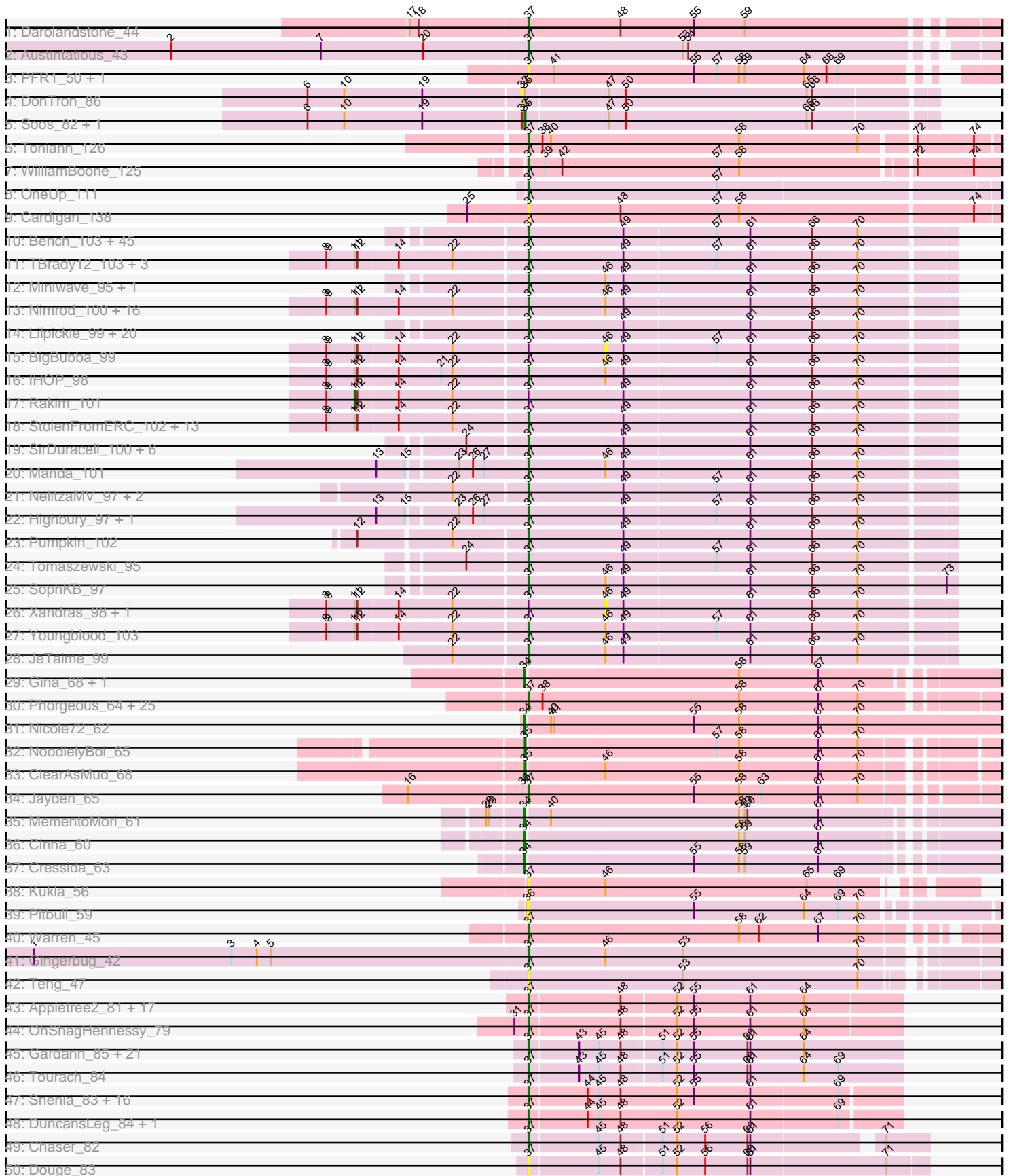
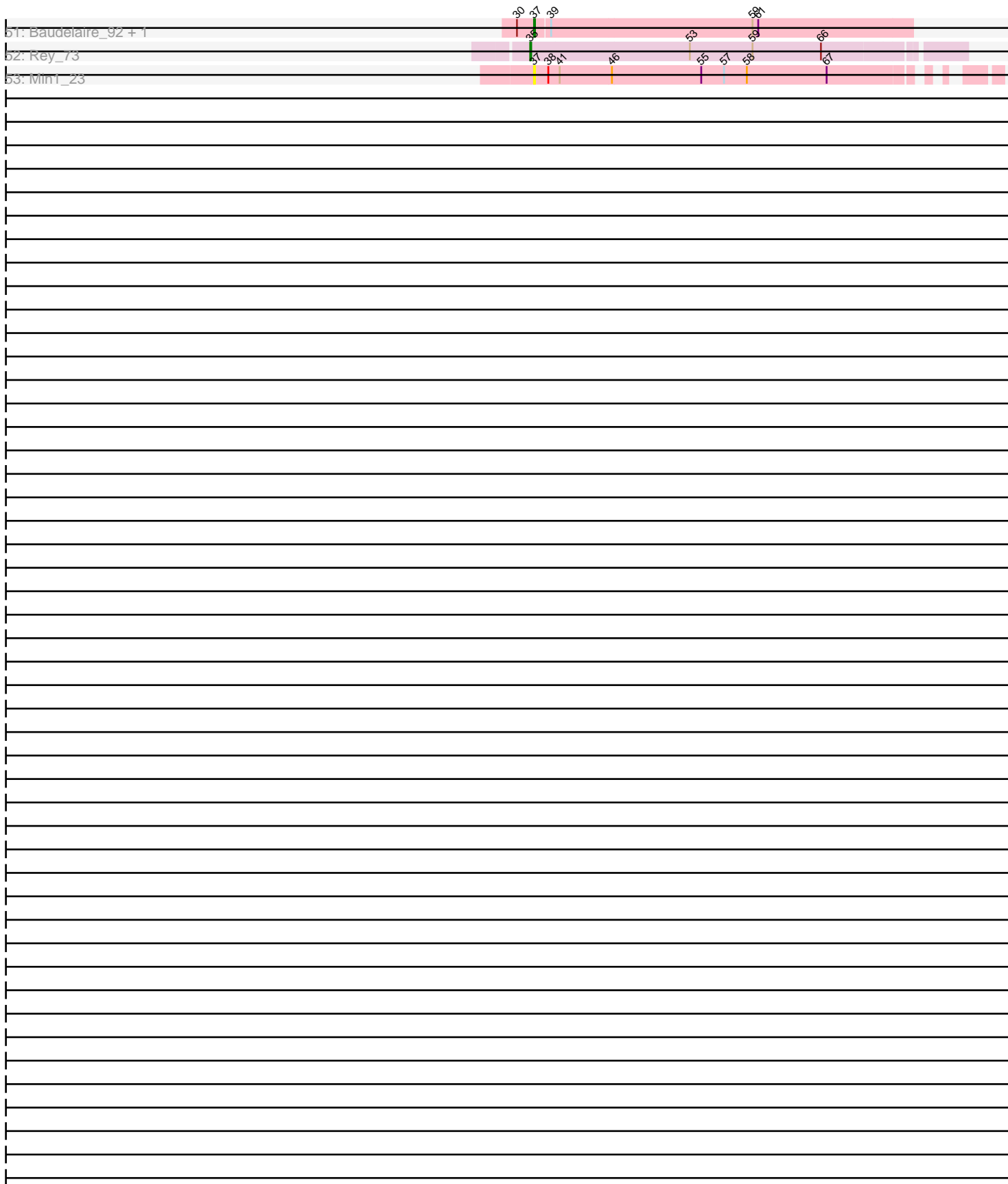


Pham 157554



Pham 157554



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 157554 Report

This analysis was run 04/13/24 on database version 558.

Pham number 157554 has 245 members, 27 are drafts.

Phages represented in each track:

- Track 1 : Darolandstone_44
- Track 2 : Austintatious_43
- Track 3 : PFR1_50, PFR2_52
- Track 4 : DonTron_86
- Track 5 : Soos_82, Sting_87
- Track 6 : Toniann_126
- Track 7 : WilliamBoone_125
- Track 8 : OneUp_111
- Track 9 : Cardigan_138
- Track 10 : Bench_103, Lilizi_101, Bruin_97, ShereKhan_98, Moldemort_103, Stark_101, Emmina_100, ShamWow_100, Nala_102, Toto_98, Ukulele_95, Misfit_101, HanKaySha_101, PhatBacter_103, Buck_101, CrystalP_99, Hopey_101, Eureka_99, Quallification_101, Thresher_102, Maxxinista_102, Hoonter_103, Willez_95, FireRed_103, Tarkin_99, Lilac_102, Henry_97, Simpliphy_99, RiverMonster_100, Sassay_95, BilboSwaggins_99, Kanye_97, Elph10_100, Goku_99, Terminus_103, Phaux_102, Filch_102, Teaspoon_97, Contagion_96, OrionPax_99, MadamMonkfish_100, Cjw1_101, Porky_99, NoSleep_101, Mosby_96, Phrux_97
- Track 11 : TBrady12_103, 244_101, Balomoji_100, Czyszczone1_101
- Track 12 : Miniwave_95, Paperbeatsrock_99
- Track 13 : Nimrod_100, DoctorDiddles_99, Gator_98, Bask21_100, Marshmallow_97, Harella_100, xkcd_103, Inca_97, Phaja_98, YassJohnny_97, Glexan_99, Asriel_98, Myrale_100, Icee_101, Barbarian_99, Flypotenuse_96, Traaww1_96
- Track 14 : Lilpickle_99, Murphy_100, Murica_103, DrDrey_100, Dusk_97, Dumbo_100, Pharsalus_97, StellaBean_97, ChosenOne_100, BaboJay_100, Mindy_99, Cactus_104, ABCat_97, Sotrice96_101, Goldilocks_103, TeardropMSU_96, Elite2014_99, MPhalcon_101, Tuco_101, BadStone_97, MISSy_101
- Track 15 : BigBubba_99
- Track 16 : IHOP_98
- Track 17 : Rakim_101
- Track 18 : StolenFromERC_102, Adnama_104, Stank_102, Kostya_100, Gage_102, GoldenSpark_104, Wiggin_102, Easy2Say_100, Gemini_105, Argent26_104, Command613_102, Holt_105, GooberAzure_103, Kimchi_104
- Track 19 : SirDuracell_100, ChotaBhai_100, Cookies_97, Rimmer_98, Pat3_97, HuffyPuff_102, Amao_100

- Track 20 : Manda_101
- Track 21 : NelitzaMV_97, Daikon_100, Petra64142_104
- Track 22 : Highbury_97, Saints25_97
- Track 23 : Pumpkin_102
- Track 24 : Tomaszewski_95
- Track 25 : SophKB_97
- Track 26 : Xandras_98, AmericanBeauty_107
- Track 27 : Youngblood_103
- Track 28 : JeTaime_99
- Track 29 : Gina_68, Teamocil_68
- Track 30 : Phorgeous_64, Scumberland_66, Savannah_63, Crisis_65, Piperis_65, Paschalis_64, Antares_64, Shotgun_64, Jollipop_64, Cranjis_65, Quhwah_68, CrazyRich_63, Pulchra_66, Kowalski_63, Honeyfin_65, Ganandorf_63, PiperSansNom_65, Busephilis_63, Jefe_64, LittleFortune_66, EarickHC_65, KaiHaiDragon_65, Selwyn23_65, BrazzalePHS_63, Ramiel05_63, Phrancesco_64
- Track 31 : Nicole72_62
- Track 32 : NoodlelyBoi_65
- Track 33 : ClearAsMud_68
- Track 34 : Jayden_65
- Track 35 : MementoMori_61
- Track 36 : Cinna_60
- Track 37 : Cressida_63
- Track 38 : Kukla_56
- Track 39 : Pitbull_59
- Track 40 : Warren_45
- Track 41 : Gingerbug_42
- Track 42 : Teng_47
- Track 43 : Appletree2_81, LeBron_81, Rose5_83, Zaria_83, Enceladus_79, Silverleaf_82, UPIE_81, DirkDirk_79, Acquire49_82, Halena_80, JoeDirt_83, AvadaKedavra_82, Calm_84, Wyatt2_83, MAckerman_79, Wamburgrxpress_82, CicholasNage_79, Tyson_83
- Track 44 : OhShagHennessy_79
- Track 45 : Gardann_85, Loadrie_83, BobsGarage_85, Faith1_85, Wilder_86, BigCheese_85, Wigglewiggles_84, Vetrix_84, Winky_85, DrSeegs_85, LilDestine_84, Nicholasp3_85, Kahlid_85, Rumpelstiltskin_82, Itos_85, Crossroads_85, Zakai_86, Netyap_86, MkaliMitinis3_86, Gabriela_85, Miley16_85, Breezona_85
- Track 46 : Tourach_84
- Track 47 : Snenia_83, Clautastrophe_82, MiniMac_87, Jubie_83, Finnry_83, Lumos_84, Lolly9_82, Moostard_81, Nicholas_81, Jobypre_85, Samty_82, Whirlwind_84, MsGreen_84, Kingsolomon_81, Bellis_82, MiniLon_87, Krypton555_84
- Track 48 : DuncansLeg_84, Ellson_83
- Track 49 : Chaser_82
- Track 50 : Douge_83
- Track 51 : Baudelaire_92, Aegeus_92
- Track 52 : Rey_73
- Track 53 : Min1_23

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

The start number called the most often in the published annotations is 37, it was called in 207 of the 218 non-draft genes in the pham.

Genes that call this "Most Annotated" start:

- 244_101, ABCat_97, Acquire49_82, Adnama_104, Aegeus_92, Amao_100, Antares_64, Appletree2_81, Argent26_104, Asriel_98, Austintatious_43, AvadaKedavra_82, BaboJay_100, BadStone_97, Balomoji_100, Barbarian_99, Bask21_100, Baudelaire_92, Bellis_82, Bench_103, BigCheese_85, BilboSwaggins_99, BobsGarage_85, BrazzalePHS_63, Breezona_85, Bruin_97, Buck_101, Busephilis_63, Cactus_104, Calm_84, Cardigan_138, Chaser_82, ChosenOne_100, ChotaBhai_100, CicholasNage_79, Cjw1_101, Clautastrophe_82, Command613_102, Contagion_96, Cookies_97, Cranjjs_65, CrazyRich_63, Crisis_65, Crossroads_85, CrystalP_99, Czystczon1_101, Daikon_100, Darolandstone_44, DirkDirk_79, DoctorDiddles_99, Douge_83, DrDrey_100, DrSeegs_85, Dumbo_100, DuncansLeg_84, Dusk_97, EarickHC_65, Easy2Say_100, Elite2014_99, Ellson_83, Elph10_100, Emmina_100, Enceladus_79, Eureka_99, Faith1_85, Filch_102, Finnry_83, FireRed_103, Flypotenuse_96, Gabriela_85, Gage_102, Ganandorf_63, Gardann_85, Gator_98, Gemini_105, Gingerbug_42, Glexan_99, Goku_99, GoldenSpark_104, Goldilocks_103, GooberAzure_103, Halena_80, HanKaySha_101, Harella_100, Henry_97, Highbury_97, Holt_105, Honeyfin_65, Hoonter_103, Hopey_101, HufflyPuff_102, IHOP_98, Icee_101, Inca_97, Itos_85, Jayden_65, JeTaimé_99, Jefe_64, Jobypre_85, JoeDirt_83, Jollipop_64, Jubie_83, Kahlid_85, KaiHaiDragon_65, Kanye_97, Kimchi_104, Kingsolomon_81, Kostya_100, Kowalski_63, Krypton555_84, Kukla_56, LeBron_81, LilDestine_84, Lilac_102, Lilizi_101, Lilpickle_99, LittleFortune_66, Loadrie_83, Lolly9_82, Lumos_84, MAckerman_79, MISSy_101, MPhalcon_101, MadamMonkfish_100, Manda_101, Marshmallow_97, Maxxinista_102, Miley16_85, Min1_23, Mindy_99, MiniLon_87, MiniMac_87, Miniwave_95, Misfit_101, MkaliMitinis3_86, Moldemort_103, Moostard_81, Mosby_96, MsGreen_84, Murica_103, Murphy_100, Myrale_100, Nala_102, NelitzaMV_97, Netyap_86, Nicholas_81, Nicholasp3_85, Nimrod_100, NoSleep_101, OhShagHennessy_79, OneUp_111, OrionPax_99, PFR1_50, PFR2_52, Paperbeatsrock_99, Paschalis_64, Pat3_97, Petra64142_104, Phaja_98, Pharsalus_97, PhatBacter_103, Phaux_102, Phorgeous_64, Phrancesco_64, Phrux_97, PiperSansNom_65, Piperis_65, Porky_99, Pulchra_66, Pumpkin_102, Qualification_101, Quhwah_68, Ramiel05_63, Rimmer_98, RiverMonster_100, Rose5_83, Rumpelstiltskin_82, Saints25_97, Samty_82, Sassay_95, Savannah_63, Scumberland_66, Selwyn23_65, ShamWow_100, ShereKhan_98, Shotgun_64, Silverleaf_82, Simpliphy_99, SirDuracell_100, Snenia_83, SophKB_97, Sotrice96_101, Stank_102, Stark_101, StellaBean_97, StolenFromERC_102, TBrady12_103, Tarkin_99, TeardropMSU_96, Teaspoon_97, Teng_47, Terminus_103, Thresher_102, Tomaszewski_95, Toniann_126, Toto_98, Tourach_84, Traaww1_96, Tuco_101, Tyson_83, UPIE_81, Ukulele_95, Vetrix_84, Wamburggrxpress_82, Warren_45, Whirlwind_84, Wiggin_102, Wigglewiggles_84, Wilder_86, Willez_95, WilliamBoone_125, Winky_85, Wyatt2_83, YassJohnny_97, Youngblood_103, Zakai_86, Zaria_83, xkcd_103,

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

- AmericanBeauty_107, BigBubba_99, Rakim_101, Xandras_98,

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

- Cinna_60, ClearAsMud_68, Cressida_63, DonTron_86, Gina_68, MementoMori_61, Nicole72_62, NoodlelyBoi_65, Pitbull_59, Rey_73, Soos_82, Sting_87, Teamocil_68,

Summary by start number:

Start 11:

- Found in 41 of 245 (16.7%) of genes in pham
- Manual Annotations of this start: 1 of 218
- Called 2.4% of time when present
- Phage (with cluster) where this start called: Rakim_101 (E),

Start 32:

- Found in 3 of 245 (1.2%) of genes in pham
- No Manual Annotations of this start.
- Called 33.3% of time when present
- Phage (with cluster) where this start called: DonTron_86 (CP),

Start 34:

- Found in 6 of 245 (2.4%) of genes in pham
- Manual Annotations of this start: 6 of 218
- Called 100.0% of time when present
- Phage (with cluster) where this start called: Cinna_60 (EI), Cressida_63 (EI), Gina_68 (EC), MementoMori_61 (EI), Nicole72_62 (EC), Teamocil_68 (EC),

Start 35:

- Found in 6 of 245 (2.4%) of genes in pham
- Manual Annotations of this start: 4 of 218
- Called 83.3% of time when present
- Phage (with cluster) where this start called: ClearAsMud_68 (EC), NoodlelyBoi_65 (EC), Rey_73 (M2), Soos_82 (CP), Sting_87 (CP),

Start 36:

- Found in 1 of 245 (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: Pitbull_59 (FQ),

Start 37:

- Found in 232 of 245 (94.7%) of genes in pham
- Manual Annotations of this start: 207 of 218
- Called 98.3% of time when present
- Phage (with cluster) where this start called: 244_101 (E), ABCat_97 (E), Acquire49_82 (L1), Adnama_104 (E), Aegeus_92 (L5), Amao_100 (E), Antares_64 (EC), Appletree2_81 (L1), Argent26_104 (E), Asriel_98 (E), Austintatious_43 (BC3), AvadaKedavra_82 (L1), BaboJay_100 (E), BadStone_97 (E), Balomoji_100 (E), Barbarian_99 (E), Bask21_100 (E), Baudelaire_92 (L5), Bellis_82 (L3), Bench_103 (E), BigCheese_85 (L2), BilboSwaggins_99 (E), BobsGarage_85 (L2), BrazzalePHS_63 (EC), Breezona_85 (L2), Bruin_97 (E), Buck_101 (E), Busephilis_63 (EC), Cactus_104 (E), Calm_84 (L1), Cardigan_138 (DD), Chaser_82 (L4), ChosenOne_100 (E), ChotaBhai_100 (E), CicholasNage_79 (L1), Cjw1_101 (E), Clautastrophe_82 (L3), Command613_102 (E), Contagion_96 (E), Cookies_97 (E), Cranjis_65 (EC), CrazyRich_63 (EC), Crisis_65 (EC), Crossroads_85 (L2), CrystalP_99 (E), Czyszczonek_101 (E), Daikon_100 (E), Darolandstone_44 (BC2), DirkDirk_79 (L1), DoctorDiddles_99 (E), Douge_83 (L4), DrDrey_100 (E), DrSeegs_85 (L2), Dumbo_100 (E), DuncansLeg_84 (L3), Dusk_97 (E), EarickHC_65 (EC), Easy2Say_100 (E), Elite2014_99 (E), Ellson_83 (L3), Elph10_100 (E),

Emmina_100 (E), Enceladus_79 (L1), Eureka_99 (E), Faith1_85 (L2), Filch_102 (E), Finnry_83 (L3), FireRed_103 (E), Flypotenuse_96 (E), Gabriela_85 (L2), Gage_102 (E), Ganandorf_63 (EC), Gardann_85 (L2), Gator_98 (E), Gemini_105 (E), Gingerbug_42 (GF), Glexan_99 (E), Goku_99 (E), GoldenSpark_104 (E), Goldilocks_103 (E), GooberAzure_103 (E), Halena_80 (L1), HanKaySha_101 (E), Harella_100 (E), Henry_97 (E), Highbury_97 (E), Holt_105 (E), Honeyfin_65 (EC), Hoonter_103 (E), Hopey_101 (E), HufflyPuff_102 (E), IHOP_98 (E), Icee_101 (E), Inca_97 (E), Itos_85 (L2), Jayden_65 (EC), JeTaime_99 (E), Jefe_64 (EC), Jobypre_85 (L3), JoeDirt_83 (L1), Jollipop_64 (EC), Jubie_83 (L3), Kahlid_85 (L2), KaiHaiDragon_65 (EC), Kanye_97 (E), Kimchi_104 (E), Kingsolomon_81 (L3), Kostya_100 (E), Kowalski_63 (EC), Krypton555_84 (L3), Kukla_56 (FJ), LeBron_81 (L1), LilDestine_84 (L2), Lilac_102 (E), Lilizi_101 (E), Lilpickle_99 (E), LittleFortune_66 (EC), Loadrie_83 (L2), Lolly9_82 (L3), Lumos_84 (L3), MAckerman_79 (L1), MISSy_101 (E), MPhalcon_101 (E), MadamMonkfish_100 (E), Manda_101 (E), Marshmallow_97 (E), Maxxinista_102 (E), Miley16_85 (L2), Min1_23 (singleton), Mindy_99 (E), MiniLon_87 (L3), MiniMac_87 (L3), Miniwave_95 (E), Misfit_101 (E), MkaliMitinis3_86 (L2), Moldemort_103 (E), Moostard_81 (L3), Mosby_96 (E), MsGreen_84 (L3), Murica_103 (E), Murphy_100 (E), Myrale_100 (E), Nala_102 (E), NelitzaMV_97 (E), Netyap_86 (L2), Nicholas_81 (L3), Nicholasp3_85 (L2), Nimrod_100 (E), NoSleep_101 (E), OhShagHennessy_79 (L1), OneUp_111 (CQ2), OrionPax_99 (E), PFR1_50 (BX), PFR2_52 (BX), Paperbeatsrock_99 (E), Paschalis_64 (EC), Pat3_97 (E), Petra64142_104 (E), Phaja_98 (E), Pharsalus_97 (E), PhatBacter_103 (E), Phaux_102 (E), Phorgeous_64 (EC), Phrancesco_64 (EC), Phrux_97 (E), PiperSansNom_65 (EC), Piperis_65 (EC), Porky_99 (E), Pulchra_66 (EC), Pumpkin_102 (E), Quallification_101 (E), Quhwah_68 (EC), Ramiel05_63 (EC), Rimmer_98 (E), RiverMonster_100 (E), Rose5_83 (L1), Rumpelstiltskin_82 (L2), Saints25_97 (E), Samty_82 (L3), Sassay_95 (E), Savannah_63 (EC), Scumberland_66 (EC), Selwyn23_65 (EC), ShamWow_100 (E), ShereKhan_98 (E), Shotgun_64 (EC), Silverleaf_82 (L1), Simpliphy_99 (E), SirDuracell_100 (E), Snenia_83 (L3), SophKB_97 (E), Sotrice96_101 (E), Stank_102 (E), Stark_101 (E), StellaBean_97 (E), StolenFromERC_102 (E), TBrady12_103 (E), Tarkin_99 (E), TeardropMSU_96 (E), Teaspoon_97 (E), Teng_47 (GF), Terminus_103 (E), Thresher_102 (E), Tomaszewski_95 (E), Toniann_126 (CQ1), Toto_98 (E), Tourach_84 (L2), Traaww1_96 (E), Tuco_101 (E), Tyson_83 (L1), UPIE_81 (L1), Ukulele_95 (E), Vetrix_84 (L2), Wamburggrxpress_82 (L1), Warren_45 (GA), Whirlwind_84 (L3), Wiggin_102 (E), Wigglewiggles_84 (L2), Wilder_86 (L2), Willez_95 (E), WilliamBoone_125 (CQ1), Winky_85 (L2), Wyatt2_83 (L1), YassJohnny_97 (E), Youngblood_103 (E), Zakai_86 (L2), Zaria_83 (L1), xkcd_103 (E),

Start 46:

- Found in 31 of 245 (12.7%) of genes in pham
- No Manual Annotations of this start.
- Called 9.7% of time when present
- Phage (with cluster) where this start called: AmericanBeauty_107 (E), BigBubba_99 (E), Xandras_98 (E),

Summary by clusters:

There are 21 clusters represented in this pham: FQ, singleton, E, CQ2, DD, M2, EC, GF, L4, L5, L2, L3, GA, L1, EI, CQ1, CP, BX, FJ, BC2, BC3,

Info for manual annotations of cluster BC2:

- Start number 37 was manually annotated 1 time for cluster BC2.

Info for manual annotations of cluster BC3:

- Start number 37 was manually annotated 1 time for cluster BC3.

Info for manual annotations of cluster CP:

- Start number 35 was manually annotated 1 time for cluster CP.

Info for manual annotations of cluster CQ1:

- Start number 37 was manually annotated 2 times for cluster CQ1.

Info for manual annotations of cluster CQ2:

- Start number 37 was manually annotated 1 time for cluster CQ2.

Info for manual annotations of cluster E:

- Start number 11 was manually annotated 1 time for cluster E.
- Start number 37 was manually annotated 115 times for cluster E.

Info for manual annotations of cluster EC:

- Start number 34 was manually annotated 3 times for cluster EC.
- Start number 35 was manually annotated 2 times for cluster EC.
- Start number 37 was manually annotated 25 times for cluster EC.

Info for manual annotations of cluster EI:

- Start number 34 was manually annotated 3 times for cluster EI.

Info for manual annotations of cluster GA:

- Start number 37 was manually annotated 1 time for cluster GA.

Info for manual annotations of cluster GF:

- Start number 37 was manually annotated 1 time for cluster GF.

Info for manual annotations of cluster L1:

- Start number 37 was manually annotated 18 times for cluster L1.

Info for manual annotations of cluster L2:

- Start number 37 was manually annotated 23 times for cluster L2.

Info for manual annotations of cluster L3:

- Start number 37 was manually annotated 16 times for cluster L3.

Info for manual annotations of cluster L4:

- Start number 37 was manually annotated 1 time for cluster L4.

Info for manual annotations of cluster L5:

- Start number 37 was manually annotated 2 times for cluster L5.

Info for manual annotations of cluster M2:

- Start number 35 was manually annotated 1 time for cluster M2.

Gene Information:

Gene: 244_101 Start: 59239, Stop: 59679, Start Num: 37

Candidate Starts for 244_101:

(8, 59038), (9, 59041), (Start: 11 @59068 has 1 MA's), (12, 59071), (14, 59113), (22, 59167), (Start: 37 @59239 has 207 MA's), (49, 59338), (57, 59434), (61, 59470), (66, 59536), (70, 59584),

Gene: ABCat_97 Start: 60224, Stop: 60664, Start Num: 37

Candidate Starts for ABCat_97:

(Start: 37 @60224 has 207 MA's), (49, 60323), (61, 60455), (66, 60521), (70, 60569),

Gene: Acquire49_82 Start: 53525, Stop: 53908, Start Num: 37

Candidate Starts for Acquire49_82:

(Start: 37 @53525 has 207 MA's), (48, 53618), (52, 53672), (55, 53690), (61, 53750), (64, 53807),

Gene: Adnama_104 Start: 59534, Stop: 59974, Start Num: 37

Candidate Starts for Adnama_104:

(8, 59333), (9, 59336), (Start: 11 @59363 has 1 MA's), (12, 59366), (14, 59408), (22, 59462), (Start: 37 @59534 has 207 MA's), (49, 59633), (61, 59765), (66, 59831), (70, 59879),

Gene: Aegeus_92 Start: 56890, Stop: 57282, Start Num: 37

Candidate Starts for Aegeus_92:

(30, 56872), (Start: 37 @56890 has 207 MA's), (39, 56905), (59, 57115), (61, 57121),

Gene: Amao_100 Start: 59648, Stop: 60088, Start Num: 37

Candidate Starts for Amao_100:

(24, 59591), (Start: 37 @59648 has 207 MA's), (49, 59747), (61, 59879), (66, 59945), (70, 59993),

Gene: AmericanBeauty_107 Start: 59855, Stop: 60214, Start Num: 46

Candidate Starts for AmericanBeauty_107:

(8, 59573), (9, 59576), (Start: 11 @59603 has 1 MA's), (12, 59606), (14, 59648), (22, 59702), (Start: 37 @59774 has 207 MA's), (46, 59855), (49, 59873), (61, 60005), (66, 60071), (70, 60119),

Gene: Antares_64 Start: 40804, Stop: 41310, Start Num: 37

Candidate Starts for Antares_64:

(Start: 37 @40804 has 207 MA's), (38, 40819), (58, 41026), (67, 41110), (70, 41152),

Gene: Appletree2_81 Start: 53136, Stop: 53519, Start Num: 37

Candidate Starts for Appletree2_81:

(Start: 37 @53136 has 207 MA's), (48, 53229), (52, 53283), (55, 53301), (61, 53361), (64, 53418),

Gene: Argent26_104 Start: 59458, Stop: 59898, Start Num: 37

Candidate Starts for Argent26_104:

(8, 59257), (9, 59260), (Start: 11 @59287 has 1 MA's), (12, 59290), (14, 59332), (22, 59386), (Start: 37 @59458 has 207 MA's), (49, 59557), (61, 59689), (66, 59755), (70, 59803),

Gene: Asriel_98 Start: 57871, Stop: 58311, Start Num: 37

Candidate Starts for Asriel_98:

(8, 57670), (9, 57673), (Start: 11 @57700 has 1 MA's), (12, 57703), (14, 57745), (22, 57799), (Start: 37 @57871 has 207 MA's), (46, 57952), (49, 57970), (61, 58102), (66, 58168), (70, 58216),

Gene: Austintatious_43 Start: 28177, Stop: 28638, Start Num: 37
Candidate Starts for Austintatious_43:
(2, 27802), (7, 27961), (20, 28069), (Start: 37 @28177 has 207 MA's), (53, 28339), (54, 28345),

Gene: AvadaKedavra_82 Start: 53604, Stop: 53987, Start Num: 37
Candidate Starts for AvadaKedavra_82:
(Start: 37 @53604 has 207 MA's), (48, 53697), (52, 53751), (55, 53769), (61, 53829), (64, 53886),

Gene: BaboJay_100 Start: 60412, Stop: 60852, Start Num: 37
Candidate Starts for BaboJay_100:
(Start: 37 @60412 has 207 MA's), (49, 60511), (61, 60643), (66, 60709), (70, 60757),

Gene: BadStone_97 Start: 59793, Stop: 60233, Start Num: 37
Candidate Starts for BadStone_97:
(Start: 37 @59793 has 207 MA's), (49, 59892), (61, 60024), (66, 60090), (70, 60138),

Gene: Balomoji_100 Start: 59654, Stop: 60094, Start Num: 37
Candidate Starts for Balomoji_100:
(8, 59453), (9, 59456), (Start: 11 @59483 has 1 MA's), (12, 59486), (14, 59528), (22, 59582), (Start: 37 @59654 has 207 MA's), (49, 59753), (57, 59849), (61, 59885), (66, 59951), (70, 59999),

Gene: Barbarian_99 Start: 57871, Stop: 58311, Start Num: 37
Candidate Starts for Barbarian_99:
(8, 57670), (9, 57673), (Start: 11 @57700 has 1 MA's), (12, 57703), (14, 57745), (22, 57799), (Start: 37 @57871 has 207 MA's), (46, 57952), (49, 57970), (61, 58102), (66, 58168), (70, 58216),

Gene: Bask21_100 Start: 58510, Stop: 58950, Start Num: 37
Candidate Starts for Bask21_100:
(8, 58309), (9, 58312), (Start: 11 @58339 has 1 MA's), (12, 58342), (14, 58384), (22, 58438), (Start: 37 @58510 has 207 MA's), (46, 58591), (49, 58609), (61, 58741), (66, 58807), (70, 58855),

Gene: Baudelaire_92 Start: 56890, Stop: 57282, Start Num: 37
Candidate Starts for Baudelaire_92:
(30, 56872), (Start: 37 @56890 has 207 MA's), (39, 56905), (59, 57115), (61, 57121),

Gene: Bellis_82 Start: 55408, Stop: 55791, Start Num: 37
Candidate Starts for Bellis_82:
(Start: 37 @55408 has 207 MA's), (44, 55468), (45, 55480), (48, 55501), (52, 55561), (55, 55579), (61, 55639), (69, 55729),

Gene: Bench_103 Start: 60413, Stop: 60853, Start Num: 37
Candidate Starts for Bench_103:
(Start: 37 @60413 has 207 MA's), (49, 60512), (57, 60608), (61, 60644), (66, 60710), (70, 60758),

Gene: BigBubba_99 Start: 58647, Stop: 59006, Start Num: 46
Candidate Starts for BigBubba_99:
(8, 58365), (9, 58368), (Start: 11 @58395 has 1 MA's), (12, 58398), (14, 58440), (22, 58494), (Start: 37 @58566 has 207 MA's), (46, 58647), (49, 58665), (57, 58761), (61, 58797), (66, 58863), (70, 58911),

Gene: BigCheese_85 Start: 55471, Stop: 55857, Start Num: 37
Candidate Starts for BigCheese_85:

(Start: 37 @55471 has 207 MA's), (43, 55522), (45, 55543), (48, 55564), (51, 55603), (52, 55618), (55, 55636), (60, 55693), (61, 55696), (64, 55753),

Gene: BilboSwaggins_99 Start: 60193, Stop: 60633, Start Num: 37

Candidate Starts for BilboSwaggins_99:

(Start: 37 @60193 has 207 MA's), (49, 60292), (57, 60388), (61, 60424), (66, 60490), (70, 60538),

Gene: BobsGarage_85 Start: 55471, Stop: 55857, Start Num: 37

Candidate Starts for BobsGarage_85:

(Start: 37 @55471 has 207 MA's), (43, 55522), (45, 55543), (48, 55564), (51, 55603), (52, 55618), (55, 55636), (60, 55693), (61, 55696), (64, 55753),

Gene: BrazzalePHS_63 Start: 40566, Stop: 41072, Start Num: 37

Candidate Starts for BrazzalePHS_63:

(Start: 37 @40566 has 207 MA's), (38, 40581), (58, 40788), (67, 40872), (70, 40914),

Gene: Breezona_85 Start: 55471, Stop: 55857, Start Num: 37

Candidate Starts for Breezona_85:

(Start: 37 @55471 has 207 MA's), (43, 55522), (45, 55543), (48, 55564), (51, 55603), (52, 55618), (55, 55636), (60, 55693), (61, 55696), (64, 55753),

Gene: Bruin_97 Start: 58899, Stop: 59339, Start Num: 37

Candidate Starts for Bruin_97:

(Start: 37 @58899 has 207 MA's), (49, 58998), (57, 59094), (61, 59130), (66, 59196), (70, 59244),

Gene: Buck_101 Start: 60736, Stop: 61176, Start Num: 37

Candidate Starts for Buck_101:

(Start: 37 @60736 has 207 MA's), (49, 60835), (57, 60931), (61, 60967), (66, 61033), (70, 61081),

Gene: Busephilis_63 Start: 40511, Stop: 41017, Start Num: 37

Candidate Starts for Busephilis_63:

(Start: 37 @40511 has 207 MA's), (38, 40526), (58, 40733), (67, 40817), (70, 40859),

Gene: Cactus_104 Start: 59153, Stop: 59593, Start Num: 37

Candidate Starts for Cactus_104:

(Start: 37 @59153 has 207 MA's), (49, 59252), (61, 59384), (66, 59450), (70, 59498),

Gene: Calm_84 Start: 53847, Stop: 54230, Start Num: 37

Candidate Starts for Calm_84:

(Start: 37 @53847 has 207 MA's), (48, 53940), (52, 53994), (55, 54012), (61, 54072), (64, 54129),

Gene: Cardigan_138 Start: 77634, Stop: 78149, Start Num: 37

Candidate Starts for Cardigan_138:

(25, 77571), (Start: 37 @77634 has 207 MA's), (48, 77730), (57, 77832), (58, 77856), (74, 78099),

Gene: Chaser_82 Start: 53878, Stop: 54270, Start Num: 37

Candidate Starts for Chaser_82:

(Start: 37 @53878 has 207 MA's), (45, 53950), (48, 53971), (51, 54010), (52, 54025), (56, 54055), (60, 54100), (61, 54103), (71, 54226),

Gene: ChosenOne_100 Start: 59101, Stop: 59541, Start Num: 37

Candidate Starts for ChosenOne_100:

(Start: 37 @59101 has 207 MA's), (49, 59200), (61, 59332), (66, 59398), (70, 59446),

Gene: ChotaBhai_100 Start: 59512, Stop: 59952, Start Num: 37
Candidate Starts for ChotaBhai_100:
(24, 59455), (Start: 37 @59512 has 207 MA's), (49, 59611), (61, 59743), (66, 59809), (70, 59857),

Gene: CicholasNage_79 Start: 53189, Stop: 53572, Start Num: 37
Candidate Starts for CicholasNage_79:
(Start: 37 @53189 has 207 MA's), (48, 53282), (52, 53336), (55, 53354), (61, 53414), (64, 53471),

Gene: Cinna_60 Start: 41333, Stop: 41833, Start Num: 34
Candidate Starts for Cinna_60:
(Start: 34 @41333 has 6 MA's), (58, 41555), (59, 41561), (67, 41639),

Gene: Cjw1_101 Start: 61106, Stop: 61546, Start Num: 37
Candidate Starts for Cjw1_101:
(Start: 37 @61106 has 207 MA's), (49, 61205), (57, 61301), (61, 61337), (66, 61403), (70, 61451),

Gene: Clautastrophe_82 Start: 55406, Stop: 55789, Start Num: 37
Candidate Starts for Clautastrophe_82:
(Start: 37 @55406 has 207 MA's), (44, 55466), (45, 55478), (48, 55499), (52, 55559), (55, 55577), (61, 55637), (69, 55727),

Gene: ClearAsMud_68 Start: 41092, Stop: 41592, Start Num: 35
Candidate Starts for ClearAsMud_68:
(Start: 35 @41092 has 4 MA's), (46, 41173), (58, 41314), (67, 41398), (70, 41440),

Gene: Command613_102 Start: 59668, Stop: 60108, Start Num: 37
Candidate Starts for Command613_102:
(8, 59467), (9, 59470), (Start: 11 @59497 has 1 MA's), (12, 59500), (14, 59542), (22, 59596), (Start: 37 @59668 has 207 MA's), (49, 59767), (61, 59899), (66, 59965), (70, 60013),

Gene: Contagion_96 Start: 59261, Stop: 59701, Start Num: 37
Candidate Starts for Contagion_96:
(Start: 37 @59261 has 207 MA's), (49, 59360), (57, 59456), (61, 59492), (66, 59558), (70, 59606),

Gene: Cookies_97 Start: 59438, Stop: 59878, Start Num: 37
Candidate Starts for Cookies_97:
(24, 59381), (Start: 37 @59438 has 207 MA's), (49, 59537), (61, 59669), (66, 59735), (70, 59783),

Gene: Cranjis_65 Start: 40759, Stop: 41265, Start Num: 37
Candidate Starts for Cranjis_65:
(Start: 37 @40759 has 207 MA's), (38, 40774), (58, 40981), (67, 41065), (70, 41107),

Gene: CrazyRich_63 Start: 40568, Stop: 41071, Start Num: 37
Candidate Starts for CrazyRich_63:
(Start: 37 @40568 has 207 MA's), (38, 40583), (58, 40790), (67, 40874), (70, 40916),

Gene: Cressida_63 Start: 40938, Stop: 41438, Start Num: 34
Candidate Starts for Cressida_63:
(Start: 34 @40938 has 6 MA's), (55, 41112), (58, 41160), (59, 41166), (67, 41244),

Gene: Crisis_65 Start: 40574, Stop: 41080, Start Num: 37
Candidate Starts for Crisis_65:

(Start: 37 @40574 has 207 MA's), (38, 40589), (58, 40796), (67, 40880), (70, 40922),

Gene: Crossroads_85 Start: 55546, Stop: 55932, Start Num: 37

Candidate Starts for Crossroads_85:

(Start: 37 @55546 has 207 MA's), (43, 55597), (45, 55618), (48, 55639), (51, 55678), (52, 55693), (55, 55711), (60, 55768), (61, 55771), (64, 55828),

Gene: CrystalP_99 Start: 60193, Stop: 60633, Start Num: 37

Candidate Starts for CrystalP_99:

(Start: 37 @60193 has 207 MA's), (49, 60292), (57, 60388), (61, 60424), (66, 60490), (70, 60538),

Gene: Czyszczone1_101 Start: 59453, Stop: 59893, Start Num: 37

Candidate Starts for Czyszczone1_101:

(8, 59252), (9, 59255), (Start: 11 @59282 has 1 MA's), (12, 59285), (14, 59327), (22, 59381), (Start: 37 @59453 has 207 MA's), (49, 59552), (57, 59648), (61, 59684), (66, 59750), (70, 59798),

Gene: Daikon_100 Start: 59067, Stop: 59507, Start Num: 37

Candidate Starts for Daikon_100:

(22, 58995), (Start: 37 @59067 has 207 MA's), (49, 59166), (57, 59262), (61, 59298), (66, 59364), (70, 59412),

Gene: Darolandstone_44 Start: 33598, Stop: 34095, Start Num: 37

Candidate Starts for Darolandstone_44:

(17, 33475), (18, 33484), (Start: 37 @33598 has 207 MA's), (48, 33694), (55, 33772), (59, 33826),

Gene: DirkDirk_79 Start: 52716, Stop: 53099, Start Num: 37

Candidate Starts for DirkDirk_79:

(Start: 37 @52716 has 207 MA's), (48, 52809), (52, 52863), (55, 52881), (61, 52941), (64, 52998),

Gene: DoctorDiddles_99 Start: 58916, Stop: 59356, Start Num: 37

Candidate Starts for DoctorDiddles_99:

(8, 58715), (9, 58718), (Start: 11 @58745 has 1 MA's), (12, 58748), (14, 58790), (22, 58844), (Start: 37 @58916 has 207 MA's), (46, 58997), (49, 59015), (61, 59147), (66, 59213), (70, 59261),

Gene: DonTron_86 Start: 55825, Stop: 56250, Start Num: 32

Candidate Starts for DonTron_86:

(6, 55603), (10, 55642), (19, 55723), (32, 55825), (Start: 35 @55828 has 4 MA's), (47, 55912), (50, 55930), (65, 56122), (66, 56128),

Gene: Douge_83 Start: 54186, Stop: 54593, Start Num: 37

Candidate Starts for Douge_83:

(Start: 37 @54186 has 207 MA's), (45, 54258), (48, 54279), (51, 54318), (52, 54333), (56, 54363), (60, 54408), (61, 54411), (71, 54552),

Gene: DrDrey_100 Start: 60931, Stop: 61371, Start Num: 37

Candidate Starts for DrDrey_100:

(Start: 37 @60931 has 207 MA's), (49, 61030), (61, 61162), (66, 61228), (70, 61276),

Gene: DrSeegs_85 Start: 55471, Stop: 55857, Start Num: 37

Candidate Starts for DrSeegs_85:

(Start: 37 @55471 has 207 MA's), (43, 55522), (45, 55543), (48, 55564), (51, 55603), (52, 55618), (55, 55636), (60, 55693), (61, 55696), (64, 55753),

Gene: Dumbo_100 Start: 59489, Stop: 59929, Start Num: 37
Candidate Starts for Dumbo_100:
(Start: 37 @59489 has 207 MA's), (49, 59588), (61, 59720), (66, 59786), (70, 59834),

Gene: DuncansLeg_84 Start: 55425, Stop: 55808, Start Num: 37
Candidate Starts for DuncansLeg_84:
(Start: 37 @55425 has 207 MA's), (44, 55485), (45, 55497), (48, 55518), (52, 55578), (61, 55656), (69, 55746),

Gene: Dusk_97 Start: 59453, Stop: 59893, Start Num: 37
Candidate Starts for Dusk_97:
(Start: 37 @59453 has 207 MA's), (49, 59552), (61, 59684), (66, 59750), (70, 59798),

Gene: EarickHC_65 Start: 40496, Stop: 41002, Start Num: 37
Candidate Starts for EarickHC_65:
(Start: 37 @40496 has 207 MA's), (38, 40511), (58, 40718), (67, 40802), (70, 40844),

Gene: Easy2Say_100 Start: 59925, Stop: 60365, Start Num: 37
Candidate Starts for Easy2Say_100:
(8, 59724), (9, 59727), (Start: 11 @59754 has 1 MA's), (12, 59757), (14, 59799), (22, 59853), (Start: 37 @59925 has 207 MA's), (49, 60024), (61, 60156), (66, 60222), (70, 60270),

Gene: Elite2014_99 Start: 59100, Stop: 59540, Start Num: 37
Candidate Starts for Elite2014_99:
(Start: 37 @59100 has 207 MA's), (49, 59199), (61, 59331), (66, 59397), (70, 59445),

Gene: Ellson_83 Start: 55740, Stop: 56123, Start Num: 37
Candidate Starts for Ellson_83:
(Start: 37 @55740 has 207 MA's), (44, 55800), (45, 55812), (48, 55833), (52, 55893), (61, 55971), (69, 56061),

Gene: Elph10_100 Start: 59135, Stop: 59575, Start Num: 37
Candidate Starts for Elph10_100:
(Start: 37 @59135 has 207 MA's), (49, 59234), (57, 59330), (61, 59366), (66, 59432), (70, 59480),

Gene: Emmina_100 Start: 58876, Stop: 59316, Start Num: 37
Candidate Starts for Emmina_100:
(Start: 37 @58876 has 207 MA's), (49, 58975), (57, 59071), (61, 59107), (66, 59173), (70, 59221),

Gene: Enceladus_79 Start: 53493, Stop: 53876, Start Num: 37
Candidate Starts for Enceladus_79:
(Start: 37 @53493 has 207 MA's), (48, 53586), (52, 53640), (55, 53658), (61, 53718), (64, 53775),

Gene: Eureka_99 Start: 60064, Stop: 60504, Start Num: 37
Candidate Starts for Eureka_99:
(Start: 37 @60064 has 207 MA's), (49, 60163), (57, 60259), (61, 60295), (66, 60361), (70, 60409),

Gene: Faith1_85 Start: 55471, Stop: 55857, Start Num: 37
Candidate Starts for Faith1_85:
(Start: 37 @55471 has 207 MA's), (43, 55522), (45, 55543), (48, 55564), (51, 55603), (52, 55618), (55, 55636), (60, 55693), (61, 55696), (64, 55753),

Gene: Filch_102 Start: 59448, Stop: 59888, Start Num: 37

Candidate Starts for Filch_102:

(Start: 37 @59448 has 207 MA's), (49, 59547), (57, 59643), (61, 59679), (66, 59745), (70, 59793),

Gene: Finnry_83 Start: 55427, Stop: 55810, Start Num: 37

Candidate Starts for Finnry_83:

(Start: 37 @55427 has 207 MA's), (44, 55487), (45, 55499), (48, 55520), (52, 55580), (55, 55598), (61, 55658), (69, 55748),

Gene: FireRed_103 Start: 60340, Stop: 60780, Start Num: 37

Candidate Starts for FireRed_103:

(Start: 37 @60340 has 207 MA's), (49, 60439), (57, 60535), (61, 60571), (66, 60637), (70, 60685),

Gene: Flypotenuse_96 Start: 58525, Stop: 58965, Start Num: 37

Candidate Starts for Flypotenuse_96:

(8, 58324), (9, 58327), (Start: 11 @58354 has 1 MA's), (12, 58357), (14, 58399), (22, 58453), (Start: 37 @58525 has 207 MA's), (46, 58606), (49, 58624), (61, 58756), (66, 58822), (70, 58870),

Gene: Gabriela_85 Start: 54817, Stop: 55203, Start Num: 37

Candidate Starts for Gabriela_85:

(Start: 37 @54817 has 207 MA's), (43, 54868), (45, 54889), (48, 54910), (51, 54949), (52, 54964), (55, 54982), (60, 55039), (61, 55042), (64, 55099),

Gene: Gage_102 Start: 59596, Stop: 60036, Start Num: 37

Candidate Starts for Gage_102:

(8, 59395), (9, 59398), (Start: 11 @59425 has 1 MA's), (12, 59428), (14, 59470), (22, 59524), (Start: 37 @59596 has 207 MA's), (49, 59695), (61, 59827), (66, 59893), (70, 59941),

Gene: Ganandorf_63 Start: 40592, Stop: 41098, Start Num: 37

Candidate Starts for Ganandorf_63:

(Start: 37 @40592 has 207 MA's), (38, 40607), (58, 40814), (67, 40898), (70, 40940),

Gene: Gardann_85 Start: 55306, Stop: 55692, Start Num: 37

Candidate Starts for Gardann_85:

(Start: 37 @55306 has 207 MA's), (43, 55357), (45, 55378), (48, 55399), (51, 55438), (52, 55453), (55, 55471), (60, 55528), (61, 55531), (64, 55588),

Gene: Gator_98 Start: 59381, Stop: 59821, Start Num: 37

Candidate Starts for Gator_98:

(8, 59180), (9, 59183), (Start: 11 @59210 has 1 MA's), (12, 59213), (14, 59255), (22, 59309), (Start: 37 @59381 has 207 MA's), (46, 59462), (49, 59480), (61, 59612), (66, 59678), (70, 59726),

Gene: Gemini_105 Start: 59975, Stop: 60415, Start Num: 37

Candidate Starts for Gemini_105:

(8, 59774), (9, 59777), (Start: 11 @59804 has 1 MA's), (12, 59807), (14, 59849), (22, 59903), (Start: 37 @59975 has 207 MA's), (49, 60074), (61, 60206), (66, 60272), (70, 60320),

Gene: Gina_68 Start: 40668, Stop: 41171, Start Num: 34

Candidate Starts for Gina_68:

(Start: 34 @40668 has 6 MA's), (58, 40890), (67, 40974),

Gene: Gingerbug_42 Start: 27000, Stop: 26503, Start Num: 37

Candidate Starts for Gingerbug_42:

(1, 27522), (3, 27312), (4, 27285), (5, 27270), (Start: 37 @27000 has 207 MA's), (46, 26919), (53, 26838), (70, 26652),

Gene: Glexan_99 Start: 59655, Stop: 60095, Start Num: 37

Candidate Starts for Glexan_99:

(8, 59454), (9, 59457), (Start: 11 @59484 has 1 MA's), (12, 59487), (14, 59529), (22, 59583), (Start: 37 @59655 has 207 MA's), (46, 59736), (49, 59754), (61, 59886), (66, 59952), (70, 60000),

Gene: Goku_99 Start: 59793, Stop: 60233, Start Num: 37

Candidate Starts for Goku_99:

(Start: 37 @59793 has 207 MA's), (49, 59892), (57, 59988), (61, 60024), (66, 60090), (70, 60138),

Gene: GoldenSpark_104 Start: 59458, Stop: 59898, Start Num: 37

Candidate Starts for GoldenSpark_104:

(8, 59257), (9, 59260), (Start: 11 @59287 has 1 MA's), (12, 59290), (14, 59332), (22, 59386), (Start: 37 @59458 has 207 MA's), (49, 59557), (61, 59689), (66, 59755), (70, 59803),

Gene: Goldilocks_103 Start: 59375, Stop: 59815, Start Num: 37

Candidate Starts for Goldilocks_103:

(Start: 37 @59375 has 207 MA's), (49, 59474), (61, 59606), (66, 59672), (70, 59720),

Gene: GooberAzure_103 Start: 59458, Stop: 59898, Start Num: 37

Candidate Starts for GooberAzure_103:

(8, 59257), (9, 59260), (Start: 11 @59287 has 1 MA's), (12, 59290), (14, 59332), (22, 59386), (Start: 37 @59458 has 207 MA's), (49, 59557), (61, 59689), (66, 59755), (70, 59803),

Gene: Halena_80 Start: 52763, Stop: 53146, Start Num: 37

Candidate Starts for Halena_80:

(Start: 37 @52763 has 207 MA's), (48, 52856), (52, 52910), (55, 52928), (61, 52988), (64, 53045),

Gene: HanKaySha_101 Start: 59845, Stop: 60285, Start Num: 37

Candidate Starts for HanKaySha_101:

(Start: 37 @59845 has 207 MA's), (49, 59944), (57, 60040), (61, 60076), (66, 60142), (70, 60190),

Gene: Harella_100 Start: 60171, Stop: 60611, Start Num: 37

Candidate Starts for Harella_100:

(8, 59970), (9, 59973), (Start: 11 @60000 has 1 MA's), (12, 60003), (14, 60045), (22, 60099), (Start: 37 @60171 has 207 MA's), (46, 60252), (49, 60270), (61, 60402), (66, 60468), (70, 60516),

Gene: Henry_97 Start: 59498, Stop: 59938, Start Num: 37

Candidate Starts for Henry_97:

(Start: 37 @59498 has 207 MA's), (49, 59597), (57, 59693), (61, 59729), (66, 59795), (70, 59843),

Gene: Highbury_97 Start: 58002, Stop: 58442, Start Num: 37

Candidate Starts for Highbury_97:

(13, 57852), (15, 57882), (23, 57930), (26, 57945), (27, 57957), (Start: 37 @58002 has 207 MA's), (49, 58101), (57, 58197), (61, 58233), (66, 58299), (70, 58347),

Gene: Holt_105 Start: 59872, Stop: 60312, Start Num: 37

Candidate Starts for Holt_105:

(8, 59671), (9, 59674), (Start: 11 @59701 has 1 MA's), (12, 59704), (14, 59746), (22, 59800), (Start: 37 @59872 has 207 MA's), (49, 59971), (61, 60103), (66, 60169), (70, 60217),

Gene: Honeyfin_65 Start: 40747, Stop: 41253, Start Num: 37
Candidate Starts for Honeyfin_65:
(Start: 37 @40747 has 207 MA's), (38, 40762), (58, 40969), (67, 41053), (70, 41095),

Gene: Hoonter_103 Start: 59949, Stop: 60389, Start Num: 37
Candidate Starts for Hoonter_103:
(Start: 37 @59949 has 207 MA's), (49, 60048), (57, 60144), (61, 60180), (66, 60246), (70, 60294),

Gene: Hokey_101 Start: 60455, Stop: 60895, Start Num: 37
Candidate Starts for Hokey_101:
(Start: 37 @60455 has 207 MA's), (49, 60554), (57, 60650), (61, 60686), (66, 60752), (70, 60800),

Gene: HufflyPuff_102 Start: 60566, Stop: 61006, Start Num: 37
Candidate Starts for HufflyPuff_102:
(24, 60509), (Start: 37 @60566 has 207 MA's), (49, 60665), (61, 60797), (66, 60863), (70, 60911),

Gene: IHOP_98 Start: 59174, Stop: 59614, Start Num: 37
Candidate Starts for IHOP_98:
(8, 58973), (9, 58976), (Start: 11 @59003 has 1 MA's), (12, 59006), (14, 59048), (21, 59090), (22, 59102), (Start: 37 @59174 has 207 MA's), (46, 59255), (49, 59273), (61, 59405), (66, 59471), (70, 59519),

Gene: Icee_101 Start: 58982, Stop: 59422, Start Num: 37
Candidate Starts for Icee_101:
(8, 58781), (9, 58784), (Start: 11 @58811 has 1 MA's), (12, 58814), (14, 58856), (22, 58910), (Start: 37 @58982 has 207 MA's), (46, 59063), (49, 59081), (61, 59213), (66, 59279), (70, 59327),

Gene: Inca_97 Start: 57663, Stop: 58103, Start Num: 37
Candidate Starts for Inca_97:
(8, 57462), (9, 57465), (Start: 11 @57492 has 1 MA's), (12, 57495), (14, 57537), (22, 57591), (Start: 37 @57663 has 207 MA's), (46, 57744), (49, 57762), (61, 57894), (66, 57960), (70, 58008),

Gene: Itos_85 Start: 54377, Stop: 54763, Start Num: 37
Candidate Starts for Itos_85:
(Start: 37 @54377 has 207 MA's), (43, 54428), (45, 54449), (48, 54470), (51, 54509), (52, 54524), (55, 54542), (60, 54599), (61, 54602), (64, 54659),

Gene: Jayden_65 Start: 41095, Stop: 41595, Start Num: 37
Candidate Starts for Jayden_65:
(16, 40975), (33, 41092), (Start: 37 @41095 has 207 MA's), (55, 41269), (58, 41317), (63, 41341), (67, 41401), (70, 41443),

Gene: JeTaime_99 Start: 59281, Stop: 59721, Start Num: 37
Candidate Starts for JeTaime_99:
(22, 59209), (Start: 37 @59281 has 207 MA's), (46, 59362), (49, 59380), (61, 59512), (66, 59578), (70, 59626),

Gene: Jefe_64 Start: 40545, Stop: 41048, Start Num: 37
Candidate Starts for Jefe_64:
(Start: 37 @40545 has 207 MA's), (38, 40560), (58, 40767), (67, 40851), (70, 40893),

Gene: Jobypre_85 Start: 55406, Stop: 55789, Start Num: 37
Candidate Starts for Jobypre_85:

(Start: 37 @55406 has 207 MA's), (44, 55466), (45, 55478), (48, 55499), (52, 55559), (55, 55577), (61, 55637), (69, 55727),

Gene: JoeDirt_83 Start: 54091, Stop: 54474, Start Num: 37

Candidate Starts for JoeDirt_83:

(Start: 37 @54091 has 207 MA's), (48, 54184), (52, 54238), (55, 54256), (61, 54316), (64, 54373),

Gene: Jollipop_64 Start: 40927, Stop: 41430, Start Num: 37

Candidate Starts for Jollipop_64:

(Start: 37 @40927 has 207 MA's), (38, 40942), (58, 41149), (67, 41233), (70, 41275),

Gene: Jubie_83 Start: 55541, Stop: 55924, Start Num: 37

Candidate Starts for Jubie_83:

(Start: 37 @55541 has 207 MA's), (44, 55601), (45, 55613), (48, 55634), (52, 55694), (55, 55712), (61, 55772), (69, 55862),

Gene: Kahlid_85 Start: 55257, Stop: 55643, Start Num: 37

Candidate Starts for Kahlid_85:

(Start: 37 @55257 has 207 MA's), (43, 55308), (45, 55329), (48, 55350), (51, 55389), (52, 55404), (55, 55422), (60, 55479), (61, 55482), (64, 55539),

Gene: KaiHaiDragon_65 Start: 40496, Stop: 41002, Start Num: 37

Candidate Starts for KaiHaiDragon_65:

(Start: 37 @40496 has 207 MA's), (38, 40511), (58, 40718), (67, 40802), (70, 40844),

Gene: Kanye_97 Start: 59707, Stop: 60147, Start Num: 37

Candidate Starts for Kanye_97:

(Start: 37 @59707 has 207 MA's), (49, 59806), (57, 59902), (61, 59938), (66, 60004), (70, 60052),

Gene: Kimchi_104 Start: 59599, Stop: 60039, Start Num: 37

Candidate Starts for Kimchi_104:

(8, 59398), (9, 59401), (Start: 11 @59428 has 1 MA's), (12, 59431), (14, 59473), (22, 59527), (Start: 37 @59599 has 207 MA's), (49, 59698), (61, 59830), (66, 59896), (70, 59944),

Gene: Kingsolomon_81 Start: 55183, Stop: 55566, Start Num: 37

Candidate Starts for Kingsolomon_81:

(Start: 37 @55183 has 207 MA's), (44, 55243), (45, 55255), (48, 55276), (52, 55336), (55, 55354), (61, 55414), (69, 55504),

Gene: Kostya_100 Start: 59276, Stop: 59716, Start Num: 37

Candidate Starts for Kostya_100:

(8, 59075), (9, 59078), (Start: 11 @59105 has 1 MA's), (12, 59108), (14, 59150), (22, 59204), (Start: 37 @59276 has 207 MA's), (49, 59375), (61, 59507), (66, 59573), (70, 59621),

Gene: Kowalski_63 Start: 40561, Stop: 41067, Start Num: 37

Candidate Starts for Kowalski_63:

(Start: 37 @40561 has 207 MA's), (38, 40576), (58, 40783), (67, 40867), (70, 40909),

Gene: Krypton555_84 Start: 55452, Stop: 55835, Start Num: 37

Candidate Starts for Krypton555_84:

(Start: 37 @55452 has 207 MA's), (44, 55512), (45, 55524), (48, 55545), (52, 55605), (55, 55623), (61, 55683), (69, 55773),

Gene: Kukla_56 Start: 34866, Stop: 35303, Start Num: 37
Candidate Starts for Kukla_56:
(Start: 37 @34866 has 207 MA's), (46, 34947), (65, 35160), (69, 35193),

Gene: LeBron_81 Start: 52762, Stop: 53145, Start Num: 37
Candidate Starts for LeBron_81:
(Start: 37 @52762 has 207 MA's), (48, 52855), (52, 52909), (55, 52927), (61, 52987), (64, 53044),

Gene: LilDestine_84 Start: 55161, Stop: 55547, Start Num: 37
Candidate Starts for LilDestine_84:
(Start: 37 @55161 has 207 MA's), (43, 55212), (45, 55233), (48, 55254), (51, 55293), (52, 55308), (55, 55326), (60, 55383), (61, 55386), (64, 55443),

Gene: Lilac_102 Start: 60598, Stop: 61038, Start Num: 37
Candidate Starts for Lilac_102:
(Start: 37 @60598 has 207 MA's), (49, 60697), (57, 60793), (61, 60829), (66, 60895), (70, 60943),

Gene: Lilizi_101 Start: 59884, Stop: 60324, Start Num: 37
Candidate Starts for Lilizi_101:
(Start: 37 @59884 has 207 MA's), (49, 59983), (57, 60079), (61, 60115), (66, 60181), (70, 60229),

Gene: Lilpickle_99 Start: 59100, Stop: 59540, Start Num: 37
Candidate Starts for Lilpickle_99:
(Start: 37 @59100 has 207 MA's), (49, 59199), (61, 59331), (66, 59397), (70, 59445),

Gene: LittleFortune_66 Start: 40852, Stop: 41358, Start Num: 37
Candidate Starts for LittleFortune_66:
(Start: 37 @40852 has 207 MA's), (38, 40867), (58, 41074), (67, 41158), (70, 41200),

Gene: Loadrie_83 Start: 55336, Stop: 55722, Start Num: 37
Candidate Starts for Loadrie_83:
(Start: 37 @55336 has 207 MA's), (43, 55387), (45, 55408), (48, 55429), (51, 55468), (52, 55483), (55, 55501), (60, 55558), (61, 55561), (64, 55618),

Gene: Lolly9_82 Start: 55259, Stop: 55642, Start Num: 37
Candidate Starts for Lolly9_82:
(Start: 37 @55259 has 207 MA's), (44, 55319), (45, 55331), (48, 55352), (52, 55412), (55, 55430), (61, 55490), (69, 55580),

Gene: Lumos_84 Start: 55403, Stop: 55786, Start Num: 37
Candidate Starts for Lumos_84:
(Start: 37 @55403 has 207 MA's), (44, 55463), (45, 55475), (48, 55496), (52, 55556), (55, 55574), (61, 55634), (69, 55724),

Gene: MAckerman_79 Start: 52756, Stop: 53139, Start Num: 37
Candidate Starts for MAckerman_79:
(Start: 37 @52756 has 207 MA's), (48, 52849), (52, 52903), (55, 52921), (61, 52981), (64, 53038),

Gene: MISSy_101 Start: 60384, Stop: 60824, Start Num: 37
Candidate Starts for MISSy_101:
(Start: 37 @60384 has 207 MA's), (49, 60483), (61, 60615), (66, 60681), (70, 60729),

Gene: MPhalcon_101 Start: 59801, Stop: 60241, Start Num: 37

Candidate Starts for MPhalcon_101:

(Start: 37 @59801 has 207 MA's), (49, 59900), (61, 60032), (66, 60098), (70, 60146),

Gene: MadamMonkfish_100 Start: 59307, Stop: 59747, Start Num: 37

Candidate Starts for MadamMonkfish_100:

(Start: 37 @59307 has 207 MA's), (49, 59406), (57, 59502), (61, 59538), (66, 59604), (70, 59652),

Gene: Manda_101 Start: 59838, Stop: 60278, Start Num: 37

Candidate Starts for Manda_101:

(13, 59691), (15, 59721), (23, 59769), (26, 59784), (27, 59796), (Start: 37 @59838 has 207 MA's), (46, 59919), (49, 59937), (61, 60069), (66, 60135), (70, 60183),

Gene: Marshmallow_97 Start: 59796, Stop: 60236, Start Num: 37

Candidate Starts for Marshmallow_97:

(8, 59595), (9, 59598), (Start: 11 @59625 has 1 MA's), (12, 59628), (14, 59670), (22, 59724), (Start: 37 @59796 has 207 MA's), (46, 59877), (49, 59895), (61, 60027), (66, 60093), (70, 60141),

Gene: Maxxinista_102 Start: 59784, Stop: 60224, Start Num: 37

Candidate Starts for Maxxinista_102:

(Start: 37 @59784 has 207 MA's), (49, 59883), (57, 59979), (61, 60015), (66, 60081), (70, 60129),

Gene: MementoMori_61 Start: 40995, Stop: 41495, Start Num: 34

Candidate Starts for MementoMori_61:

(28, 40959), (29, 40962), (Start: 34 @40995 has 6 MA's), (40, 41019), (58, 41217), (59, 41223), (60, 41226), (67, 41301),

Gene: Miley16_85 Start: 55471, Stop: 55857, Start Num: 37

Candidate Starts for Miley16_85:

(Start: 37 @55471 has 207 MA's), (43, 55522), (45, 55543), (48, 55564), (51, 55603), (52, 55618), (55, 55636), (60, 55693), (61, 55696), (64, 55753),

Gene: Min1_23 Start: 11006, Stop: 11470, Start Num: 37

Candidate Starts for Min1_23:

(Start: 37 @11006 has 207 MA's), (38, 11021), (41, 11033), (46, 11087), (55, 11180), (57, 11204), (58, 11228), (67, 11312),

Gene: Mindy_99 Start: 59117, Stop: 59557, Start Num: 37

Candidate Starts for Mindy_99:

(Start: 37 @59117 has 207 MA's), (49, 59216), (61, 59348), (66, 59414), (70, 59462),

Gene: MiniLon_87 Start: 55260, Stop: 55643, Start Num: 37

Candidate Starts for MiniLon_87:

(Start: 37 @55260 has 207 MA's), (44, 55320), (45, 55332), (48, 55353), (52, 55413), (55, 55431), (61, 55491), (69, 55581),

Gene: MiniMac_87 Start: 55255, Stop: 55638, Start Num: 37

Candidate Starts for MiniMac_87:

(Start: 37 @55255 has 207 MA's), (44, 55315), (45, 55327), (48, 55348), (52, 55408), (55, 55426), (61, 55486), (69, 55576),

Gene: Miniwave_95 Start: 59294, Stop: 59734, Start Num: 37

Candidate Starts for Miniwave_95:

(Start: 37 @59294 has 207 MA's), (46, 59375), (49, 59393), (61, 59525), (66, 59591), (70, 59639),

Gene: Misfit_101 Start: 60897, Stop: 61337, Start Num: 37

Candidate Starts for Misfit_101:

(Start: 37 @60897 has 207 MA's), (49, 60996), (57, 61092), (61, 61128), (66, 61194), (70, 61242),

Gene: MkaliMitinis3_86 Start: 55320, Stop: 55706, Start Num: 37

Candidate Starts for MkaliMitinis3_86:

(Start: 37 @55320 has 207 MA's), (43, 55371), (45, 55392), (48, 55413), (51, 55452), (52, 55467), (55, 55485), (60, 55542), (61, 55545), (64, 55602),

Gene: Moldemort_103 Start: 59765, Stop: 60205, Start Num: 37

Candidate Starts for Moldemort_103:

(Start: 37 @59765 has 207 MA's), (49, 59864), (57, 59960), (61, 59996), (66, 60062), (70, 60110),

Gene: Moostard_81 Start: 55178, Stop: 55561, Start Num: 37

Candidate Starts for Moostard_81:

(Start: 37 @55178 has 207 MA's), (44, 55238), (45, 55250), (48, 55271), (52, 55331), (55, 55349), (61, 55409), (69, 55499),

Gene: Mosby_96 Start: 59261, Stop: 59701, Start Num: 37

Candidate Starts for Mosby_96:

(Start: 37 @59261 has 207 MA's), (49, 59360), (57, 59456), (61, 59492), (66, 59558), (70, 59606),

Gene: MsGreen_84 Start: 55405, Stop: 55788, Start Num: 37

Candidate Starts for MsGreen_84:

(Start: 37 @55405 has 207 MA's), (44, 55465), (45, 55477), (48, 55498), (52, 55558), (55, 55576), (61, 55636), (69, 55726),

Gene: Murica_103 Start: 61600, Stop: 62040, Start Num: 37

Candidate Starts for Murica_103:

(Start: 37 @61600 has 207 MA's), (49, 61699), (61, 61831), (66, 61897), (70, 61945),

Gene: Murphy_100 Start: 60156, Stop: 60596, Start Num: 37

Candidate Starts for Murphy_100:

(Start: 37 @60156 has 207 MA's), (49, 60255), (61, 60387), (66, 60453), (70, 60501),

Gene: Myrale_100 Start: 59956, Stop: 60396, Start Num: 37

Candidate Starts for Myrale_100:

(8, 59755), (9, 59758), (Start: 11 @59785 has 1 MA's), (12, 59788), (14, 59830), (22, 59884), (Start: 37 @59956 has 207 MA's), (46, 60037), (49, 60055), (61, 60187), (66, 60253), (70, 60301),

Gene: Nala_102 Start: 60310, Stop: 60750, Start Num: 37

Candidate Starts for Nala_102:

(Start: 37 @60310 has 207 MA's), (49, 60409), (57, 60505), (61, 60541), (66, 60607), (70, 60655),

Gene: NelitzaMV_97 Start: 58304, Stop: 58744, Start Num: 37

Candidate Starts for NelitzaMV_97:

(22, 58232), (Start: 37 @58304 has 207 MA's), (49, 58403), (57, 58499), (61, 58535), (66, 58601), (70, 58649),

Gene: Netyap_86 Start: 55472, Stop: 55858, Start Num: 37

Candidate Starts for Netyap_86:

(Start: 37 @55472 has 207 MA's), (43, 55523), (45, 55544), (48, 55565), (51, 55604), (52, 55619), (55, 55637), (60, 55694), (61, 55697), (64, 55754),

Gene: Nicholas_81 Start: 55183, Stop: 55566, Start Num: 37

Candidate Starts for Nicholas_81:

(Start: 37 @55183 has 207 MA's), (44, 55243), (45, 55255), (48, 55276), (52, 55336), (55, 55354), (61, 55414), (69, 55504),

Gene: Nicholasp3_85 Start: 55306, Stop: 55692, Start Num: 37

Candidate Starts for Nicholasp3_85:

(Start: 37 @55306 has 207 MA's), (43, 55357), (45, 55378), (48, 55399), (51, 55438), (52, 55453), (55, 55471), (60, 55528), (61, 55531), (64, 55588),

Gene: Nicole72_62 Start: 45253, Stop: 45780, Start Num: 34

Candidate Starts for Nicole72_62:

(Start: 34 @45253 has 6 MA's), (40, 45277), (41, 45280), (55, 45427), (58, 45475), (67, 45559), (70, 45601),

Gene: Nimrod_100 Start: 59923, Stop: 60363, Start Num: 37

Candidate Starts for Nimrod_100:

(8, 59722), (9, 59725), (Start: 11 @59752 has 1 MA's), (12, 59755), (14, 59797), (22, 59851), (Start: 37 @59923 has 207 MA's), (46, 60004), (49, 60022), (61, 60154), (66, 60220), (70, 60268),

Gene: NoSleep_101 Start: 59317, Stop: 59757, Start Num: 37

Candidate Starts for NoSleep_101:

(Start: 37 @59317 has 207 MA's), (49, 59416), (57, 59512), (61, 59548), (66, 59614), (70, 59662),

Gene: NoodlelyBoi_65 Start: 41341, Stop: 41841, Start Num: 35

Candidate Starts for NoodlelyBoi_65:

(Start: 35 @41341 has 4 MA's), (57, 41539), (58, 41563), (67, 41647), (70, 41689),

Gene: OhShagHennessy_79 Start: 53016, Stop: 53399, Start Num: 37

Candidate Starts for OhShagHennessy_79:

(31, 53001), (Start: 37 @53016 has 207 MA's), (48, 53109), (52, 53163), (55, 53181), (61, 53241), (64, 53298),

Gene: OneUp_111 Start: 69624, Stop: 70130, Start Num: 37

Candidate Starts for OneUp_111:

(Start: 37 @69624 has 207 MA's), (57, 69822),

Gene: OrionPax_99 Start: 59389, Stop: 59829, Start Num: 37

Candidate Starts for OrionPax_99:

(Start: 37 @59389 has 207 MA's), (49, 59488), (57, 59584), (61, 59620), (66, 59686), (70, 59734),

Gene: PFR1_50 Start: 34850, Stop: 35323, Start Num: 37

Candidate Starts for PFR1_50:

(Start: 37 @34850 has 207 MA's), (41, 34877), (55, 35024), (57, 35048), (58, 35072), (59, 35078), (64, 35141), (68, 35165), (69, 35177),

Gene: PFR2_52 Start: 36419, Stop: 36892, Start Num: 37

Candidate Starts for PFR2_52:

(Start: 37 @36419 has 207 MA's), (41, 36446), (55, 36593), (57, 36617), (58, 36641), (59, 36647), (64, 36710), (68, 36734), (69, 36746),

Gene: Paperbeatsrock_99 Start: 59972, Stop: 60412, Start Num: 37
Candidate Starts for Paperbeatsrock_99:
(Start: 37 @59972 has 207 MA's), (46, 60053), (49, 60071), (61, 60203), (66, 60269), (70, 60317),

Gene: Paschalis_64 Start: 40592, Stop: 41095, Start Num: 37
Candidate Starts for Paschalis_64:
(Start: 37 @40592 has 207 MA's), (38, 40607), (58, 40814), (67, 40898), (70, 40940),

Gene: Pat3_97 Start: 58489, Stop: 58929, Start Num: 37
Candidate Starts for Pat3_97:
(24, 58432), (Start: 37 @58489 has 207 MA's), (49, 58588), (61, 58720), (66, 58786), (70, 58834),

Gene: Petra64142_104 Start: 60461, Stop: 60901, Start Num: 37
Candidate Starts for Petra64142_104:
(22, 60389), (Start: 37 @60461 has 207 MA's), (49, 60560), (57, 60656), (61, 60692), (66, 60758), (70, 60806),

Gene: Phaja_98 Start: 59176, Stop: 59616, Start Num: 37
Candidate Starts for Phaja_98:
(8, 58975), (9, 58978), (Start: 11 @59005 has 1 MA's), (12, 59008), (14, 59050), (22, 59104), (Start: 37 @59176 has 207 MA's), (46, 59257), (49, 59275), (61, 59407), (66, 59473), (70, 59521),

Gene: Pharsalus_97 Start: 59671, Stop: 60111, Start Num: 37
Candidate Starts for Pharsalus_97:
(Start: 37 @59671 has 207 MA's), (49, 59770), (61, 59902), (66, 59968), (70, 60016),

Gene: PhatBacter_103 Start: 60340, Stop: 60780, Start Num: 37
Candidate Starts for PhatBacter_103:
(Start: 37 @60340 has 207 MA's), (49, 60439), (57, 60535), (61, 60571), (66, 60637), (70, 60685),

Gene: Phaux_102 Start: 60900, Stop: 61340, Start Num: 37
Candidate Starts for Phaux_102:
(Start: 37 @60900 has 207 MA's), (49, 60999), (57, 61095), (61, 61131), (66, 61197), (70, 61245),

Gene: Phorgeous_64 Start: 40378, Stop: 40884, Start Num: 37
Candidate Starts for Phorgeous_64:
(Start: 37 @40378 has 207 MA's), (38, 40393), (58, 40600), (67, 40684), (70, 40726),

Gene: Phrancesco_64 Start: 40701, Stop: 41207, Start Num: 37
Candidate Starts for Phrancesco_64:
(Start: 37 @40701 has 207 MA's), (38, 40716), (58, 40923), (67, 41007), (70, 41049),

Gene: Phrux_97 Start: 59176, Stop: 59616, Start Num: 37
Candidate Starts for Phrux_97:
(Start: 37 @59176 has 207 MA's), (49, 59275), (57, 59371), (61, 59407), (66, 59473), (70, 59521),

Gene: PiperSansNom_65 Start: 40883, Stop: 41386, Start Num: 37
Candidate Starts for PiperSansNom_65:
(Start: 37 @40883 has 207 MA's), (38, 40898), (58, 41105), (67, 41189), (70, 41231),

Gene: Piperis_65 Start: 40503, Stop: 41009, Start Num: 37
Candidate Starts for Piperis_65:

(Start: 37 @40503 has 207 MA's), (38, 40518), (58, 40725), (67, 40809), (70, 40851),

Gene: Pitbull_59 Start: 34082, Stop: 34579, Start Num: 36

Candidate Starts for Pitbull_59:

(36, 34082), (55, 34256), (64, 34373), (69, 34409), (70, 34430),

Gene: Porky_99 Start: 58920, Stop: 59360, Start Num: 37

Candidate Starts for Porky_99:

(Start: 37 @58920 has 207 MA's), (49, 59019), (57, 59115), (61, 59151), (66, 59217), (70, 59265),

Gene: Pulchra_66 Start: 40899, Stop: 41405, Start Num: 37

Candidate Starts for Pulchra_66:

(Start: 37 @40899 has 207 MA's), (38, 40914), (58, 41121), (67, 41205), (70, 41247),

Gene: Pumpkin_102 Start: 59517, Stop: 59957, Start Num: 37

Candidate Starts for Pumpkin_102:

(12, 59355), (22, 59445), (Start: 37 @59517 has 207 MA's), (49, 59616), (61, 59748), (66, 59814), (70, 59862),

Gene: Quallification_101 Start: 60386, Stop: 60826, Start Num: 37

Candidate Starts for Quallification_101:

(Start: 37 @60386 has 207 MA's), (49, 60485), (57, 60581), (61, 60617), (66, 60683), (70, 60731),

Gene: Quhwah_68 Start: 41191, Stop: 41694, Start Num: 37

Candidate Starts for Quhwah_68:

(Start: 37 @41191 has 207 MA's), (38, 41206), (58, 41413), (67, 41497), (70, 41539),

Gene: Rakim_101 Start: 59237, Stop: 59848, Start Num: 11

Candidate Starts for Rakim_101:

(8, 59207), (9, 59210), (Start: 11 @59237 has 1 MA's), (12, 59240), (14, 59282), (22, 59336), (Start: 37 @59408 has 207 MA's), (49, 59507), (61, 59639), (66, 59705), (70, 59753),

Gene: Ramiel05_63 Start: 40561, Stop: 41067, Start Num: 37

Candidate Starts for Ramiel05_63:

(Start: 37 @40561 has 207 MA's), (38, 40576), (58, 40783), (67, 40867), (70, 40909),

Gene: Rey_73 Start: 45977, Stop: 46417, Start Num: 35

Candidate Starts for Rey_73:

(Start: 35 @45977 has 4 MA's), (53, 46142), (59, 46208), (66, 46280),

Gene: Rimmer_98 Start: 59798, Stop: 60238, Start Num: 37

Candidate Starts for Rimmer_98:

(24, 59741), (Start: 37 @59798 has 207 MA's), (49, 59897), (61, 60029), (66, 60095), (70, 60143),

Gene: RiverMonster_100 Start: 60072, Stop: 60512, Start Num: 37

Candidate Starts for RiverMonster_100:

(Start: 37 @60072 has 207 MA's), (49, 60171), (57, 60267), (61, 60303), (66, 60369), (70, 60417),

Gene: Rose5_83 Start: 53936, Stop: 54319, Start Num: 37

Candidate Starts for Rose5_83:

(Start: 37 @53936 has 207 MA's), (48, 54029), (52, 54083), (55, 54101), (61, 54161), (64, 54218),

Gene: Rumpelstiltskin_82 Start: 55099, Stop: 55485, Start Num: 37

Candidate Starts for Rumpelstiltskin_82:

(Start: 37 @55099 has 207 MA's), (43, 55150), (45, 55171), (48, 55192), (51, 55231), (52, 55246), (55, 55264), (60, 55321), (61, 55324), (64, 55381),

Gene: Saints25_97 Start: 58002, Stop: 58442, Start Num: 37

Candidate Starts for Saints25_97:

(13, 57852), (15, 57882), (23, 57930), (26, 57945), (27, 57957), (Start: 37 @58002 has 207 MA's), (49, 58101), (57, 58197), (61, 58233), (66, 58299), (70, 58347),

Gene: Samty_82 Start: 55171, Stop: 55554, Start Num: 37

Candidate Starts for Samty_82:

(Start: 37 @55171 has 207 MA's), (44, 55231), (45, 55243), (48, 55264), (52, 55324), (55, 55342), (61, 55402), (69, 55492),

Gene: Sassay_95 Start: 58223, Stop: 58663, Start Num: 37

Candidate Starts for Sassay_95:

(Start: 37 @58223 has 207 MA's), (49, 58322), (57, 58418), (61, 58454), (66, 58520), (70, 58568),

Gene: Savannah_63 Start: 40621, Stop: 41124, Start Num: 37

Candidate Starts for Savannah_63:

(Start: 37 @40621 has 207 MA's), (38, 40636), (58, 40843), (67, 40927), (70, 40969),

Gene: Scumberland_66 Start: 40816, Stop: 41319, Start Num: 37

Candidate Starts for Scumberland_66:

(Start: 37 @40816 has 207 MA's), (38, 40831), (58, 41038), (67, 41122), (70, 41164),

Gene: Selwyn23_65 Start: 40733, Stop: 41236, Start Num: 37

Candidate Starts for Selwyn23_65:

(Start: 37 @40733 has 207 MA's), (38, 40748), (58, 40955), (67, 41039), (70, 41081),

Gene: ShamWow_100 Start: 60193, Stop: 60633, Start Num: 37

Candidate Starts for ShamWow_100:

(Start: 37 @60193 has 207 MA's), (49, 60292), (57, 60388), (61, 60424), (66, 60490), (70, 60538),

Gene: ShereKhan_98 Start: 60632, Stop: 61072, Start Num: 37

Candidate Starts for ShereKhan_98:

(Start: 37 @60632 has 207 MA's), (49, 60731), (57, 60827), (61, 60863), (66, 60929), (70, 60977),

Gene: Shotgun_64 Start: 40497, Stop: 41003, Start Num: 37

Candidate Starts for Shotgun_64:

(Start: 37 @40497 has 207 MA's), (38, 40512), (58, 40719), (67, 40803), (70, 40845),

Gene: Silverleaf_82 Start: 53392, Stop: 53775, Start Num: 37

Candidate Starts for Silverleaf_82:

(Start: 37 @53392 has 207 MA's), (48, 53485), (52, 53539), (55, 53557), (61, 53617), (64, 53674),

Gene: Simpliphy_99 Start: 59643, Stop: 60083, Start Num: 37

Candidate Starts for Simpliphy_99:

(Start: 37 @59643 has 207 MA's), (49, 59742), (57, 59838), (61, 59874), (66, 59940), (70, 59988),

Gene: SirDuracell_100 Start: 59010, Stop: 59450, Start Num: 37

Candidate Starts for SirDuracell_100:

(24, 58953), (Start: 37 @59010 has 207 MA's), (49, 59109), (61, 59241), (66, 59307), (70, 59355),

Gene: Snenia_83 Start: 55407, Stop: 55790, Start Num: 37

Candidate Starts for Snenia_83:

(Start: 37 @55407 has 207 MA's), (44, 55467), (45, 55479), (48, 55500), (52, 55560), (55, 55578), (61, 55638), (69, 55728),

Gene: Soos_82 Start: 55154, Stop: 55576, Start Num: 35

Candidate Starts for Soos_82:

(6, 54929), (10, 54968), (19, 55049), (32, 55151), (Start: 35 @55154 has 4 MA's), (47, 55238), (50, 55256), (65, 55448), (66, 55454),

Gene: SophKB_97 Start: 58991, Stop: 59434, Start Num: 37

Candidate Starts for SophKB_97:

(Start: 37 @58991 has 207 MA's), (46, 59072), (49, 59090), (61, 59222), (66, 59288), (70, 59336), (73, 59423),

Gene: Sotrice96_101 Start: 59897, Stop: 60337, Start Num: 37

Candidate Starts for Sotrice96_101:

(Start: 37 @59897 has 207 MA's), (49, 59996), (61, 60128), (66, 60194), (70, 60242),

Gene: Stank_102 Start: 59671, Stop: 60111, Start Num: 37

Candidate Starts for Stank_102:

(8, 59470), (9, 59473), (Start: 11 @59500 has 1 MA's), (12, 59503), (14, 59545), (22, 59599), (Start: 37 @59671 has 207 MA's), (49, 59770), (61, 59902), (66, 59968), (70, 60016),

Gene: Stark_101 Start: 59955, Stop: 60395, Start Num: 37

Candidate Starts for Stark_101:

(Start: 37 @59955 has 207 MA's), (49, 60054), (57, 60150), (61, 60186), (66, 60252), (70, 60300),

Gene: StellaBean_97 Start: 60033, Stop: 60473, Start Num: 37

Candidate Starts for StellaBean_97:

(Start: 37 @60033 has 207 MA's), (49, 60132), (61, 60264), (66, 60330), (70, 60378),

Gene: Sting_87 Start: 55593, Stop: 56015, Start Num: 35

Candidate Starts for Sting_87:

(6, 55368), (10, 55407), (19, 55488), (32, 55590), (Start: 35 @55593 has 4 MA's), (47, 55677), (50, 55695), (65, 55887), (66, 55893),

Gene: StolenFromERC_102 Start: 59596, Stop: 60036, Start Num: 37

Candidate Starts for StolenFromERC_102:

(8, 59395), (9, 59398), (Start: 11 @59425 has 1 MA's), (12, 59428), (14, 59470), (22, 59524), (Start: 37 @59596 has 207 MA's), (49, 59695), (61, 59827), (66, 59893), (70, 59941),

Gene: TBrady12_103 Start: 59111, Stop: 59551, Start Num: 37

Candidate Starts for TBrady12_103:

(8, 58910), (9, 58913), (Start: 11 @58940 has 1 MA's), (12, 58943), (14, 58985), (22, 59039), (Start: 37 @59111 has 207 MA's), (49, 59210), (57, 59306), (61, 59342), (66, 59408), (70, 59456),

Gene: Tarkin_99 Start: 60497, Stop: 60937, Start Num: 37

Candidate Starts for Tarkin_99:

(Start: 37 @60497 has 207 MA's), (49, 60596), (57, 60692), (61, 60728), (66, 60794), (70, 60842),

Gene: Teamocil_68 Start: 40761, Stop: 41264, Start Num: 34

Candidate Starts for Teamocil_68:

(Start: 34 @40761 has 6 MA's), (58, 40983), (67, 41067),

Gene: TeardropMSU_96 Start: 58978, Stop: 59418, Start Num: 37

Candidate Starts for TeardropMSU_96:

(Start: 37 @58978 has 207 MA's), (49, 59077), (61, 59209), (66, 59275), (70, 59323),

Gene: Teaspoon_97 Start: 59854, Stop: 60294, Start Num: 37

Candidate Starts for Teaspoon_97:

(Start: 37 @59854 has 207 MA's), (49, 59953), (57, 60049), (61, 60085), (66, 60151), (70, 60199),

Gene: Teng_47 Start: 26473, Stop: 25979, Start Num: 37

Candidate Starts for Teng_47:

(Start: 37 @26473 has 207 MA's), (53, 26311), (70, 26125),

Gene: Terminus_103 Start: 60897, Stop: 61337, Start Num: 37

Candidate Starts for Terminus_103:

(Start: 37 @60897 has 207 MA's), (49, 60996), (57, 61092), (61, 61128), (66, 61194), (70, 61242),

Gene: Thresher_102 Start: 60735, Stop: 61175, Start Num: 37

Candidate Starts for Thresher_102:

(Start: 37 @60735 has 207 MA's), (49, 60834), (57, 60930), (61, 60966), (66, 61032), (70, 61080),

Gene: Tomaszewski_95 Start: 59435, Stop: 59875, Start Num: 37

Candidate Starts for Tomaszewski_95:

(24, 59378), (Start: 37 @59435 has 207 MA's), (49, 59534), (57, 59630), (61, 59666), (66, 59732), (70, 59780),

Gene: Toniann_126 Start: 71461, Stop: 71970, Start Num: 37

Candidate Starts for Toniann_126:

(Start: 37 @71461 has 207 MA's), (38, 71476), (40, 71485), (58, 71683), (70, 71809), (72, 71860), (74, 71920),

Gene: Toto_98 Start: 60193, Stop: 60633, Start Num: 37

Candidate Starts for Toto_98:

(Start: 37 @60193 has 207 MA's), (49, 60292), (57, 60388), (61, 60424), (66, 60490), (70, 60538),

Gene: Tourach_84 Start: 55589, Stop: 55975, Start Num: 37

Candidate Starts for Tourach_84:

(Start: 37 @55589 has 207 MA's), (43, 55640), (45, 55661), (48, 55682), (51, 55721), (52, 55736), (55, 55754), (60, 55811), (61, 55814), (64, 55871), (69, 55907),

Gene: Traaww1_96 Start: 58700, Stop: 59140, Start Num: 37

Candidate Starts for Traaww1_96:

(8, 58499), (9, 58502), (Start: 11 @58529 has 1 MA's), (12, 58532), (14, 58574), (22, 58628), (Start: 37 @58700 has 207 MA's), (46, 58781), (49, 58799), (61, 58931), (66, 58997), (70, 59045),

Gene: Tuco_101 Start: 61058, Stop: 61498, Start Num: 37

Candidate Starts for Tuco_101:

(Start: 37 @61058 has 207 MA's), (49, 61157), (61, 61289), (66, 61355), (70, 61403),

Gene: Tyson_83 Start: 53862, Stop: 54245, Start Num: 37

Candidate Starts for Tyson_83:

(Start: 37 @53862 has 207 MA's), (48, 53955), (52, 54009), (55, 54027), (61, 54087), (64, 54144),

Gene: UPIE_81 Start: 53458, Stop: 53841, Start Num: 37

Candidate Starts for UPIE_81:

(Start: 37 @53458 has 207 MA's), (48, 53551), (52, 53605), (55, 53623), (61, 53683), (64, 53740),

Gene: Ukulele_95 Start: 59455, Stop: 59895, Start Num: 37

Candidate Starts for Ukulele_95:

(Start: 37 @59455 has 207 MA's), (49, 59554), (57, 59650), (61, 59686), (66, 59752), (70, 59800),

Gene: Vetrix_84 Start: 55168, Stop: 55554, Start Num: 37

Candidate Starts for Vetrix_84:

(Start: 37 @55168 has 207 MA's), (43, 55219), (45, 55240), (48, 55261), (51, 55300), (52, 55315), (55, 55333), (60, 55390), (61, 55393), (64, 55450),

Gene: Wamburgexpress_82 Start: 53897, Stop: 54280, Start Num: 37

Candidate Starts for Wamburgexpress_82:

(Start: 37 @53897 has 207 MA's), (48, 53990), (52, 54044), (55, 54062), (61, 54122), (64, 54179),

Gene: Warren_45 Start: 28593, Stop: 29075, Start Num: 37

Candidate Starts for Warren_45:

(Start: 37 @28593 has 207 MA's), (58, 28815), (62, 28836), (67, 28899), (70, 28941),

Gene: Whirlwind_84 Start: 55415, Stop: 55798, Start Num: 37

Candidate Starts for Whirlwind_84:

(Start: 37 @55415 has 207 MA's), (44, 55475), (45, 55487), (48, 55508), (52, 55568), (55, 55586), (61, 55646), (69, 55736),

Gene: Wiggin_102 Start: 59101, Stop: 59541, Start Num: 37

Candidate Starts for Wiggin_102:

(8, 58900), (9, 58903), (Start: 11 @58930 has 1 MA's), (12, 58933), (14, 58975), (22, 59029), (Start: 37 @59101 has 207 MA's), (49, 59200), (61, 59332), (66, 59398), (70, 59446),

Gene: Wigglewobble_84 Start: 55113, Stop: 55499, Start Num: 37

Candidate Starts for Wigglewobble_84:

(Start: 37 @55113 has 207 MA's), (43, 55164), (45, 55185), (48, 55206), (51, 55245), (52, 55260), (55, 55278), (60, 55335), (61, 55338), (64, 55395),

Gene: Wilder_86 Start: 55257, Stop: 55643, Start Num: 37

Candidate Starts for Wilder_86:

(Start: 37 @55257 has 207 MA's), (43, 55308), (45, 55329), (48, 55350), (51, 55389), (52, 55404), (55, 55422), (60, 55479), (61, 55482), (64, 55539),

Gene: Willez_95 Start: 58223, Stop: 58663, Start Num: 37

Candidate Starts for Willez_95:

(Start: 37 @58223 has 207 MA's), (49, 58322), (57, 58418), (61, 58454), (66, 58520), (70, 58568),

Gene: WilliamBoone_125 Start: 69149, Stop: 69661, Start Num: 37

Candidate Starts for WilliamBoone_125:

(Start: 37 @69149 has 207 MA's), (39, 69167), (42, 69185), (57, 69347), (58, 69371), (72, 69545), (74, 69605),

Gene: Winky_85 Start: 55471, Stop: 55857, Start Num: 37

Candidate Starts for Winky_85:

(Start: 37 @55471 has 207 MA's), (43, 55522), (45, 55543), (48, 55564), (51, 55603), (52, 55618), (55, 55636), (60, 55693), (61, 55696), (64, 55753),

Gene: Wyatt2_83 Start: 53860, Stop: 54243, Start Num: 37

Candidate Starts for Wyatt2_83:

(Start: 37 @53860 has 207 MA's), (48, 53953), (52, 54007), (55, 54025), (61, 54085), (64, 54142),

Gene: Xandras_98 Start: 59005, Stop: 59364, Start Num: 46

Candidate Starts for Xandras_98:

(8, 58723), (9, 58726), (Start: 11 @58753 has 1 MA's), (12, 58756), (14, 58798), (22, 58852), (Start: 37 @58924 has 207 MA's), (46, 59005), (49, 59023), (61, 59155), (66, 59221), (70, 59269),

Gene: YassJohnny_97 Start: 58244, Stop: 58684, Start Num: 37

Candidate Starts for YassJohnny_97:

(8, 58043), (9, 58046), (Start: 11 @58073 has 1 MA's), (12, 58076), (14, 58118), (22, 58172), (Start: 37 @58244 has 207 MA's), (46, 58325), (49, 58343), (61, 58475), (66, 58541), (70, 58589),

Gene: Youngblood_103 Start: 60394, Stop: 60834, Start Num: 37

Candidate Starts for Youngblood_103:

(8, 60193), (9, 60196), (Start: 11 @60223 has 1 MA's), (12, 60226), (14, 60268), (22, 60322), (Start: 37 @60394 has 207 MA's), (46, 60475), (49, 60493), (57, 60589), (61, 60625), (66, 60691), (70, 60739),

Gene: Zakai_86 Start: 55577, Stop: 55963, Start Num: 37

Candidate Starts for Zakai_86:

(Start: 37 @55577 has 207 MA's), (43, 55628), (45, 55649), (48, 55670), (51, 55709), (52, 55724), (55, 55742), (60, 55799), (61, 55802), (64, 55859),

Gene: Zaria_83 Start: 53312, Stop: 53695, Start Num: 37

Candidate Starts for Zaria_83:

(Start: 37 @53312 has 207 MA's), (48, 53405), (52, 53459), (55, 53477), (61, 53537), (64, 53594),

Gene: xkcd_103 Start: 60578, Stop: 61018, Start Num: 37

Candidate Starts for xkcd_103:

(8, 60377), (9, 60380), (Start: 11 @60407 has 1 MA's), (12, 60410), (14, 60452), (22, 60506), (Start: 37 @60578 has 207 MA's), (46, 60659), (49, 60677), (61, 60809), (66, 60875), (70, 60923),