

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 294411 Report

This analysis was run 04/18/26 on database version 643.

Pham number 294411 has 233 members, 38 are drafts.

Phages represented in each track:

- Track 1 : WST1_43
- Track 2 : GoldenSpark_97, Bruin_90, HanKaySha_94, ShereKhan_91, Lilpickle_92, Dumbo_93, Adnama_97, Hopey_94, BigBubba_93, SophKB_90, FireRed_97, Thresher_96, IHOP_91, Czyszczonek_94, Dusk_90, Thimble_95, Bench_96, TBrady12_96, Command613_95, MPhalcon_94, Harella_93, BugsBunny_93, Stark_95, Qualification_94, Filch_95, Terminus_96, Policronamos_96, Rakim_94, Palpatine_95, Mosby_89, Gemini_98, Ukulele_88, Marshmallow_91, FairyPath_93, Henry_91, CrystalP_92, 244_94, Willez_88, Mindy_92, AmericanBeauty_97, Myrale_93, Easy2Say_94, Manda_95, Cjw1_94, Teaspoon_94, NelitzaMV_91, HufflyPuff_95, Nimrod_94, Pumpkin_97, StellaBean_91, Kostya_93, Moldemort_96, YassJohnny_90, Eureka_92, ShamWow_93, Cactus_96, Traaww1_89, ChosenOne_93, TeardropMSU_89, Tomaszewski_88, Hoonter_96, BadStone_90, ABCat_90, BaboJay_93, Inca_90, Sassay_88, NoSleep_94, Wiggin_95, Phaja_91, Stank_95, SirDuracell_93, Emmina_93, Simpliphy_92, Youngblood_96, Sotrice96_94, RiverMonster_94, Goku_92, GooberAzure_96, Argent26_97, Elite2014_92, Brewer_88, Highbury_92, Murphy_93, BilboSwaggins_91, Holt_98, Contagion_89, Xandras_92, Kanye_90, MadamMonkfish_93, Murica_96, Paperbeatsrock_92, Lilac_96, Misfit_94, Bogg_93, Nala_95, Maxxinista_96, JeTaime_94, Asriel_91, Pharsalus_90, Flypotenuse_89, StolenFromERC_96, Barbarian_92, Elph10_94, DrDrey_93, Tuco_94, NonchalantPear_91, PhatBacter_97, PaddyBaddy_94, Toto_91, Miniwave_88, OrionPax_92, Amao_93, Greep_97, Lilizi_94, xkcd_96, Goldilocks_96, MISSy_94, Porky_92, Ptowny_90, Phaux_96, Kimchi_97, Tarkin_92, Icee_94, MollyToe_88, Glexan_92, Saints25_92, Becksu_92, Phrux_91, Gage_95
- Track 3 : Petra64142_98, DoctorDiddles_92, Pat3_90, Balomoji_93, Gator_91, Cookies_90, Rimmer_91, Buck_94, FoghornLeghorn_87, Bask21_93, Daikon_94, TeamEdward_93, ChotaBhai_93, StormChicken_95
- Track 4 : Budgie_101
- Track 5 : Alex44_7
- Track 6 : ThirteenKH_7, TrippleS_7, Atraxi_7, Morrill_7, Yafa_7
- Track 7 : Astartes_7, RicoCaldo_7, Fullmetal_7, Moleficent_7, PhriedRice_7, StagePhright_7
- Track 8 : Taj_63
- Track 9 : Acquire49_78, MAckerman_76, Zaria_79, Wyatt2_79
- Track 10 : UPIE_77, Rose5_78, Wamburgxpress_78, LeBron_77, CicholasNage_75, AvadaKedavra_78
- Track 11 : Enceladus_75

- Track 12 : Appletree2_77, DirkDirk_75, OhShagHennessy_75, JoeDirt_78, Poochiewood_76
- Track 13 : Tyson_79, Halena_76, Silverleaf_78, Calm_80
- Track 14 : Gardann_81, Kahlid_81, Breezona_81, Faith1_81, MkaliMitinis3_82, Zakai_82, Winky_81, Miley16_81, Rumpelstiltskin_78, Itos_80, Wilder_82
- Track 15 : Lynnae_83, SoJulia_83, Loadrie_80, BobsGarage_81, Sarshaun_82, GuuelaD_79, OverPar_83, DrSeegs_81, BigCheese_81, Nicholasp3_81, Lewan_82, Crossroads_81, Soap141_81, Netyap_82, Gabriela_80, Underpass_72
- Track 16 : Hafay_82, ZhongYanYuan_78, DHan_84, Wigglewiggles_80
- Track 17 : Finemlucis_80
- Track 18 : Archie_78
- Track 19 : Rossetti_82
- Track 20 : LilDestine_80, Vetrrix_80
- Track 21 : DanBing_81, Baoshan_79
- Track 22 : Bazzle_78
- Track 23 : Tourach_80
- Track 24 : Claus_80
- Track 25 : DyoEdafos_83, Kropertea_75
- Track 26 : BrainDrainer_79, PYPDinur_78
- Track 27 : FarmResident_80
- Track 28 : Quby_79
- Track 29 : Sheng711_80
- Track 30 : Chaser_77
- Track 31 : ChutneyChips_77
- Track 32 : Douzhi_79
- Track 33 : Bromden_79
- Track 34 : Douge_78
- Track 35 : Baudelaire_88, Aegeus_88

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

The start number called the most often in the published annotations is 9, it was called in 128 of the 195 non-draft genes in the pham.

Genes that call this "Most Annotated" start:

- 244_94, ABCat_90, Adnama_97, Amao_93, AmericanBeauty_97, Argent26_97, Asriel_91, BaboJay_93, BadStone_90, Balomoji_93, Barbarian_92, Bask21_93, Becksu_92, Bench_96, BigBubba_93, BilboSwaggins_91, Bogg_93, Brewer_88, Bruin_90, Buck_94, Budgie_101, BugsBunny_93, Cactus_96, ChosenOne_93, ChotaBhai_93, Cjw1_94, Command613_95, Contagion_89, Cookies_90, CrystalP_92, Czyszczonek1_94, Daikon_94, DoctorDiddles_92, DrDrey_93, Dumbo_93, Dusk_90, Easy2Say_94, Elite2014_92, Elph10_94, Emmina_93, Eureka_92, FairyPath_93, Filch_95, FireRed_97, Flypotenuse_89, FoghornLeghorn_87, Gage_95, Gator_91, Gemini_98, Glexan_92, Goku_92, GoldenSpark_97, Goldilocks_96, GooberAzure_96, Greep_97, HanKaySha_94, Harella_93, Henry_91, Highbury_92, Holt_98, Hoonter_96, Hopey_94, HuffyPuff_95, IHOP_91, Icee_94, Inca_90, JeTaime_94, Kanye_90, Kimchi_97, Kostya_93, Lilac_96, Lilizi_94, Lilpickle_92, MISSy_94, MPhalcon_94, MadamMonkfish_93, Manda_95, Marshmallow_91, Maxxinista_96, Mindy_92, Miniwave_88, Misfit_94, Moldemort_96, MollyToe_88, Mosby_89, Murica_96, Murphy_93, Myrale_93, Nala_95,

NelitzaMV_91, Nimrod_94, NoSleep_94, NonchalantPear_91, OrionPax_92, PaddyBaddy_94, Palpatine_95, Paperbeatsrock_92, Pat3_90, Petra64142_98, Phaja_91, Pharsalus_90, PhatBacter_97, Phaux_96, Phrux_91, Policronamos_96, Porky_92, Ptowny_90, Pumpkin_97, Qualification_94, Rakim_94, Rimmer_91, RiverMonster_94, Saints25_92, Sassay_88, ShamWow_93, ShereKhan_91, Simpliphy_92, SirDuracell_93, SophKB_90, Sotrice96_94, Stank_95, Stark_95, StellaBean_91, StolenFromERC_96, StormChicken_95, TBrady12_96, Tarkin_92, TeamEdward_93, TeardropMSU_89, Teaspoon_94, Terminus_96, Thimble_95, Thresher_96, Tomaszewski_88, Toto_91, Traaww1_89, Tuco_94, Ukulele_88, Wiggin_95, Willez_88, Xandras_92, YassJohnny_90, Youngblood_96, xkcd_96,

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

-

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

- Acquire49_78, Aegeus_88, Alex44_7, Appletree2_77, Archie_78, Astartes_7, Atraxi_7, AvadaKedavra_78, Baoshan_79, Baudelaire_88, Bazzle_78, BigCheese_81, BobsGarage_81, BrainDrainer_79, Breezona_81, Bromden_79, Calm_80, Chaser_77, ChutneyChips_77, CicholasNage_75, Claus_80, Crossroads_81, DHan_84, DanBing_81, DirkDirk_75, Douge_78, Douzhi_79, DrSeegs_81, DyoEdafos_83, Enceladus_75, Faith1_81, FarmResident_80, Finemlucis_80, Fullmetal_7, Gabriela_80, Gardann_81, GuuelaD_79, Hafay_82, Halena_76, Itos_80, JoeDirt_78, Kahlid_81, Kropertea_75, LeBron_77, Lewan_82, LilDestine_80, Loadrie_80, Lynnae_83, MAckerman_76, Miley16_81, MkaliMitinis3_82, Moleficent_7, Morrill_7, Netyap_82, Nicholasp3_81, OhShagHennessy_75, OverPar_83, PYPDinur_78, PhriedRice_7, Poochiewood_76, Quby_79, RicoCaldo_7, Rose5_78, Rossetti_82, Rumpelstiltskin_78, Sarshaun_82, Sheng711_80, Silverleaf_78, SoJulia_83, Soap141_81, StagePhright_7, Taj_63, ThirteenKH_7, Tourach_80, TrippleS_7, Tyson_79, UPIE_77, Underpass_72, Vetrix_80, WST1_43, Wamburgxpress_78, Wigglewiggle_80, Wilder_82, Winky_81, Wyatt2_79, Yafa_7, Zakai_82, Zaria_79, ZhongYanYuan_78,

Summary by start number:

Start 5:

- Found in 61 of 233 (26.2%) of genes in pham
- Manual Annotations of this start: 23 of 195
- Called 39.3% of time when present
- Phage (with cluster) where this start called: Acquire49_78 (L1), Appletree2_77 (L1), Archie_78 (L2), Bazzle_78 (L2), Breezona_81 (L2), Claus_80 (L2), DirkDirk_75 (L1), Faith1_81 (L2), Finemlucis_80 (L2), Gardann_81 (L2), Itos_80 (L2), JoeDirt_78 (L1), Kahlid_81 (L2), MAckerman_76 (L1), Miley16_81 (L2), MkaliMitinis3_82 (L2), OhShagHennessy_75 (L1), Poochiewood_76 (L1), Rumpelstiltskin_78 (L2), Wilder_82 (L2), Winky_81 (L2), Wyatt2_79 (L1), Zakai_82 (L2), Zaria_79 (L1),

Start 6:

- Found in 12 of 233 (5.2%) of genes in pham
- Manual Annotations of this start: 4 of 195
- Called 100.0% of time when present
- Phage (with cluster) where this start called: BrainDrainer_79 (L4), Bromden_79 (L4), Chaser_77 (L4), ChutneyChips_77 (L4), Douge_78 (L4), Douzhi_79 (L4), DyoEdafos_83 (L4), FarmResident_80 (L4), Kropertea_75 (L4), PYPDinur_78 (L4), Quby_79 (L4), Sheng711_80 (L4),

Start 7:

- Found in 25 of 233 (10.7%) of genes in pham
- Manual Annotations of this start: 8 of 195
- Called 32.0% of time when present
- Phage (with cluster) where this start called: Aegeus_88 (L5), Baudelaire_88 (L5), Calm_80 (L1), Enceladus_75 (L1), Halena_76 (L1), Silverleaf_78 (L1), Tourach_80 (L2), Tyson_79 (L1),

Start 9:

- Found in 144 of 233 (61.8%) of genes in pham
- Manual Annotations of this start: 128 of 195
- Called 100.0% of time when present
- Phage (with cluster) where this start called: 244_94 (E), ABCat_90 (E), Adnama_97 (E), Amao_93 (E), AmericanBeauty_97 (E), Argent26_97 (E), Asriel_91 (E), BaboJay_93 (E), BadStone_90 (E), Balomoji_93 (E), Barbarian_92 (E), Bask21_93 (E), Becksu_92 (E), Bench_96 (E), BigBubba_93 (E), BilboSwaggins_91 (E), Bogg_93 (E), Brewer_88 (E), Bruin_90 (E), Buck_94 (E), Budgie_101 (E), BugsBunny_93 (E), Cactus_96 (E), ChosenOne_93 (E), ChotaBhai_93 (E), Cjw1_94 (E), Command613_95 (E), Contagion_89 (E), Cookies_90 (E), CrystalP_92 (E), Czystczon1_94 (E), Daikon_94 (E), DoctorDiddles_92 (E), DrDrey_93 (E), Dumbo_93 (E), Dusk_90 (E), Easy2Say_94 (E), Elite2014_92 (E), Elph10_94 (E), Emmina_93 (E), Eureka_92 (E), FairyPath_93 (E), Filch_95 (E), FireRed_97 (E), Flypotenuse_89 (E), FoghornLeghorn_87 (E), Gage_95 (E), Gator_91 (E), Gemini_98 (E), Glexan_92 (E), Goku_92 (E), GoldenSpark_97 (E), Goldilocks_96 (E), GooberAzure_96 (E), Greep_97 (E), HanKaySha_94 (E), Harella_93 (E), Henry_91 (E), Highbury_92 (E), Holt_98 (E), Hoonter_96 (E), Hopey_94 (E), HuffyPuff_95 (E), IHOP_91 (E), Icee_94 (E), Inca_90 (E), JeTaime_94 (E), Kanye_90 (E), Kimchi_97 (E), Kostya_93 (E), Lilac_96 (E), Lilizi_94 (E), Lilpickle_92 (E), MISSy_94 (E), MPhalcon_94 (E), MadamMonkfish_93 (E), Manda_95 (E), Marshmallow_91 (E), Maxxinista_96 (E), Mindy_92 (E), Miniwave_88 (E), Misfit_94 (E), Moldemort_96 (E), MollyToe_88 (E), Mosby_89 (E), Murica_96 (E), Murphy_93 (E), Myrale_93 (E), Nala_95 (E), NelitzaMV_91 (E), Nimrod_94 (E), NoSleep_94 (E), NonchalantPear_91 (E), OrionPax_92 (E), PaddyBaddy_94 (E), Palpatine_95 (E), Paperbeatsrock_92 (E), Pat3_90 (E), Petra64142_98 (E), Phaja_91 (E), Pharsalus_90 (E), PhatBacter_97 (E), Phaux_96 (E), Phrux_91 (E), Policronamos_96 (E), Porky_92 (E), Ptowny_90 (E), Pumpkin_97 (E), Quallification_94 (E), Rakim_94 (E), Rimmer_91 (E), RiverMonster_94 (E), Saints25_92 (E), Sassay_88 (E), ShamWow_93 (E), ShereKhan_91 (E), Simpliphy_92 (E), SirDuracell_93 (E), SophKB_90 (E), Sotrice96_94 (E), Stank_95 (E), Stark_95 (E), StellaBean_91 (E), StolenFromERC_96 (E), StormChicken_95 (E), TBrady12_96 (E), Tarkin_92 (E), TeamEdward_93 (E), TeardropMSU_89 (E), Teaspoon_94 (E), Terminus_96 (E), Thimble_95 (E), Thresher_96 (E), Tomaszewski_88 (E), Toto_91 (E), Traaww1_89 (E), Tuco_94 (E), Ukulele_88 (E), Wiggin_95 (E), Willez_88 (E), Xandras_92 (E), YassJohnny_90 (E), Youngblood_96 (E), xkcd_96 (E),

Start 10:

- Found in 1 of 233 (0.4%) of genes in pham
- Manual Annotations of this start: 1 of 195
- Called 100.0% of time when present
- Phage (with cluster) where this start called: Taj_63 (F1),

Start 11:

- Found in 1 of 233 (0.4%) of genes in pham
- No Manual Annotations of this start.
- Called 100.0% of time when present
- Phage (with cluster) where this start called: WST1_43 (AJ),

Start 12:

- Found in 12 of 233 (5.2%) of genes in pham
- Manual Annotations of this start: 10 of 195
- Called 100.0% of time when present
- Phage (with cluster) where this start called: Alex44_7 (EK1), Astartes_7 (EK2), Atraxi_7 (EK2), Fullmetal_7 (EK2), Moleficent_7 (EK2), Morrill_7 (EK2), PhriedRice_7 (EK2), RicoCaldo_7 (EK2), StagePhright_7 (EK2), ThirteenKH_7 (EK2), TrippleS_7 (EK2), Yafa_7 (EK2),

Start 17:

- Found in 66 of 233 (28.3%) of genes in pham
- Manual Annotations of this start: 21 of 195
- Called 45.5% of time when present
- Phage (with cluster) where this start called: AvadaKedavra_78 (L1), Baoshan_79 (L2), BigCheese_81 (L2), BobsGarage_81 (L2), CicholasNage_75 (L1), Crossroads_81 (L2), DHan_84 (L2), DanBing_81 (L2), DrSeegs_81 (L2), Gabriela_80 (L2), GuuelaD_79 (L2), Hafay_82 (L2), LeBron_77 (L1), Lewan_82 (L2), LilDestine_80 (L2), Loadrie_80 (L2), Lynnae_83 (L2), Netyap_82 (L2), Nicholasp3_81 (L2), OverPar_83 (L2), Rose5_78 (L1), Sarshaun_82 (L2), SoJulia_83 (L2), Soap141_81 (L2), UPIE_77 (L1), Underpass_72 (L2), Vetrix_80 (L2), Wamburgxpress_78 (L1), Wigglewiggles_80 (L2), ZhongYanYuan_78 (L2),

Start 23:

- Found in 46 of 233 (19.7%) of genes in pham
- No Manual Annotations of this start.
- Called 2.2% of time when present
- Phage (with cluster) where this start called: Rossetti_82 (L2),

Summary by clusters:

There are 9 clusters represented in this pham: F1, E, AJ, L4, L5, L2, L1, EK2, EK1,

Info for manual annotations of cluster E:

- Start number 9 was manually annotated 128 times for cluster E.

Info for manual annotations of cluster EK1:

- Start number 12 was manually annotated 1 time for cluster EK1.

Info for manual annotations of cluster EK2:

- Start number 12 was manually annotated 9 times for cluster EK2.

Info for manual annotations of cluster F1:

- Start number 10 was manually annotated 1 time for cluster F1.

Info for manual annotations of cluster L1:

- Start number 5 was manually annotated 8 times for cluster L1.
- Start number 7 was manually annotated 5 times for cluster L1.

- Start number 17 was manually annotated 6 times for cluster L1.

Info for manual annotations of cluster L2:

- Start number 5 was manually annotated 15 times for cluster L2.
- Start number 7 was manually annotated 1 time for cluster L2.
- Start number 17 was manually annotated 15 times for cluster L2.

Info for manual annotations of cluster L4:

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

Info for manual annotations of cluster L5:

- Start number 7 was manually annotated 2 times for cluster L5.

Gene Information:

Gene: 244_94 Start: 56440, Stop: 56700, Start Num: 9

Candidate Starts for 244_94:

(Start: 9 @56440 has 128 MA's), (14, 56461), (21, 56536), (28, 56605), (37, 56671),

Gene: ABCat_90 Start: 57128, Stop: 57388, Start Num: 9

Candidate Starts for ABCat_90:

(Start: 9 @57128 has 128 MA's), (14, 57149), (21, 57224), (28, 57293), (37, 57359),

Gene: Acquire49_78 Start: 52009, Stop: 52314, Start Num: 5

Candidate Starts for Acquire49_78:

(Start: 5 @52009 has 23 MA's), (Start: 7 @52024 has 8 MA's), (Start: 17 @52084 has 21 MA's), (25, 52147), (27, 52174), (42, 52297), (43, 52300),

Gene: Adnama_97 Start: 56736, Stop: 56996, Start Num: 9

Candidate Starts for Adnama_97:

(Start: 9 @56736 has 128 MA's), (14, 56757), (21, 56832), (28, 56901), (37, 56967),

Gene: Aegeus_88 Start: 54840, Stop: 55091, Start Num: 7

Candidate Starts for Aegeus_88:

(Start: 7 @54840 has 8 MA's), (Start: 17 @54885 has 21 MA's), (27, 54978), (35, 55032),

Gene: Alex44_7 Start: 5465, Stop: 5193, Start Num: 12

Candidate Starts for Alex44_7:

(2, 5525), (Start: 12 @5465 has 10 MA's), (30, 5327), (35, 5297), (40, 5252),

Gene: Amao_93 Start: 56248, Stop: 56508, Start Num: 9

Candidate Starts for Amao_93:

(Start: 9 @56248 has 128 MA's), (14, 56269), (21, 56344), (28, 56413), (37, 56479),

Gene: AmericanBeauty_97 Start: 57297, Stop: 57557, Start Num: 9

Candidate Starts for AmericanBeauty_97:

(Start: 9 @57297 has 128 MA's), (14, 57318), (21, 57393), (28, 57462), (37, 57528),

Gene: Appletree2_77 Start: 51620, Stop: 51925, Start Num: 5

Candidate Starts for Appletree2_77:

(Start: 5 @51620 has 23 MA's), (Start: 7 @51635 has 8 MA's), (Start: 17 @51695 has 21 MA's), (25, 51758), (27, 51785), (35, 51839), (42, 51908), (43, 51911),

Gene: Archie_78 Start: 53502, Stop: 53798, Start Num: 5

Candidate Starts for Archie_78:

(Start: 5 @53502 has 23 MA's), (23, 53607), (24, 53619), (27, 53655), (36, 53712),

Gene: Argent26_97 Start: 56657, Stop: 56917, Start Num: 9

Candidate Starts for Argent26_97:

(Start: 9 @56657 has 128 MA's), (14, 56678), (21, 56753), (28, 56822), (37, 56888),

Gene: Asriel_91 Start: 55073, Stop: 55333, Start Num: 9

Candidate Starts for Asriel_91:

(Start: 9 @55073 has 128 MA's), (14, 55094), (21, 55169), (28, 55238), (37, 55304),

Gene: Astartes_7 Start: 5219, Stop: 4962, Start Num: 12

Candidate Starts for Astartes_7:

(2, 5279), (Start: 12 @5219 has 10 MA's), (25, 5105), (35, 5030), (40, 4985),

Gene: Atraxi_7 Start: 5184, Stop: 4927, Start Num: 12

Candidate Starts for Atraxi_7:

(2, 5244), (Start: 12 @5184 has 10 MA's), (20, 5112), (25, 5070), (35, 4995), (40, 4950),

Gene: AvadaKedavra_78 Start: 52163, Stop: 52393, Start Num: 17

Candidate Starts for AvadaKedavra_78:

(Start: 5 @52088 has 23 MA's), (Start: 7 @52103 has 8 MA's), (Start: 17 @52163 has 21 MA's), (25, 52226), (27, 52253), (42, 52376), (43, 52379),

Gene: BaboJay_93 Start: 57319, Stop: 57579, Start Num: 9

Candidate Starts for BaboJay_93:

(Start: 9 @57319 has 128 MA's), (14, 57340), (21, 57415), (28, 57484), (37, 57550),

Gene: BadStone_90 Start: 56697, Stop: 56957, Start Num: 9

Candidate Starts for BadStone_90:

(Start: 9 @56697 has 128 MA's), (14, 56718), (21, 56793), (28, 56862), (37, 56928),

Gene: Balomoji_93 Start: 56855, Stop: 57115, Start Num: 9

Candidate Starts for Balomoji_93:

(1, 56717), (Start: 9 @56855 has 128 MA's), (14, 56876), (28, 57020), (37, 57086),

Gene: Baoshan_79 Start: 53848, Stop: 54084, Start Num: 17

Candidate Starts for Baoshan_79:

(Start: 5 @53788 has 23 MA's), (Start: 17 @53848 has 21 MA's), (23, 53893), (24, 53905), (27, 53941), (34, 53983),

Gene: Barbarian_92 Start: 55073, Stop: 55333, Start Num: 9

Candidate Starts for Barbarian_92:

(Start: 9 @55073 has 128 MA's), (14, 55094), (21, 55169), (28, 55238), (37, 55304),

Gene: Bask21_93 Start: 55708, Stop: 55968, Start Num: 9

Candidate Starts for Bask21_93:

(1, 55570), (Start: 9 @55708 has 128 MA's), (14, 55729), (28, 55873), (37, 55939),

Gene: Baudelaire_88 Start: 54840, Stop: 55091, Start Num: 7
Candidate Starts for Baudelaire_88:
(Start: 7 @54840 has 8 MA's), (Start: 17 @54885 has 21 MA's), (27, 54978), (35, 55032),

Gene: Bazzle_78 Start: 53691, Stop: 53987, Start Num: 5
Candidate Starts for Bazzle_78:
(Start: 5 @53691 has 23 MA's), (Start: 7 @53706 has 8 MA's), (Start: 17 @53751 has 21 MA's), (24, 53808), (25, 53817), (27, 53844), (36, 53901), (38, 53928),

Gene: Becksu_92 Start: 57049, Stop: 57309, Start Num: 9
Candidate Starts for Becksu_92:
(Start: 9 @57049 has 128 MA's), (14, 57070), (21, 57145), (28, 57214), (37, 57280),

Gene: Bench_96 Start: 56792, Stop: 57052, Start Num: 9
Candidate Starts for Bench_96:
(Start: 9 @56792 has 128 MA's), (14, 56813), (21, 56888), (28, 56957), (37, 57023),

Gene: BigBubba_93 Start: 56089, Stop: 56349, Start Num: 9
Candidate Starts for BigBubba_93:
(Start: 9 @56089 has 128 MA's), (14, 56110), (21, 56185), (28, 56254), (37, 56320),

Gene: BigCheese_81 Start: 53978, Stop: 54214, Start Num: 17
Candidate Starts for BigCheese_81:
(Start: 5 @53918 has 23 MA's), (Start: 17 @53978 has 21 MA's), (23, 54023), (24, 54035), (27, 54071), (35, 54125), (36, 54128),

Gene: BilboSwaggins_91 Start: 57094, Stop: 57354, Start Num: 9
Candidate Starts for BilboSwaggins_91:
(Start: 9 @57094 has 128 MA's), (14, 57115), (21, 57190), (28, 57259), (37, 57325),

Gene: BobsGarage_81 Start: 53978, Stop: 54214, Start Num: 17
Candidate Starts for BobsGarage_81:
(Start: 5 @53918 has 23 MA's), (Start: 17 @53978 has 21 MA's), (23, 54023), (24, 54035), (27, 54071), (35, 54125), (36, 54128),

Gene: Bogg_93 Start: 56007, Stop: 56267, Start Num: 9
Candidate Starts for Bogg_93:
(Start: 9 @56007 has 128 MA's), (14, 56028), (21, 56103), (28, 56172), (37, 56238),

Gene: BrainDrainer_79 Start: 52733, Stop: 53023, Start Num: 6
Candidate Starts for BrainDrainer_79:
(Start: 6 @52733 has 4 MA's), (22, 52817), (23, 52832), (24, 52844), (27, 52880), (29, 52898), (32, 52910), (36, 52937),

Gene: Breezona_81 Start: 53918, Stop: 54214, Start Num: 5
Candidate Starts for Breezona_81:
(Start: 5 @53918 has 23 MA's), (Start: 17 @53978 has 21 MA's), (23, 54023), (24, 54035), (27, 54071), (35, 54125), (36, 54128),

Gene: Brewer_88 Start: 55594, Stop: 55854, Start Num: 9
Candidate Starts for Brewer_88:
(Start: 9 @55594 has 128 MA's), (14, 55615), (21, 55690), (28, 55759), (37, 55825),

Gene: Bromden_79 Start: 53366, Stop: 53650, Start Num: 6

Candidate Starts for Bromden_79:

(4, 53357), (Start: 6 @53366 has 4 MA's), (Start: 17 @53420 has 21 MA's), (24, 53477), (25, 53486), (27, 53513), (32, 53543), (36, 53570),

Gene: Bruin_90 Start: 55671, Stop: 55931, Start Num: 9

Candidate Starts for Bruin_90:

(Start: 9 @55671 has 128 MA's), (14, 55692), (21, 55767), (28, 55836), (37, 55902),

Gene: Buck_94 Start: 57360, Stop: 57620, Start Num: 9

Candidate Starts for Buck_94:

(1, 57222), (Start: 9 @57360 has 128 MA's), (14, 57381), (28, 57525), (37, 57591),

Gene: Budgie_101 Start: 56700, Stop: 56954, Start Num: 9

Candidate Starts for Budgie_101:

(3, 56661), (Start: 9 @56700 has 128 MA's), (15, 56721), (18, 56760), (23, 56808), (25, 56826), (37, 56925),

Gene: BugsBunny_93 Start: 57200, Stop: 57460, Start Num: 9

Candidate Starts for BugsBunny_93:

(Start: 9 @57200 has 128 MA's), (14, 57221), (21, 57296), (28, 57365), (37, 57431),

Gene: Cactus_96 Start: 55737, Stop: 55997, Start Num: 9

Candidate Starts for Cactus_96:

(Start: 9 @55737 has 128 MA's), (14, 55758), (21, 55833), (28, 55902), (37, 55968),

Gene: Calm_80 Start: 52346, Stop: 52636, Start Num: 7

Candidate Starts for Calm_80:

(Start: 5 @52331 has 23 MA's), (Start: 7 @52346 has 8 MA's), (Start: 17 @52406 has 21 MA's), (25, 52469), (27, 52496), (42, 52619), (43, 52622),

Gene: Chaser_77 Start: 52365, Stop: 52655, Start Num: 6

Candidate Starts for Chaser_77:

(Start: 6 @52365 has 4 MA's), (Start: 7 @52374 has 8 MA's), (Start: 17 @52419 has 21 MA's), (23, 52464), (24, 52476), (27, 52512), (29, 52530), (36, 52569),

Gene: ChosenOne_93 Start: 56152, Stop: 56412, Start Num: 9

Candidate Starts for ChosenOne_93:

(Start: 9 @56152 has 128 MA's), (14, 56173), (21, 56248), (28, 56317), (37, 56383),

Gene: ChotaBhai_93 Start: 56073, Stop: 56333, Start Num: 9

Candidate Starts for ChotaBhai_93:

(1, 55935), (Start: 9 @56073 has 128 MA's), (14, 56094), (28, 56238), (37, 56304),

Gene: ChutneyChips_77 Start: 52710, Stop: 52994, Start Num: 6

Candidate Starts for ChutneyChips_77:

(Start: 6 @52710 has 4 MA's), (Start: 17 @52764 has 21 MA's), (23, 52809), (24, 52821), (27, 52857), (29, 52875), (32, 52887),

Gene: CicholasNage_75 Start: 51748, Stop: 51978, Start Num: 17

Candidate Starts for CicholasNage_75:

(Start: 5 @51673 has 23 MA's), (Start: 7 @51688 has 8 MA's), (Start: 17 @51748 has 21 MA's), (25, 51811), (27, 51838), (42, 51961), (43, 51964),

Gene: Cjw1_94 Start: 58116, Stop: 58376, Start Num: 9

Candidate Starts for Cjw1_94:

(Start: 9 @58116 has 128 MA's), (14, 58137), (21, 58212), (28, 58281), (37, 58347),

Gene: Claus_80 Start: 53853, Stop: 54149, Start Num: 5

Candidate Starts for Claus_80:

(Start: 5 @53853 has 23 MA's), (Start: 17 @53913 has 21 MA's), (23, 53958), (24, 53970), (27, 54006), (34, 54048), (35, 54060), (36, 54063),

Gene: Command613_95 Start: 57191, Stop: 57451, Start Num: 9

Candidate Starts for Command613_95:

(Start: 9 @57191 has 128 MA's), (14, 57212), (21, 57287), (28, 57356), (37, 57422),

Gene: Contagion_89 Start: 55952, Stop: 56212, Start Num: 9

Candidate Starts for Contagion_89:

(Start: 9 @55952 has 128 MA's), (14, 55973), (21, 56048), (28, 56117), (37, 56183),

Gene: Cookies_90 Start: 55930, Stop: 56190, Start Num: 9

Candidate Starts for Cookies_90:

(1, 55792), (Start: 9 @55930 has 128 MA's), (14, 55951), (28, 56095), (37, 56161),

Gene: Crossroads_81 Start: 54053, Stop: 54289, Start Num: 17

Candidate Starts for Crossroads_81:

(Start: 5 @53993 has 23 MA's), (Start: 17 @54053 has 21 MA's), (23, 54098), (24, 54110), (27, 54146), (35, 54200), (36, 54203),

Gene: CrystalP_92 Start: 57094, Stop: 57354, Start Num: 9

Candidate Starts for CrystalP_92:

(Start: 9 @57094 has 128 MA's), (14, 57115), (21, 57190), (28, 57259), (37, 57325),

Gene: Czyszczone1_94 Start: 56655, Stop: 56915, Start Num: 9

Candidate Starts for Czyszczone1_94:

(Start: 9 @56655 has 128 MA's), (14, 56676), (21, 56751), (28, 56820), (37, 56886),

Gene: DHan_84 Start: 54131, Stop: 54367, Start Num: 17

Candidate Starts for DHan_84:

(Start: 5 @54071 has 23 MA's), (Start: 17 @54131 has 21 MA's), (23, 54176), (24, 54188), (27, 54224), (34, 54266), (35, 54278), (36, 54281),

Gene: Daikon_94 Start: 56682, Stop: 56942, Start Num: 9

Candidate Starts for Daikon_94:

(1, 56544), (Start: 9 @56682 has 128 MA's), (14, 56703), (28, 56847), (37, 56913),

Gene: DanBing_81 Start: 53783, Stop: 54019, Start Num: 17

Candidate Starts for DanBing_81:

(Start: 5 @53723 has 23 MA's), (Start: 17 @53783 has 21 MA's), (23, 53828), (24, 53840), (27, 53876), (34, 53918),

Gene: DirkDirk_75 Start: 51200, Stop: 51505, Start Num: 5

Candidate Starts for DirkDirk_75:

(Start: 5 @51200 has 23 MA's), (Start: 7 @51215 has 8 MA's), (Start: 17 @51275 has 21 MA's), (25, 51338), (27, 51365), (35, 51419), (42, 51488), (43, 51491),

Gene: DoctorDiddles_92 Start: 56117, Stop: 56377, Start Num: 9
Candidate Starts for DoctorDiddles_92:
(1, 55979), (Start: 9 @56117 has 128 MA's), (14, 56138), (28, 56282), (37, 56348),

Gene: Douge_78 Start: 52288, Stop: 52587, Start Num: 6
Candidate Starts for Douge_78:
(Start: 6 @52288 has 4 MA's), (16, 52318), (Start: 17 @52342 has 21 MA's), (24, 52399), (25, 52408),
(27, 52435), (32, 52465),

Gene: Douzhi_79 Start: 52550, Stop: 52840, Start Num: 6
Candidate Starts for Douzhi_79:
(Start: 6 @52550 has 4 MA's), (22, 52634), (23, 52649), (24, 52661), (27, 52697), (32, 52727), (36,
52754),

Gene: DrDrey_93 Start: 57574, Stop: 57834, Start Num: 9
Candidate Starts for DrDrey_93:
(Start: 9 @57574 has 128 MA's), (14, 57595), (21, 57670), (28, 57739), (37, 57805),

Gene: DrSeegs_81 Start: 53978, Stop: 54214, Start Num: 17
Candidate Starts for DrSeegs_81:
(Start: 5 @53918 has 23 MA's), (Start: 17 @53978 has 21 MA's), (23, 54023), (24, 54035), (27, 54071),
(35, 54125), (36, 54128),

Gene: Dumbo_93 Start: 56054, Stop: 56314, Start Num: 9
Candidate Starts for Dumbo_93:
(Start: 9 @56054 has 128 MA's), (14, 56075), (21, 56150), (28, 56219), (37, 56285),

Gene: Dusk_90 Start: 56357, Stop: 56617, Start Num: 9
Candidate Starts for Dusk_90:
(Start: 9 @56357 has 128 MA's), (14, 56378), (21, 56453), (28, 56522), (37, 56588),

Gene: DyoEdafos_83 Start: 53198, Stop: 53488, Start Num: 6
Candidate Starts for DyoEdafos_83:
(Start: 6 @53198 has 4 MA's), (16, 53228), (Start: 17 @53252 has 21 MA's), (24, 53309), (25, 53318),
(27, 53345), (32, 53375), (36, 53402),

Gene: Easy2Say_94 Start: 57556, Stop: 57816, Start Num: 9
Candidate Starts for Easy2Say_94:
(Start: 9 @57556 has 128 MA's), (14, 57577), (21, 57652), (28, 57721), (37, 57787),

Gene: Elite2014_92 Start: 56151, Stop: 56411, Start Num: 9
Candidate Starts for Elite2014_92:
(Start: 9 @56151 has 128 MA's), (14, 56172), (21, 56247), (28, 56316), (37, 56382),

Gene: Elph10_94 Start: 56144, Stop: 56404, Start Num: 9
Candidate Starts for Elph10_94:
(Start: 9 @56144 has 128 MA's), (14, 56165), (21, 56240), (28, 56309), (37, 56375),

Gene: Emmina_93 Start: 55777, Stop: 56037, Start Num: 9
Candidate Starts for Emmina_93:
(Start: 9 @55777 has 128 MA's), (14, 55798), (21, 55873), (28, 55942), (37, 56008),

Gene: Enceladus_75 Start: 51992, Stop: 52282, Start Num: 7

Candidate Starts for Enceladus_75:

(Start: 5 @51977 has 23 MA's), (Start: 7 @51992 has 8 MA's), (Start: 17 @52052 has 21 MA's), (25, 52115), (27, 52142), (35, 52196), (42, 52265), (43, 52268),

Gene: Eureka_92 Start: 57064, Stop: 57324, Start Num: 9

Candidate Starts for Eureka_92:

(Start: 9 @57064 has 128 MA's), (14, 57085), (21, 57160), (28, 57229), (37, 57295),

Gene: FairyPath_93 Start: 57270, Stop: 57530, Start Num: 9

Candidate Starts for FairyPath_93:

(Start: 9 @57270 has 128 MA's), (14, 57291), (21, 57366), (28, 57435), (37, 57501),

Gene: Faith1_81 Start: 53918, Stop: 54214, Start Num: 5

Candidate Starts for Faith1_81:

(Start: 5 @53918 has 23 MA's), (Start: 17 @53978 has 21 MA's), (23, 54023), (24, 54035), (27, 54071), (35, 54125), (36, 54128),

Gene: FarmResident_80 Start: 52292, Stop: 52576, Start Num: 6

Candidate Starts for FarmResident_80:

(Start: 6 @52292 has 4 MA's), (Start: 17 @52346 has 21 MA's), (23, 52391), (24, 52403), (27, 52439), (29, 52457), (36, 52496),

Gene: Filch_95 Start: 56349, Stop: 56609, Start Num: 9

Candidate Starts for Filch_95:

(Start: 9 @56349 has 128 MA's), (14, 56370), (21, 56445), (28, 56514), (37, 56580),

Gene: Finemlucis_80 Start: 54386, Stop: 54682, Start Num: 5

Candidate Starts for Finemlucis_80:

(Start: 5 @54386 has 23 MA's), (25, 54512), (27, 54539), (32, 54569), (35, 54593),

Gene: FireRed_97 Start: 57367, Stop: 57627, Start Num: 9

Candidate Starts for FireRed_97:

(Start: 9 @57367 has 128 MA's), (14, 57388), (21, 57463), (28, 57532), (37, 57598),

Gene: Flypotenuse_89 Start: 55727, Stop: 55987, Start Num: 9

Candidate Starts for Flypotenuse_89:

(Start: 9 @55727 has 128 MA's), (14, 55748), (21, 55823), (28, 55892), (37, 55958),

Gene: FoghornLeghorn_87 Start: 54752, Stop: 55012, Start Num: 9

Candidate Starts for FoghornLeghorn_87:

(1, 54614), (Start: 9 @54752 has 128 MA's), (14, 54773), (28, 54917), (37, 54983),

Gene: Fullmetal_7 Start: 5216, Stop: 4959, Start Num: 12

Candidate Starts for Fullmetal_7:

(2, 5276), (Start: 12 @5216 has 10 MA's), (25, 5102), (35, 5027), (40, 4982),

Gene: Gabriela_80 Start: 53324, Stop: 53560, Start Num: 17

Candidate Starts for Gabriela_80:

(Start: 5 @53264 has 23 MA's), (Start: 17 @53324 has 21 MA's), (23, 53369), (24, 53381), (27, 53417), (35, 53471), (36, 53474),

Gene: Gage_95 Start: 56798, Stop: 57058, Start Num: 9

Candidate Starts for Gage_95:

(Start: 9 @56798 has 128 MA's), (14, 56819), (21, 56894), (28, 56963), (37, 57029),

Gene: Gardann_81 Start: 53753, Stop: 54049, Start Num: 5

Candidate Starts for Gardann_81:

(Start: 5 @53753 has 23 MA's), (Start: 17 @53813 has 21 MA's), (23, 53858), (24, 53870), (27, 53906), (35, 53960), (36, 53963),

Gene: Gator_91 Start: 56582, Stop: 56842, Start Num: 9

Candidate Starts for Gator_91:

(1, 56444), (Start: 9 @56582 has 128 MA's), (14, 56603), (28, 56747), (37, 56813),

Gene: Gemini_98 Start: 57174, Stop: 57434, Start Num: 9

Candidate Starts for Gemini_98:

(Start: 9 @57174 has 128 MA's), (14, 57195), (21, 57270), (28, 57339), (37, 57405),

Gene: Glexan_92 Start: 56857, Stop: 57117, Start Num: 9

Candidate Starts for Glexan_92:

(Start: 9 @56857 has 128 MA's), (14, 56878), (21, 56953), (28, 57022), (37, 57088),

Gene: Goku_92 Start: 56793, Stop: 57053, Start Num: 9

Candidate Starts for Goku_92:

(Start: 9 @56793 has 128 MA's), (14, 56814), (21, 56889), (28, 56958), (37, 57024),

Gene: GoldenSpark_97 Start: 56657, Stop: 56917, Start Num: 9

Candidate Starts for GoldenSpark_97:

(Start: 9 @56657 has 128 MA's), (14, 56678), (21, 56753), (28, 56822), (37, 56888),

Gene: Goldilocks_96 Start: 56015, Stop: 56275, Start Num: 9

Candidate Starts for Goldilocks_96:

(Start: 9 @56015 has 128 MA's), (14, 56036), (21, 56111), (28, 56180), (37, 56246),

Gene: GooberAzure_96 Start: 56657, Stop: 56917, Start Num: 9

Candidate Starts for GooberAzure_96:

(Start: 9 @56657 has 128 MA's), (14, 56678), (21, 56753), (28, 56822), (37, 56888),

Gene: Greep_97 Start: 57931, Stop: 58191, Start Num: 9

Candidate Starts for Greep_97:

(Start: 9 @57931 has 128 MA's), (14, 57952), (21, 58027), (28, 58096), (37, 58162),

Gene: GuuelaD_79 Start: 54093, Stop: 54329, Start Num: 17

Candidate Starts for GuuelaD_79:

(Start: 5 @54033 has 23 MA's), (Start: 17 @54093 has 21 MA's), (23, 54138), (24, 54150), (27, 54186), (35, 54240), (36, 54243),

Gene: Hafay_82 Start: 53908, Stop: 54144, Start Num: 17

Candidate Starts for Hafay_82:

(Start: 5 @53848 has 23 MA's), (Start: 17 @53908 has 21 MA's), (23, 53953), (24, 53965), (27, 54001), (34, 54043), (35, 54055), (36, 54058),

Gene: Halena_76 Start: 51262, Stop: 51552, Start Num: 7

Candidate Starts for Halena_76:

(Start: 5 @51247 has 23 MA's), (Start: 7 @51262 has 8 MA's), (Start: 17 @51322 has 21 MA's), (25, 51385), (27, 51412), (42, 51535), (43, 51538),

Gene: HanKaySha_94 Start: 56224, Stop: 56484, Start Num: 9

Candidate Starts for HanKaySha_94:

(Start: 9 @56224 has 128 MA's), (14, 56245), (21, 56320), (28, 56389), (37, 56455),

Gene: Harella_93 Start: 57373, Stop: 57633, Start Num: 9

Candidate Starts for Harella_93:

(Start: 9 @57373 has 128 MA's), (14, 57394), (21, 57469), (28, 57538), (37, 57604),

Gene: Henry_91 Start: 56534, Stop: 56794, Start Num: 9

Candidate Starts for Henry_91:

(Start: 9 @56534 has 128 MA's), (14, 56555), (21, 56630), (28, 56699), (37, 56765),

Gene: Highbury_92 Start: 56224, Stop: 56484, Start Num: 9

Candidate Starts for Highbury_92:

(Start: 9 @56224 has 128 MA's), (14, 56245), (21, 56320), (28, 56389), (37, 56455),

Gene: Holt_98 Start: 57071, Stop: 57331, Start Num: 9

Candidate Starts for Holt_98:

(Start: 9 @57071 has 128 MA's), (14, 57092), (21, 57167), (28, 57236), (37, 57302),

Gene: Hoonter_96 Start: 56529, Stop: 56789, Start Num: 9

Candidate Starts for Hoonter_96:

(Start: 9 @56529 has 128 MA's), (14, 56550), (21, 56625), (28, 56694), (37, 56760),

Gene: Hokey_94 Start: 57035, Stop: 57295, Start Num: 9

Candidate Starts for Hokey_94:

(Start: 9 @57035 has 128 MA's), (14, 57056), (21, 57131), (28, 57200), (37, 57266),

Gene: HufflyPuff_95 Start: 57119, Stop: 57379, Start Num: 9

Candidate Starts for HufflyPuff_95:

(Start: 9 @57119 has 128 MA's), (14, 57140), (21, 57215), (28, 57284), (37, 57350),

Gene: IHOP_91 Start: 56697, Stop: 56957, Start Num: 9

Candidate Starts for IHOP_91:

(Start: 9 @56697 has 128 MA's), (14, 56718), (21, 56793), (28, 56862), (37, 56928),

Gene: Icee_94 Start: 56184, Stop: 56444, Start Num: 9

Candidate Starts for Icee_94:

(Start: 9 @56184 has 128 MA's), (14, 56205), (21, 56280), (28, 56349), (37, 56415),

Gene: Inca_90 Start: 55186, Stop: 55446, Start Num: 9

Candidate Starts for Inca_90:

(Start: 9 @55186 has 128 MA's), (14, 55207), (21, 55282), (28, 55351), (37, 55417),

Gene: Itos_80 Start: 52824, Stop: 53120, Start Num: 5

Candidate Starts for Itos_80:

(Start: 5 @52824 has 23 MA's), (Start: 17 @52884 has 21 MA's), (23, 52929), (24, 52941), (27, 52977), (35, 53031), (36, 53034),

Gene: JeTaime_94 Start: 57387, Stop: 57647, Start Num: 9

Candidate Starts for JeTaime_94:

(Start: 9 @57387 has 128 MA's), (14, 57408), (21, 57483), (28, 57552), (37, 57618),

Gene: JoeDirt_78 Start: 52575, Stop: 52880, Start Num: 5

Candidate Starts for JoeDirt_78:

(Start: 5 @52575 has 23 MA's), (Start: 7 @52590 has 8 MA's), (Start: 17 @52650 has 21 MA's), (25, 52713), (27, 52740), (35, 52794), (42, 52863), (43, 52866),

Gene: Kahlid_81 Start: 53924, Stop: 54220, Start Num: 5

Candidate Starts for Kahlid_81:

(Start: 5 @53924 has 23 MA's), (Start: 17 @53984 has 21 MA's), (23, 54029), (24, 54041), (27, 54077), (35, 54131), (36, 54134),

Gene: Kanye_90 Start: 56281, Stop: 56541, Start Num: 9

Candidate Starts for Kanye_90:

(Start: 9 @56281 has 128 MA's), (14, 56302), (21, 56377), (28, 56446), (37, 56512),

Gene: Kimchi_97 Start: 56801, Stop: 57061, Start Num: 9

Candidate Starts for Kimchi_97:

(Start: 9 @56801 has 128 MA's), (14, 56822), (21, 56897), (28, 56966), (37, 57032),

Gene: Kostya_93 Start: 56799, Stop: 57059, Start Num: 9

Candidate Starts for Kostya_93:

(Start: 9 @56799 has 128 MA's), (14, 56820), (21, 56895), (28, 56964), (37, 57030),

Gene: Kropertea_75 Start: 52480, Stop: 52770, Start Num: 6

Candidate Starts for Kropertea_75:

(Start: 6 @52480 has 4 MA's), (16, 52510), (Start: 17 @52534 has 21 MA's), (24, 52591), (25, 52600), (27, 52627), (32, 52657), (36, 52684),

Gene: LeBron_77 Start: 51321, Stop: 51551, Start Num: 17

Candidate Starts for LeBron_77:

(Start: 5 @51246 has 23 MA's), (Start: 7 @51261 has 8 MA's), (Start: 17 @51321 has 21 MA's), (25, 51384), (27, 51411), (42, 51534), (43, 51537),

Gene: Lewan_82 Start: 54036, Stop: 54272, Start Num: 17

Candidate Starts for Lewan_82:

(Start: 5 @53976 has 23 MA's), (Start: 17 @54036 has 21 MA's), (23, 54081), (24, 54093), (27, 54129), (35, 54183), (36, 54186),

Gene: LilDestine_80 Start: 53888, Stop: 54124, Start Num: 17

Candidate Starts for LilDestine_80:

(Start: 5 @53828 has 23 MA's), (Start: 17 @53888 has 21 MA's), (23, 53933), (24, 53945), (27, 53981), (36, 54038),

Gene: Lilac_96 Start: 56626, Stop: 56886, Start Num: 9

Candidate Starts for Lilac_96:

(Start: 9 @56626 has 128 MA's), (14, 56647), (21, 56722), (28, 56791), (37, 56857),

Gene: Lilizi_94 Start: 56263, Stop: 56523, Start Num: 9

Candidate Starts for Lilizi_94:

(Start: 9 @56263 has 128 MA's), (14, 56284), (21, 56359), (28, 56428), (37, 56494),

Gene: Lilpickle_92 Start: 56151, Stop: 56411, Start Num: 9
Candidate Starts for Lilpickle_92:
(Start: 9 @56151 has 128 MA's), (14, 56172), (21, 56247), (28, 56316), (37, 56382),

Gene: Loadrie_80 Start: 54063, Stop: 54299, Start Num: 17
Candidate Starts for Loadrie_80:
(Start: 5 @54003 has 23 MA's), (Start: 17 @54063 has 21 MA's), (23, 54108), (24, 54120), (27, 54156),
(35, 54210), (36, 54213),

Gene: Lynnae_83 Start: 53996, Stop: 54232, Start Num: 17
Candidate Starts for Lynnae_83:
(Start: 5 @53936 has 23 MA's), (Start: 17 @53996 has 21 MA's), (23, 54041), (24, 54053), (27, 54089),
(35, 54143), (36, 54146),

Gene: MAckerman_76 Start: 51240, Stop: 51545, Start Num: 5
Candidate Starts for MAckerman_76:
(Start: 5 @51240 has 23 MA's), (Start: 7 @51255 has 8 MA's), (Start: 17 @51315 has 21 MA's), (25,
51378), (27, 51405), (42, 51528), (43, 51531),

Gene: MISSy_94 Start: 56379, Stop: 56639, Start Num: 9
Candidate Starts for MISSy_94:
(Start: 9 @56379 has 128 MA's), (14, 56400), (21, 56475), (28, 56544), (37, 56610),

Gene: MPhalcon_94 Start: 56372, Stop: 56632, Start Num: 9
Candidate Starts for MPhalcon_94:
(Start: 9 @56372 has 128 MA's), (14, 56393), (21, 56468), (28, 56537), (37, 56603),

Gene: MadamMonkfish_93 Start: 55878, Stop: 56138, Start Num: 9
Candidate Starts for MadamMonkfish_93:
(Start: 9 @55878 has 128 MA's), (14, 55899), (21, 55974), (28, 56043), (37, 56109),

Gene: Manda_95 Start: 57955, Stop: 58215, Start Num: 9
Candidate Starts for Manda_95:
(Start: 9 @57955 has 128 MA's), (14, 57976), (21, 58051), (28, 58120), (37, 58186),

Gene: Marshmallow_91 Start: 57427, Stop: 57687, Start Num: 9
Candidate Starts for Marshmallow_91:
(Start: 9 @57427 has 128 MA's), (14, 57448), (21, 57523), (28, 57592), (37, 57658),

Gene: Maxxinista_96 Start: 56793, Stop: 57053, Start Num: 9
Candidate Starts for Maxxinista_96:
(Start: 9 @56793 has 128 MA's), (14, 56814), (21, 56889), (28, 56958), (37, 57024),

Gene: Miley16_81 Start: 53918, Stop: 54214, Start Num: 5
Candidate Starts for Miley16_81:
(Start: 5 @53918 has 23 MA's), (Start: 17 @53978 has 21 MA's), (23, 54023), (24, 54035), (27, 54071),
(35, 54125), (36, 54128),

Gene: Mindy_92 Start: 55700, Stop: 55960, Start Num: 9
Candidate Starts for Mindy_92:
(Start: 9 @55700 has 128 MA's), (14, 55721), (21, 55796), (28, 55865), (37, 55931),

Gene: Miniwave_88 Start: 56195, Stop: 56455, Start Num: 9

Candidate Starts for Miniwave_88:

(Start: 9 @56195 has 128 MA's), (14, 56216), (21, 56291), (28, 56360), (37, 56426),

Gene: Misfit_94 Start: 57669, Stop: 57929, Start Num: 9

Candidate Starts for Misfit_94:

(Start: 9 @57669 has 128 MA's), (14, 57690), (21, 57765), (28, 57834), (37, 57900),

Gene: MkaliMitinis3_82 Start: 53987, Stop: 54283, Start Num: 5

Candidate Starts for MkaliMitinis3_82:

(Start: 5 @53987 has 23 MA's), (Start: 17 @54047 has 21 MA's), (23, 54092), (24, 54104), (27, 54140), (35, 54194), (36, 54197),

Gene: Moldemort_96 Start: 56336, Stop: 56596, Start Num: 9

Candidate Starts for Moldemort_96:

(Start: 9 @56336 has 128 MA's), (14, 56357), (21, 56432), (28, 56501), (37, 56567),

Gene: Moleficent_7 Start: 5213, Stop: 4956, Start Num: 12

Candidate Starts for Moleficent_7:

(2, 5273), (Start: 12 @5213 has 10 MA's), (25, 5099), (35, 5024), (40, 4979),

Gene: MollyToe_88 Start: 55218, Stop: 55478, Start Num: 9

Candidate Starts for MollyToe_88:

(Start: 9 @55218 has 128 MA's), (14, 55239), (21, 55314), (28, 55383), (37, 55449),

Gene: Morrill_7 Start: 5168, Stop: 4911, Start Num: 12

Candidate Starts for Morrill_7:

(2, 5228), (Start: 12 @5168 has 10 MA's), (20, 5096), (25, 5054), (35, 4979), (40, 4934),

Gene: Mosby_89 Start: 55952, Stop: 56212, Start Num: 9

Candidate Starts for Mosby_89:

(Start: 9 @55952 has 128 MA's), (14, 55973), (21, 56048), (28, 56117), (37, 56183),

Gene: Murica_96 Start: 57595, Stop: 57855, Start Num: 9

Candidate Starts for Murica_96:

(Start: 9 @57595 has 128 MA's), (14, 57616), (21, 57691), (28, 57760), (37, 57826),

Gene: Murphy_93 Start: 57036, Stop: 57296, Start Num: 9

Candidate Starts for Murphy_93:

(Start: 9 @57036 has 128 MA's), (14, 57057), (21, 57132), (28, 57201), (37, 57267),

Gene: Myrale_93 Start: 57158, Stop: 57418, Start Num: 9

Candidate Starts for Myrale_93:

(Start: 9 @57158 has 128 MA's), (14, 57179), (21, 57254), (28, 57323), (37, 57389),

Gene: Nala_95 Start: 56881, Stop: 57141, Start Num: 9

Candidate Starts for Nala_95:

(Start: 9 @56881 has 128 MA's), (14, 56902), (21, 56977), (28, 57046), (37, 57112),

Gene: NelitzaMV_91 Start: 56241, Stop: 56501, Start Num: 9

Candidate Starts for NelitzaMV_91:

(Start: 9 @56241 has 128 MA's), (14, 56262), (21, 56337), (28, 56406), (37, 56472),

Gene: Netyap_82 Start: 53979, Stop: 54215, Start Num: 17

Candidate Starts for Netyap_82:

(Start: 5 @53919 has 23 MA's), (Start: 17 @53979 has 21 MA's), (23, 54024), (24, 54036), (27, 54072), (35, 54126), (36, 54129),

Gene: Nicholasp3_81 Start: 53813, Stop: 54049, Start Num: 17

Candidate Starts for Nicholasp3_81:

(Start: 5 @53753 has 23 MA's), (Start: 17 @53813 has 21 MA's), (23, 53858), (24, 53870), (27, 53906), (35, 53960), (36, 53963),

Gene: Nimrod_94 Start: 57584, Stop: 57844, Start Num: 9

Candidate Starts for Nimrod_94:

(Start: 9 @57584 has 128 MA's), (14, 57605), (21, 57680), (28, 57749), (37, 57815),

Gene: NoSleep_94 Start: 56218, Stop: 56478, Start Num: 9

Candidate Starts for NoSleep_94:

(Start: 9 @56218 has 128 MA's), (14, 56239), (21, 56314), (28, 56383), (37, 56449),

Gene: NonchalantPear_91 Start: 56074, Stop: 56334, Start Num: 9

Candidate Starts for NonchalantPear_91:

(Start: 9 @56074 has 128 MA's), (14, 56095), (21, 56170), (28, 56239), (37, 56305),

Gene: OhShagHennessy_75 Start: 51278, Stop: 51583, Start Num: 5

Candidate Starts for OhShagHennessy_75:

(Start: 5 @51278 has 23 MA's), (Start: 7 @51293 has 8 MA's), (Start: 17 @51353 has 21 MA's), (25, 51416), (27, 51443), (35, 51497), (42, 51566), (43, 51569),

Gene: OrionPax_92 Start: 55969, Stop: 56229, Start Num: 9

Candidate Starts for OrionPax_92:

(Start: 9 @55969 has 128 MA's), (14, 55990), (21, 56065), (28, 56134), (37, 56200),

Gene: OverPar_83 Start: 54063, Stop: 54299, Start Num: 17

Candidate Starts for OverPar_83:

(Start: 5 @54003 has 23 MA's), (Start: 17 @54063 has 21 MA's), (23, 54108), (24, 54120), (27, 54156), (35, 54210), (36, 54213),

Gene: PYPDinur_78 Start: 52985, Stop: 53275, Start Num: 6

Candidate Starts for PYPDinur_78:

(Start: 6 @52985 has 4 MA's), (22, 53069), (23, 53084), (24, 53096), (27, 53132), (29, 53150), (32, 53162), (36, 53189),

Gene: PaddyBaddy_94 Start: 56517, Stop: 56777, Start Num: 9

Candidate Starts for PaddyBaddy_94:

(Start: 9 @56517 has 128 MA's), (14, 56538), (21, 56613), (28, 56682), (37, 56748),

Gene: Palpatine_95 Start: 57622, Stop: 57882, Start Num: 9

Candidate Starts for Palpatine_95:

(Start: 9 @57622 has 128 MA's), (14, 57643), (21, 57718), (28, 57787), (37, 57853),

Gene: Paperbeatsrock_92 Start: 56873, Stop: 57133, Start Num: 9

Candidate Starts for Paperbeatsrock_92:

(Start: 9 @56873 has 128 MA's), (14, 56894), (21, 56969), (28, 57038), (37, 57104),

Gene: Pat3_90 Start: 55071, Stop: 55331, Start Num: 9

Candidate Starts for Pat3_90:

(1, 54933), (Start: 9 @55071 has 128 MA's), (14, 55092), (28, 55236), (37, 55302),

Gene: Petra64142_98 Start: 58076, Stop: 58336, Start Num: 9

Candidate Starts for Petra64142_98:

(1, 57938), (Start: 9 @58076 has 128 MA's), (14, 58097), (28, 58241), (37, 58307),

Gene: Phaja_91 Start: 56699, Stop: 56959, Start Num: 9

Candidate Starts for Phaja_91:

(Start: 9 @56699 has 128 MA's), (14, 56720), (21, 56795), (28, 56864), (37, 56930),

Gene: Pharsalus_90 Start: 56673, Stop: 56933, Start Num: 9

Candidate Starts for Pharsalus_90:

(Start: 9 @56673 has 128 MA's), (14, 56694), (21, 56769), (28, 56838), (37, 56904),

Gene: PhatBacter_97 Start: 57367, Stop: 57627, Start Num: 9

Candidate Starts for PhatBacter_97:

(Start: 9 @57367 has 128 MA's), (14, 57388), (21, 57463), (28, 57532), (37, 57598),

Gene: Phaux_96 Start: 57909, Stop: 58169, Start Num: 9

Candidate Starts for Phaux_96:

(Start: 9 @57909 has 128 MA's), (14, 57930), (21, 58005), (28, 58074), (37, 58140),

Gene: PhriedRice_7 Start: 5180, Stop: 4923, Start Num: 12

Candidate Starts for PhriedRice_7:

(2, 5240), (Start: 12 @5180 has 10 MA's), (25, 5066), (35, 4991), (40, 4946),

Gene: Phrux_91 Start: 56185, Stop: 56445, Start Num: 9

Candidate Starts for Phrux_91:

(Start: 9 @56185 has 128 MA's), (14, 56206), (21, 56281), (28, 56350), (37, 56416),

Gene: Policronamos_96 Start: 57640, Stop: 57900, Start Num: 9

Candidate Starts for Policronamos_96:

(Start: 9 @57640 has 128 MA's), (14, 57661), (21, 57736), (28, 57805), (37, 57871),

Gene: Poochiewood_76 Start: 52583, Stop: 52888, Start Num: 5

Candidate Starts for Poochiewood_76:

(Start: 5 @52583 has 23 MA's), (Start: 7 @52598 has 8 MA's), (Start: 17 @52658 has 21 MA's), (25, 52721), (27, 52748), (35, 52802), (42, 52871), (43, 52874),

Gene: Porky_92 Start: 55785, Stop: 56045, Start Num: 9

Candidate Starts for Porky_92:

(Start: 9 @55785 has 128 MA's), (14, 55806), (21, 55881), (28, 55950), (37, 56016),

Gene: Ptowny_90 Start: 55535, Stop: 55795, Start Num: 9

Candidate Starts for Ptowny_90:

(Start: 9 @55535 has 128 MA's), (14, 55556), (21, 55631), (28, 55700), (37, 55766),

Gene: Pumpkin_97 Start: 57561, Stop: 57821, Start Num: 9

Candidate Starts for Pumpkin_97:

(Start: 9 @57561 has 128 MA's), (14, 57582), (21, 57657), (28, 57726), (37, 57792),

Gene: Quallification_94 Start: 57281, Stop: 57541, Start Num: 9

Candidate Starts for Quallification_94:

(Start: 9 @57281 has 128 MA's), (14, 57302), (21, 57377), (28, 57446), (37, 57512),

Gene: Quby_79 Start: 52316, Stop: 52600, Start Num: 6

Candidate Starts for Quby_79:

(Start: 6 @52316 has 4 MA's), (23, 52415), (24, 52427), (27, 52463), (29, 52481), (36, 52520),

Gene: Rakim_94 Start: 56610, Stop: 56870, Start Num: 9

Candidate Starts for Rakim_94:

(Start: 9 @56610 has 128 MA's), (14, 56631), (21, 56706), (28, 56775), (37, 56841),

Gene: RicoCaldo_7 Start: 5210, Stop: 4953, Start Num: 12

Candidate Starts for RicoCaldo_7:

(2, 5270), (Start: 12 @5210 has 10 MA's), (25, 5096), (35, 5021), (40, 4976),

Gene: Rimmer_91 Start: 56182, Stop: 56442, Start Num: 9

Candidate Starts for Rimmer_91:

(1, 56044), (Start: 9 @56182 has 128 MA's), (14, 56203), (28, 56347), (37, 56413),

Gene: RiverMonster_94 Start: 57081, Stop: 57341, Start Num: 9

Candidate Starts for RiverMonster_94:

(Start: 9 @57081 has 128 MA's), (14, 57102), (21, 57177), (28, 57246), (37, 57312),

Gene: Rose5_78 Start: 52495, Stop: 52725, Start Num: 17

Candidate Starts for Rose5_78:

(Start: 5 @52420 has 23 MA's), (Start: 7 @52435 has 8 MA's), (Start: 17 @52495 has 21 MA's), (25, 52558), (27, 52585), (42, 52708), (43, 52711),

Gene: Rossetti_82 Start: 54432, Stop: 54623, Start Num: 23

Candidate Starts for Rossetti_82:

(Start: 5 @54327 has 23 MA's), (23, 54432), (24, 54444), (27, 54480), (36, 54537),

Gene: Rumpelstiltskin_78 Start: 53546, Stop: 53842, Start Num: 5

Candidate Starts for Rumpelstiltskin_78:

(Start: 5 @53546 has 23 MA's), (Start: 17 @53606 has 21 MA's), (23, 53651), (24, 53663), (27, 53699), (35, 53753), (36, 53756),

Gene: Saints25_92 Start: 56224, Stop: 56484, Start Num: 9

Candidate Starts for Saints25_92:

(Start: 9 @56224 has 128 MA's), (14, 56245), (21, 56320), (28, 56389), (37, 56455),

Gene: Sarshaun_82 Start: 54071, Stop: 54307, Start Num: 17

Candidate Starts for Sarshaun_82:

(Start: 5 @54011 has 23 MA's), (Start: 17 @54071 has 21 MA's), (23, 54116), (24, 54128), (27, 54164), (35, 54218), (36, 54221),

Gene: Sassay_88 Start: 54914, Stop: 55174, Start Num: 9

Candidate Starts for Sassay_88:

(Start: 9 @54914 has 128 MA's), (14, 54935), (21, 55010), (28, 55079), (37, 55145),

Gene: ShamWow_93 Start: 57094, Stop: 57354, Start Num: 9

Candidate Starts for ShamWow_93:

(Start: 9 @57094 has 128 MA's), (14, 57115), (21, 57190), (28, 57259), (37, 57325),

Gene: Sheng711_80 Start: 52619, Stop: 52909, Start Num: 6

Candidate Starts for Sheng711_80:

(Start: 6 @52619 has 4 MA's), (22, 52703), (24, 52730), (27, 52766), (29, 52784), (32, 52796), (36, 52823),

Gene: ShereKhan_91 Start: 57206, Stop: 57466, Start Num: 9

Candidate Starts for ShereKhan_91:

(Start: 9 @57206 has 128 MA's), (14, 57227), (21, 57302), (28, 57371), (37, 57437),

Gene: Silverleaf_78 Start: 51891, Stop: 52181, Start Num: 7

Candidate Starts for Silverleaf_78:

(Start: 5 @51876 has 23 MA's), (Start: 7 @51891 has 8 MA's), (Start: 17 @51951 has 21 MA's), (25, 52014), (27, 52041), (42, 52164), (43, 52167),

Gene: Simpliphy_92 Start: 56214, Stop: 56474, Start Num: 9

Candidate Starts for Simpliphy_92:

(Start: 9 @56214 has 128 MA's), (14, 56235), (21, 56310), (28, 56379), (37, 56445),

Gene: SirDuracell_93 Start: 55587, Stop: 55847, Start Num: 9

Candidate Starts for SirDuracell_93:

(Start: 9 @55587 has 128 MA's), (14, 55608), (21, 55683), (28, 55752), (37, 55818),

Gene: SoJulia_83 Start: 55139, Stop: 55375, Start Num: 17

Candidate Starts for SoJulia_83:

(Start: 5 @55079 has 23 MA's), (Start: 17 @55139 has 21 MA's), (23, 55184), (24, 55196), (27, 55232), (35, 55286), (36, 55289),

Gene: Soap141_81 Start: 54071, Stop: 54307, Start Num: 17

Candidate Starts for Soap141_81:

(Start: 5 @54011 has 23 MA's), (Start: 17 @54071 has 21 MA's), (23, 54116), (24, 54128), (27, 54164), (35, 54218), (36, 54221),

Gene: SophKB_90 Start: 55892, Stop: 56152, Start Num: 9

Candidate Starts for SophKB_90:

(Start: 9 @55892 has 128 MA's), (14, 55913), (21, 55988), (28, 56057), (37, 56123),

Gene: Sotrice96_94 Start: 56480, Stop: 56740, Start Num: 9

Candidate Starts for Sotrice96_94:

(Start: 9 @56480 has 128 MA's), (14, 56501), (21, 56576), (28, 56645), (37, 56711),

Gene: StagePhright_7 Start: 5180, Stop: 4923, Start Num: 12

Candidate Starts for StagePhright_7:

(2, 5240), (Start: 12 @5180 has 10 MA's), (25, 5066), (35, 4991), (40, 4946),

Gene: Stank_95 Start: 56873, Stop: 57133, Start Num: 9

Candidate Starts for Stank_95:

(Start: 9 @56873 has 128 MA's), (14, 56894), (21, 56969), (28, 57038), (37, 57104),

Gene: Stark_95 Start: 56964, Stop: 57224, Start Num: 9

Candidate Starts for Stark_95:

(Start: 9 @56964 has 128 MA's), (14, 56985), (21, 57060), (28, 57129), (37, 57195),

Gene: StellaBean_91 Start: 56418, Stop: 56678, Start Num: 9
Candidate Starts for StellaBean_91:
(Start: 9 @56418 has 128 MA's), (14, 56439), (21, 56514), (28, 56583), (37, 56649),

Gene: StolenFromERC_96 Start: 56798, Stop: 57058, Start Num: 9
Candidate Starts for StolenFromERC_96:
(Start: 9 @56798 has 128 MA's), (14, 56819), (21, 56894), (28, 56963), (37, 57029),

Gene: StormChicken_95 Start: 57577, Stop: 57837, Start Num: 9
Candidate Starts for StormChicken_95:
(1, 57439), (Start: 9 @57577 has 128 MA's), (14, 57598), (28, 57742), (37, 57808),

Gene: TBrady12_96 Start: 56634, Stop: 56894, Start Num: 9
Candidate Starts for TBrady12_96:
(Start: 9 @56634 has 128 MA's), (14, 56655), (21, 56730), (28, 56799), (37, 56865),

Gene: Taj_63 Start: 41748, Stop: 41978, Start Num: 10
Candidate Starts for Taj_63:
(Start: 10 @41748 has 1 MA's), (13, 41757), (26, 41871), (27, 41883), (31, 41907), (33, 41919), (39, 41970),

Gene: Tarkin_92 Start: 56882, Stop: 57142, Start Num: 9
Candidate Starts for Tarkin_92:
(Start: 9 @56882 has 128 MA's), (14, 56903), (21, 56978), (28, 57047), (37, 57113),

Gene: TeamEdward_93 Start: 56783, Stop: 57043, Start Num: 9
Candidate Starts for TeamEdward_93:
(1, 56645), (Start: 9 @56783 has 128 MA's), (14, 56804), (28, 56948), (37, 57014),

Gene: TeardropMSU_89 Start: 55882, Stop: 56142, Start Num: 9
Candidate Starts for TeardropMSU_89:
(Start: 9 @55882 has 128 MA's), (14, 55903), (21, 55978), (28, 56047), (37, 56113),

Gene: Teaspoon_94 Start: 56734, Stop: 56994, Start Num: 9
Candidate Starts for Teaspoon_94:
(Start: 9 @56734 has 128 MA's), (14, 56755), (21, 56830), (28, 56899), (37, 56965),

Gene: Terminus_96 Start: 57669, Stop: 57929, Start Num: 9
Candidate Starts for Terminus_96:
(Start: 9 @57669 has 128 MA's), (14, 57690), (21, 57765), (28, 57834), (37, 57900),

Gene: Thimble_95 Start: 56384, Stop: 56644, Start Num: 9
Candidate Starts for Thimble_95:
(Start: 9 @56384 has 128 MA's), (14, 56405), (21, 56480), (28, 56549), (37, 56615),

Gene: ThirteenKH_7 Start: 5168, Stop: 4911, Start Num: 12
Candidate Starts for ThirteenKH_7:
(2, 5228), (Start: 12 @5168 has 10 MA's), (20, 5096), (25, 5054), (35, 4979), (40, 4934),

Gene: Thresher_96 Start: 57744, Stop: 58004, Start Num: 9
Candidate Starts for Thresher_96:
(Start: 9 @57744 has 128 MA's), (14, 57765), (21, 57840), (28, 57909), (37, 57975),

Gene: Tomaszewski_88 Start: 56045, Stop: 56305, Start Num: 9
Candidate Starts for Tomaszewski_88:
(Start: 9 @56045 has 128 MA's), (14, 56066), (21, 56141), (28, 56210), (37, 56276),

Gene: Toto_91 Start: 57094, Stop: 57354, Start Num: 9
Candidate Starts for Toto_91:
(Start: 9 @57094 has 128 MA's), (14, 57115), (21, 57190), (28, 57259), (37, 57325),

Gene: Tourach_80 Start: 54051, Stop: 54332, Start Num: 7
Candidate Starts for Tourach_80:
(Start: 5 @54036 has 23 MA's), (Start: 7 @54051 has 8 MA's), (25, 54162), (27, 54189), (32, 54219),
(41, 54306),

Gene: Traaww1_89 Start: 55902, Stop: 56162, Start Num: 9
Candidate Starts for Traaww1_89:
(Start: 9 @55902 has 128 MA's), (14, 55923), (21, 55998), (28, 56067), (37, 56133),

Gene: TrippleS_7 Start: 5168, Stop: 4911, Start Num: 12
Candidate Starts for TrippleS_7:
(2, 5228), (Start: 12 @5168 has 10 MA's), (20, 5096), (25, 5054), (35, 4979), (40, 4934),

Gene: Tuco_94 Start: 57641, Stop: 57901, Start Num: 9
Candidate Starts for Tuco_94:
(Start: 9 @57641 has 128 MA's), (14, 57662), (21, 57737), (28, 57806), (37, 57872),

Gene: Tyson_79 Start: 52361, Stop: 52651, Start Num: 7
Candidate Starts for Tyson_79:
(Start: 5 @52346 has 23 MA's), (Start: 7 @52361 has 8 MA's), (Start: 17 @52421 has 21 MA's), (25,
52484), (27, 52511), (42, 52634), (43, 52637),

Gene: UPIE_77 Start: 52017, Stop: 52247, Start Num: 17
Candidate Starts for UPIE_77:
(Start: 5 @51942 has 23 MA's), (Start: 7 @51957 has 8 MA's), (Start: 17 @52017 has 21 MA's), (25,
52080), (27, 52107), (42, 52230), (43, 52233),

Gene: Ukulele_88 Start: 56027, Stop: 56287, Start Num: 9
Candidate Starts for Ukulele_88:
(Start: 9 @56027 has 128 MA's), (14, 56048), (21, 56123), (28, 56192), (37, 56258),

Gene: Underpass_72 Start: 48849, Stop: 49085, Start Num: 17
Candidate Starts for Underpass_72:
(Start: 5 @48789 has 23 MA's), (Start: 17 @48849 has 21 MA's), (23, 48894), (24, 48906), (27, 48942),
(35, 48996), (36, 48999),

Gene: Vetrix_80 Start: 53895, Stop: 54131, Start Num: 17
Candidate Starts for Vetrix_80:
(Start: 5 @53835 has 23 MA's), (Start: 17 @53895 has 21 MA's), (23, 53940), (24, 53952), (27, 53988),
(36, 54045),

Gene: WST1_43 Start: 28947, Stop: 29189, Start Num: 11
Candidate Starts for WST1_43:
(8, 28932), (11, 28947), (19, 29007), (21, 29025),

Gene: Wamburgexpress_78 Start: 52456, Stop: 52686, Start Num: 17
Candidate Starts for Wamburgexpress_78:
(Start: 5 @52381 has 23 MA's), (Start: 7 @52396 has 8 MA's), (Start: 17 @52456 has 21 MA's), (25, 52519), (27, 52546), (42, 52669), (43, 52672),

Gene: Wiggin_95 Start: 56303, Stop: 56563, Start Num: 9
Candidate Starts for Wiggin_95:
(Start: 9 @56303 has 128 MA's), (14, 56324), (21, 56399), (28, 56468), (37, 56534),

Gene: Wigglewigggle_80 Start: 53840, Stop: 54076, Start Num: 17
Candidate Starts for Wigglewigggle_80:
(Start: 5 @53780 has 23 MA's), (Start: 17 @53840 has 21 MA's), (23, 53885), (24, 53897), (27, 53933), (34, 53975), (35, 53987), (36, 53990),

Gene: Wilder_82 Start: 53924, Stop: 54220, Start Num: 5
Candidate Starts for Wilder_82:
(Start: 5 @53924 has 23 MA's), (Start: 17 @53984 has 21 MA's), (23, 54029), (24, 54041), (27, 54077), (35, 54131), (36, 54134),

Gene: Willez_88 Start: 54914, Stop: 55174, Start Num: 9
Candidate Starts for Willez_88:
(Start: 9 @54914 has 128 MA's), (14, 54935), (21, 55010), (28, 55079), (37, 55145),

Gene: Winky_81 Start: 53918, Stop: 54214, Start Num: 5
Candidate Starts for Winky_81:
(Start: 5 @53918 has 23 MA's), (Start: 17 @53978 has 21 MA's), (23, 54023), (24, 54035), (27, 54071), (35, 54125), (36, 54128),

Gene: Wyatt2_79 Start: 52344, Stop: 52649, Start Num: 5
Candidate Starts for Wyatt2_79:
(Start: 5 @52344 has 23 MA's), (Start: 7 @52359 has 8 MA's), (Start: 17 @52419 has 21 MA's), (25, 52482), (27, 52509), (42, 52632), (43, 52635),

Gene: Xandras_92 Start: 56126, Stop: 56386, Start Num: 9
Candidate Starts for Xandras_92:
(Start: 9 @56126 has 128 MA's), (14, 56147), (21, 56222), (28, 56291), (37, 56357),

Gene: Yafa_7 Start: 5183, Stop: 4926, Start Num: 12
Candidate Starts for Yafa_7:
(2, 5243), (Start: 12 @5183 has 10 MA's), (20, 5111), (25, 5069), (35, 4994), (40, 4949),

Gene: YassJohnny_90 Start: 55767, Stop: 56027, Start Num: 9
Candidate Starts for YassJohnny_90:
(Start: 9 @55767 has 128 MA's), (14, 55788), (21, 55863), (28, 55932), (37, 55998),

Gene: Youngblood_96 Start: 57596, Stop: 57856, Start Num: 9
Candidate Starts for Youngblood_96:
(Start: 9 @57596 has 128 MA's), (14, 57617), (21, 57692), (28, 57761), (37, 57827),

Gene: Zakai_82 Start: 54244, Stop: 54540, Start Num: 5
Candidate Starts for Zakai_82:
(Start: 5 @54244 has 23 MA's), (Start: 17 @54304 has 21 MA's), (23, 54349), (24, 54361), (27, 54397), (35, 54451), (36, 54454),

Gene: Zaria_79 Start: 51796, Stop: 52101, Start Num: 5

Candidate Starts for Zaria_79:

(Start: 5 @51796 has 23 MA's), (Start: 7 @51811 has 8 MA's), (Start: 17 @51871 has 21 MA's), (25, 51934), (27, 51961), (42, 52084), (43, 52087),

Gene: ZhongYanYuan_78 Start: 53431, Stop: 53667, Start Num: 17

Candidate Starts for ZhongYanYuan_78:

(Start: 5 @53371 has 23 MA's), (Start: 17 @53431 has 21 MA's), (23, 53476), (24, 53488), (27, 53524), (34, 53566), (35, 53578), (36, 53581),

Gene: xkcd_96 Start: 57780, Stop: 58040, Start Num: 9

Candidate Starts for xkcd_96:

(Start: 9 @57780 has 128 MA's), (14, 57801), (21, 57876), (28, 57945), (37, 58011),