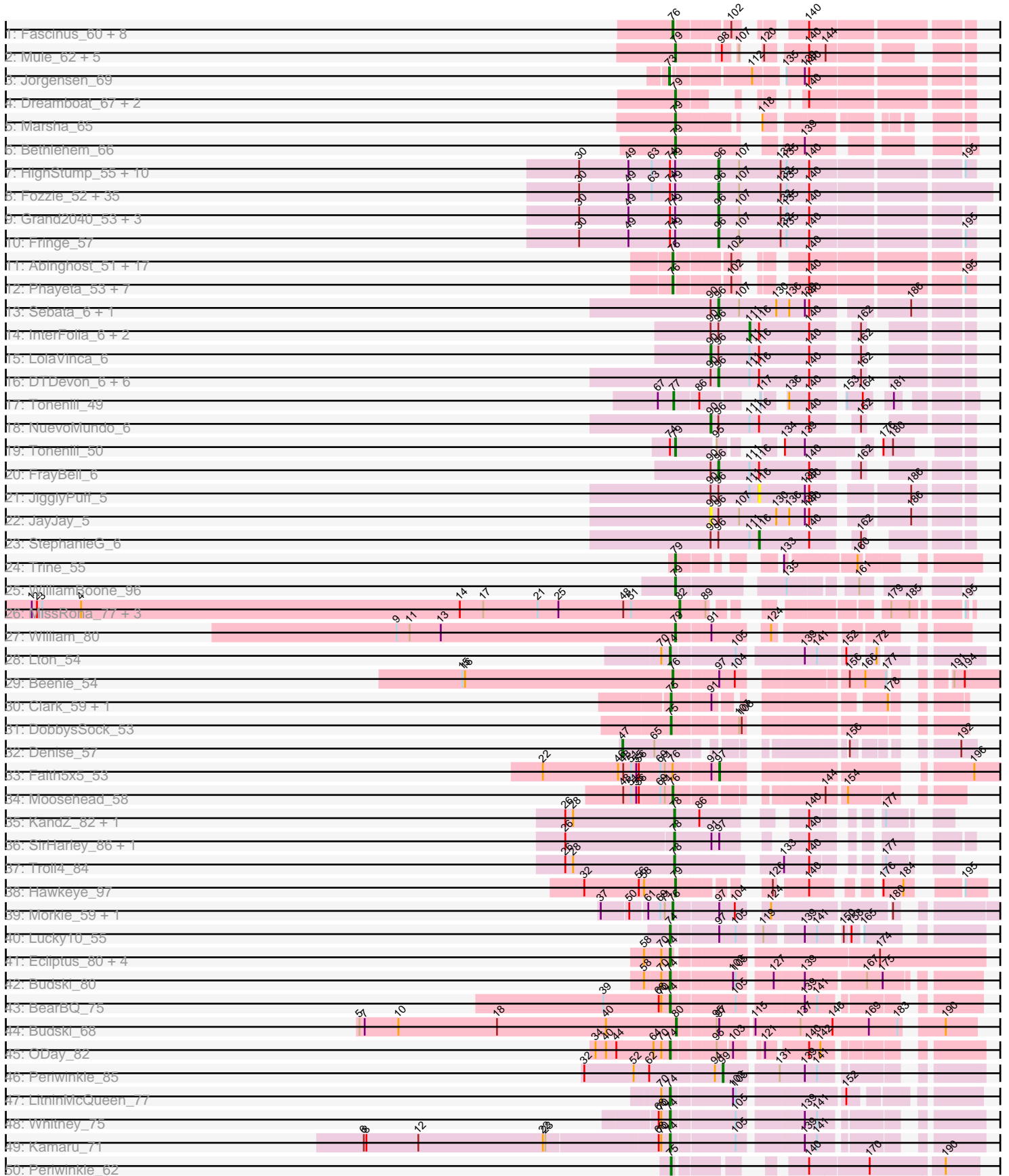
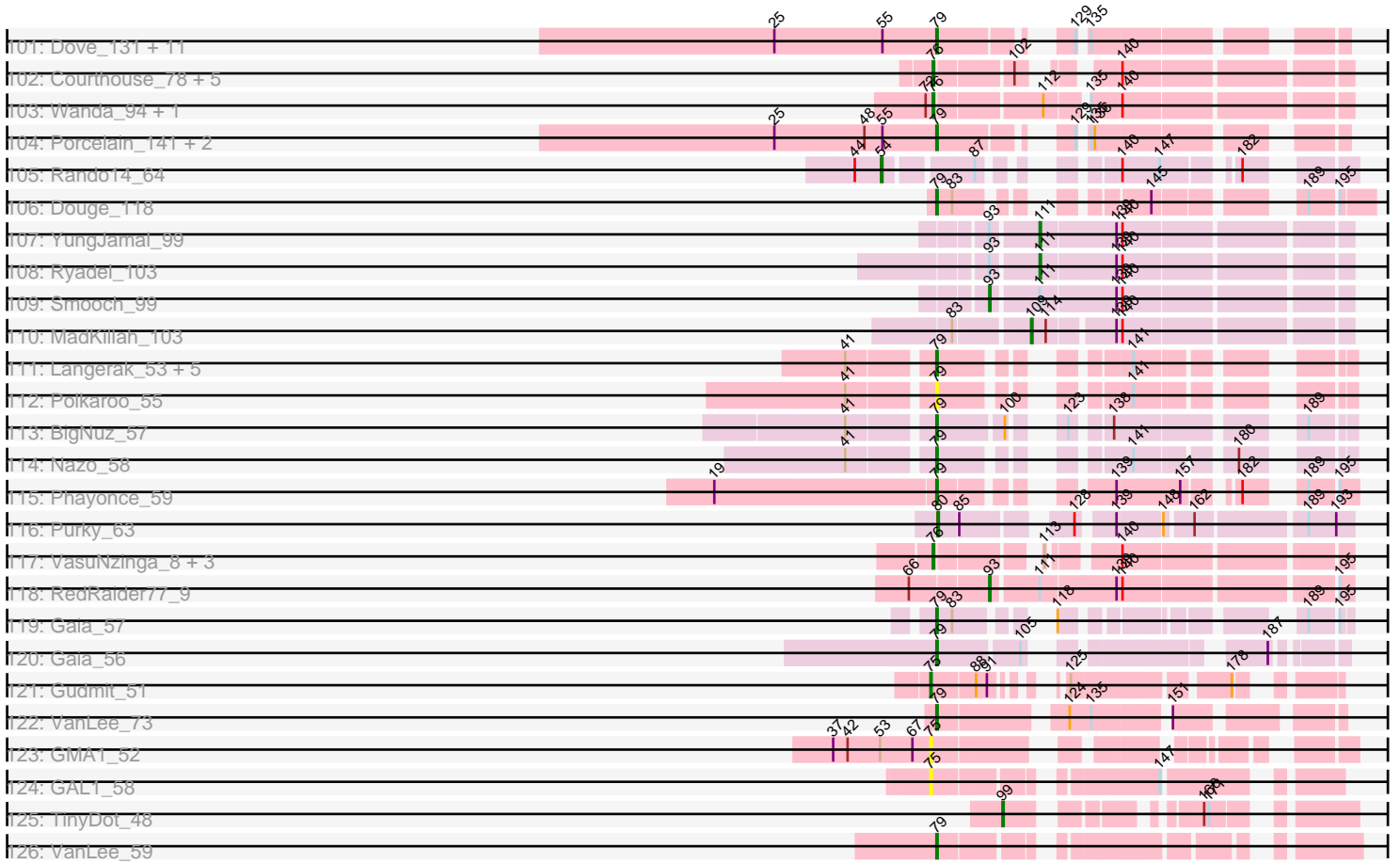


Pham 196208



Pham 196208



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 196208 Report

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

Pham number 196208 has 385 members, 19 are drafts.

Phages represented in each track:

- Track 1 : Fascinus_60, Paraselene_66, Carlyle_66, CactusRose_66, Maroc7_64, Blue_65, Makemake_71, Graduation_70, Bigfoot_58
- Track 2 : Mule_62, Sunshine924_70, Smairt_67, Aeneas_68, PhrostyMug_65, BaconJack_70
- Track 3 : Jorgensen_69
- Track 4 : Dreamboat_67, PherrisBueller_66, Jasper_66
- Track 5 : Marsha_65
- Track 6 : Bethlehem_66
- Track 7 : HighStump_55, Kahve_53, Childish_53, Soile_54, Nicole21_54, DaddyDaniels_55, Craff_56, Legolas_55, Longacauda_54, Brilliant_55, HenryJackson_53
- Track 8 : Fozzie_52, CamL_53, Mosaic_52, Sophia_52, Serendipity_53, Cosmolli16_54, TallGrassMM_53, Surely_53, Chorkpop_53, Squid_53, Morgushi_53, Solosis_52, Timmi_52, MitKao_53, Maru_53, Lasso_53, Potter_52, Samaymay_53, QueenBeane_53, Mana_52, Daffy_53, LeeLot_53, Oosterbaan_53, Hertubise_53, Zelda_53, Cannibal_53, Kwadwo_52, Thora_53, Haleema_52, TomBombadil_53, SassyCat97_52, Vortex_53, Puhltonio_53, Xavier_52, Held_53, Banjo_52
- Track 9 : Grand2040_53, Mesh1_54, Lumine_54, Giraffe_54
- Track 10 : Fringe_57
- Track 11 : Abinghost_51, Neos5_51, SynergyX_51, Baloo_51, Audrey_51, Nozo_51, Daisy_51, ChaChing_51, GlenHope_52, Philly_50, Halfpint_50, OrangeOswald_51, Corofin_51, Akoma_51, Kamiyu_51, Phlyer_51, Athena_52, Chandler_51
- Track 12 : Phayeta_53, Kronus_51, Gervas_52, Mortcellus_51, Casbah_51, Rita1961_52, MmasiCarm_52, Obutu_52
- Track 13 : Sebata_6, LinStu_6
- Track 14 : InterFolia_6, Tainan_6, LordLeafolot_6
- Track 15 : LolaVinca_6
- Track 16 : DTDevon_6, Pier_6, Tyke_6, Specks_6, Dandelion_5, Nappy_5, Drazdys_6
- Track 17 : Tonenili_49
- Track 18 : NuevoMundo_6
- Track 19 : Tonenili_50
- Track 20 : FrayBell_6
- Track 21 : JigglyPuff_5
- Track 22 : JayJay_5
- Track 23 : StephanieG_6

- Track 24 : Trine_55
- Track 25 : WilliamBoone_96
- Track 26 : MissRona_77, Blueberry_76, Azula_77, Gambino_79
- Track 27 : William_80
- Track 28 : Lton_54
- Track 29 : Beenie_54
- Track 30 : Clark_59, Samman98_60
- Track 31 : DobbysSock_53
- Track 32 : Denise_57
- Track 33 : Faith5x5_53
- Track 34 : Moosehead_58
- Track 35 : KandZ_82, Helpful_87
- Track 36 : SirHarley_86, Gumball_84
- Track 37 : Troll4_84
- Track 38 : Hawkeye_97
- Track 39 : Morkie_59, PhorbesPhlower_55
- Track 40 : Lucky10_55
- Track 41 : Ecliptus_80, BENtherdunthat_78, Frickyeah_80, Asapag_74, Birdsong_73
- Track 42 : Budski_80
- Track 43 : BearBQ_75
- Track 44 : Budski_68
- Track 45 : ODay_82
- Track 46 : Periwinkle_85
- Track 47 : LitninMcQueen_77
- Track 48 : Whitney_75
- Track 49 : Kamaru_71
- Track 50 : Periwinkle_62
- Track 51 : Lutum_77, Kenna_71
- Track 52 : Leroy_74, Holliday_79, OneDirection_52
- Track 53 : Phabuloso_81
- Track 54 : CheeseTouch_80
- Track 55 : Getalong_78
- Track 56 : Spooky_78
- Track 57 : Crater_73, Horus_75, Phistory_72
- Track 58 : Apricot_73
- Track 59 : Kuwabara_76
- Track 60 : Sixama_7
- Track 61 : GMA2_107
- Track 62 : DonkeyMan_56, Tarzan_58
- Track 63 : Heinz_57
- Track 64 : DLane_48, Mova_53, VRedHorse_52, XFactor_50, PhesterPhotato_54, Hamulus_53, Ardmore_44, Moonbeam_48, Batiatus_50, Melissauren88_50, Emma_52, Royals2015_55, Phalconet_51, MilleniumForce_52, CaptainTrips_49, MinionDave_51, Tweety_52, Madiba_50
- Track 65 : Gandalph_55, Polka14_51
- Track 66 : JoeyJr_73, PHappiness_73, Leperchaun_71, Empress_71, Sassafras_74, Doomphist_76, Poenanya_76, Nimbo_65, Geralt_66, Polka14_77, Deb65_66, RitaG_73, Scottish_71, Daenerys_72, Dorothy_74, KingMidas_72, Inventum_71, RedBird_74, OldBen_70
- Track 67 : Estave1_55, Eish_57
- Track 68 : MadMen_62

- Track 69 : Dante_53, Inventum_47, Demsculpinboyz_62, DaWorst_54, DaddyRickover_52, Sassafras_50
- Track 70 : Seabastian_39, Ochi17_37, Jinglebell_38, OfUltron_39, Yoshi_44, Llama_39, Modragons_38, Oksu_39, AlpineSix_39
- Track 71 : PMC_49, Boomer_57, Rockne_53
- Track 72 : Mozy_62
- Track 73 : Bipolar_49, SuperGrey_52, ShroomBoi_52, KristaRAM_51, Kenuha5_50
- Track 74 : TDanisky_60, Ogotogo_57, Chuckly_55, Phasih_51, Sparkdehlily_60, Aubs_53
- Track 75 : Zerg_52, Che8_55, Firehouse51_53, ArcusAngelus_56, Chevrolet_59, RockyHorror_53, Doug_55
- Track 76 : GigiOuiOui_49, OwlsT2W_53, Doomphist_52, Poenanya_52, Cornucopia_55, DotProduct_48
- Track 77 : Bobi_55, Krakatau_50, Harley_54
- Track 78 : Madiba_63, Minerva_89, Optimus_84, BAKA_91, Mova_66, EricMillard_83, MadMen_50
- Track 79 : QuickMath_66, Kimberlium_67
- Track 80 : Phanphagia_47
- Track 81 : SG4_69, Hegedechwinu_72
- Track 82 : Byougenkin_50
- Track 83 : Donkeykong_53
- Track 84 : Shauna1_47
- Track 85 : PhesterPhotato_75
- Track 86 : Latretium_77
- Track 87 : Job42_55
- Track 88 : Whatsapiecost_53
- Track 89 : Juniper1_50
- Track 90 : Bobi_72
- Track 91 : Enby_53, SG4_49, Lorde_53
- Track 92 : Pollywog_50
- Track 93 : Maravista_54
- Track 94 : JalFarm20_60
- Track 95 : Yoshi_64
- Track 96 : Renaud18_58, Taj_56, Wee_55, DeadP_58
- Track 97 : Renaud18_70
- Track 98 : Renaud18_71
- Track 99 : Bagrid_146, ThreeRngTarjay_140, Halley_147, Pound_137, Optimus_136, DmpstrDiver_146, Ejimix_138, BAKA_145, EricMillard_137, Hughesyang_144, Phoebus_145, Constella_139, Duke13_141, Dallas_146, Schatzie_141
- Track 100 : Dallas_89, Hughesyang_90, DmpstrDiver_90, ThreeRngTarjay_87, Kalah2_84, Yeet_83, Zelink_87, Dove_75, Bagrid_89, Phoebus_92, Schatzie_85, Bombitas_78, NihilNomen_91, Halley_91, Beem_90, JuicyJay_87, Odette_88, Constella_75, HokkenD_79
- Track 101 : Dove_131, NihilNomen_147, HokkenD_138, Yeet_139, Odette_149, Kalah2_136, Redno2_140, JuicyJay_141, Klein_143, Beem_147, KashFlow_144, Bombitas_133
- Track 102 : Courthouse_78, MiaZeal_83, Ariel_82, Lucky2013_80, Porcelain_82, Squint_83
- Track 103 : Wanda_94, Klein_90
- Track 104 : Porcelain_141, MiaZeal_144, Lucky2013_137
- Track 105 : Rando14_64
- Track 106 : Douge_118

- Track 107 : YungJamal_99
- Track 108 : Ryadel_103
- Track 109 : Smooch_99
- Track 110 : MadKillah_103
- Track 111 : Langerak_53, Fishburne_52, FirstPlacePfu_54, Bartholomew_52, Venti_53, Kari_52
- Track 112 : Polkaroo_55
- Track 113 : BigNuz_57
- Track 114 : Nazo_58
- Track 115 : Phayonce_59
- Track 116 : Purky_63
- Track 117 : VasuNzinga_8, Pringar_6, Beelzebub_8, Clarkson_7
- Track 118 : RedRaider77_9
- Track 119 : Gaia_57
- Track 120 : Gaia_56
- Track 121 : Gudmit_51
- Track 122 : VanLee_73
- Track 123 : GMA1_52
- Track 124 : GAL1_58
- Track 125 : TinyDot_48
- Track 126 : VanLee_59

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

The start number called the most often in the published annotations is 79, it was called in 150 of the 366 non-draft genes in the pham.

Genes that call this "Most Annotated" start:

- Aeneas_68, AlpineSix_39, ArcusAngelus_56, Ardmore_44, Aubs_53, BAKA_145, BaconJack_70, Bagrid_146, Bartholomew_52, Batiatus_50, Beem_147, Bethlehem_66, BigNuz_57, Bipolar_49, Bobi_72, Bombitas_133, Boomer_57, CaptainTrips_49, Che8_55, Chevrolet_59, Chuckly_55, Constella_139, Cornucopia_55, DLane_48, Daenerys_72, Dallas_146, DeadP_58, Deb65_66, DmpstrDiver_146, Doomphist_52, Doomphist_76, Dorothy_74, DotProduct_48, Doug_55, Douge_118, Dove_131, Dreamboat_67, Duke13_141, Ejimix_138, Emma_52, Empress_71, Enby_53, EricMillard_137, Firehouse51_53, FirstPlacePfu_54, Fishburne_52, Gaia_56, Gaia_57, Gandalph_55, Geralt_66, GigiOuiOui_49, Halley_147, Hamulus_53, Hawkeye_97, Hegedechwinu_72, HokkenD_138, Hughesyang_144, Inventum_71, JalFarm20_60, Jasper_66, Jinglebell_38, Job42_55, JoeyJr_73, JuicyJay_141, Kalah2_136, Kari_52, KashFlow_144, Kenuha5_50, Kimberlium_67, KingMidas_72, Klein_143, KristaRAM_51, Langerak_53, Leperchaun_71, Llama_39, Lorde_53, Lucky2013_137, Madiba_50, Marsha_65, Melissauren88_50, MiaZeal_144, MilleniumForce_52, MinionDave_51, Modragons_38, Moonbeam_48, Mova_53, Mule_62, Nazo_58, NihilNomen_147, Nimbo_65, Ochi17_37, Odette_149, OfUltron_39, Ogotogo_57, Oksu_39, OldBen_70, Optimus_136, OwlsT2W_53, PHappiness_73, PMC_49, Phalconet_51, Phanphagia_47, Phasih_51, Phayonce_59, PherrisBueller_66, PhesterPotato_54, PhesterPotato_75, Phoebus_145, PhrostyMug_65, Poenanya_52, Poenanya_76, Polka14_51, Polka14_77, Polkaroo_55, Pollywog_50, Porcelain_141, Pound_137, QuickMath_66, RedBird_74, Redno2_140,

Renaud18_58, Renaud18_70, Renaud18_71, RitaG_73, Rockne_53, RockyHorror_53, Royals2015_55, SG4_49, SG4_69, Sassafras_74, Schatzie_141, Scottish_71, Seabastian_39, ShroomBoi_52, Smairt_67, Sparkdehlily_60, Sunshine924_70, SuperGrey_52, TDanisky_60, Taj_56, ThreeRngTarjay_140, Tonenili_50, Trine_55, Tweety_52, VRedHorse_52, VanLee_59, VanLee_73, Venti_53, Wee_55, Whatsapiecost_53, WilliamBoone_96, William_80, XFactor_50, Yeet_139, Yoshi_44, Zerg_52,

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

- Banjo_52, Bobi_55, Brilliant_55, CamL_53, Cannibal_53, Childish_53, Chorkpop_53, Cosmolli16_54, Craff_56, DaddyDaniels_55, Daffy_53, Fozzie_52, Fringe_57, Giraffe_54, Grand2040_53, Haleema_52, Harley_54, Held_53, HenryJackson_53, Hertubise_53, HighStump_55, Kahve_53, Krakatau_50, Kwadwo_52, Lasso_53, LeeLot_53, Legolas_55, Longacauda_54, Lumine_54, Mana_52, Maru_53, Mesh1_54, MitKao_53, Morgushi_53, Mosaic_52, Nicole21_54, Oosterbaan_53, Potter_52, Puhltonio_53, QueenBeane_53, Samaymay_53, SassyCat97_52, Serendipity_53, Soile_54, Solosis_52, Sophia_52, Squid_53, Surely_53, TallGrassMM_53, Thora_53, Timmi_52, TomBombadil_53, Vortex_53, Xavier_52, Zelda_53,

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

- Abinghost_51, Akoma_51, Apricot_73, Ariel_82, Asapag_74, Athena_52, Audrey_51, Azula_77, BAKA_91, BĒNtherdunthat_78, Bagrid_89, Baloo_51, BearBQ_75, Beelzebub_8, Beem_90, Beenie_54, Bigfoot_58, Birdsong_73, Blue_65, Blueberry_76, Bombitas_78, Budski_68, Budski_80, Byougenkin_50, CactusRose_66, Carlyle_66, Casbah_51, ChaChing_51, Chandler_51, CheeseTouch_80, Clark_59, Clarkson_7, Constella_75, Corofin_51, Courthouse_78, Crater_73, DTDevon_6, DaWorst_54, DaddyRickover_52, Daisy_51, Dallas_89, Dandelion_5, Dante_53, Demsculpinboyz_62, Denise_57, DmpstrDiver_90, DobbysSock_53, DonkeyMan_56, Donkeykong_53, Dove_75, Drazdys_6, Ecliptus_80, Eish_57, EricMillard_83, Estave1_55, Faith5x5_53, Fascinus_60, FrayBell_6, Frickyeah_80, GAL1_58, GMA1_52, GMA2_107, Gambino_79, Gervas_52, Getalong_78, GlenHope_52, Graduation_70, Gudmit_51, Gumball_84, Halfpint_50, Halley_91, Heinz_57, Helpful_87, HokkenD_79, Holliday_79, Horus_75, Hughesyang_90, InterFolia_6, Inventum_47, JayJay_5, JigglyPuff_5, Jorgensen_69, JuicyJay_87, Juniper1_50, Kalah2_84, Kamaru_71, Kamiyu_51, KandZ_82, Kenna_71, Klein_90, Kronus_51, Kuwabara_76, Latretium_77, Leroy_74, LinStu_6, LitninMcQueen_77, LolaVinca_6, LordLeafolot_6, Lton_54, Lucky10_55, Lucky2013_80, Lutum_77, MadKillah_103, MadMen_50, MadMen_62, Madiba_63, Makemake_71, Maravista_54, Maroc7_64, MiaZeal_83, Minerva_89, MissRona_77, MmasiCarm_52, Moosehead_58, Morkie_59, Mortcellus_51, Mova_66, Mozy_62, Nappy_5, Neos5_51, NihilNomen_91, Nozo_51, NuevoMundo_6, ODay_82, Obutu_52, Odette_88, OneDirection_52, Optimus_84, OrangeOswald_51, Paraselene_66, Periwinkle_62, Periwinkle_85, Phabuloso_81, Phayeta_53, Philly_50, Phistory_72, Phlyer_51, Phoebus_92, PhorbesPhlower_55, Pier_6, Porcelain_82, Pringar_6, Purky_63, Rando14_64, RedRaider77_9, Rita1961_52, Ryadel_103, Samman98_60, Sassafras_50, Schatzie_85, Sebata_6, Shauna1_47, SirHarley_86, Sixama_7, Smooch_99, Specks_6, Spooky_78, Squint_83, StephanieG_6, SynergyX_51, Tainan_6, Tarzan_58, ThreeRngTarjay_87, TinyDot_48, Tonenili_49, Troll4_84, Tyke_6, VasuNzinga_8, Wanda_94, Whitney_75, Yeet_83, Yoshi_64, YungJamal_99, Zelink_87,

Summary by start number:

Start 47:

- Found in 1 of 385 (0.3%) of genes in pham
- Manual Annotations of this start: 1 of 366
- Called 100.0% of time when present
- Phage (with cluster) where this start called: Denise_57 (CZ5),

Start 54:

- Found in 4 of 385 (1.0%) of genes in pham
- Manual Annotations of this start: 2 of 366
- Called 100.0% of time when present
- Phage (with cluster) where this start called: DonkeyMan_56 (DY), Heinz_57 (DY), Rando14_64 (K5), Tarzan_58 (DY),

Start 59:

- Found in 8 of 385 (2.1%) of genes in pham
- Manual Annotations of this start: 1 of 366
- Called 12.5% of time when present
- Phage (with cluster) where this start called: Byougenkin_50 (F1),

Start 69:

- Found in 5 of 385 (1.3%) of genes in pham
- Manual Annotations of this start: 1 of 366
- Called 20.0% of time when present
- Phage (with cluster) where this start called: Sixama_7 (DS),

Start 70:

- Found in 28 of 385 (7.3%) of genes in pham
- Manual Annotations of this start: 5 of 366
- Called 17.9% of time when present
- Phage (with cluster) where this start called: Apricot_73 (DN3), CheeseTouch_80 (DN1), Crater_73 (DN3), Horus_75 (DN1), Phistory_72 (DN1),

Start 73:

- Found in 1 of 385 (0.3%) of genes in pham
- Manual Annotations of this start: 1 of 366
- Called 100.0% of time when present
- Phage (with cluster) where this start called: Jorgensen_69 (A1),

Start 74:

- Found in 81 of 385 (21.0%) of genes in pham
- Manual Annotations of this start: 20 of 366
- Called 25.9% of time when present
- Phage (with cluster) where this start called: Asapag_74 (DN1), BENtherdunthat_78 (DN1), BearBQ_75 (DN), Birdsong_73 (DN), Budski_80 (DN), Ecliptus_80 (DN), Frickyeah_80 (DN1), Getalong_78 (DN1), Holliday_79 (DN1), Kamaru_71 (DN1), Kenna_71 (DN1), Kuwabara_76 (DN4), Leroy_74 (DN1), LitninMcQueen_77 (DN1), Lton_54 (CZ), Lucky10_55 (DH), Lutum_77 (DN1), ODay_82 (DN), OneDirection_52 (CZ6), Phabuloso_81 (DN1), Whitney_75 (DN1),

Start 75:

- Found in 9 of 385 (2.3%) of genes in pham
- Manual Annotations of this start: 6 of 366

- Called 100.0% of time when present
- Phage (with cluster) where this start called: Clark_59 (CZ4), DobbysSock_53 (CZ4), GAL1_58 (singleton), GMA1_52 (singleton), GMA2_107 (DS), Gudmit_51 (singleton), Periwinkle_62 (DN1), Samman98_60 (CZ4), Spooky_78 (DN2),

Start 76:

- Found in 84 of 385 (21.8%) of genes in pham
- Manual Annotations of this start: 81 of 366
- Called 98.8% of time when present
- Phage (with cluster) where this start called: Abingghost_51 (B3), Akoma_51 (B3), Ariel_82 (J), Athena_52 (B3), Audrey_51 (B3), BAKA_91 (J), Bagrid_89 (J), Baloo_51 (B3), Beelzebub_8 (S), Beem_90 (J), Beenie_54 (CZ4), Bigfoot_58 (A1), Blue_65 (A1), Bombitas_78 (J), CactusRose_66 (A1), Carlyle_66 (A1), Casbah_51 (B3), ChaChing_51 (B3), Chandler_51 (B3), Clarkson_7 (S), Constella_75 (J), Corofin_51 (B3), Courthouse_78 (J), Daisy_51 (B3), Dallas_89 (J), DmpstrDiver_90 (J), Donkeykong_53 (F1), Dove_75 (J), Eish_57 (F1), EricMillard_83 (J), Estave1_55 (F1), Fascinus_60 (A1), Gervas_52 (B3), GlenHope_52 (B3), Graduation_70 (A1), Halfpint_50 (B3), Halley_91 (J), HokkenD_79 (J), Hughesyang_90 (J), JuicyJay_87 (J), Juniper1_50 (F1), Kalah2_84 (J), Kamiyu_51 (B3), Klein_90 (J), Kronus_51 (B3), Lucky2013_80 (J), MadMen_50 (F1), Madiba_63 (F1), Makemake_71 (A1), Maravista_54 (F1), Maroc7_64 (A1), MiaZeal_83 (J), Minerva_89 (J), MmasiCarm_52 (B3), Moosehead_58 (CZ6), Morkie_59 (DH), Mortcellus_51 (B3), Mova_66 (F1), Neos5_51 (B3), NihilNomen_91 (J), Nozo_51 (B3), Obutu_52 (B3), Odette_88 (J), Optimus_84 (J), OrangeOswald_51 (B3), Paraselene_66 (A1), Phayeta_53 (B3), Philly_50 (B3), Phlyer_51 (B3), Phoebus_92 (J), PhorbesPhlower_55 (DH), Porcelain_82 (J), Pringar_6 (S), Rita1961_52 (B3), Schatzie_85 (J), Shauna1_47 (F1), Squint_83 (J), SynergyX_51 (B3), ThreeRngTarjay_87 (J), VasuNzinga_8 (S), Wanda_94 (J), Yeet_83 (J), Zelink_87 (J),

Start 77:

- Found in 9 of 385 (2.3%) of genes in pham
- Manual Annotations of this start: 7 of 366
- Called 88.9% of time when present
- Phage (with cluster) where this start called: DaWorst_54 (F1), DaddyRickover_52 (F1), Dante_53 (F1), Demsculpinboyz_62 (F2), Inventum_47 (F1), Mozy_62 (F1), Sassafras_50 (F1), Tonenili_49 (C1),

Start 78:

- Found in 6 of 385 (1.6%) of genes in pham
- Manual Annotations of this start: 6 of 366
- Called 100.0% of time when present
- Phage (with cluster) where this start called: Gumball_84 (D1), Helpful_87 (D1), KandZ_82 (D1), SirHarley_86 (D1), Troll4_84 (D1), Yoshi_64 (F2),

Start 79:

- Found in 211 of 385 (54.8%) of genes in pham
- Manual Annotations of this start: 150 of 366
- Called 73.9% of time when present
- Phage (with cluster) where this start called: Aeneas_68 (A1), AlpineSix_39 (F1), ArcusAngelus_56 (F1), Ardmore_44 (F1), Aubs_53 (F1), BAKA_145 (J), BaconJack_70 (A1), Bagrid_146 (J), Bartholomew_52 (P1), Batiatus_50 (F1), Beem_147 (J), Bethlehem_66 (A1), BigNuz_57 (P4), Bipolar_49 (F1), Bobi_72 (F1), Bombitas_133 (J), Boomer_57 (F1), CaptainTrips_49 (F1), Che8_55 (F1),

Chevrolet_59 (F1), Chuckly_55 (F1), Constella_139 (J), Cornucopia_55 (F1), DLane_48 (F1), Daenerys_72 (F1), Dallas_146 (J), DeadP_58 (F1), Deb65_66 (F1), DmpstrDiver_146 (J), Doomphist_52 (F1), Doomphist_76 (F1), Dorothy_74 (F1), DotProduct_48 (F1), Doug_55 (F1), Douge_118 (L4), Dove_131 (J), Dreamboat_67 (A1), Duke13_141 (J), Ejimix_138 (J), Emma_52 (F1), Empress_71 (F1), Enby_53 (F1), EricMillard_137 (J), Firehouse51_53 (F1), FirstPlacePfu_54 (P1), Fishburne_52 (P1), Gaia_56 (X), Gaia_57 (X), Gandolph_55 (F1), Geralt_66 (F1), GigiOuiOui_49 (F1), Halley_147 (J), Hamulus_53 (F1), Hawkeye_97 (D2), Hegedechwinu_72 (F1), HokkenD_138 (J), Hughesyang_144 (J), Inventum_71 (F1), JalFarm20_60 (F1), Jasper_66 (A1), Jinglebell_38 (F1), Job42_55 (F1), JoeyJr_73 (F1), JuicyJay_141 (J), Kalah2_136 (J), Kari_52 (P1), KashFlow_144 (J), Kenuha5_50 (F1), Kimberlium_67 (F1), KingMidas_72 (F1), Klein_143 (J), KristaRAM_51 (F1), Langerak_53 (P1), Leperchaun_71 (F1), Llama_39 (F1), Lorde_53 (F1), Lucky2013_137 (J), Madiba_50 (F1), Marsha_65 (A1), Melissauren88_50 (F1), MiaZeal_144 (J), MilleniumForce_52 (F1), MinionDave_51 (F1), Modragons_38 (F1), Moonbeam_48 (F1), Mova_53 (F1), Mule_62 (A1), Nazo_58 (P4), NihilNomen_147 (J), Nimbo_65 (F1), Ochi17_37 (F1), Odette_149 (J), OfUltron_39 (F1), Ogopogo_57 (F1), Oksu_39 (F1), OldBen_70 (F1), Optimus_136 (J), OwlsT2W_53 (F1), PHappiness_73 (F1), PMC_49 (F1), Phalconet_51 (F1), Phanphagia_47 (F1), Phasih_51 (F1), Phayonce_59 (P5), PherrisBueller_66 (A1), PhesterPhotato_54 (F1), PhesterPhotato_75 (F1), Phoebus_145 (J), PhrostyMug_65 (A1), Poenanya_52 (F1), Poenanya_76 (F1), Polka14_51 (F1), Polka14_77 (F1), Polkaroo_55 (P1), Pollywog_50 (F1), Porcelain_141 (J), Pound_137 (J), QuickMath_66 (F1), RedBird_74 (F1), Redno2_140 (J), Renaud18_58 (F4), Renaud18_70 (F4), Renaud18_71 (F4), RitaG_73 (F1), Rockne_53 (F1), RockyHorror_53 (F1), Royals2015_55 (F1), SG4_49 (F1), SG4_69 (F1), Sassafra_74 (F1), Schatzie_141 (J), Scottish_71 (F1), Seabastian_39 (F1), ShroomBoi_52 (F1), Smairt_67 (A1), Sparkdehlily_60 (F1), Sunshine924_70 (A1), SuperGrey_52 (F1), TDanisky_60 (F1), Taj_56 (F1), ThreeRngTarjay_140 (J), Tonenili_50 (C1), Trine_55 (CD), Tweety_52 (F1), VRedHorse_52 (F1), VanLee_59 (singleton), VanLee_73 (singleton), Venti_53 (P1), Wee_55 (F1), Whatsapiecost_53 (F1), WilliamBoone_96 (CQ1), William_80 (CV), XFactor_50 (F1), Yeet_139 (J), Yoshi_44 (F2), Zerg_52 (F1),

Start 80:

- Found in 2 of 385 (0.5%) of genes in pham
- Manual Annotations of this start: 2 of 366
- Called 100.0% of time when present
- Phage (with cluster) where this start called: Budski_68 (DN), Purky_63 (P6),

Start 82:

- Found in 4 of 385 (1.0%) of genes in pham
- Manual Annotations of this start: 4 of 366
- Called 100.0% of time when present
- Phage (with cluster) where this start called: Azula_77 (CV), Blueberry_76 (CV), Gambino_79 (CV), MissRona_77 (CV),

Start 90:

- Found in 18 of 385 (4.7%) of genes in pham
- Manual Annotations of this start: 2 of 366
- Called 16.7% of time when present
- Phage (with cluster) where this start called: JayJay_5 (C1), LolaVinca_6 (C1), NuevoMundo_6 (C1),

Start 92:

- Found in 28 of 385 (7.3%) of genes in pham
- Manual Annotations of this start: 3 of 366
- Called 10.7% of time when present
- Phage (with cluster) where this start called: Bobi_55 (F1), Harley_54 (F1), Krakatau_50 (F1),

Start 93:

- Found in 6 of 385 (1.6%) of genes in pham
- Manual Annotations of this start: 2 of 366
- Called 33.3% of time when present
- Phage (with cluster) where this start called: RedRaider77_9 (S), Smooch_99 (O),

Start 96:

- Found in 70 of 385 (18.2%) of genes in pham
- Manual Annotations of this start: 62 of 366
- Called 88.6% of time when present
- Phage (with cluster) where this start called: Banjo_52 (B1), Brilliant_55 (B1), CamL_53 (B1), Cannibal_53 (B1), Childish_53 (B1), Chorkpop_53 (B1), Cosmolli16_54 (B1), Craff_56 (B1), DTDevon_6 (C1), DaddyDaniels_55 (B1), Daffy_53 (B1), Dandelion_5 (C1), Drazdys_6 (C1), Fozzie_52 (B1), FrayBell_6 (C1), Fringe_57 (B1), Giraffe_54 (B1), Grand2040_53 (B1), Haleema_52 (B1), Held_53 (B1), HenryJackson_53 (B1), Hertubise_53 (B1), HighStump_55 (B1), Kahve_53 (B1), Kwadwo_52 (B1), Lasso_53 (B1), LeeLot_53 (B1), Legolas_55 (B1), LinStu_6 (C1), Longacauda_54 (B1), Lumine_54 (B1), Mana_52 (B1), Maru_53 (B1), Mesh1_54 (B1), MitKao_53 (B1), Morgushi_53 (B1), Mosaic_52 (B1), Nappy_5 (C1), Nicole21_54 (B1), Oosterbaan_53 (B1), Pier_6 (C1), Potter_52 (B1), Puhltonio_53 (B1), QueenBeane_53 (B1), Samaymay_53 (B1), SassyCat97_52 (B1), Sebata_6 (C1), Serendipity_53 (B1), Soile_54 (B1), Solosis_52 (B1), Sophia_52 (B1), Specks_6 (C1), Squid_53 (B1), Surely_53 (B1), TallGrassMM_53 (B1), Thora_53 (B1), Timmi_52 (B1), TomBombadil_53 (B1), Tyke_6 (C1), Vortex_53 (B1), Xavier_52 (B1), Zelda_53 (B1),

Start 97:

- Found in 9 of 385 (2.3%) of genes in pham
- Manual Annotations of this start: 1 of 366
- Called 11.1% of time when present
- Phage (with cluster) where this start called: Faith5x5_53 (CZ6),

Start 99:

- Found in 2 of 385 (0.5%) of genes in pham
- Manual Annotations of this start: 2 of 366
- Called 100.0% of time when present
- Phage (with cluster) where this start called: Periwinkle_85 (DN1), TinyDot_48 (singleton),

Start 109:

- Found in 1 of 385 (0.3%) of genes in pham
- Manual Annotations of this start: 1 of 366
- Called 100.0% of time when present
- Phage (with cluster) where this start called: MadKillah_103 (O),

Start 111:

- Found in 21 of 385 (5.5%) of genes in pham
- Manual Annotations of this start: 5 of 366
- Called 33.3% of time when present
- Phage (with cluster) where this start called: InterFolia_6 (C1), Latretium_77 (F1), LordLeafolot_6 (C1), MadMen_62 (F1), Ryadel_103 (O), Tainan_6 (C1), YungJamal_99 (O),

Start 116:

- Found in 15 of 385 (3.9%) of genes in pham
- Manual Annotations of this start: 1 of 366
- Called 13.3% of time when present
- Phage (with cluster) where this start called: JigglyPuff_5 (C1), StephanieG_6 (C1),

Summary by clusters:

There are 35 clusters represented in this pham: DN, singleton, CQ1, DH, CZ6, CZ4, CZ5, K5, DY, DS, A1, DN4, DN1, DN3, DN2, C1, P1, P6, P4, P5, J, O, CD, CZ, S, X, CV, F1, F2, F4, L4, B1, B3, D2, D1,

Info for manual annotations of cluster A1:

- Start number 73 was manually annotated 1 time for cluster A1.
- Start number 76 was manually annotated 9 times for cluster A1.
- Start number 79 was manually annotated 11 times for cluster A1.

Info for manual annotations of cluster B1:

- Start number 96 was manually annotated 52 times for cluster B1.

Info for manual annotations of cluster B3:

- Start number 76 was manually annotated 26 times for cluster B3.

Info for manual annotations of cluster C1:

- Start number 77 was manually annotated 1 time for cluster C1.
- Start number 79 was manually annotated 1 time for cluster C1.
- Start number 90 was manually annotated 2 times for cluster C1.
- Start number 96 was manually annotated 10 times for cluster C1.
- Start number 111 was manually annotated 1 time for cluster C1.
- Start number 116 was manually annotated 1 time for cluster C1.

Info for manual annotations of cluster CD:

- Start number 79 was manually annotated 1 time for cluster CD.

Info for manual annotations of cluster CQ1:

- Start number 79 was manually annotated 1 time for cluster CQ1.

Info for manual annotations of cluster CV:

- Start number 79 was manually annotated 1 time for cluster CV.
- Start number 82 was manually annotated 4 times for cluster CV.

Info for manual annotations of cluster CZ:

- Start number 74 was manually annotated 1 time for cluster CZ.

Info for manual annotations of cluster CZ4:

- Start number 75 was manually annotated 3 times for cluster CZ4.

- Start number 76 was manually annotated 1 time for cluster CZ4.

Info for manual annotations of cluster CZ5:

- Start number 47 was manually annotated 1 time for cluster CZ5.

Info for manual annotations of cluster CZ6:

- Start number 74 was manually annotated 1 time for cluster CZ6.
- Start number 76 was manually annotated 1 time for cluster CZ6.
- Start number 97 was manually annotated 1 time for cluster CZ6.

Info for manual annotations of cluster D1:

- Start number 78 was manually annotated 5 times for cluster D1.

Info for manual annotations of cluster D2:

- Start number 79 was manually annotated 1 time for cluster D2.

Info for manual annotations of cluster DH:

- Start number 74 was manually annotated 1 time for cluster DH.
- Start number 76 was manually annotated 2 times for cluster DH.

Info for manual annotations of cluster DN:

- Start number 74 was manually annotated 5 times for cluster DN.
- Start number 80 was manually annotated 1 time for cluster DN.

Info for manual annotations of cluster DN1:

- Start number 70 was manually annotated 3 times for cluster DN1.
- Start number 74 was manually annotated 11 times for cluster DN1.
- Start number 75 was manually annotated 1 time for cluster DN1.
- Start number 99 was manually annotated 1 time for cluster DN1.

Info for manual annotations of cluster DN2:

- Start number 75 was manually annotated 1 time for cluster DN2.

Info for manual annotations of cluster DN3:

- Start number 70 was manually annotated 2 times for cluster DN3.

Info for manual annotations of cluster DN4:

- Start number 74 was manually annotated 1 time for cluster DN4.

Info for manual annotations of cluster DS:

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

Info for manual annotations of cluster DY:

- Start number 54 was manually annotated 1 time for cluster DY.

Info for manual annotations of cluster F1:

- Start number 59 was manually annotated 1 time for cluster F1.
- Start number 76 was manually annotated 9 times for cluster F1.
- Start number 77 was manually annotated 5 times for cluster F1.
- Start number 79 was manually annotated 89 times for cluster F1.
- Start number 92 was manually annotated 3 times for cluster F1.
- Start number 111 was manually annotated 2 times for cluster F1.

Info for manual annotations of cluster F2:

- Start number 77 was manually annotated 1 time for cluster F2.
- Start number 78 was manually annotated 1 time for cluster F2.
- Start number 79 was manually annotated 1 time for cluster F2.

Info for manual annotations of cluster F4:

- Start number 79 was manually annotated 3 times for cluster F4.

Info for manual annotations of cluster J:

- Start number 76 was manually annotated 29 times for cluster J.
- Start number 79 was manually annotated 28 times for cluster J.

Info for manual annotations of cluster K5:

- Start number 54 was manually annotated 1 time for cluster K5.

Info for manual annotations of cluster L4:

- Start number 79 was manually annotated 1 time for cluster L4.

Info for manual annotations of cluster O:

- Start number 93 was manually annotated 1 time for cluster O.
- Start number 109 was manually annotated 1 time for cluster O.
- Start number 111 was manually annotated 2 times for cluster O.

Info for manual annotations of cluster P1:

- Start number 79 was manually annotated 5 times for cluster P1.

Info for manual annotations of cluster P4:

- Start number 79 was manually annotated 2 times for cluster P4.

Info for manual annotations of cluster P5:

- Start number 79 was manually annotated 1 time for cluster P5.

Info for manual annotations of cluster P6:

- Start number 80 was manually annotated 1 time for cluster P6.

Info for manual annotations of cluster S:

- Start number 76 was manually annotated 4 times for cluster S.
- Start number 93 was manually annotated 1 time for cluster S.

Info for manual annotations of cluster X:

- Start number 79 was manually annotated 2 times for cluster X.

Gene Information:

Gene: Abinghost_51 Start: 45404, Stop: 45135, Start Num: 76

Candidate Starts for Abinghost_51:

(Start: 76 @45404 has 81 MA's), (102, 45350), (140, 45302),

Gene: Aeneas_68 Start: 44278, Stop: 44033, Start Num: 79

Candidate Starts for Aeneas_68:

(Start: 79 @44278 has 150 MA's), (98, 44236), (107, 44224), (120, 44221), (140, 44182), (144, 44164),

Gene: Akoma_51 Start: 45415, Stop: 45146, Start Num: 76
Candidate Starts for Akoma_51:
(Start: 76 @45415 has 81 MA's), (102, 45361), (140, 45313),

Gene: AlpineSix_39 Start: 31200, Stop: 31009, Start Num: 79
Candidate Starts for AlpineSix_39:
(Start: 79 @31200 has 150 MA's), (145, 31110),

Gene: Apricot_73 Start: 42951, Stop: 43250, Start Num: 70
Candidate Starts for Apricot_73:
(27, 42846), (46, 42906), (Start: 70 @42951 has 5 MA's), (105, 43029), (139, 43095), (141, 43107),

Gene: ArcusAngelus_56 Start: 38441, Stop: 38683, Start Num: 79
Candidate Starts for ArcusAngelus_56:
(62, 38411), (Start: 79 @38441 has 150 MA's), (140, 38552),

Gene: Ardmore_44 Start: 35217, Stop: 35447, Start Num: 79
Candidate Starts for Ardmore_44:
(62, 35187), (Start: 79 @35217 has 150 MA's), (Start: 92 @35253 has 3 MA's), (139, 35313), (140, 35316),

Gene: Ariel_82 Start: 49253, Stop: 48984, Start Num: 76
Candidate Starts for Ariel_82:
(Start: 76 @49253 has 81 MA's), (102, 49199), (140, 49151),

Gene: Asapag_74 Start: 43606, Stop: 43938, Start Num: 74
Candidate Starts for Asapag_74:
(58, 43579), (Start: 70 @43597 has 5 MA's), (Start: 74 @43606 has 20 MA's), (174, 43819),

Gene: Athena_52 Start: 46162, Stop: 45893, Start Num: 76
Candidate Starts for Athena_52:
(Start: 76 @46162 has 81 MA's), (102, 46108), (140, 46060),

Gene: Aubs_53 Start: 37222, Stop: 37464, Start Num: 79
Candidate Starts for Aubs_53:
(Start: 74 @37216 has 20 MA's), (Start: 79 @37222 has 150 MA's), (140, 37333),

Gene: Audrey_51 Start: 45410, Stop: 45141, Start Num: 76
Candidate Starts for Audrey_51:
(Start: 76 @45410 has 81 MA's), (102, 45356), (140, 45308),

Gene: Azula_77 Start: 48141, Stop: 48380, Start Num: 82
Candidate Starts for Azula_77:
(1, 47394), (2, 47400), (3, 47406), (4, 47451), (14, 47889), (17, 47916), (21, 47979), (25, 48003), (48, 48078), (51, 48087), (Start: 82 @48141 has 4 MA's), (89, 48168), (179, 48306), (185, 48327), (195, 48375),

Gene: BAKA_145 Start: 76447, Stop: 76692, Start Num: 79
Candidate Starts for BAKA_145:
(25, 76312), (48, 76387), (55, 76402), (Start: 79 @76447 has 150 MA's), (129, 76519), (135, 76522),

Gene: BAKA_91 Start: 56921, Stop: 57199, Start Num: 76
Candidate Starts for BAKA_91:
(72, 56915), (Start: 76 @56921 has 81 MA's), (140, 57032),

Gene: BENtherdunthat_78 Start: 44652, Stop: 44984, Start Num: 74
Candidate Starts for BENtherdunthat_78:
(58, 44625), (Start: 70 @44643 has 5 MA's), (Start: 74 @44652 has 20 MA's), (174, 44865),

Gene: BaconJack_70 Start: 45368, Stop: 45123, Start Num: 79
Candidate Starts for BaconJack_70:
(Start: 79 @45368 has 150 MA's), (98, 45326), (107, 45314), (120, 45311), (140, 45272), (144, 45254),

Gene: Bagrid_146 Start: 77142, Stop: 77387, Start Num: 79
Candidate Starts for Bagrid_146:
(25, 77007), (48, 77082), (55, 77097), (Start: 79 @77142 has 150 MA's), (129, 77214), (135, 77217),

Gene: Bagrid_89 Start: 55770, Stop: 56066, Start Num: 76
Candidate Starts for Bagrid_89:
(Start: 76 @55770 has 81 MA's), (112, 55848), (135, 55875), (140, 55899),

Gene: Baloo_51 Start: 45413, Stop: 45144, Start Num: 76
Candidate Starts for Baloo_51:
(Start: 76 @45413 has 81 MA's), (102, 45359), (140, 45311),

Gene: Banjo_52 Start: 47062, Stop: 46769, Start Num: 96
Candidate Starts for Banjo_52:
(30, 47221), (49, 47164), (63, 47137), (Start: 74 @47116 has 20 MA's), (Start: 79 @47110 has 150 MA's), (Start: 96 @47062 has 62 MA's), (107, 47038), (132, 46990), (135, 46984), (140, 46960),

Gene: Bartholomew_52 Start: 36036, Stop: 36263, Start Num: 79
Candidate Starts for Bartholomew_52:
(41, 35973), (Start: 79 @36036 has 150 MA's), (141, 36135),

Gene: Batiatus_50 Start: 37046, Stop: 37276, Start Num: 79
Candidate Starts for Batiatus_50:
(62, 37016), (Start: 79 @37046 has 150 MA's), (Start: 92 @37082 has 3 MA's), (139, 37142), (140, 37145),

Gene: BearBQ_75 Start: 45677, Stop: 45961, Start Num: 74
Candidate Starts for BearBQ_75:
(39, 45602), (68, 45665), (Start: 70 @45668 has 5 MA's), (Start: 74 @45677 has 20 MA's), (105, 45743), (139, 45809), (141, 45821),

Gene: Beelzebub_8 Start: 2535, Stop: 2807, Start Num: 76
Candidate Starts for Beelzebub_8:
(Start: 76 @2535 has 81 MA's), (113, 2598), (140, 2640),

Gene: Beem_90 Start: 56631, Stop: 56927, Start Num: 76
Candidate Starts for Beem_90:
(Start: 76 @56631 has 81 MA's), (112, 56709), (135, 56736), (140, 56760),

Gene: Beem_147 Start: 78045, Stop: 78290, Start Num: 79
Candidate Starts for Beem_147:
(25, 77910), (55, 78000), (Start: 79 @78045 has 150 MA's), (129, 78117), (135, 78120),

Gene: Beenie_54 Start: 39845, Stop: 40141, Start Num: 76
Candidate Starts for Beenie_54:
(15, 39605), (16, 39608), (Start: 76 @39845 has 81 MA's), (Start: 97 @39893 has 1 MA's), (104, 39911), (156, 40007), (166, 40025), (177, 40049), (191, 40085), (194, 40097),

Gene: Bethlehem_66 Start: 44024, Stop: 43779, Start Num: 79
Candidate Starts for Bethlehem_66:
(Start: 79 @44024 has 150 MA's), (139, 43916),

Gene: BigNuz_57 Start: 39875, Stop: 40117, Start Num: 79
Candidate Starts for BigNuz_57:
(41, 39812), (Start: 79 @39875 has 150 MA's), (100, 39920), (123, 39941), (138, 39965), (189, 40085),

Gene: Bigfoot_58 Start: 41545, Stop: 41276, Start Num: 76
Candidate Starts for Bigfoot_58:
(Start: 76 @41545 has 81 MA's), (102, 41491), (140, 41443),

Gene: Bipolar_49 Start: 36854, Stop: 37099, Start Num: 79
Candidate Starts for Bipolar_49:
(38, 36770), (46, 36788), (65, 36830), (Start: 79 @36854 has 150 MA's), (140, 36965),

Gene: Birdsong_73 Start: 43342, Stop: 43674, Start Num: 74
Candidate Starts for Birdsong_73:
(58, 43315), (Start: 70 @43333 has 5 MA's), (Start: 74 @43342 has 20 MA's), (174, 43555),

Gene: Blue_65 Start: 43245, Stop: 42976, Start Num: 76
Candidate Starts for Blue_65:
(Start: 76 @43245 has 81 MA's), (102, 43191), (140, 43143),

Gene: Blueberry_76 Start: 48141, Stop: 48380, Start Num: 82
Candidate Starts for Blueberry_76:
(1, 47394), (2, 47400), (3, 47406), (4, 47451), (14, 47889), (17, 47916), (21, 47979), (25, 48003), (48, 48078), (51, 48087), (Start: 82 @48141 has 4 MA's), (89, 48168), (179, 48306), (185, 48327), (195, 48375),

Gene: Bobi_55 Start: 38256, Stop: 38450, Start Num: 92
Candidate Starts for Bobi_55:
(62, 38190), (Start: 79 @38220 has 150 MA's), (Start: 92 @38256 has 3 MA's), (139, 38316), (140, 38319),

Gene: Bobi_72 Start: 44458, Stop: 44685, Start Num: 79
Candidate Starts for Bobi_72:
(24, 44317), (41, 44383), (Start: 79 @44458 has 150 MA's), (141, 44557),

Gene: Bombitas_78 Start: 53794, Stop: 54090, Start Num: 76
Candidate Starts for Bombitas_78:
(Start: 76 @53794 has 81 MA's), (112, 53872), (135, 53899), (140, 53923),

Gene: Bombitas_133 Start: 75456, Stop: 75701, Start Num: 79
Candidate Starts for Bombitas_133:
(25, 75321), (55, 75411), (Start: 79 @75456 has 150 MA's), (129, 75528), (135, 75531),

Gene: Boomer_57 Start: 38978, Stop: 39235, Start Num: 79
Candidate Starts for Boomer_57:
(29, 38864), (33, 38876), (45, 38912), (Start: 70 @38963 has 5 MA's), (Start: 79 @38978 has 150 MA's), (140, 39089), (148, 39119),

Gene: Brilliant_55 Start: 47604, Stop: 47335, Start Num: 96
Candidate Starts for Brilliant_55:
(30, 47763), (49, 47706), (63, 47679), (Start: 74 @47658 has 20 MA's), (Start: 79 @47652 has 150 MA's), (Start: 96 @47604 has 62 MA's), (107, 47580), (132, 47532), (135, 47526), (140, 47502), (195, 47346),

Gene: Budski_80 Start: 45490, Stop: 45795, Start Num: 74
Candidate Starts for Budski_80:
(58, 45463), (Start: 70 @45481 has 5 MA's), (Start: 74 @45490 has 20 MA's), (103, 45553), (105, 45556), (127, 45589), (139, 45622), (167, 45685), (175, 45703),

Gene: Budski_68 Start: 41006, Stop: 41320, Start Num: 80
Candidate Starts for Budski_68:
(5, 40640), (7, 40646), (10, 40685), (18, 40799), (40, 40925), (Start: 80 @41006 has 2 MA's), (95, 41048), (Start: 97 @41051 has 1 MA's), (115, 41087), (137, 41138), (146, 41174), (169, 41216), (183, 41249), (190, 41285),

Gene: Byougenkin_50 Start: 36870, Stop: 37133, Start Num: 59
Candidate Starts for Byougenkin_50:
(Start: 59 @36870 has 1 MA's), (Start: 77 @36900 has 7 MA's), (86, 36924), (117, 36966), (136, 36981), (139, 36999), (140, 37002),

Gene: CactusRose_66 Start: 42565, Stop: 42296, Start Num: 76
Candidate Starts for CactusRose_66:
(Start: 76 @42565 has 81 MA's), (102, 42511), (140, 42463),

Gene: CamL_53 Start: 47369, Stop: 47076, Start Num: 96
Candidate Starts for CamL_53:
(30, 47528), (49, 47471), (63, 47444), (Start: 74 @47423 has 20 MA's), (Start: 79 @47417 has 150 MA's), (Start: 96 @47369 has 62 MA's), (107, 47345), (132, 47297), (135, 47291), (140, 47267),

Gene: Cannibal_53 Start: 47352, Stop: 47059, Start Num: 96
Candidate Starts for Cannibal_53:
(30, 47511), (49, 47454), (63, 47427), (Start: 74 @47406 has 20 MA's), (Start: 79 @47400 has 150 MA's), (Start: 96 @47352 has 62 MA's), (107, 47328), (132, 47280), (135, 47274), (140, 47250),

Gene: CaptainTrips_49 Start: 36066, Stop: 36296, Start Num: 79
Candidate Starts for CaptainTrips_49:
(62, 36036), (Start: 79 @36066 has 150 MA's), (Start: 92 @36102 has 3 MA's), (139, 36162), (140, 36165),

Gene: Carlyle_66 Start: 41351, Stop: 41082, Start Num: 76
Candidate Starts for Carlyle_66:
(Start: 76 @41351 has 81 MA's), (102, 41297), (140, 41249),

Gene: Casbah_51 Start: 45725, Stop: 45456, Start Num: 76
Candidate Starts for Casbah_51:
(Start: 76 @45725 has 81 MA's), (102, 45671), (140, 45623), (195, 45467),

Gene: ChaChing_51 Start: 45427, Stop: 45158, Start Num: 76
Candidate Starts for ChaChing_51:
(Start: 76 @45427 has 81 MA's), (102, 45373), (140, 45325),

Gene: Chandler_51 Start: 46194, Stop: 45925, Start Num: 76
Candidate Starts for Chandler_51:
(Start: 76 @46194 has 81 MA's), (102, 46140), (140, 46092),

Gene: Che8_55 Start: 38308, Stop: 38550, Start Num: 79
Candidate Starts for Che8_55:
(62, 38278), (Start: 79 @38308 has 150 MA's), (140, 38419),

Gene: CheeseTouch_80 Start: 40886, Stop: 41182, Start Num: 70
Candidate Starts for CheeseTouch_80:
(20, 40742), (31, 40799), (35, 40817), (Start: 70 @40886 has 5 MA's), (Start: 74 @40895 has 20 MA's), (105, 40961), (139, 41027), (141, 41039),

Gene: Chevrolet_59 Start: 38442, Stop: 38684, Start Num: 79
Candidate Starts for Chevrolet_59:
(62, 38412), (Start: 79 @38442 has 150 MA's), (140, 38553),

Gene: Childish_53 Start: 47631, Stop: 47362, Start Num: 96
Candidate Starts for Childish_53:
(30, 47790), (49, 47733), (63, 47706), (Start: 74 @47685 has 20 MA's), (Start: 79 @47679 has 150 MA's), (Start: 96 @47631 has 62 MA's), (107, 47607), (132, 47559), (135, 47553), (140, 47529), (195, 47373),

Gene: Chorkpop_53 Start: 47108, Stop: 46815, Start Num: 96
Candidate Starts for Chorkpop_53:
(30, 47267), (49, 47210), (63, 47183), (Start: 74 @47162 has 20 MA's), (Start: 79 @47156 has 150 MA's), (Start: 96 @47108 has 62 MA's), (107, 47084), (132, 47036), (135, 47030), (140, 47006),

Gene: Chuckly_55 Start: 37799, Stop: 38041, Start Num: 79
Candidate Starts for Chuckly_55:
(Start: 74 @37793 has 20 MA's), (Start: 79 @37799 has 150 MA's), (140, 37910),

Gene: Clark_59 Start: 39693, Stop: 39938, Start Num: 75
Candidate Starts for Clark_59:
(Start: 75 @39693 has 6 MA's), (91, 39732), (178, 39882),

Gene: Clarkson_7 Start: 2311, Stop: 2583, Start Num: 76
Candidate Starts for Clarkson_7:
(Start: 76 @2311 has 81 MA's), (113, 2374), (140, 2416),

Gene: Constella_139 Start: 76698, Stop: 76943, Start Num: 79
Candidate Starts for Constella_139:
(25, 76563), (48, 76638), (55, 76653), (Start: 79 @76698 has 150 MA's), (129, 76770), (135, 76773),

Gene: Constella_75 Start: 50768, Stop: 51064, Start Num: 76
Candidate Starts for Constella_75:
(Start: 76 @50768 has 81 MA's), (112, 50846), (135, 50873), (140, 50897),

Gene: Cornucopia_55 Start: 38144, Stop: 38386, Start Num: 79
Candidate Starts for Cornucopia_55:
(62, 38114), (Start: 79 @38144 has 150 MA's), (139, 38252),

Gene: Corofin_51 Start: 45437, Stop: 45168, Start Num: 76
Candidate Starts for Corofin_51:
(Start: 76 @45437 has 81 MA's), (102, 45383), (140, 45335),

Gene: Cosmolli16_54 Start: 47811, Stop: 47542, Start Num: 96
Candidate Starts for Cosmolli16_54:
(30, 47970), (49, 47913), (63, 47886), (Start: 74 @47865 has 20 MA's), (Start: 79 @47859 has 150 MA's), (Start: 96 @47811 has 62 MA's), (107, 47787), (132, 47739), (135, 47733), (140, 47709),

Gene: Courthouse_78 Start: 48853, Stop: 48584, Start Num: 76
Candidate Starts for Courthouse_78:
(Start: 76 @48853 has 81 MA's), (102, 48799), (140, 48751),

Gene: Craff_56 Start: 48056, Stop: 47787, Start Num: 96
Candidate Starts for Craff_56:
(30, 48215), (49, 48158), (63, 48131), (Start: 74 @48110 has 20 MA's), (Start: 79 @48104 has 150 MA's), (Start: 96 @48056 has 62 MA's), (107, 48032), (132, 47984), (135, 47978), (140, 47954), (195, 47798),

Gene: Crater_73 Start: 43346, Stop: 43687, Start Num: 70
Candidate Starts for Crater_73:
(27, 43241), (46, 43301), (Start: 70 @43346 has 5 MA's), (105, 43424), (139, 43490), (163, 43553),

Gene: DLane_48 Start: 36148, Stop: 36381, Start Num: 79
Candidate Starts for DLane_48:
(62, 36118), (Start: 79 @36148 has 150 MA's), (Start: 92 @36184 has 3 MA's), (139, 36244), (140, 36247),

Gene: DTDevon_6 Start: 1888, Stop: 2115, Start Num: 96
Candidate Starts for DTDevon_6:
(Start: 90 @1879 has 2 MA's), (Start: 96 @1888 has 62 MA's), (Start: 111 @1924 has 5 MA's), (Start: 116 @1933 has 1 MA's), (140, 1987), (162, 2026),

Gene: DaWorst_54 Start: 38043, Stop: 38276, Start Num: 77
Candidate Starts for DaWorst_54:
(Start: 59 @38013 has 1 MA's), (Start: 77 @38043 has 7 MA's), (86, 38067), (117, 38109), (136, 38124), (139, 38142), (140, 38145),

Gene: DaddyDaniels_55 Start: 47588, Stop: 47319, Start Num: 96
Candidate Starts for DaddyDaniels_55:
(30, 47747), (49, 47690), (63, 47663), (Start: 74 @47642 has 20 MA's), (Start: 79 @47636 has 150 MA's), (Start: 96 @47588 has 62 MA's), (107, 47564), (132, 47516), (135, 47510), (140, 47486), (195, 47330),

Gene: DaddyRickover_52 Start: 37670, Stop: 37903, Start Num: 77

Candidate Starts for DaddyRickover_52:

(Start: 59 @37640 has 1 MA's), (Start: 77 @37670 has 7 MA's), (86, 37694), (117, 37736), (136, 37751), (139, 37769), (140, 37772),

Gene: Daenerys_72 Start: 47067, Stop: 47294, Start Num: 79

Candidate Starts for Daenerys_72:

(Start: 79 @47067 has 150 MA's), (141, 47166),

Gene: Daffy_53 Start: 47094, Stop: 46801, Start Num: 96

Candidate Starts for Daffy_53:

(30, 47253), (49, 47196), (63, 47169), (Start: 74 @47148 has 20 MA's), (Start: 79 @47142 has 150 MA's), (Start: 96 @47094 has 62 MA's), (107, 47070), (132, 47022), (135, 47016), (140, 46992),

Gene: Daisy_51 Start: 45439, Stop: 45170, Start Num: 76

Candidate Starts for Daisy_51:

(Start: 76 @45439 has 81 MA's), (102, 45385), (140, 45337),

Gene: Dallas_89 Start: 55552, Stop: 55848, Start Num: 76

Candidate Starts for Dallas_89:

(Start: 76 @55552 has 81 MA's), (112, 55630), (135, 55657), (140, 55681),

Gene: Dallas_146 Start: 77512, Stop: 77757, Start Num: 79

Candidate Starts for Dallas_146:

(25, 77377), (48, 77452), (55, 77467), (Start: 79 @77512 has 150 MA's), (129, 77584), (135, 77587),

Gene: Dandelion_5 Start: 1888, Stop: 2115, Start Num: 96

Candidate Starts for Dandelion_5:

(Start: 90 @1879 has 2 MA's), (Start: 96 @1888 has 62 MA's), (Start: 111 @1924 has 5 MA's), (Start: 116 @1933 has 1 MA's), (140, 1987), (162, 2026),

Gene: Dante_53 Start: 37036, Stop: 37266, Start Num: 77

Candidate Starts for Dante_53:

(Start: 59 @37006 has 1 MA's), (Start: 77 @37036 has 7 MA's), (86, 37060), (117, 37099), (136, 37114), (139, 37132), (140, 37135),

Gene: DeadP_58 Start: 38932, Stop: 39159, Start Num: 79

Candidate Starts for DeadP_58:

(62, 38902), (Start: 79 @38932 has 150 MA's), (Start: 92 @38965 has 3 MA's), (120, 38989), (139, 39022),

Gene: Deb65_66 Start: 44788, Stop: 45015, Start Num: 79

Candidate Starts for Deb65_66:

(Start: 79 @44788 has 150 MA's), (141, 44887),

Gene: Demsculpinboyz_62 Start: 36874, Stop: 37140, Start Num: 77

Candidate Starts for Demsculpinboyz_62:

(Start: 59 @36844 has 1 MA's), (Start: 77 @36874 has 7 MA's), (86, 36898), (117, 36940), (136, 36955), (139, 36973), (140, 36976),

Gene: Denise_57 Start: 36623, Stop: 36913, Start Num: 47

Candidate Starts for Denise_57:

(Start: 47 @36623 has 1 MA's), (65, 36659), (156, 36815), (192, 36896),

Gene: DmpstrDiver_90 Start: 55966, Stop: 56262, Start Num: 76
Candidate Starts for DmpstrDiver_90:
(Start: 76 @55966 has 81 MA's), (112, 56044), (135, 56071), (140, 56095),

Gene: DmpstrDiver_146 Start: 77431, Stop: 77676, Start Num: 79
Candidate Starts for DmpstrDiver_146:
(25, 77296), (48, 77371), (55, 77386), (Start: 79 @77431 has 150 MA's), (129, 77503), (135, 77506),

Gene: DobbysSock_53 Start: 39107, Stop: 39373, Start Num: 75
Candidate Starts for DobbysSock_53:
(Start: 75 @39107 has 6 MA's), (107, 39173), (108, 39176),

Gene: DonkeyMan_56 Start: 38401, Stop: 38625, Start Num: 54
Candidate Starts for DonkeyMan_56:
(Start: 54 @38401 has 2 MA's), (81, 38437), (149, 38530), (184, 38578),

Gene: Donkeykong_53 Start: 39067, Stop: 39345, Start Num: 76
Candidate Starts for Donkeykong_53:
(52, 39022), (63, 39043), (Start: 76 @39067 has 81 MA's), (140, 39178),

Gene: Doomphist_76 Start: 46880, Stop: 47107, Start Num: 79
Candidate Starts for Doomphist_76:
(Start: 79 @46880 has 150 MA's), (141, 46979),

Gene: Doomphist_52 Start: 38179, Stop: 38421, Start Num: 79
Candidate Starts for Doomphist_52:
(62, 38149), (Start: 79 @38179 has 150 MA's), (139, 38287),

Gene: Dorothy_74 Start: 45505, Stop: 45732, Start Num: 79
Candidate Starts for Dorothy_74:
(Start: 79 @45505 has 150 MA's), (141, 45604),

Gene: DotProduct_48 Start: 36209, Stop: 36451, Start Num: 79
Candidate Starts for DotProduct_48:
(62, 36179), (Start: 79 @36209 has 150 MA's), (139, 36317),

Gene: Doug_55 Start: 38300, Stop: 38542, Start Num: 79
Candidate Starts for Doug_55:
(62, 38270), (Start: 79 @38300 has 150 MA's), (140, 38411),

Gene: Douge_118 Start: 64670, Stop: 64912, Start Num: 79
Candidate Starts for Douge_118:
(Start: 79 @64670 has 150 MA's), (83, 64682), (145, 64778), (189, 64865), (195, 64886),

Gene: Dove_131 Start: 73030, Stop: 73275, Start Num: 79
Candidate Starts for Dove_131:
(25, 72895), (55, 72985), (Start: 79 @73030 has 150 MA's), (129, 73102), (135, 73105),

Gene: Dove_75 Start: 52060, Stop: 52356, Start Num: 76
Candidate Starts for Dove_75:
(Start: 76 @52060 has 81 MA's), (112, 52138), (135, 52165), (140, 52189),

Gene: Drazdys_6 Start: 1888, Stop: 2115, Start Num: 96

Candidate Starts for Drazdys_6:

(Start: 90 @1879 has 2 MA's), (Start: 96 @1888 has 62 MA's), (Start: 111 @1924 has 5 MA's), (Start: 116 @1933 has 1 MA's), (140, 1987), (162, 2026),

Gene: Dreamboat_67 Start: 41780, Stop: 41553, Start Num: 79

Candidate Starts for Dreamboat_67:

(Start: 79 @41780 has 150 MA's), (140, 41720),

Gene: Duke13_141 Start: 74732, Stop: 74977, Start Num: 79

Candidate Starts for Duke13_141:

(25, 74597), (48, 74672), (55, 74687), (Start: 79 @74732 has 150 MA's), (129, 74804), (135, 74807),

Gene: Ecliptus_80 Start: 46255, Stop: 46587, Start Num: 74

Candidate Starts for Ecliptus_80:

(58, 46228), (Start: 70 @46246 has 5 MA's), (Start: 74 @46255 has 20 MA's), (174, 46468),

Gene: Eish_57 Start: 38353, Stop: 38628, Start Num: 76

Candidate Starts for Eish_57:

(Start: 76 @38353 has 81 MA's), (140, 38464),

Gene: Ejimix_138 Start: 77580, Stop: 77825, Start Num: 79

Candidate Starts for Ejimix_138:

(25, 77445), (48, 77520), (55, 77535), (Start: 79 @77580 has 150 MA's), (129, 77652), (135, 77655),

Gene: Emma_52 Start: 36405, Stop: 36638, Start Num: 79

Candidate Starts for Emma_52:

(62, 36375), (Start: 79 @36405 has 150 MA's), (Start: 92 @36441 has 3 MA's), (139, 36501), (140, 36504),

Gene: Empress_71 Start: 45691, Stop: 45918, Start Num: 79

Candidate Starts for Empress_71:

(Start: 79 @45691 has 150 MA's), (141, 45790),

Gene: Enby_53 Start: 35552, Stop: 35782, Start Num: 79

Candidate Starts for Enby_53:

(60, 35519), (62, 35522), (Start: 79 @35552 has 150 MA's), (Start: 92 @35588 has 3 MA's), (139, 35648), (140, 35651),

Gene: EricMillard_137 Start: 76084, Stop: 76329, Start Num: 79

Candidate Starts for EricMillard_137:

(25, 75949), (48, 76024), (55, 76039), (Start: 79 @76084 has 150 MA's), (129, 76156), (135, 76159),

Gene: EricMillard_83 Start: 55716, Stop: 55994, Start Num: 76

Candidate Starts for EricMillard_83:

(72, 55710), (Start: 76 @55716 has 81 MA's), (140, 55827),

Gene: Estave1_55 Start: 37717, Stop: 37980, Start Num: 76

Candidate Starts for Estave1_55:

(Start: 76 @37717 has 81 MA's), (140, 37828),

Gene: Faith5x5_53 Start: 34268, Stop: 34585, Start Num: 97

Candidate Starts for Faith5x5_53:

(22, 34076), (46, 34163), (48, 34169), (51, 34178), (55, 34184), (56, 34187), (Start: 69 @34208 has 1 MA's), (71, 34211), (Start: 76 @34220 has 81 MA's), (91, 34259), (Start: 97 @34268 has 1 MA's), (196, 34496),

Gene: Fascinus_60 Start: 42059, Stop: 41790, Start Num: 76
Candidate Starts for Fascinus_60:
(Start: 76 @42059 has 81 MA's), (102, 42005), (140, 41957),

Gene: Firehouse51_53 Start: 39958, Stop: 40203, Start Num: 79
Candidate Starts for Firehouse51_53:
(62, 39928), (Start: 79 @39958 has 150 MA's), (140, 40069),

Gene: FirstPlacePfu_54 Start: 36068, Stop: 36295, Start Num: 79
Candidate Starts for FirstPlacePfu_54:
(41, 36005), (Start: 79 @36068 has 150 MA's), (141, 36167),

Gene: Fishburne_52 Start: 36036, Stop: 36263, Start Num: 79
Candidate Starts for Fishburne_52:
(41, 35973), (Start: 79 @36036 has 150 MA's), (141, 36135),

Gene: Fozzie_52 Start: 47398, Stop: 47105, Start Num: 96
Candidate Starts for Fozzie_52:
(30, 47557), (49, 47500), (63, 47473), (Start: 74 @47452 has 20 MA's), (Start: 79 @47446 has 150 MA's), (Start: 96 @47398 has 62 MA's), (107, 47374), (132, 47326), (135, 47320), (140, 47296),

Gene: FrayBell_6 Start: 1888, Stop: 2115, Start Num: 96
Candidate Starts for FrayBell_6:
(Start: 90 @1879 has 2 MA's), (Start: 96 @1888 has 62 MA's), (Start: 111 @1924 has 5 MA's), (Start: 116 @1933 has 1 MA's), (140, 1987), (162, 2026),

Gene: Frickyeah_80 Start: 44783, Stop: 45115, Start Num: 74
Candidate Starts for Frickyeah_80:
(58, 44756), (Start: 70 @44774 has 5 MA's), (Start: 74 @44783 has 20 MA's), (174, 44996),

Gene: Fringe_57 Start: 48533, Stop: 48264, Start Num: 96
Candidate Starts for Fringe_57:
(30, 48692), (49, 48635), (Start: 74 @48587 has 20 MA's), (Start: 79 @48581 has 150 MA's), (Start: 96 @48533 has 62 MA's), (107, 48509), (132, 48461), (135, 48455), (140, 48431), (195, 48275),

Gene: GAL1_58 Start: 39448, Stop: 39708, Start Num: 75
Candidate Starts for GAL1_58:
(Start: 75 @39448 has 6 MA's), (147, 39592),

Gene: GMA1_52 Start: 32897, Stop: 33145, Start Num: 75
Candidate Starts for GMA1_52:
(37, 32816), (42, 32828), (53, 32855), (67, 32882), (Start: 75 @32897 has 6 MA's),

Gene: GMA2_107 Start: 94211, Stop: 93939, Start Num: 75
Candidate Starts for GMA2_107:
(Start: 75 @94211 has 6 MA's), (170, 94031),

Gene: Gaia_57 Start: 40635, Stop: 40414, Start Num: 79
Candidate Starts for Gaia_57:

(Start: 79 @40635 has 150 MA's), (83, 40623), (118, 40581), (189, 40443), (195, 40422),

Gene: Gaia_56 Start: 40287, Stop: 40042, Start Num: 79

Candidate Starts for Gaia_56:

(Start: 79 @40287 has 150 MA's), (105, 40230), (187, 40089),

Gene: Gambino_79 Start: 48141, Stop: 48380, Start Num: 82

Candidate Starts for Gambino_79:

(1, 47394), (2, 47400), (3, 47406), (4, 47451), (14, 47889), (17, 47916), (21, 47979), (25, 48003), (48, 48078), (51, 48087), (Start: 82 @48141 has 4 MA's), (89, 48168), (179, 48306), (185, 48327), (195, 48375),

Gene: Gandolph_55 Start: 37415, Stop: 37660, Start Num: 79

Candidate Starts for Gandolph_55:

(Start: 79 @37415 has 150 MA's), (139, 37523),

Gene: Geralt_66 Start: 44787, Stop: 45014, Start Num: 79

Candidate Starts for Geralt_66:

(Start: 79 @44787 has 150 MA's), (141, 44886),

Gene: Gervas_52 Start: 45854, Stop: 45585, Start Num: 76

Candidate Starts for Gervas_52:

(Start: 76 @45854 has 81 MA's), (102, 45800), (140, 45752), (195, 45596),

Gene: Getalong_78 Start: 45864, Stop: 46163, Start Num: 74

Candidate Starts for Getalong_78:

(Start: 74 @45864 has 20 MA's), (101, 45918), (122, 45957), (143, 46014), (173, 46071),

Gene: GigiOuiOui_49 Start: 36354, Stop: 36596, Start Num: 79

Candidate Starts for GigiOuiOui_49:

(62, 36324), (Start: 79 @36354 has 150 MA's), (139, 36462),

Gene: Giraffe_54 Start: 47592, Stop: 47323, Start Num: 96

Candidate Starts for Giraffe_54:

(30, 47751), (49, 47694), (Start: 74 @47646 has 20 MA's), (Start: 79 @47640 has 150 MA's), (Start: 96 @47592 has 62 MA's), (107, 47568), (132, 47520), (135, 47514), (140, 47490),

Gene: GlenHope_52 Start: 45405, Stop: 45136, Start Num: 76

Candidate Starts for GlenHope_52:

(Start: 76 @45405 has 81 MA's), (102, 45351), (140, 45303),

Gene: Graduation_70 Start: 43891, Stop: 43622, Start Num: 76

Candidate Starts for Graduation_70:

(Start: 76 @43891 has 81 MA's), (102, 43837), (140, 43789),

Gene: Grand2040_53 Start: 47586, Stop: 47317, Start Num: 96

Candidate Starts for Grand2040_53:

(30, 47745), (49, 47688), (Start: 74 @47640 has 20 MA's), (Start: 79 @47634 has 150 MA's), (Start: 96 @47586 has 62 MA's), (107, 47562), (132, 47514), (135, 47508), (140, 47484),

Gene: Gudmit_51 Start: 32451, Stop: 32681, Start Num: 75

Candidate Starts for Gudmit_51:

(Start: 75 @32451 has 6 MA's), (88, 32481), (91, 32490), (125, 32514), (178, 32625),

Gene: Gumball_84 Start: 60133, Stop: 60360, Start Num: 78

Candidate Starts for Gumball_84:

(26, 60010), (Start: 78 @60133 has 6 MA's), (91, 60169), (Start: 97 @60178 has 1 MA's), (140, 60232),

Gene: Haleema_52 Start: 47090, Stop: 46797, Start Num: 96

Candidate Starts for Haleema_52:

(30, 47249), (49, 47192), (63, 47165), (Start: 74 @47144 has 20 MA's), (Start: 79 @47138 has 150 MA's), (Start: 96 @47090 has 62 MA's), (107, 47066), (132, 47018), (135, 47012), (140, 46988),

Gene: Halfpint_50 Start: 45230, Stop: 44961, Start Num: 76

Candidate Starts for Halfpint_50:

(Start: 76 @45230 has 81 MA's), (102, 45176), (140, 45128),

Gene: Halley_147 Start: 77896, Stop: 78141, Start Num: 79

Candidate Starts for Halley_147:

(25, 77761), (48, 77836), (55, 77851), (Start: 79 @77896 has 150 MA's), (129, 77968), (135, 77971),

Gene: Halley_91 Start: 56631, Stop: 56927, Start Num: 76

Candidate Starts for Halley_91:

(Start: 76 @56631 has 81 MA's), (112, 56709), (135, 56736), (140, 56760),

Gene: Hamulus_53 Start: 37796, Stop: 38026, Start Num: 79

Candidate Starts for Hamulus_53:

(62, 37766), (Start: 79 @37796 has 150 MA's), (Start: 92 @37832 has 3 MA's), (139, 37892), (140, 37895),

Gene: Harley_54 Start: 37188, Stop: 37382, Start Num: 92

Candidate Starts for Harley_54:

(62, 37122), (Start: 79 @37152 has 150 MA's), (Start: 92 @37188 has 3 MA's), (139, 37248), (140, 37251),

Gene: Hawkeye_97 Start: 61659, Stop: 61895, Start Num: 79

Candidate Starts for Hawkeye_97:

(32, 61557), (56, 61620), (58, 61626), (Start: 79 @61659 has 150 MA's), (126, 61728), (140, 61758), (176, 61809), (184, 61830), (195, 61872),

Gene: Hegedechwinu_72 Start: 43105, Stop: 43332, Start Num: 79

Candidate Starts for Hegedechwinu_72:

(Start: 79 @43105 has 150 MA's), (141, 43204),

Gene: Heinz_57 Start: 37331, Stop: 37591, Start Num: 54

Candidate Starts for Heinz_57:

(Start: 54 @37331 has 2 MA's), (149, 37496), (184, 37544),

Gene: Held_53 Start: 47095, Stop: 46802, Start Num: 96

Candidate Starts for Held_53:

(30, 47254), (49, 47197), (63, 47170), (Start: 74 @47149 has 20 MA's), (Start: 79 @47143 has 150 MA's), (Start: 96 @47095 has 62 MA's), (107, 47071), (132, 47023), (135, 47017), (140, 46993),

Gene: Helpful_87 Start: 60143, Stop: 60346, Start Num: 78

Candidate Starts for Helpful_87:

(26, 60017), (28, 60026), (Start: 78 @60143 has 6 MA's), (86, 60167), (140, 60245), (177, 60296),

Gene: HenryJackson_53 Start: 47620, Stop: 47351, Start Num: 96

Candidate Starts for HenryJackson_53:

(30, 47779), (49, 47722), (63, 47695), (Start: 74 @47674 has 20 MA's), (Start: 79 @47668 has 150 MA's), (Start: 96 @47620 has 62 MA's), (107, 47596), (132, 47548), (135, 47542), (140, 47518), (195, 47362),

Gene: Hertubise_53 Start: 47387, Stop: 47094, Start Num: 96

Candidate Starts for Hertubise_53:

(30, 47546), (49, 47489), (63, 47462), (Start: 74 @47441 has 20 MA's), (Start: 79 @47435 has 150 MA's), (Start: 96 @47387 has 62 MA's), (107, 47363), (132, 47315), (135, 47309), (140, 47285),

Gene: HighStump_55 Start: 48156, Stop: 47887, Start Num: 96

Candidate Starts for HighStump_55:

(30, 48315), (49, 48258), (63, 48231), (Start: 74 @48210 has 20 MA's), (Start: 79 @48204 has 150 MA's), (Start: 96 @48156 has 62 MA's), (107, 48132), (132, 48084), (135, 48078), (140, 48054), (195, 47898),

Gene: HokkenD_138 Start: 77055, Stop: 77300, Start Num: 79

Candidate Starts for HokkenD_138:

(25, 76920), (55, 77010), (Start: 79 @77055 has 150 MA's), (129, 77127), (135, 77130),

Gene: HokkenD_79 Start: 54900, Stop: 55196, Start Num: 76

Candidate Starts for HokkenD_79:

(Start: 76 @54900 has 81 MA's), (112, 54978), (135, 55005), (140, 55029),

Gene: Holliday_79 Start: 47725, Stop: 48021, Start Num: 74

Candidate Starts for Holliday_79:

(58, 47698), (Start: 70 @47716 has 5 MA's), (Start: 74 @47725 has 20 MA's), (105, 47791), (144, 47878), (152, 47896), (172, 47923),

Gene: Horus_75 Start: 45413, Stop: 45754, Start Num: 70

Candidate Starts for Horus_75:

(27, 45308), (46, 45368), (Start: 70 @45413 has 5 MA's), (105, 45491), (139, 45557), (163, 45620),

Gene: Hughesyang_90 Start: 56589, Stop: 56885, Start Num: 76

Candidate Starts for Hughesyang_90:

(Start: 76 @56589 has 81 MA's), (112, 56667), (135, 56694), (140, 56718),

Gene: Hughesyang_144 Start: 77666, Stop: 77911, Start Num: 79

Candidate Starts for Hughesyang_144:

(25, 77531), (48, 77606), (55, 77621), (Start: 79 @77666 has 150 MA's), (129, 77738), (135, 77741),

Gene: InterFolia_6 Start: 1924, Stop: 2115, Start Num: 111

Candidate Starts for InterFolia_6:

(Start: 90 @1879 has 2 MA's), (Start: 96 @1888 has 62 MA's), (Start: 111 @1924 has 5 MA's), (Start: 116 @1933 has 1 MA's), (140, 1987), (162, 2026),

Gene: Inventum_47 Start: 36162, Stop: 36395, Start Num: 77

Candidate Starts for Inventum_47:

(Start: 59 @36132 has 1 MA's), (Start: 77 @36162 has 7 MA's), (86, 36186), (117, 36228), (136, 36243), (139, 36261), (140, 36264),

Gene: Inventum_71 Start: 45703, Stop: 45930, Start Num: 79

Candidate Starts for Inventum_71:

(Start: 79 @45703 has 150 MA's), (141, 45802),

Gene: JalFarm20_60 Start: 39595, Stop: 39840, Start Num: 79

Candidate Starts for JalFarm20_60:

(65, 39571), (Start: 79 @39595 has 150 MA's), (140, 39706),

Gene: Jasper_66 Start: 41666, Stop: 41439, Start Num: 79

Candidate Starts for Jasper_66:

(Start: 79 @41666 has 150 MA's), (140, 41606),

Gene: JayJay_5 Start: 1730, Stop: 1996, Start Num: 90

Candidate Starts for JayJay_5:

(Start: 90 @1730 has 2 MA's), (Start: 96 @1739 has 62 MA's), (107, 1763), (130, 1805), (136, 1820), (139, 1838), (140, 1841), (186, 1937),

Gene: JigglyPuff_5 Start: 1776, Stop: 1985, Start Num: 116

Candidate Starts for JigglyPuff_5:

(Start: 90 @1722 has 2 MA's), (Start: 96 @1731 has 62 MA's), (Start: 111 @1767 has 5 MA's), (Start: 116 @1776 has 1 MA's), (139, 1827), (140, 1830), (186, 1926),

Gene: Jinglebell_38 Start: 31199, Stop: 31008, Start Num: 79

Candidate Starts for Jinglebell_38:

(Start: 79 @31199 has 150 MA's), (145, 31109),

Gene: Job42_55 Start: 39394, Stop: 39636, Start Num: 79

Candidate Starts for Job42_55:

(29, 39280), (33, 39292), (45, 39328), (Start: 70 @39379 has 5 MA's), (Start: 79 @39394 has 150 MA's), (140, 39505),

Gene: JoeyJr_73 Start: 46692, Stop: 46919, Start Num: 79

Candidate Starts for JoeyJr_73:

(Start: 79 @46692 has 150 MA's), (141, 46791),

Gene: Jorgensen_69 Start: 42799, Stop: 42503, Start Num: 73

Candidate Starts for Jorgensen_69:

(Start: 73 @42799 has 1 MA's), (112, 42721), (135, 42694), (139, 42673), (140, 42670),

Gene: JuicyJay_141 Start: 79181, Stop: 79426, Start Num: 79

Candidate Starts for JuicyJay_141:

(25, 79046), (55, 79136), (Start: 79 @79181 has 150 MA's), (129, 79253), (135, 79256),

Gene: JuicyJay_87 Start: 57765, Stop: 58061, Start Num: 76

Candidate Starts for JuicyJay_87:

(Start: 76 @57765 has 81 MA's), (112, 57843), (135, 57870), (140, 57894),

Gene: Juniper1_50 Start: 36588, Stop: 36851, Start Num: 76

Candidate Starts for Juniper1_50:

(60, 36558), (Start: 76 @36588 has 81 MA's), (140, 36699), (188, 36819),

Gene: Kahve_53 Start: 47617, Stop: 47348, Start Num: 96

Candidate Starts for Kahve_53:

(30, 47776), (49, 47719), (63, 47692), (Start: 74 @47671 has 20 MA's), (Start: 79 @47665 has 150 MA's), (Start: 96 @47617 has 62 MA's), (107, 47593), (132, 47545), (135, 47539), (140, 47515), (195, 47359),

Gene: Kalah2_84 Start: 55924, Stop: 56220, Start Num: 76

Candidate Starts for Kalah2_84:

(Start: 76 @55924 has 81 MA's), (112, 56002), (135, 56029), (140, 56053),

Gene: Kalah2_136 Start: 76787, Stop: 77032, Start Num: 79

Candidate Starts for Kalah2_136:

(25, 76652), (55, 76742), (Start: 79 @76787 has 150 MA's), (129, 76859), (135, 76862),

Gene: Kamaru_71 Start: 43317, Stop: 43604, Start Num: 74

Candidate Starts for Kamaru_71:

(6, 42969), (8, 42972), (12, 43032), (22, 43176), (23, 43179), (68, 43305), (Start: 70 @43308 has 5 MA's), (Start: 74 @43317 has 20 MA's), (105, 43383), (139, 43449), (141, 43461),

Gene: Kamiyu_51 Start: 45383, Stop: 45114, Start Num: 76

Candidate Starts for Kamiyu_51:

(Start: 76 @45383 has 81 MA's), (102, 45329), (140, 45281),

Gene: KandZ_82 Start: 59971, Stop: 60174, Start Num: 78

Candidate Starts for KandZ_82:

(26, 59845), (28, 59854), (Start: 78 @59971 has 6 MA's), (86, 59995), (140, 60073), (177, 60124),

Gene: Kari_52 Start: 36033, Stop: 36260, Start Num: 79

Candidate Starts for Kari_52:

(41, 35970), (Start: 79 @36033 has 150 MA's), (141, 36132),

Gene: KashFlow_144 Start: 76087, Stop: 76332, Start Num: 79

Candidate Starts for KashFlow_144:

(25, 75952), (55, 76042), (Start: 79 @76087 has 150 MA's), (129, 76159), (135, 76162),

Gene: Kenna_71 Start: 43390, Stop: 43677, Start Num: 74

Candidate Starts for Kenna_71:

(57, 43363), (Start: 70 @43381 has 5 MA's), (Start: 74 @43390 has 20 MA's), (105, 43456), (139, 43522), (141, 43534),

Gene: Kenuha5_50 Start: 36123, Stop: 36365, Start Num: 79

Candidate Starts for Kenuha5_50:

(38, 36039), (46, 36057), (65, 36099), (Start: 79 @36123 has 150 MA's), (140, 36234),

Gene: Kimberlium_67 Start: 43095, Stop: 43343, Start Num: 79

Candidate Starts for Kimberlium_67:

(Start: 79 @43095 has 150 MA's), (129, 43158), (145, 43200),

Gene: KingMidas_72 Start: 46106, Stop: 46333, Start Num: 79

Candidate Starts for KingMidas_72:

(Start: 79 @46106 has 150 MA's), (141, 46205),

Gene: Klein_90 Start: 55600, Stop: 55896, Start Num: 76

Candidate Starts for Klein_90:

(72, 55594), (Start: 76 @55600 has 81 MA's), (112, 55678), (135, 55705), (140, 55729),

Gene: Klein_143 Start: 75389, Stop: 75634, Start Num: 79

Candidate Starts for Klein_143:

(25, 75254), (55, 75344), (Start: 79 @75389 has 150 MA's), (129, 75461), (135, 75464),

Gene: Krakatau_50 Start: 36883, Stop: 37077, Start Num: 92

Candidate Starts for Krakatau_50:

(62, 36817), (Start: 79 @36847 has 150 MA's), (Start: 92 @36883 has 3 MA's), (139, 36943), (140, 36946),

Gene: KristaRAM_51 Start: 38223, Stop: 38468, Start Num: 79

Candidate Starts for KristaRAM_51:

(38, 38139), (46, 38157), (65, 38199), (Start: 79 @38223 has 150 MA's), (140, 38334),

Gene: Kronus_51 Start: 46457, Stop: 46188, Start Num: 76

Candidate Starts for Kronus_51:

(Start: 76 @46457 has 81 MA's), (102, 46403), (140, 46355), (195, 46199),

Gene: Kuwabara_76 Start: 45678, Stop: 45968, Start Num: 74

Candidate Starts for Kuwabara_76:

(Start: 70 @45669 has 5 MA's), (Start: 74 @45678 has 20 MA's), (105, 45744), (139, 45810), (141, 45822), (150, 45843), (158, 45849), (165, 45858),

Gene: Kwadwo_52 Start: 47069, Stop: 46776, Start Num: 96

Candidate Starts for Kwadwo_52:

(30, 47228), (49, 47171), (63, 47144), (Start: 74 @47123 has 20 MA's), (Start: 79 @47117 has 150 MA's), (Start: 96 @47069 has 62 MA's), (107, 47045), (132, 46997), (135, 46991), (140, 46967),

Gene: Langerak_53 Start: 36052, Stop: 36279, Start Num: 79

Candidate Starts for Langerak_53:

(41, 35989), (Start: 79 @36052 has 150 MA's), (141, 36151),

Gene: Lasso_53 Start: 47344, Stop: 47051, Start Num: 96

Candidate Starts for Lasso_53:

(30, 47503), (49, 47446), (63, 47419), (Start: 74 @47398 has 20 MA's), (Start: 79 @47392 has 150 MA's), (Start: 96 @47344 has 62 MA's), (107, 47320), (132, 47272), (135, 47266), (140, 47242),

Gene: Latretium_77 Start: 46947, Stop: 47177, Start Num: 111

Candidate Starts for Latretium_77:

(66, 46854), (Start: 93 @46911 has 2 MA's), (Start: 111 @46947 has 5 MA's), (139, 47007), (140, 47010),

Gene: LeeLot_53 Start: 47396, Stop: 47103, Start Num: 96

Candidate Starts for LeeLot_53:

(30, 47555), (49, 47498), (63, 47471), (Start: 74 @47450 has 20 MA's), (Start: 79 @47444 has 150 MA's), (Start: 96 @47396 has 62 MA's), (107, 47372), (132, 47324), (135, 47318), (140, 47294),

Gene: Legolas_55 Start: 48053, Stop: 47784, Start Num: 96

Candidate Starts for Legolas_55:

(30, 48212), (49, 48155), (63, 48128), (Start: 74 @48107 has 20 MA's), (Start: 79 @48101 has 150 MA's), (Start: 96 @48053 has 62 MA's), (107, 48029), (132, 47981), (135, 47975), (140, 47951), (195, 47795),

Gene: Leperchaun_71 Start: 45926, Stop: 46153, Start Num: 79

Candidate Starts for Leperchaun_71:

(Start: 79 @45926 has 150 MA's), (141, 46025),

Gene: Leroy_74 Start: 43665, Stop: 43955, Start Num: 74

Candidate Starts for Leroy_74:

(58, 43638), (Start: 70 @43656 has 5 MA's), (Start: 74 @43665 has 20 MA's), (105, 43731), (144, 43818), (152, 43836), (172, 43863),

Gene: LinStu_6 Start: 2738, Stop: 2995, Start Num: 96

Candidate Starts for LinStu_6:

(Start: 90 @2729 has 2 MA's), (Start: 96 @2738 has 62 MA's), (107, 2762), (130, 2804), (136, 2819), (139, 2837), (140, 2840), (186, 2936),

Gene: LitninMcQueen_77 Start: 44377, Stop: 44670, Start Num: 74

Candidate Starts for LitninMcQueen_77:

(Start: 70 @44368 has 5 MA's), (Start: 74 @44377 has 20 MA's), (103, 44440), (105, 44443), (152, 44548),

Gene: Llama_39 Start: 31198, Stop: 31007, Start Num: 79

Candidate Starts for Llama_39:

(Start: 79 @31198 has 150 MA's), (145, 31108),

Gene: LolaVinca_6 Start: 1879, Stop: 2115, Start Num: 90

Candidate Starts for LolaVinca_6:

(Start: 90 @1879 has 2 MA's), (Start: 96 @1888 has 62 MA's), (Start: 111 @1924 has 5 MA's), (Start: 116 @1933 has 1 MA's), (140, 1987), (162, 2026),

Gene: Longacauda_54 Start: 48016, Stop: 47747, Start Num: 96

Candidate Starts for Longacauda_54:

(30, 48175), (49, 48118), (63, 48091), (Start: 74 @48070 has 20 MA's), (Start: 79 @48064 has 150 MA's), (Start: 96 @48016 has 62 MA's), (107, 47992), (132, 47944), (135, 47938), (140, 47914), (195, 47758),

Gene: LordLeafolot_6 Start: 1924, Stop: 2115, Start Num: 111

Candidate Starts for LordLeafolot_6:

(Start: 90 @1879 has 2 MA's), (Start: 96 @1888 has 62 MA's), (Start: 111 @1924 has 5 MA's), (Start: 116 @1933 has 1 MA's), (140, 1987), (162, 2026),

Gene: Lorde_53 Start: 35527, Stop: 35757, Start Num: 79

Candidate Starts for Lorde_53:

(60, 35494), (62, 35497), (Start: 79 @35527 has 150 MA's), (Start: 92 @35563 has 3 MA's), (139, 35623), (140, 35626),

Gene: Lton_54 Start: 33162, Stop: 33458, Start Num: 74

Candidate Starts for Lton_54:

(Start: 70 @33153 has 5 MA's), (Start: 74 @33162 has 20 MA's), (105, 33228), (139, 33294), (141, 33306), (152, 33333), (172, 33360),

Gene: Lucky10_55 Start: 35945, Stop: 36226, Start Num: 74

Candidate Starts for Lucky10_55:

(Start: 74 @35945 has 20 MA's), (Start: 97 @35993 has 1 MA's), (105, 36011), (119, 36032), (139, 36068), (141, 36080), (150, 36101), (158, 36107), (165, 36116),

Gene: Lucky2013_137 Start: 73141, Stop: 73386, Start Num: 79

Candidate Starts for Lucky2013_137:

(25, 73006), (48, 73081), (55, 73096), (Start: 79 @73141 has 150 MA's), (129, 73213), (135, 73216), (136, 73219),

Gene: Lucky2013_80 Start: 49269, Stop: 49000, Start Num: 76

Candidate Starts for Lucky2013_80:

(Start: 76 @49269 has 81 MA's), (102, 49215), (140, 49167),

Gene: Lumine_54 Start: 47804, Stop: 47535, Start Num: 96

Candidate Starts for Lumine_54:

(30, 47963), (49, 47906), (Start: 74 @47858 has 20 MA's), (Start: 79 @47852 has 150 MA's), (Start: 96 @47804 has 62 MA's), (107, 47780), (132, 47732), (135, 47726), (140, 47702),

Gene: Lutum_77 Start: 44553, Stop: 44840, Start Num: 74

Candidate Starts for Lutum_77:

(57, 44526), (Start: 70 @44544 has 5 MA's), (Start: 74 @44553 has 20 MA's), (105, 44619), (139, 44685), (141, 44697),

Gene: MadKillah_103 Start: 62045, Stop: 61815, Start Num: 109

Candidate Starts for MadKillah_103:

(83, 62096), (Start: 109 @62045 has 1 MA's), (114, 62033), (139, 61985), (140, 61982),

Gene: MadMen_62 Start: 41080, Stop: 41310, Start Num: 111

Candidate Starts for MadMen_62:

(Start: 93 @41044 has 2 MA's), (Start: 111 @41080 has 5 MA's), (139, 41140), (140, 41143),

Gene: MadMen_50 Start: 36869, Stop: 37144, Start Num: 76

Candidate Starts for MadMen_50:

(72, 36863), (Start: 76 @36869 has 81 MA's), (140, 36980),

Gene: Madiba_63 Start: 40537, Stop: 40815, Start Num: 76

Candidate Starts for Madiba_63:

(72, 40531), (Start: 76 @40537 has 81 MA's), (140, 40648),

Gene: Madiba_50 Start: 35664, Stop: 35894, Start Num: 79

Candidate Starts for Madiba_50:

(62, 35634), (Start: 79 @35664 has 150 MA's), (Start: 92 @35700 has 3 MA's), (139, 35760), (140, 35763),

Gene: Makemake_71 Start: 44586, Stop: 44317, Start Num: 76

Candidate Starts for Makemake_71:

(Start: 76 @44586 has 81 MA's), (102, 44532), (140, 44484),

Gene: Mana_52 Start: 47084, Stop: 46791, Start Num: 96

Candidate Starts for Mana_52:

(30, 47243), (49, 47186), (63, 47159), (Start: 74 @47138 has 20 MA's), (Start: 79 @47132 has 150 MA's), (Start: 96 @47084 has 62 MA's), (107, 47060), (132, 47012), (135, 47006), (140, 46982),

Gene: Maravista_54 Start: 38807, Stop: 39082, Start Num: 76

Candidate Starts for Maravista_54:

(60, 38777), (Start: 76 @38807 has 81 MA's), (140, 38918),

Gene: Maroc7_64 Start: 43049, Stop: 42780, Start Num: 76

Candidate Starts for Maroc7_64:

(Start: 76 @43049 has 81 MA's), (102, 42995), (140, 42947),

Gene: Marsha_65 Start: 43596, Stop: 43360, Start Num: 79

Candidate Starts for Marsha_65:

(Start: 79 @43596 has 150 MA's), (118, 43536),

Gene: Maru_53 Start: 47523, Stop: 47254, Start Num: 96

Candidate Starts for Maru_53:

(30, 47682), (49, 47625), (63, 47598), (Start: 74 @47577 has 20 MA's), (Start: 79 @47571 has 150 MA's), (Start: 96 @47523 has 62 MA's), (107, 47499), (132, 47451), (135, 47445), (140, 47421),

Gene: Melissauren88_50 Start: 36304, Stop: 36534, Start Num: 79

Candidate Starts for Melissauren88_50:

(62, 36274), (Start: 79 @36304 has 150 MA's), (Start: 92 @36340 has 3 MA's), (139, 36400), (140, 36403),

Gene: Mesh1_54 Start: 47616, Stop: 47323, Start Num: 96

Candidate Starts for Mesh1_54:

(30, 47775), (49, 47718), (Start: 74 @47670 has 20 MA's), (Start: 79 @47664 has 150 MA's), (Start: 96 @47616 has 62 MA's), (107, 47592), (132, 47544), (135, 47538), (140, 47514),

Gene: MiaZeal_144 Start: 74280, Stop: 74525, Start Num: 79

Candidate Starts for MiaZeal_144:

(25, 74145), (48, 74220), (55, 74235), (Start: 79 @74280 has 150 MA's), (129, 74352), (135, 74355), (136, 74358),

Gene: MiaZeal_83 Start: 49925, Stop: 49656, Start Num: 76

Candidate Starts for MiaZeal_83:

(Start: 76 @49925 has 81 MA's), (102, 49871), (140, 49823),

Gene: MilleniumForce_52 Start: 38325, Stop: 38558, Start Num: 79

Candidate Starts for MilleniumForce_52:

(62, 38295), (Start: 79 @38325 has 150 MA's), (Start: 92 @38361 has 3 MA's), (139, 38421), (140, 38424),

Gene: Minerva_89 Start: 56566, Stop: 56844, Start Num: 76

Candidate Starts for Minerva_89:

(72, 56560), (Start: 76 @56566 has 81 MA's), (140, 56677),

Gene: MinionDave_51 Start: 36841, Stop: 37071, Start Num: 79

Candidate Starts for MinionDave_51:

(62, 36811), (Start: 79 @36841 has 150 MA's), (Start: 92 @36877 has 3 MA's), (139, 36937), (140, 36940),

Gene: MissRona_77 Start: 48142, Stop: 48381, Start Num: 82

Candidate Starts for MissRona_77:

(1, 47395), (2, 47401), (3, 47407), (4, 47452), (14, 47890), (17, 47917), (21, 47980), (25, 48004), (48, 48079), (51, 48088), (Start: 82 @48142 has 4 MA's), (89, 48169), (179, 48307), (185, 48328), (195,

48376),

Gene: MitKao_53 Start: 47094, Stop: 46801, Start Num: 96

Candidate Starts for MitKao_53:

(30, 47253), (49, 47196), (63, 47169), (Start: 74 @47148 has 20 MA's), (Start: 79 @47142 has 150 MA's), (Start: 96 @47094 has 62 MA's), (107, 47070), (132, 47022), (135, 47016), (140, 46992),

Gene: MmasiCarm_52 Start: 45904, Stop: 45635, Start Num: 76

Candidate Starts for MmasiCarm_52:

(Start: 76 @45904 has 81 MA's), (102, 45850), (140, 45802), (195, 45646),

Gene: Modragons_38 Start: 31043, Stop: 30852, Start Num: 79

Candidate Starts for Modragons_38:

(Start: 79 @31043 has 150 MA's), (145, 30953),

Gene: Moonbeam_48 Start: 36361, Stop: 36591, Start Num: 79

Candidate Starts for Moonbeam_48:

(62, 36331), (Start: 79 @36361 has 150 MA's), (Start: 92 @36397 has 3 MA's), (139, 36457), (140, 36460),

Gene: Moosehead_58 Start: 34673, Stop: 34924, Start Num: 76

Candidate Starts for Moosehead_58:

(48, 34622), (51, 34631), (55, 34637), (56, 34640), (Start: 69 @34661 has 1 MA's), (71, 34664), (Start: 76 @34673 has 81 MA's), (144, 34805), (154, 34823),

Gene: Morgushi_53 Start: 47083, Stop: 46790, Start Num: 96

Candidate Starts for Morgushi_53:

(30, 47242), (49, 47185), (63, 47158), (Start: 74 @47137 has 20 MA's), (Start: 79 @47131 has 150 MA's), (Start: 96 @47083 has 62 MA's), (107, 47059), (132, 47011), (135, 47005), (140, 46981),

Gene: Morkie_59 Start: 36074, Stop: 36376, Start Num: 76

Candidate Starts for Morkie_59:

(37, 36002), (50, 36032), (61, 36050), (Start: 69 @36062 has 1 MA's), (71, 36065), (Start: 76 @36074 has 81 MA's), (Start: 97 @36122 has 1 MA's), (104, 36140), (124, 36161), (180, 36284),

Gene: Mortcellus_51 Start: 46511, Stop: 46242, Start Num: 76

Candidate Starts for Mortcellus_51:

(Start: 76 @46511 has 81 MA's), (102, 46457), (140, 46409), (195, 46253),

Gene: Mosaic_52 Start: 47088, Stop: 46795, Start Num: 96

Candidate Starts for Mosaic_52:

(30, 47247), (49, 47190), (63, 47163), (Start: 74 @47142 has 20 MA's), (Start: 79 @47136 has 150 MA's), (Start: 96 @47088 has 62 MA's), (107, 47064), (132, 47016), (135, 47010), (140, 46986),

Gene: Mova_53 Start: 36684, Stop: 36917, Start Num: 79

Candidate Starts for Mova_53:

(62, 36654), (Start: 79 @36684 has 150 MA's), (Start: 92 @36720 has 3 MA's), (139, 36780), (140, 36783),

Gene: Mova_66 Start: 41041, Stop: 41319, Start Num: 76

Candidate Starts for Mova_66:

(72, 41035), (Start: 76 @41041 has 81 MA's), (140, 41152),

Gene: Mozy_62 Start: 39946, Stop: 40173, Start Num: 77

Candidate Starts for Mozy_62:

(Start: 59 @39916 has 1 MA's), (Start: 77 @39946 has 7 MA's), (86, 39970), (117, 40012), (136, 40027), (139, 40045), (140, 40048), (154, 40078),

Gene: Mule_62 Start: 41651, Stop: 41406, Start Num: 79

Candidate Starts for Mule_62:

(Start: 79 @41651 has 150 MA's), (98, 41609), (107, 41597), (120, 41594), (140, 41555), (144, 41537),

Gene: Nappy_5 Start: 1734, Stop: 1961, Start Num: 96

Candidate Starts for Nappy_5:

(Start: 90 @1725 has 2 MA's), (Start: 96 @1734 has 62 MA's), (Start: 111 @1770 has 5 MA's), (Start: 116 @1779 has 1 MA's), (140, 1833), (162, 1872),

Gene: Nazo_58 Start: 40075, Stop: 40302, Start Num: 79

Candidate Starts for Nazo_58:

(41, 40012), (Start: 79 @40075 has 150 MA's), (141, 40174), (180, 40237),

Gene: Neos5_51 Start: 46209, Stop: 45940, Start Num: 76

Candidate Starts for Neos5_51:

(Start: 76 @46209 has 81 MA's), (102, 46155), (140, 46107),

Gene: Nicole21_54 Start: 47889, Stop: 47620, Start Num: 96

Candidate Starts for Nicole21_54:

(30, 48048), (49, 47991), (63, 47964), (Start: 74 @47943 has 20 MA's), (Start: 79 @47937 has 150 MA's), (Start: 96 @47889 has 62 MA's), (107, 47865), (132, 47817), (135, 47811), (140, 47787), (195, 47631),

Gene: NihilNomen_147 Start: 77126, Stop: 77371, Start Num: 79

Candidate Starts for NihilNomen_147:

(25, 76991), (55, 77081), (Start: 79 @77126 has 150 MA's), (129, 77198), (135, 77201),

Gene: NihilNomen_91 Start: 56718, Stop: 57014, Start Num: 76

Candidate Starts for NihilNomen_91:

(Start: 76 @56718 has 81 MA's), (112, 56796), (135, 56823), (140, 56847),

Gene: Nimbo_65 Start: 44790, Stop: 45017, Start Num: 79

Candidate Starts for Nimbo_65:

(Start: 79 @44790 has 150 MA's), (141, 44889),

Gene: Nozo_51 Start: 46173, Stop: 45904, Start Num: 76

Candidate Starts for Nozo_51:

(Start: 76 @46173 has 81 MA's), (102, 46119), (140, 46071),

Gene: NuevoMundo_6 Start: 1876, Stop: 2112, Start Num: 90

Candidate Starts for NuevoMundo_6:

(Start: 90 @1876 has 2 MA's), (Start: 96 @1885 has 62 MA's), (Start: 111 @1921 has 5 MA's), (Start: 116 @1930 has 1 MA's), (140, 1984), (162, 2023),

Gene: ODay_82 Start: 46976, Stop: 47251, Start Num: 74

Candidate Starts for ODay_82:

(34, 46892), (40, 46904), (44, 46916), (64, 46958), (Start: 70 @46967 has 5 MA's), (Start: 74 @46976 has 20 MA's), (95, 47021), (103, 47036), (121, 47057), (140, 47099), (142, 47111),

Gene: Obutu_52 Start: 45859, Stop: 45590, Start Num: 76
Candidate Starts for Obutu_52:
(Start: 76 @45859 has 81 MA's), (102, 45805), (140, 45757), (195, 45601),

Gene: Ochi17_37 Start: 30650, Stop: 30459, Start Num: 79
Candidate Starts for Ochi17_37:
(Start: 79 @30650 has 150 MA's), (145, 30560),

Gene: Odette_149 Start: 79269, Stop: 79514, Start Num: 79
Candidate Starts for Odette_149:
(25, 79134), (55, 79224), (Start: 79 @79269 has 150 MA's), (129, 79341), (135, 79344),

Gene: Odette_88 Start: 55760, Stop: 56056, Start Num: 76
Candidate Starts for Odette_88:
(Start: 76 @55760 has 81 MA's), (112, 55838), (135, 55865), (140, 55889),

Gene: OfUltron_39 Start: 31199, Stop: 31008, Start Num: 79
Candidate Starts for OfUltron_39:
(Start: 79 @31199 has 150 MA's), (145, 31109),

Gene: Ogopogo_57 Start: 37928, Stop: 38170, Start Num: 79
Candidate Starts for Ogopogo_57:
(Start: 74 @37922 has 20 MA's), (Start: 79 @37928 has 150 MA's), (140, 38039),

Gene: Oksu_39 Start: 31043, Stop: 30852, Start Num: 79
Candidate Starts for Oksu_39:
(Start: 79 @31043 has 150 MA's), (145, 30953),

Gene: OldBen_70 Start: 46182, Stop: 46409, Start Num: 79
Candidate Starts for OldBen_70:
(Start: 79 @46182 has 150 MA's), (141, 46281),

Gene: OneDirection_52 Start: 33066, Stop: 33362, Start Num: 74
Candidate Starts for OneDirection_52:
(58, 33039), (Start: 70 @33057 has 5 MA's), (Start: 74 @33066 has 20 MA's), (105, 33132), (144, 33219), (152, 33237), (172, 33264),

Gene: Oosterbaan_53 Start: 47374, Stop: 47081, Start Num: 96
Candidate Starts for Oosterbaan_53:
(30, 47533), (49, 47476), (63, 47449), (Start: 74 @47428 has 20 MA's), (Start: 79 @47422 has 150 MA's), (Start: 96 @47374 has 62 MA's), (107, 47350), (132, 47302), (135, 47296), (140, 47272),

Gene: Optimus_136 Start: 74406, Stop: 74651, Start Num: 79
Candidate Starts for Optimus_136:
(25, 74271), (48, 74346), (55, 74361), (Start: 79 @74406 has 150 MA's), (129, 74478), (135, 74481),

Gene: Optimus_84 Start: 55270, Stop: 55548, Start Num: 76
Candidate Starts for Optimus_84:
(72, 55264), (Start: 76 @55270 has 81 MA's), (140, 55381),

Gene: OrangeOswald_51 Start: 45414, Stop: 45145, Start Num: 76
Candidate Starts for OrangeOswald_51:
(Start: 76 @45414 has 81 MA's), (102, 45360), (140, 45312),

Gene: OwlsT2W_53 Start: 37646, Stop: 37888, Start Num: 79
Candidate Starts for OwlsT2W_53:
(62, 37616), (Start: 79 @37646 has 150 MA's), (139, 37754),

Gene: PHappiness_73 Start: 47011, Stop: 47238, Start Num: 79
Candidate Starts for PHappiness_73:
(Start: 79 @47011 has 150 MA's), (141, 47110),

Gene: PMC_49 Start: 37214, Stop: 37471, Start Num: 79
Candidate Starts for PMC_49:
(29, 37100), (33, 37112), (45, 37148), (Start: 70 @37199 has 5 MA's), (Start: 79 @37214 has 150 MA's), (140, 37325), (148, 37355),

Gene: Paraselene_66 Start: 43378, Stop: 43109, Start Num: 76
Candidate Starts for Paraselene_66:
(Start: 76 @43378 has 81 MA's), (102, 43324), (140, 43276),

Gene: Periwinkle_85 Start: 46796, Stop: 47035, Start Num: 99
Candidate Starts for Periwinkle_85:
(32, 46643), (52, 46700), (62, 46718), (94, 46787), (Start: 99 @46796 has 2 MA's), (131, 46853), (139, 46880), (141, 46892),

Gene: Periwinkle_62 Start: 38089, Stop: 38367, Start Num: 75
Candidate Starts for Periwinkle_62:
(Start: 75 @38089 has 6 MA's), (140, 38185), (170, 38251), (190, 38329),

Gene: Phabuloso_81 Start: 45523, Stop: 45816, Start Num: 74
Candidate Starts for Phabuloso_81:
(58, 45496), (Start: 70 @45514 has 5 MA's), (Start: 74 @45523 has 20 MA's), (105, 45589), (143, 45676), (192, 45799),

Gene: Phalconet_51 Start: 36608, Stop: 36838, Start Num: 79
Candidate Starts for Phalconet_51:
(62, 36578), (Start: 79 @36608 has 150 MA's), (Start: 92 @36644 has 3 MA's), (139, 36704), (140, 36707),

Gene: Phanphagia_47 Start: 36555, Stop: 36800, Start Num: 79
Candidate Starts for Phanphagia_47:
(55, 36510), (65, 36531), (Start: 79 @36555 has 150 MA's), (140, 36666),

Gene: Phasih_51 Start: 37693, Stop: 37935, Start Num: 79
Candidate Starts for Phasih_51:
(Start: 74 @37687 has 20 MA's), (Start: 79 @37693 has 150 MA's), (140, 37804),

Gene: Phayeta_53 Start: 45741, Stop: 45472, Start Num: 76
Candidate Starts for Phayeta_53:
(Start: 76 @45741 has 81 MA's), (102, 45687), (140, 45639), (195, 45483),

Gene: Phayonce_59 Start: 40788, Stop: 41024, Start Num: 79

Candidate Starts for Phayonce_59:

(19, 40608), (Start: 79 @40788 has 150 MA's), (139, 40881), (157, 40929), (182, 40959), (189, 40989), (195, 41010),

Gene: PherrisBueller_66 Start: 41317, Stop: 41090, Start Num: 79

Candidate Starts for PherrisBueller_66:

(Start: 79 @41317 has 150 MA's), (140, 41257),

Gene: PhesterPhotato_75 Start: 45749, Stop: 45976, Start Num: 79

Candidate Starts for PhesterPhotato_75:

(41, 45686), (Start: 79 @45749 has 150 MA's), (141, 45848),

Gene: PhesterPhotato_54 Start: 37593, Stop: 37826, Start Num: 79

Candidate Starts for PhesterPhotato_54:

(62, 37563), (Start: 79 @37593 has 150 MA's), (Start: 92 @37629 has 3 MA's), (139, 37689), (140, 37692),

Gene: Philly_50 Start: 45265, Stop: 44996, Start Num: 76

Candidate Starts for Philly_50:

(Start: 76 @45265 has 81 MA's), (102, 45211), (140, 45163),

Gene: Phistory_72 Start: 42511, Stop: 42852, Start Num: 70

Candidate Starts for Phistory_72:

(27, 42406), (46, 42466), (Start: 70 @42511 has 5 MA's), (105, 42589), (139, 42655), (163, 42718),

Gene: Phlyer_51 Start: 46154, Stop: 45885, Start Num: 76

Candidate Starts for Phlyer_51:

(Start: 76 @46154 has 81 MA's), (102, 46100), (140, 46052),

Gene: Phoebus_92 Start: 57900, Stop: 58196, Start Num: 76

Candidate Starts for Phoebus_92:

(Start: 76 @57900 has 81 MA's), (112, 57978), (135, 58005), (140, 58029),

Gene: Phoebus_145 Start: 79020, Stop: 79265, Start Num: 79

Candidate Starts for Phoebus_145:

(25, 78885), (48, 78960), (55, 78975), (Start: 79 @79020 has 150 MA's), (129, 79092), (135, 79095),

Gene: PhorbesPhlower_55 Start: 35141, Stop: 35443, Start Num: 76

Candidate Starts for PhorbesPhlower_55:

(37, 35069), (50, 35099), (61, 35117), (Start: 69 @35129 has 1 MA's), (71, 35132), (Start: 76 @35141 has 81 MA's), (Start: 97 @35189 has 1 MA's), (104, 35207), (124, 35228), (180, 35351),

Gene: PhrostyMug_65 Start: 43825, Stop: 43580, Start Num: 79

Candidate Starts for PhrostyMug_65:

(Start: 79 @43825 has 150 MA's), (98, 43783), (107, 43771), (120, 43768), (140, 43729), (144, 43711),

Gene: Pier_6 Start: 1888, Stop: 2115, Start Num: 96

Candidate Starts for Pier_6:

(Start: 90 @1879 has 2 MA's), (Start: 96 @1888 has 62 MA's), (Start: 111 @1924 has 5 MA's), (Start: 116 @1933 has 1 MA's), (140, 1987), (162, 2026),

Gene: Poenanya_76 Start: 46880, Stop: 47107, Start Num: 79

Candidate Starts for Poenanya_76:
(Start: 79 @46880 has 150 MA's), (141, 46979),

Gene: Poenanya_52 Start: 38179, Stop: 38421, Start Num: 79
Candidate Starts for Poenanya_52:
(62, 38149), (Start: 79 @38179 has 150 MA's), (139, 38287),

Gene: Polka14_77 Start: 47670, Stop: 47897, Start Num: 79
Candidate Starts for Polka14_77:
(Start: 79 @47670 has 150 MA's), (141, 47769),

Gene: Polka14_51 Start: 36782, Stop: 37027, Start Num: 79
Candidate Starts for Polka14_51:
(Start: 79 @36782 has 150 MA's), (139, 36890),

Gene: Polkaroo_55 Start: 37375, Stop: 37602, Start Num: 79
Candidate Starts for Polkaroo_55:
(41, 37312), (Start: 79 @37375 has 150 MA's), (141, 37474),

Gene: Pollywog_50 Start: 37066, Stop: 37320, Start Num: 79
Candidate Starts for Pollywog_50:
(52, 37018), (65, 37042), (Start: 79 @37066 has 150 MA's), (145, 37177),

Gene: Porcelain_141 Start: 74087, Stop: 74332, Start Num: 79
Candidate Starts for Porcelain_141:
(25, 73952), (48, 74027), (55, 74042), (Start: 79 @74087 has 150 MA's), (129, 74159), (135, 74162),
(136, 74165),

Gene: Porcelain_82 Start: 49925, Stop: 49656, Start Num: 76
Candidate Starts for Porcelain_82:
(Start: 76 @49925 has 81 MA's), (102, 49871), (140, 49823),

Gene: Potter_52 Start: 47105, Stop: 46812, Start Num: 96
Candidate Starts for Potter_52:
(30, 47264), (49, 47207), (63, 47180), (Start: 74 @47159 has 20 MA's), (Start: 79 @47153 has 150 MA's), (Start: 96 @47105 has 62 MA's), (107, 47081), (132, 47033), (135, 47027), (140, 47003),

Gene: Pound_137 Start: 76839, Stop: 77084, Start Num: 79
Candidate Starts for Pound_137:
(25, 76704), (48, 76779), (55, 76794), (Start: 79 @76839 has 150 MA's), (129, 76911), (135, 76914),

Gene: Pringar_6 Start: 1866, Stop: 2138, Start Num: 76
Candidate Starts for Pringar_6:
(Start: 76 @1866 has 81 MA's), (113, 1929), (140, 1971),

Gene: Puhltonio_53 Start: 47379, Stop: 47086, Start Num: 96
Candidate Starts for Puhltonio_53:
(30, 47538), (49, 47481), (63, 47454), (Start: 74 @47433 has 20 MA's), (Start: 79 @47427 has 150 MA's), (Start: 96 @47379 has 62 MA's), (107, 47355), (132, 47307), (135, 47301), (140, 47277),

Gene: Purky_63 Start: 41280, Stop: 41552, Start Num: 80
Candidate Starts for Purky_63:

(Start: 80 @41280 has 2 MA's), (85, 41295), (128, 41364), (139, 41388), (148, 41421), (162, 41439), (189, 41517), (193, 41538),

Gene: QueenBeane_53 Start: 47369, Stop: 47076, Start Num: 96

Candidate Starts for QueenBeane_53:

(30, 47528), (49, 47471), (63, 47444), (Start: 74 @47423 has 20 MA's), (Start: 79 @47417 has 150 MA's), (Start: 96 @47369 has 62 MA's), (107, 47345), (132, 47297), (135, 47291), (140, 47267),

Gene: QuickMath_66 Start: 43318, Stop: 43566, Start Num: 79

Candidate Starts for QuickMath_66:

(Start: 79 @43318 has 150 MA's), (129, 43381), (145, 43423),

Gene: Rando14_64 Start: 42240, Stop: 42497, Start Num: 54

Candidate Starts for Rando14_64:

(44, 42219), (Start: 54 @42240 has 2 MA's), (87, 42300), (140, 42360), (147, 42390), (182, 42435),

Gene: RedBird_74 Start: 45372, Stop: 45599, Start Num: 79

Candidate Starts for RedBird_74:

(Start: 79 @45372 has 150 MA's), (141, 45471),

Gene: RedRaider77_9 Start: 2886, Stop: 3152, Start Num: 93

Candidate Starts for RedRaider77_9:

(66, 2829), (Start: 93 @2886 has 2 MA's), (Start: 111 @2922 has 5 MA's), (139, 2982), (140, 2985), (195, 3141),

Gene: Redno2_140 Start: 75128, Stop: 75373, Start Num: 79

Candidate Starts for Redno2_140:

(25, 74993), (55, 75083), (Start: 79 @75128 has 150 MA's), (129, 75200), (135, 75203),

Gene: Renaud18_58 Start: 38221, Stop: 38445, Start Num: 79

Candidate Starts for Renaud18_58:

(62, 38191), (Start: 79 @38221 has 150 MA's), (Start: 92 @38254 has 3 MA's), (120, 38278), (139, 38311),

Gene: Renaud18_70 Start: 41973, Stop: 42221, Start Num: 79

Candidate Starts for Renaud18_70:

(63, 41946), (Start: 79 @41973 has 150 MA's), (133, 42069), (139, 42093), (155, 42126),

Gene: Renaud18_71 Start: 42261, Stop: 42503, Start Num: 79

Candidate Starts for Renaud18_71:

(Start: 79 @42261 has 150 MA's), (84, 42276), (140, 42354), (165, 42414),

Gene: Rita1961_52 Start: 45860, Stop: 45591, Start Num: 76

Candidate Starts for Rita1961_52:

(Start: 76 @45860 has 81 MA's), (102, 45806), (140, 45758), (195, 45602),

Gene: RitaG_73 Start: 46813, Stop: 47040, Start Num: 79

Candidate Starts for RitaG_73:

(Start: 79 @46813 has 150 MA's), (141, 46912),

Gene: Rockne_53 Start: 37214, Stop: 37471, Start Num: 79

Candidate Starts for Rockne_53:

(29, 37100), (33, 37112), (45, 37148), (Start: 70 @37199 has 5 MA's), (Start: 79 @37214 has 150 MA's), (140, 37325), (148, 37355),

Gene: RockyHorror_53 Start: 37057, Stop: 37299, Start Num: 79
Candidate Starts for RockyHorror_53:
(62, 37027), (Start: 79 @37057 has 150 MA's), (140, 37168),

Gene: Royals2015_55 Start: 37315, Stop: 37545, Start Num: 79
Candidate Starts for Royals2015_55:
(62, 37285), (Start: 79 @37315 has 150 MA's), (Start: 92 @37351 has 3 MA's), (139, 37411), (140, 37414),

Gene: Ryadel_103 Start: 62455, Stop: 62225, Start Num: 111
Candidate Starts for Ryadel_103:
(Start: 93 @62491 has 2 MA's), (Start: 111 @62455 has 5 MA's), (139, 62395), (140, 62392),

Gene: SG4_69 Start: 43478, Stop: 43705, Start Num: 79
Candidate Starts for SG4_69:
(Start: 79 @43478 has 150 MA's), (141, 43577),

Gene: SG4_49 Start: 36037, Stop: 36267, Start Num: 79
Candidate Starts for SG4_49:
(60, 36004), (62, 36007), (Start: 79 @36037 has 150 MA's), (Start: 92 @36073 has 3 MA's), (139, 36133), (140, 36136),

Gene: Samaymay_53 Start: 47369, Stop: 47076, Start Num: 96
Candidate Starts for Samaymay_53:
(30, 47528), (49, 47471), (63, 47444), (Start: 74 @47423 has 20 MA's), (Start: 79 @47417 has 150 MA's), (Start: 96 @47369 has 62 MA's), (107, 47345), (132, 47297), (135, 47291), (140, 47267),

Gene: Samman98_60 Start: 39796, Stop: 40041, Start Num: 75
Candidate Starts for Samman98_60:
(Start: 75 @39796 has 6 MA's), (91, 39835), (178, 39985),

Gene: Sassafras_74 Start: 45702, Stop: 45929, Start Num: 79
Candidate Starts for Sassafras_74:
(Start: 79 @45702 has 150 MA's), (141, 45801),

Gene: Sassafras_50 Start: 36161, Stop: 36394, Start Num: 77
Candidate Starts for Sassafras_50:
(Start: 59 @36131 has 1 MA's), (Start: 77 @36161 has 7 MA's), (86, 36185), (117, 36227), (136, 36242), (139, 36260), (140, 36263),

Gene: SassyCat97_52 Start: 47096, Stop: 46803, Start Num: 96
Candidate Starts for SassyCat97_52:
(30, 47255), (49, 47198), (63, 47171), (Start: 74 @47150 has 20 MA's), (Start: 79 @47144 has 150 MA's), (Start: 96 @47096 has 62 MA's), (107, 47072), (132, 47024), (135, 47018), (140, 46994),

Gene: Schatzie_85 Start: 55507, Stop: 55803, Start Num: 76
Candidate Starts for Schatzie_85:
(Start: 76 @55507 has 81 MA's), (112, 55585), (135, 55612), (140, 55636),

Gene: Schatzie_141 Start: 77688, Stop: 77933, Start Num: 79

Candidate Starts for Schatzie_141:
(25, 77553), (48, 77628), (55, 77643), (Start: 79 @77688 has 150 MA's), (129, 77760), (135, 77763),

Gene: Scottish_71 Start: 45361, Stop: 45588, Start Num: 79
Candidate Starts for Scottish_71:
(Start: 79 @45361 has 150 MA's), (141, 45460),

Gene: Seabastian_39 Start: 31199, Stop: 31008, Start Num: 79
Candidate Starts for Seabastian_39:
(Start: 79 @31199 has 150 MA's), (145, 31109),

Gene: Sebata_6 Start: 2738, Stop: 2995, Start Num: 96
Candidate Starts for Sebata_6:
(Start: 90 @2729 has 2 MA's), (Start: 96 @2738 has 62 MA's), (107, 2762), (130, 2804), (136, 2819),
(139, 2837), (140, 2840), (186, 2936),

Gene: Serendipity_53 Start: 47393, Stop: 47100, Start Num: 96
Candidate Starts for Serendipity_53:
(30, 47552), (49, 47495), (63, 47468), (Start: 74 @47447 has 20 MA's), (Start: 79 @47441 has 150
MA's), (Start: 96 @47393 has 62 MA's), (107, 47369), (132, 47321), (135, 47315), (140, 47291),

Gene: Shauna1_47 Start: 36503, Stop: 36781, Start Num: 76
Candidate Starts for Shauna1_47:
(36, 36419), (43, 36437), (63, 36479), (Start: 76 @36503 has 81 MA's), (140, 36614),

Gene: ShroomBoi_52 Start: 36993, Stop: 37238, Start Num: 79
Candidate Starts for ShroomBoi_52:
(38, 36909), (46, 36927), (65, 36969), (Start: 79 @36993 has 150 MA's), (140, 37104),

Gene: SirHarley_86 Start: 60117, Stop: 60344, Start Num: 78
Candidate Starts for SirHarley_86:
(26, 59994), (Start: 78 @60117 has 6 MA's), (91, 60153), (Start: 97 @60162 has 1 MA's), (140,
60216),

Gene: Sixama_7 Start: 2706, Stop: 2383, Start Num: 69
Candidate Starts for Sixama_7:
(Start: 69 @2706 has 1 MA's), (Start: 97 @2649 has 1 MA's), (110, 2619), (127, 2592), (159, 2502),

Gene: Smairt_67 Start: 44819, Stop: 44574, Start Num: 79
Candidate Starts for Smairt_67:
(Start: 79 @44819 has 150 MA's), (98, 44777), (107, 44765), (120, 44762), (140, 44723), (144,
44705),

Gene: Smooch_99 Start: 62468, Stop: 62202, Start Num: 93
Candidate Starts for Smooch_99:
(Start: 93 @62468 has 2 MA's), (Start: 111 @62432 has 5 MA's), (139, 62372), (140, 62369),

Gene: Soile_54 Start: 47617, Stop: 47348, Start Num: 96
Candidate Starts for Soile_54:
(30, 47776), (49, 47719), (63, 47692), (Start: 74 @47671 has 20 MA's), (Start: 79 @47665 has 150
MA's), (Start: 96 @47617 has 62 MA's), (107, 47593), (132, 47545), (135, 47539), (140, 47515), (195,
47359),

Gene: Solosis_52 Start: 47090, Stop: 46797, Start Num: 96
Candidate Starts for Solosis_52:
(30, 47249), (49, 47192), (63, 47165), (Start: 74 @47144 has 20 MA's), (Start: 79 @47138 has 150 MA's), (Start: 96 @47090 has 62 MA's), (107, 47066), (132, 47018), (135, 47012), (140, 46988),

Gene: Sophia_52 Start: 47084, Stop: 46791, Start Num: 96
Candidate Starts for Sophia_52:
(30, 47243), (49, 47186), (63, 47159), (Start: 74 @47138 has 20 MA's), (Start: 79 @47132 has 150 MA's), (Start: 96 @47084 has 62 MA's), (107, 47060), (132, 47012), (135, 47006), (140, 46982),

Gene: Sparkdehlily_60 Start: 38797, Stop: 39039, Start Num: 79
Candidate Starts for Sparkdehlily_60:
(Start: 74 @38791 has 20 MA's), (Start: 79 @38797 has 150 MA's), (140, 38908),

Gene: Specks_6 Start: 1888, Stop: 2115, Start Num: 96
Candidate Starts for Specks_6:
(Start: 90 @1879 has 2 MA's), (Start: 96 @1888 has 62 MA's), (Start: 111 @1924 has 5 MA's), (Start: 116 @1933 has 1 MA's), (140, 1987), (162, 2026),

Gene: Spooky_78 Start: 45719, Stop: 45976, Start Num: 75
Candidate Starts for Spooky_78:
(Start: 75 @45719 has 6 MA's), (88, 45749), (91, 45758), (106, 45782),

Gene: Squid_53 Start: 47096, Stop: 46803, Start Num: 96
Candidate Starts for Squid_53:
(30, 47255), (49, 47198), (63, 47171), (Start: 74 @47150 has 20 MA's), (Start: 79 @47144 has 150 MA's), (Start: 96 @47096 has 62 MA's), (107, 47072), (132, 47024), (135, 47018), (140, 46994),

Gene: Squint_83 Start: 50044, Stop: 49775, Start Num: 76
Candidate Starts for Squint_83:
(Start: 76 @50044 has 81 MA's), (102, 49990), (140, 49942),

Gene: StephanieG_6 Start: 1933, Stop: 2115, Start Num: 116
Candidate Starts for StephanieG_6:
(Start: 90 @1879 has 2 MA's), (Start: 96 @1888 has 62 MA's), (Start: 111 @1924 has 5 MA's), (Start: 116 @1933 has 1 MA's), (140, 1987), (162, 2026),

Gene: Sunshine924_70 Start: 43095, Stop: 42850, Start Num: 79
Candidate Starts for Sunshine924_70:
(Start: 79 @43095 has 150 MA's), (98, 43053), (107, 43041), (120, 43038), (140, 42999), (144, 42981),

Gene: SuperGrey_52 Start: 37962, Stop: 38207, Start Num: 79
Candidate Starts for SuperGrey_52:
(38, 37878), (46, 37896), (65, 37938), (Start: 79 @37962 has 150 MA's), (140, 38073),

Gene: Surely_53 Start: 47386, Stop: 47093, Start Num: 96
Candidate Starts for Surely_53:
(30, 47545), (49, 47488), (63, 47461), (Start: 74 @47440 has 20 MA's), (Start: 79 @47434 has 150 MA's), (Start: 96 @47386 has 62 MA's), (107, 47362), (132, 47314), (135, 47308), (140, 47284),

Gene: SynergyX_51 Start: 45415, Stop: 45146, Start Num: 76
Candidate Starts for SynergyX_51:

(Start: 76 @45415 has 81 MA's), (102, 45361), (140, 45313),

Gene: TDanisky_60 Start: 38797, Stop: 39039, Start Num: 79

Candidate Starts for TDanisky_60:

(Start: 74 @38791 has 20 MA's), (Start: 79 @38797 has 150 MA's), (140, 38908),

Gene: Tainan_6 Start: 1924, Stop: 2115, Start Num: 111

Candidate Starts for Tainan_6:

(Start: 90 @1879 has 2 MA's), (Start: 96 @1888 has 62 MA's), (Start: 111 @1924 has 5 MA's), (Start: 116 @1933 has 1 MA's), (140, 1987), (162, 2026),

Gene: Taj_56 Start: 38142, Stop: 38369, Start Num: 79

Candidate Starts for Taj_56:

(62, 38112), (Start: 79 @38142 has 150 MA's), (Start: 92 @38175 has 3 MA's), (120, 38199), (139, 38232),

Gene: TallGrassMM_53 Start: 47000, Stop: 46707, Start Num: 96

Candidate Starts for TallGrassMM_53:

(30, 47159), (49, 47102), (63, 47075), (Start: 74 @47054 has 20 MA's), (Start: 79 @47048 has 150 MA's), (Start: 96 @47000 has 62 MA's), (107, 46976), (132, 46928), (135, 46922), (140, 46898),

Gene: Tarzan_58 Start: 37656, Stop: 37880, Start Num: 54

Candidate Starts for Tarzan_58:

(Start: 54 @37656 has 2 MA's), (81, 37692), (149, 37785), (184, 37833),

Gene: Thora_53 Start: 47382, Stop: 47089, Start Num: 96

Candidate Starts for Thora_53:

(30, 47541), (49, 47484), (63, 47457), (Start: 74 @47436 has 20 MA's), (Start: 79 @47430 has 150 MA's), (Start: 96 @47382 has 62 MA's), (107, 47358), (132, 47310), (135, 47304), (140, 47280),

Gene: ThreeRngTarjay_140 Start: 77611, Stop: 77856, Start Num: 79

Candidate Starts for ThreeRngTarjay_140:

(25, 77476), (48, 77551), (55, 77566), (Start: 79 @77611 has 150 MA's), (129, 77683), (135, 77686),

Gene: ThreeRngTarjay_87 Start: 56792, Stop: 57088, Start Num: 76

Candidate Starts for ThreeRngTarjay_87:

(Start: 76 @56792 has 81 MA's), (112, 56870), (135, 56897), (140, 56921),

Gene: Timmi_52 Start: 47085, Stop: 46792, Start Num: 96

Candidate Starts for Timmi_52:

(30, 47244), (49, 47187), (63, 47160), (Start: 74 @47139 has 20 MA's), (Start: 79 @47133 has 150 MA's), (Start: 96 @47085 has 62 MA's), (107, 47061), (132, 47013), (135, 47007), (140, 46983),

Gene: TinyDot_48 Start: 31963, Stop: 32163, Start Num: 99

Candidate Starts for TinyDot_48:

(Start: 99 @31963 has 2 MA's), (168, 32071), (171, 32074),

Gene: TomBombadil_53 Start: 47370, Stop: 47077, Start Num: 96

Candidate Starts for TomBombadil_53:

(30, 47529), (49, 47472), (63, 47445), (Start: 74 @47424 has 20 MA's), (Start: 79 @47418 has 150 MA's), (Start: 96 @47370 has 62 MA's), (107, 47346), (132, 47298), (135, 47292), (140, 47268),

Gene: Tonenili_49 Start: 15568, Stop: 15810, Start Num: 77

Candidate Starts for Tonenili_49:

(67, 15550), (Start: 77 @15568 has 7 MA's), (86, 15592), (117, 15634), (136, 15649), (140, 15670), (153, 15700), (164, 15718), (181, 15739),

Gene: Tonenili_50 Start: 15803, Stop: 16036, Start Num: 79

Candidate Starts for Tonenili_50:

(Start: 74 @15797 has 20 MA's), (Start: 79 @15803 has 150 MA's), (95, 15839), (134, 15875), (139, 15896), (176, 15962), (180, 15971),

Gene: Trine_55 Start: 39935, Stop: 39684, Start Num: 79

Candidate Starts for Trine_55:

(Start: 79 @39935 has 150 MA's), (133, 39860), (160, 39788),

Gene: Troll4_84 Start: 59937, Stop: 60161, Start Num: 78

Candidate Starts for Troll4_84:

(26, 59811), (28, 59820), (Start: 78 @59937 has 6 MA's), (133, 60033), (140, 60060), (177, 60111),

Gene: Tweety_52 Start: 37774, Stop: 38004, Start Num: 79

Candidate Starts for Tweety_52:

(62, 37744), (Start: 79 @37774 has 150 MA's), (Start: 92 @37810 has 3 MA's), (139, 37870), (140, 37873),

Gene: Tyke_6 Start: 1888, Stop: 2115, Start Num: 96

Candidate Starts for Tyke_6:

(Start: 90 @1879 has 2 MA's), (Start: 96 @1888 has 62 MA's), (Start: 111 @1924 has 5 MA's), (Start: 116 @1933 has 1 MA's), (140, 1987), (162, 2026),

Gene: VRedHorse_52 Start: 36525, Stop: 36758, Start Num: 79

Candidate Starts for VRedHorse_52:

(62, 36495), (Start: 79 @36525 has 150 MA's), (Start: 92 @36561 has 3 MA's), (139, 36621), (140, 36624),

Gene: VanLee_73 Start: 43882, Stop: 44154, Start Num: 79

Candidate Starts for VanLee_73:

(Start: 79 @43882 has 150 MA's), (124, 43969), (135, 43987), (151, 44041),

Gene: VanLee_59 Start: 39559, Stop: 39819, Start Num: 79

Candidate Starts for VanLee_59:

(Start: 79 @39559 has 150 MA's),

Gene: VasuNzinga_8 Start: 2535, Stop: 2807, Start Num: 76

Candidate Starts for VasuNzinga_8:

(Start: 76 @2535 has 81 MA's), (113, 2598), (140, 2640),

Gene: Venti_53 Start: 36036, Stop: 36263, Start Num: 79

Candidate Starts for Venti_53:

(41, 35973), (Start: 79 @36036 has 150 MA's), (141, 36135),

Gene: Vortex_53 Start: 47080, Stop: 46787, Start Num: 96

Candidate Starts for Vortex_53:

(30, 47239), (49, 47182), (63, 47155), (Start: 74 @47134 has 20 MA's), (Start: 79 @47128 has 150 MA's), (Start: 96 @47080 has 62 MA's), (107, 47056), (132, 47008), (135, 47002), (140, 46978),

Gene: Wanda_94 Start: 55909, Stop: 56205, Start Num: 76
Candidate Starts for Wanda_94:
(72, 55903), (Start: 76 @55909 has 81 MA's), (112, 55987), (135, 56014), (140, 56038),

Gene: Wee_55 Start: 38414, Stop: 38641, Start Num: 79
Candidate Starts for Wee_55:
(62, 38384), (Start: 79 @38414 has 150 MA's), (Start: 92 @38447 has 3 MA's), (120, 38471), (139, 38504),

Gene: Whatsapiecost_53 Start: 36689, Stop: 36931, Start Num: 79
Candidate Starts for Whatsapiecost_53:
(Start: 79 @36689 has 150 MA's), (140, 36800),

Gene: Whitney_75 Start: 45513, Stop: 45800, Start Num: 74
Candidate Starts for Whitney_75:
(68, 45501), (Start: 70 @45504 has 5 MA's), (Start: 74 @45513 has 20 MA's), (105, 45579), (139, 45645), (141, 45657),

Gene: William_80 Start: 49369, Stop: 49632, Start Num: 79
Candidate Starts for William_80:
(9, 49048), (11, 49063), (13, 49099), (Start: 79 @49369 has 150 MA's), (91, 49405), (124, 49456),

Gene: WilliamBoone_96 Start: 57383, Stop: 57652, Start Num: 79
Candidate Starts for WilliamBoone_96:
(Start: 79 @57383 has 150 MA's), (135, 57488), (161, 57554),

Gene: XFactor_50 Start: 36012, Stop: 36242, Start Num: 79
Candidate Starts for XFactor_50:
(62, 35982), (Start: 79 @36012 has 150 MA's), (Start: 92 @36048 has 3 MA's), (139, 36108), (140, 36111),

Gene: Xavier_52 Start: 47087, Stop: 46794, Start Num: 96
Candidate Starts for Xavier_52:
(30, 47246), (49, 47189), (63, 47162), (Start: 74 @47141 has 20 MA's), (Start: 79 @47135 has 150 MA's), (Start: 96 @47087 has 62 MA's), (107, 47063), (132, 47015), (135, 47009), (140, 46985),

Gene: Yeet_83 Start: 55009, Stop: 55305, Start Num: 76
Candidate Starts for Yeet_83:
(Start: 76 @55009 has 81 MA's), (112, 55087), (135, 55114), (140, 55138),

Gene: Yeet_139 Start: 77084, Stop: 77329, Start Num: 79
Candidate Starts for Yeet_139:
(25, 76949), (55, 77039), (Start: 79 @77084 has 150 MA's), (129, 77156), (135, 77159),

Gene: Yoshi_64 Start: 38747, Stop: 38995, Start Num: 78
Candidate Starts for Yoshi_64:
(61, 38717), (Start: 78 @38747 has 6 MA's), (133, 38843), (139, 38867), (155, 38900),

Gene: Yoshi_44 Start: 30151, Stop: 29960, Start Num: 79
Candidate Starts for Yoshi_44:
(Start: 79 @30151 has 150 MA's), (145, 30061),

Gene: YungJamal_99 Start: 61508, Stop: 61278, Start Num: 111

Candidate Starts for YungJamal_99:

(Start: 93 @61544 has 2 MA's), (Start: 111 @61508 has 5 MA's), (139, 61448), (140, 61445),

Gene: Zelda_53 Start: 47424, Stop: 47131, Start Num: 96

Candidate Starts for Zelda_53:

(30, 47583), (49, 47526), (63, 47499), (Start: 74 @47478 has 20 MA's), (Start: 79 @47472 has 150 MA's), (Start: 96 @47424 has 62 MA's), (107, 47400), (132, 47352), (135, 47346), (140, 47322),

Gene: Zelink_87 Start: 57104, Stop: 57400, Start Num: 76

Candidate Starts for Zelink_87:

(Start: 76 @57104 has 81 MA's), (112, 57182), (135, 57209), (140, 57233),

Gene: Zerg_52 Start: 37166, Stop: 37408, Start Num: 79

Candidate Starts for Zerg_52:

(62, 37136), (Start: 79 @37166 has 150 MA's), (140, 37277),