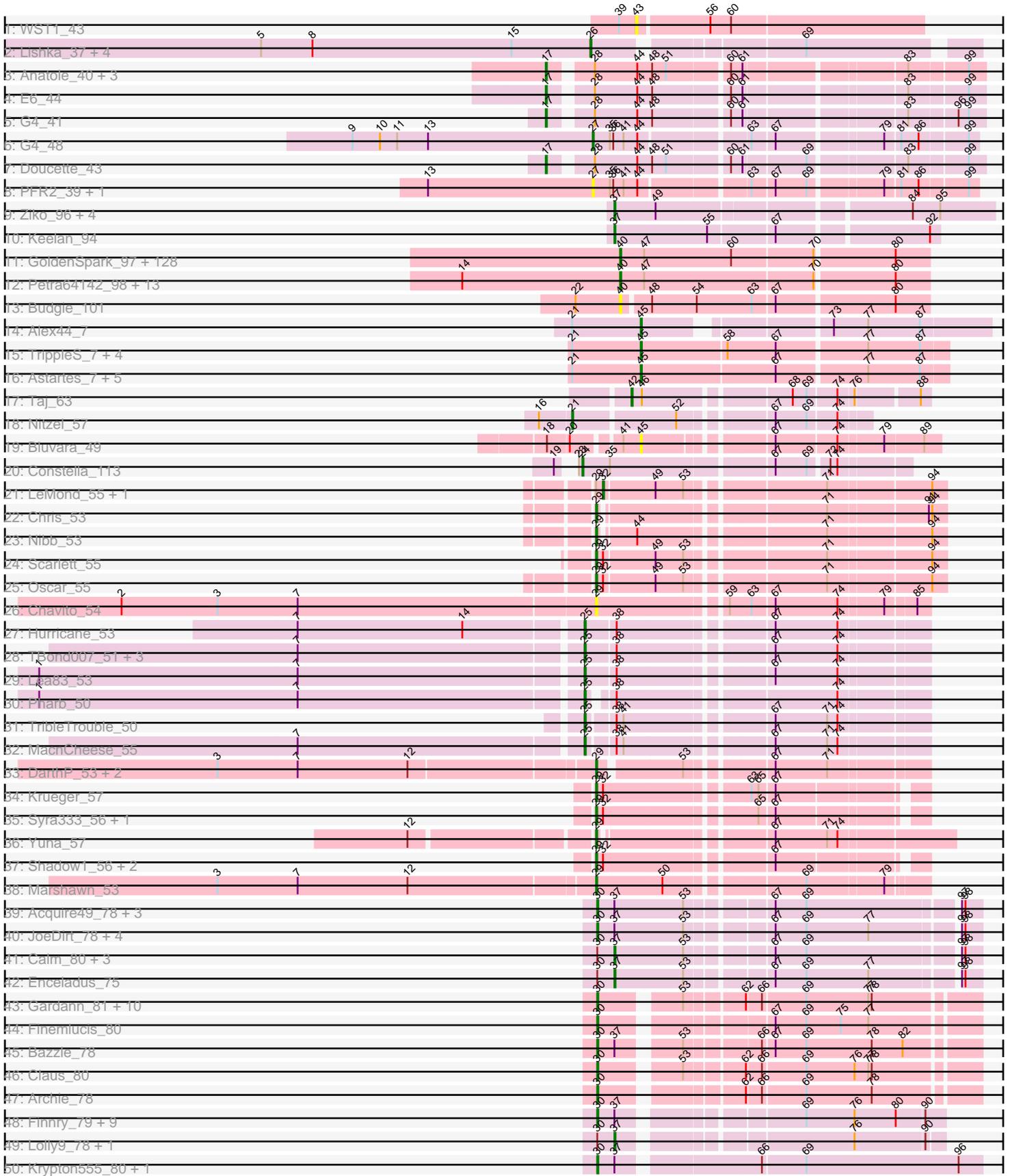
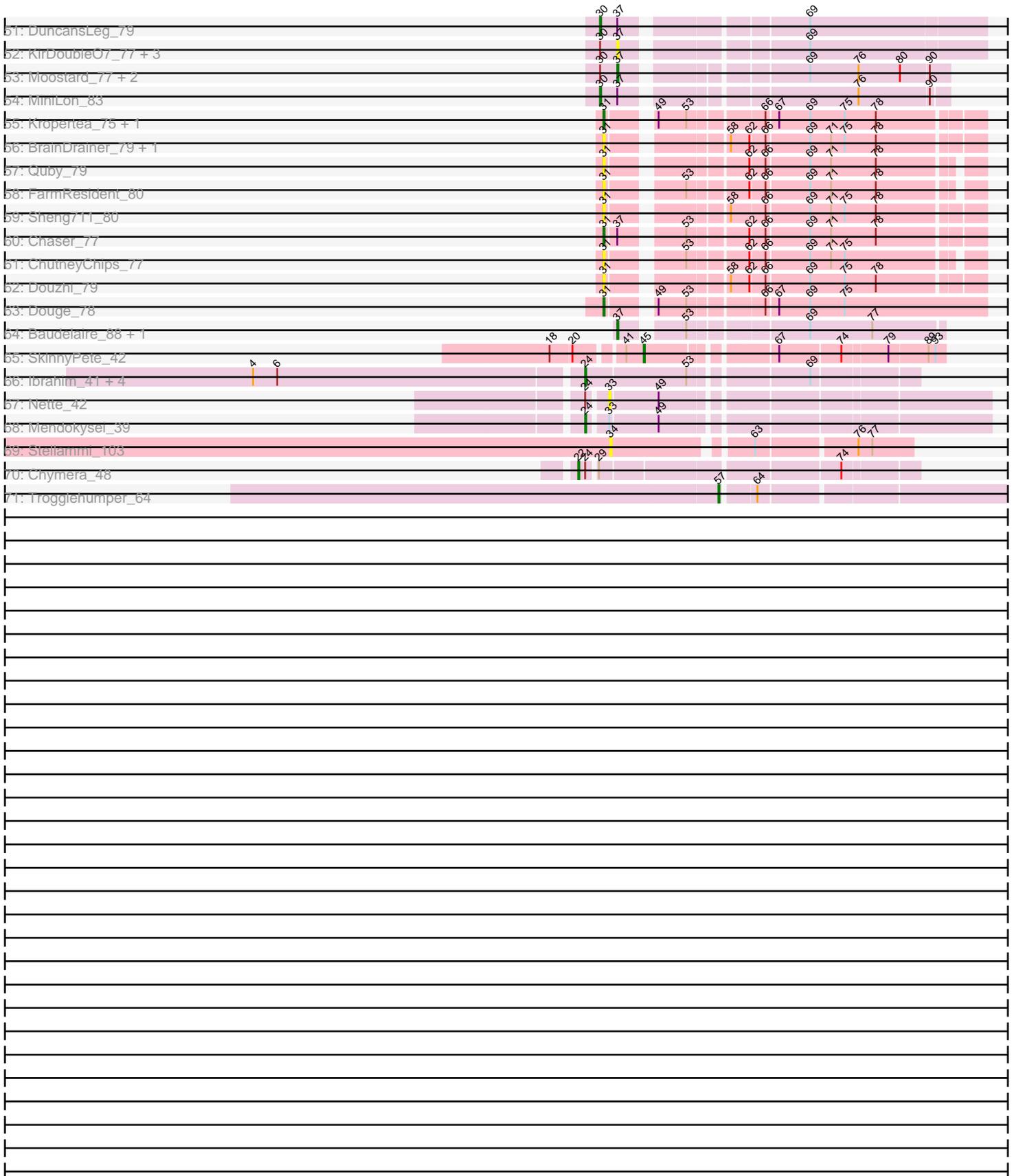


Pham 290783



Pham 290783



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 290783 Report

This analysis was run 03/28/26 on database version 641.

Pham number 290783 has 285 members, 40 are drafts.

Phages represented in each track:

- Track 1 : WST1_43
- Track 2 : Lishka_37, Bioscum_41, Austintatious_37, PapayaSalad_40, Ididsumtinwong_41
- Track 3 : Anatole_40, B3_39, B22_42, E1_40
- Track 4 : E6_44
- Track 5 : G4_41
- Track 6 : G4_48
- Track 7 : Doucette_43
- Track 8 : PFR2_39, PFR1_37
- Track 9 : Ziko_96, Ronaldo_96, Guey18_98, Volt_97, Fryberger_93
- Track 10 : Keelan_94
- Track 11 : GoldenSpark_97, Bruin_90, HanKaySha_94, ShereKhan_91, Lilpickle_92, DrDrey_93, Dumbo_93, Adnama_97, Hopey_94, BigBubba_93, Thresher_96, IHOP_91, Dusk_90, Thimble_95, Bench_96, Command613_95, MPhalcon_94, Harella_93, Becksu_92, BugsBunny_93, Nala_95, Qualification_94, Filch_95, Policronamos_96, SophKB_90, Gemini_98, Rakim_94, Palpatine_95, StellaBean_91, Mosby_89, Ukulele_88, Marshmallow_91, FairyPath_93, Henry_91, Czyszczon1_94, CrystalP_92, 244_94, Willez_88, Mindy_92, AmericanBeauty_97, Myrale_93, Easy2Say_94, Manda_95, Cjw1_94, Teaspoon_94, NelitzaMV_91, Kanye_90, Nimrod_94, Pumpkin_97, Kostya_93, Moldemort_96, YassJohnny_90, Eureka_92, ShamWow_93, Cactus_96, Traaww1_89, ChosenOne_93, NonchalantPear_91, TeardropMSU_89, Tomaszewski_88, BadStone_90, ABCat_90, BaboJay_93, Inca_90, Sassay_88, Youngblood_96, NoSleep_94, Wiggin_95, Phaja_91, Stank_95, SirDuracell_93, Emmina_93, Sotrice96_94, Goku_92, RiverMonster_94, GooberAzure_96, Argent26_97, FireRed_97, Elite2014_92, Brewer_88, Highbury_92, Murphy_93, Terminus_96, BilboSwaggins_91, Holt_98, Contagion_89, Xandras_92, MadamMonkfish_93, Murica_96, Goldilocks_96, Paperbeatsrock_92, Lilac_96, Misfit_94, Bogg_93, Maxxinista_96, JeTaime_94, Asriel_91, Pharsalus_90, Flypotenuse_89, StolenFromERC_96, Barbarian_92, Elph10_94, Tuco_94, TBrady12_96, PhatBacter_97, PaddyBaddy_94, Toto_91, Miniwave_88, OrionPax_92, Amao_93, HuffyPuff_95, Greep_97, Lilizi_94, xkcd_96, MISSy_94, Stark_95, Porky_92, Ptowny_90, Phaux_96, Kimchi_97, Tarkin_92, Icee_94, Hoonter_96, MollyToe_88, Gage_95, Saints25_92, Simpliphy_92, Phrux_91, Glexan_92
- Track 12 : Petra64142_98, DoctorDiddles_92, Pat3_90, Balomoji_93, ChotaBhai_93, Cookies_90, Buck_94, FoghornLeghorn_87, Bask21_93, Daikon_94, TeamEdward_93, Rimmer_91, Gator_91, StormChicken_95

- Track 13 : Budgie_101
- Track 14 : Alex44_7
- Track 15 : TrippleS_7, Atraxi_7, Morrill_7, ThirteenKH_7, Yafa_7
- Track 16 : Astartes_7, RicoCaldo_7, Fullmetal_7, PhriedRice_7, StagePhright_7, Moleficent_7
- Track 17 : Taj_63
- Track 18 : Nitzel_57
- Track 19 : Bluvara_49
- Track 20 : Constella_113
- Track 21 : LeMond_55, KiSi_55
- Track 22 : Chris_53
- Track 23 : Nibb_53
- Track 24 : Scarlett_55
- Track 25 : Oscar_55
- Track 26 : Chavito_54
- Track 27 : Hurricane_53
- Track 28 : TBond007_51, Keshu_55, Pixie_52, ShedlockHolmes_54
- Track 29 : Lea83_53
- Track 30 : Pharb_50
- Track 31 : TribbleTrouble_50
- Track 32 : MacnCheese_55
- Track 33 : DarthP_53, Hammy_53, Amohnition_53
- Track 34 : Krueger_57
- Track 35 : Syra333_56, Tigress9_57
- Track 36 : Yuna_57
- Track 37 : Shadow1_56, Sunflower1121_57, Ximenita_57
- Track 38 : Marshawn_53
- Track 39 : Acquire49_78, MAckerman_76, Zaria_79, Wyatt2_79
- Track 40 : JoeDirt_78, Appletree2_77, DirkDirk_75, OhShagHennessy_75, Poochiewood_76
- Track 41 : Calm_80, Tyson_79, Halena_76, Silverleaf_78
- Track 42 : Enceladus_75
- Track 43 : Gardann_81, Faith1_81, MkaliMitinis3_82, Zakai_82, Winky_81, Miley16_81, Wilder_82, Kahlid_81, Itos_80, Rumpelstiltskin_78, Breezona_81
- Track 44 : Finemlucis_80
- Track 45 : Bazzle_78
- Track 46 : Claus_80
- Track 47 : Archie_78
- Track 48 : Finnry_79, Bellis_79, Clautastrophe_77, Jubie_78, Jobypre_79, Kingsolomon_77, MsGreen_79, Nicholas_77, TriFive_80, Snenia_78
- Track 49 : Lolly9_78, MiniMac_83
- Track 50 : Krypton555_80, Whirlwind_80
- Track 51 : DuncansLeg_79
- Track 52 : KirDoubleO7_77, BourbonZero_80, Ellson_78, LiyuLake_78
- Track 53 : Moostard_77, Red305_80, Samty_78
- Track 54 : MiniLon_83
- Track 55 : Kropertea_75, DyoEdafos_83
- Track 56 : BrainDrainer_79, PYPDinur_78
- Track 57 : Quby_79
- Track 58 : FarmResident_80
- Track 59 : Sheng711_80
- Track 60 : Chaser_77
- Track 61 : ChutneyChips_77

- Track 62 : Douzhi_79
- Track 63 : Douge_78
- Track 64 : Baudelaire_88, Aegeus_88
- Track 65 : SkinnyPete_42
- Track 66 : Ibrahim_41, Bernal13_41, ZenTime222_40, RonRayGun_41, Nairb_40
- Track 67 : Nette_42
- Track 68 : Mendokysei_39
- Track 69 : Stellammi_103
- Track 70 : Chymera_48
- Track 71 : Trogglehumper_64

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

The start number called the most often in the published annotations is 40, it was called in 128 of the 245 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, Czyszczonek_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, Quallification_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, Wiggins_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, Amohndition_53, Anatole_40, Appletree2_77, Archie_78, Astartes_7, Atraxi_7, Austintatious_37, B22_42, B3_39, Baudelaire_88, Bazzle_78, Bellis_79, Bernal13_41, Bioscum_41, Bluvara_49, BourbonZero_80,

BrainDrainer_79, Breezona_81, Calm_80, Chaser_77, Chavito_54, Chris_53, ChutneyChips_77, Chymera_48, Claus_80, Clautastrophe_77, Constella_113, DarthP_53, DirkDirk_75, Doucette_43, Douge_78, Douzhi_79, DuncansLeg_79, DyoEdafos_83, E1_40, E6_44, Ellson_78, Enceladus_75, Faith1_81, FarmResident_80, Finemlucis_80, Finnry_79, Fryberger_93, Fullmetal_7, G4_41, G4_48, Gardann_81, Guey18_98, Halena_76, Hammy_53, Hurricane_53, Ibrahim_41, Ididsumtinwong_41, Itos_80, Jobypre_79, JoeDirt_78, Jubie_78, Kahlid_81, Keelan_94, Keshu_55, KiSi_55, Kingsolomon_77, KirDoubleO7_77, Kropertea_75, Krueger_57, Krypton555_80, LeMond_55, Lea83_53, Lishka_37, LiyuLake_78, Lolly9_78, MAckerman_76, MacnCheese_55, Marshawn_53, Mendokysei_39, Miley16_81, MiniLon_83, MiniMac_83, MkaliMitinis3_82, Moleficient_7, Moostard_77, Morrill_7, MsGreen_79, Nairb_40, Nette_42, Nibb_53, Nicholas_77, Nitzel_57, OhShagHennessy_75, Oscar_55, PFR1_37, PFR2_39, PYPDinur_78, PapayaSalad_40, Pharb_50, PhriedRice_7, Pixie_52, Poochiewood_76, Quby_79, Red305_80, RicoCaldo_7, RonRayGun_41, Ronaldo_96, Rumpelstiltskin_78, Samty_78, Scarlett_55, Shadow1_56, ShedlockHolmes_54, Sheng711_80, Silverleaf_78, SkinnyPete_42, Snenia_78, StagePhright_7, Stellammi_103, Sunflower1121_57, Syra333_56, TBond007_51, Taj_63, ThirteenKH_7, Tigress9_57, TriFive_80, TripleTrouble_50, TrippleS_7, Trogglehumper_64, Tyson_79, Volt_97, WST1_43, Whirlwind_80, Wilder_82, Winky_81, Wyatt2_79, Ximenita_57, Yafa_7, Yuna_57, Zakai_82, Zaria_79, ZenTime222_40, Ziko_96,

Summary by start number:

Start 17:

- Found in 7 of 285 (2.5%) of genes in pham
- Manual Annotations of this start: 7 of 245
- Called 100.0% of time when present
- Phage (with cluster) where this start called: Anatole_40 (BV), B22_42 (BW), B3_39 (BV), Doucette_43 (BW), E1_40 (BV), E6_44 (BW), G4_41 (BW),

Start 21:

- Found in 13 of 285 (4.6%) of genes in pham
- Manual Annotations of this start: 1 of 245
- Called 7.7% of time when present
- Phage (with cluster) where this start called: Nitzel_57 (F1),

Start 22:

- Found in 2 of 285 (0.7%) of genes in pham
- Manual Annotations of this start: 1 of 245
- Called 50.0% of time when present
- Phage (with cluster) where this start called: Chymera_48 (singleton),

Start 24:

- Found in 9 of 285 (3.2%) of genes in pham
- Manual Annotations of this start: 7 of 245
- Called 77.8% of time when present
- Phage (with cluster) where this start called: Bernal13_41 (T), Constella_113 (J), Ibrahim_41 (T), Mendokysei_39 (T), Nairb_40 (T), RonRayGun_41 (T), ZenTime222_40 (T),

Start 25:

- Found in 9 of 285 (3.2%) of genes in pham
- Manual Annotations of this start: 9 of 245
- Called 100.0% of time when present
- Phage (with cluster) where this start called: Hurricane_53 (K3), Keshu_55 (K3), Lea83_53 (K3), MacnCheese_55 (K3), Pharb_50 (K3), Pixie_52 (K3), ShedlockHolmes_54 (K3), TBond007_51 (K3), TribbleTrouble_50 (K3),

Start 26:

- Found in 5 of 285 (1.8%) of genes in pham
- Manual Annotations of this start: 5 of 245
- Called 100.0% of time when present
- Phage (with cluster) where this start called: Austintatious_37 (BC3), Bioscum_41 (BC3), Ididsumtinwong_41 (BC3), Lishka_37 (BC3), PapayaSalad_40 (BC3),

Start 27:

- Found in 3 of 285 (1.1%) of genes in pham
- Manual Annotations of this start: 1 of 245
- Called 100.0% of time when present
- Phage (with cluster) where this start called: G4_48 (BW), PFR1_37 (BX), PFR2_39 (BX),

Start 29:

- Found in 19 of 285 (6.7%) of genes in pham
- Manual Annotations of this start: 14 of 245
- Called 84.2% of time when present
- Phage (with cluster) where this start called: Amohnition_53 (K6), Chavito_54 (K1), Chris_53 (K1), DarthP_53 (K6), Hammy_53 (K6), Krueger_57 (K6), Marshawn_53 (K6), Nibb_53 (K1), Oscar_55 (K1), Scarlett_55 (K1), Shadow1_56 (K6), Sunflower1121_57 (K6), Syra333_56 (K6), Tigress9_57 (K6), Ximenita_57 (K6), Yuna_57 (K6),

Start 30:

- Found in 52 of 285 (18.2%) of genes in pham
- Manual Annotations of this start: 37 of 245
- Called 73.1% of time when present
- Phage (with cluster) where this start called: Acquire49_78 (L1), Appletree2_77 (L1), Archie_78 (L2), Bazzle_78 (L2), Bellis_79 (L3), Breezona_81 (L2), Claus_80 (L2), Clautastrophe_77 (L3), DirkDirk_75 (L1), DuncansLeg_79 (L3), Faith1_81 (L2), Finemlucis_80 (L2), Finnry_79 (L3), Gardann_81 (L2), Itos_80 (L2), Jobypre_79 (L3), JoeDirt_78 (L1), Jubie_78 (L3), Kahlid_81 (L2), Kingsolomon_77 (L3), Krypton555_80 (L3), MAckerman_76 (L1), Miley16_81 (L2), MiniLon_83 (L3), MkaliMitinis3_82 (L2), MsGreen_79 (L3), Nicholas_77 (L3), OhShagHennessy_75 (L1), Poochiewood_76 (L1), Rumpelstiltskin_78 (L2), Snenia_78 (L3), TriFive_80 (L3), Whirlwind_80 (L3), Wilder_82 (L2), Winky_81 (L2), Wyatt2_79 (L1), Zakai_82 (L2), Zaria_79 (L1),

Start 31:

- Found in 11 of 285 (3.9%) of genes in pham
- Manual Annotations of this start: 3 of 245
- Called 100.0% of time when present
- Phage (with cluster) where this start called: BrainDrainer_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 32:

- Found in 10 of 285 (3.5%) of genes in pham
- Manual Annotations of this start: 2 of 245
- Called 20.0% of time when present
- Phage (with cluster) where this start called: KiSi_55 (K1), LeMond_55 (K1),

Start 33:

- Found in 2 of 285 (0.7%) of genes in pham
- No Manual Annotations of this start.
- Called 50.0% of time when present
- Phage (with cluster) where this start called: Nette_42 (T),

Start 34:

- Found in 1 of 285 (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: Stellammi_103 (UNK),

Start 37:

- Found in 47 of 285 (16.5%) of genes in pham
- Manual Annotations of this start: 17 of 245
- Called 46.8% of time when present
- Phage (with cluster) where this start called: Aegeus_88 (L5), Baudelaire_88 (L5), BourbonZero_80 (L3), Calm_80 (L1), Ellson_78 (L3), Enceladus_75 (L1), Fryberger_93 (DP), Guey18_98 (DP), Halena_76 (L1), Keelan_94 (DP), KirDoubleO7_77 (L3), LiyuLake_78 (L3), Lolly9_78 (L3), MiniMac_83 (L3), Moostard_77 (L3), Red305_80 (L3), Ronaldo_96 (DP), Samty_78 (L3), Silverleaf_78 (L1), Tyson_79 (L1), Volt_97 (DP), Ziko_96 (DP),

Start 40:

- Found in 144 of 285 (50.5%) of genes in pham
- Manual Annotations of this start: 128 of 245
- 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), Czyszczonek1_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), Qualification_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 42:

- Found in 1 of 285 (0.4%) of genes in pham
- Manual Annotations of this start: 1 of 245
- Called 100.0% of time when present
- Phage (with cluster) where this start called: Taj_63 (F1),

Start 43:

- Found in 1 of 285 (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 45:

- Found in 14 of 285 (4.9%) of genes in pham
- Manual Annotations of this start: 11 of 245
- Called 100.0% of time when present
- Phage (with cluster) where this start called: Alex44_7 (EK1), Astartes_7 (EK2), Atraxi_7 (EK2), Bluvara_49 (I), Fullmetal_7 (EK2), Moleficent_7 (EK2), Morrill_7 (EK2), PhriedRice_7 (EK2), RicoCaldo_7 (EK2), SkinnyPete_42 (N), StagePhright_7 (EK2), ThirteenKH_7 (EK2), TrippleS_7 (EK2), Yafa_7 (EK2),

Start 57:

- Found in 1 of 285 (0.4%) of genes in pham
- Manual Annotations of this start: 1 of 245
- Called 100.0% of time when present
- Phage (with cluster) where this start called: Trogglehumper_64 (singleton),

Summary by clusters:

There are 24 clusters represented in this pham: singleton, K3, BV, BW, K6, BX, DP, AJ, E, I, J, N, L4, L5, L2, T, L1, UNK, F1, K1, BC3, EK2, EK1, L3,

Info for manual annotations of cluster BC3:

- Start number 26 was manually annotated 5 times for cluster BC3.

Info for manual annotations of cluster BV:

- Start number 17 was manually annotated 3 times for cluster BV.

Info for manual annotations of cluster BW:

- Start number 17 was manually annotated 4 times for cluster BW.
- Start number 27 was manually annotated 1 time for cluster BW.

Info for manual annotations of cluster DP:

- Start number 37 was manually annotated 6 times for cluster DP.

Info for manual annotations of cluster E:

- Start number 40 was manually annotated 128 times for cluster E.

Info for manual annotations of cluster EK1:

- Start number 45 was manually annotated 1 time for cluster EK1.

Info for manual annotations of cluster EK2:

- Start number 45 was manually annotated 9 times for cluster EK2.

Info for manual annotations of cluster F1:

- Start number 21 was manually annotated 1 time for cluster F1.
- Start number 42 was manually annotated 1 time for cluster F1.

Info for manual annotations of cluster J:

- Start number 24 was manually annotated 1 time for cluster J.

Info for manual annotations of cluster K1:

- Start number 29 was manually annotated 4 times for cluster K1.
- Start number 32 was manually annotated 2 times for cluster K1.

Info for manual annotations of cluster K3:

- Start number 25 was manually annotated 9 times for cluster K3.

Info for manual annotations of cluster K6:

- Start number 29 was manually annotated 10 times for cluster K6.

Info for manual annotations of cluster L1:

- Start number 30 was manually annotated 8 times for cluster L1.
- Start number 37 was manually annotated 5 times for cluster L1.

Info for manual annotations of cluster L2:

- Start number 30 was manually annotated 15 times for cluster L2.

Info for manual annotations of cluster L3:

- Start number 30 was manually annotated 14 times for cluster L3.
- Start number 37 was manually annotated 4 times for cluster L3.

Info for manual annotations of cluster L4:

- Start number 31 was manually annotated 3 times 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 N:

- Start number 45 was manually annotated 1 time for cluster N.

Info for manual annotations of cluster T:

- Start number 24 was manually annotated 6 times for cluster T.

Gene Information:

Gene: 244_94 Start: 56440, Stop: 56700, Start Num: 40

Candidate Starts for 244_94:

(Start: 40 @56440 has 128 MA's), (47, 56461), (60, 56536), (70, 56605), (80, 56671),

Gene: ABCat_90 Start: 57128, Stop: 57388, Start Num: 40

Candidate Starts for ABCat_90:

(Start: 40 @57128 has 128 MA's), (47, 57149), (60, 57224), (70, 57293), (80, 57359),

Gene: Acquire49_78 Start: 52009, Stop: 52314, Start Num: 30

Candidate Starts for Acquire49_78:

(Start: 30 @52009 has 37 MA's), (Start: 37 @52024 has 17 MA's), (53, 52084), (67, 52147), (69, 52174), (97, 52297), (98, 52300),

Gene: Adnama_97 Start: 56736, Stop: 56996, Start Num: 40

Candidate Starts for Adnama_97:

(Start: 40 @56736 has 128 MA's), (47, 56757), (60, 56832), (70, 56901), (80, 56967),

Gene: Aegeus_88 Start: 54840, Stop: 55091, Start Num: 37

Candidate Starts for Aegeus_88:

(Start: 37 @54840 has 17 MA's), (53, 54885), (69, 54978), (77, 55032),

Gene: Alex44_7 Start: 5465, Stop: 5193, Start Num: 45

Candidate Starts for Alex44_7:

(Start: 21 @5525 has 1 MA's), (Start: 45 @5465 has 11 MA's), (73, 5327), (77, 5297), (87, 5252),

Gene: Amao_93 Start: 56248, Stop: 56508, Start Num: 40

Candidate Starts for Amao_93:

(Start: 40 @56248 has 128 MA's), (47, 56269), (60, 56344), (70, 56413), (80, 56479),

Gene: AmericanBeauty_97 Start: 57297, Stop: 57557, Start Num: 40

Candidate Starts for AmericanBeauty_97:

(Start: 40 @57297 has 128 MA's), (47, 57318), (60, 57393), (70, 57462), (80, 57528),

Gene: Amohndition_53 Start: 38560, Stop: 38814, Start Num: 29

Candidate Starts for Amohndition_53:

(3, 38242), (7, 38311), (12, 38407), (Start: 29 @38560 has 14 MA's), (53, 38626), (67, 38689), (71, 38734),

Gene: Anatole_40 Start: 28483, Stop: 28815, Start Num: 17

Candidate Starts for Anatole_40:

(Start: 17 @28483 has 7 MA's), (28, 28510), (44, 28546), (48, 28558), (51, 28570), (60, 28618), (61, 28627), (83, 28753), (99, 28801),

Gene: Appletree2_77 Start: 51620, Stop: 51925, Start Num: 30

Candidate Starts for Appletree2_77:

(Start: 30 @51620 has 37 MA's), (Start: 37 @51635 has 17 MA's), (53, 51695), (67, 51758), (69, 51785), (77, 51839), (97, 51908), (98, 51911),

Gene: Archie_78 Start: 53502, Stop: 53798, Start Num: 30

Candidate Starts for Archie_78:

(Start: 30 @53502 has 37 MA's), (62, 53607), (66, 53619), (69, 53655), (78, 53712),

Gene: Argent26_97 Start: 56657, Stop: 56917, Start Num: 40

Candidate Starts for Argent26_97:

(Start: 40 @56657 has 128 MA's), (47, 56678), (60, 56753), (70, 56822), (80, 56888),

Gene: Asriel_91 Start: 55073, Stop: 55333, Start Num: 40

Candidate Starts for Asriel_91:

(Start: 40 @55073 has 128 MA's), (47, 55094), (60, 55169), (70, 55238), (80, 55304),

Gene: Astartes_7 Start: 5219, Stop: 4962, Start Num: 45

Candidate Starts for Astartes_7:

(Start: 21 @5279 has 1 MA's), (Start: 45 @5219 has 11 MA's), (67, 5105), (77, 5030), (87, 4985),

Gene: Atraxi_7 Start: 5184, Stop: 4927, Start Num: 45

Candidate Starts for Atraxi_7:

(Start: 21 @5244 has 1 MA's), (Start: 45 @5184 has 11 MA's), (58, 5112), (67, 5070), (77, 4995), (87, 4950),

Gene: Austintatious_37 Start: 25254, Stop: 25553, Start Num: 26

Candidate Starts for Austintatious_37:

(5, 24966), (8, 25011), (15, 25185), (Start: 26 @25254 has 5 MA's), (69, 25416),

Gene: B22_42 Start: 28248, Stop: 28580, Start Num: 17

Candidate Starts for B22_42:

(Start: 17 @28248 has 7 MA's), (28, 28275), (44, 28311), (48, 28323), (51, 28335), (60, 28383), (61, 28392), (83, 28518), (99, 28566),

Gene: B3_39 Start: 27767, Stop: 28099, Start Num: 17

Candidate Starts for B3_39:

(Start: 17 @27767 has 7 MA's), (28, 27794), (44, 27830), (48, 27842), (51, 27854), (60, 27902), (61, 27911), (83, 28037), (99, 28085),

Gene: BaboJay_93 Start: 57319, Stop: 57579, Start Num: 40

Candidate Starts for BaboJay_93:

(Start: 40 @57319 has 128 MA's), (47, 57340), (60, 57415), (70, 57484), (80, 57550),

Gene: BadStone_90 Start: 56697, Stop: 56957, Start Num: 40

Candidate Starts for BadStone_90:

(Start: 40 @56697 has 128 MA's), (47, 56718), (60, 56793), (70, 56862), (80, 56928),

Gene: Balomoji_93 Start: 56855, Stop: 57115, Start Num: 40

Candidate Starts for Balomoji_93:

(14, 56717), (Start: 40 @56855 has 128 MA's), (47, 56876), (70, 57020), (80, 57086),

Gene: Barbarian_92 Start: 55073, Stop: 55333, Start Num: 40

Candidate Starts for Barbarian_92:

(Start: 40 @55073 has 128 MA's), (47, 55094), (60, 55169), (70, 55238), (80, 55304),

Gene: Bask21_93 Start: 55708, Stop: 55968, Start Num: 40

Candidate Starts for Bask21_93:

(14, 55570), (Start: 40 @55708 has 128 MA's), (47, 55729), (70, 55873), (80, 55939),

Gene: Baudelaire_88 Start: 54840, Stop: 55091, Start Num: 37

Candidate Starts for Baudelaire_88:

(Start: 37 @54840 has 17 MA's), (53, 54885), (69, 54978), (77, 55032),

Gene: Bazzle_78 Start: 53691, Stop: 53987, Start Num: 30

Candidate Starts for Bazzle_78:

(Start: 30 @53691 has 37 MA's), (Start: 37 @53706 has 17 MA's), (53, 53751), (66, 53808), (67, 53817), (69, 53844), (78, 53901), (82, 53928),

Gene: Becksu_92 Start: 57049, Stop: 57309, Start Num: 40

Candidate Starts for Becksu_92:

(Start: 40 @57049 has 128 MA's), (47, 57070), (60, 57145), (70, 57214), (80, 57280),

Gene: Bellis_79 Start: 53796, Stop: 54065, Start Num: 30

Candidate Starts for Bellis_79:

(Start: 30 @53796 has 37 MA's), (Start: 37 @53811 has 17 MA's), (69, 53946), (76, 53988), (80, 54024), (90, 54048),

Gene: Bench_96 Start: 56792, Stop: 57052, Start Num: 40

Candidate Starts for Bench_96:

(Start: 40 @56792 has 128 MA's), (47, 56813), (60, 56888), (70, 56957), (80, 57023),

Gene: Bernal13_41 Start: 31446, Stop: 31703, Start Num: 24

Candidate Starts for Bernal13_41:

(4, 31170), (6, 31191), (Start: 24 @31446 has 7 MA's), (53, 31530), (69, 31620),

Gene: BigBubba_93 Start: 56089, Stop: 56349, Start Num: 40

Candidate Starts for BigBubba_93:

(Start: 40 @56089 has 128 MA's), (47, 56110), (60, 56185), (70, 56254), (80, 56320),

Gene: BilboSwaggins_91 Start: 57094, Stop: 57354, Start Num: 40

Candidate Starts for BilboSwaggins_91:

(Start: 40 @57094 has 128 MA's), (47, 57115), (60, 57190), (70, 57259), (80, 57325),

Gene: Bioscum_41 Start: 27555, Stop: 27854, Start Num: 26

Candidate Starts for Bioscum_41:

(5, 27267), (8, 27312), (15, 27486), (Start: 26 @27555 has 5 MA's), (69, 27717),

Gene: Bluvara_49 Start: 36316, Stop: 36546, Start Num: 45

Candidate Starts for Bluvara_49:

(18, 36247), (20, 36265), (41, 36301), (Start: 45 @36316 has 11 MA's), (67, 36412), (74, 36463), (79, 36499), (89, 36532),

Gene: Bogg_93 Start: 56007, Stop: 56267, Start Num: 40

Candidate Starts for Bogg_93:

(Start: 40 @56007 has 128 MA's), (47, 56028), (60, 56103), (70, 56172), (80, 56238),

Gene: BourbonZero_80 Start: 53807, Stop: 54094, Start Num: 37
Candidate Starts for BourbonZero_80:
(Start: 30 @53792 has 37 MA's), (Start: 37 @53807 has 17 MA's), (69, 53945),

Gene: BrainDrainer_79 Start: 52733, Stop: 53023, Start Num: 31
Candidate Starts for BrainDrainer_79:
(Start: 31 @52733 has 3 MA's), (58, 52817), (62, 52832), (66, 52844), (69, 52880), (71, 52898), (75, 52910), (78, 52937),

Gene: Breezona_81 Start: 53918, Stop: 54214, Start Num: 30
Candidate Starts for Breezona_81:
(Start: 30 @53918 has 37 MA's), (53, 53978), (62, 54023), (66, 54035), (69, 54071), (77, 54125), (78, 54128),

Gene: Brewer_88 Start: 55594, Stop: 55854, Start Num: 40
Candidate Starts for Brewer_88:
(Start: 40 @55594 has 128 MA's), (47, 55615), (60, 55690), (70, 55759), (80, 55825),

Gene: Bruin_90 Start: 55671, Stop: 55931, Start Num: 40
Candidate Starts for Bruin_90:
(Start: 40 @55671 has 128 MA's), (47, 55692), (60, 55767), (70, 55836), (80, 55902),

Gene: Buck_94 Start: 57360, Stop: 57620, Start Num: 40
Candidate Starts for Buck_94:
(14, 57222), (Start: 40 @57360 has 128 MA's), (47, 57381), (70, 57525), (80, 57591),

Gene: Budgie_101 Start: 56700, Stop: 56954, Start Num: 40
Candidate Starts for Budgie_101:
(Start: 22 @56661 has 1 MA's), (Start: 40 @56700 has 128 MA's), (48, 56721), (54, 56760), (63, 56808), (67, 56826), (80, 56925),

Gene: BugsBunny_93 Start: 57200, Stop: 57460, Start Num: 40
Candidate Starts for BugsBunny_93:
(Start: 40 @57200 has 128 MA's), (47, 57221), (60, 57296), (70, 57365), (80, 57431),

Gene: Cactus_96 Start: 55737, Stop: 55997, Start Num: 40
Candidate Starts for Cactus_96:
(Start: 40 @55737 has 128 MA's), (47, 55758), (60, 55833), (70, 55902), (80, 55968),

Gene: Calm_80 Start: 52346, Stop: 52636, Start Num: 37
Candidate Starts for Calm_80:
(Start: 30 @52331 has 37 MA's), (Start: 37 @52346 has 17 MA's), (53, 52406), (67, 52469), (69, 52496), (97, 52619), (98, 52622),

Gene: Chaser_77 Start: 52365, Stop: 52655, Start Num: 31
Candidate Starts for Chaser_77:
(Start: 31 @52365 has 3 MA's), (Start: 37 @52374 has 17 MA's), (53, 52419), (62, 52464), (66, 52476), (69, 52512), (71, 52530), (78, 52569),

Gene: Chavito_54 Start: 38944, Stop: 39207, Start Num: 29
Candidate Starts for Chavito_54:

(2, 38536), (3, 38620), (7, 38689), (Start: 29 @38944 has 14 MA's), (59, 39046), (63, 39064), (67, 39082), (74, 39136), (79, 39172), (85, 39196),

Gene: ChosenOne_93 Start: 56152, Stop: 56412, Start Num: 40

Candidate Starts for ChosenOne_93:

(Start: 40 @56152 has 128 MA's), (47, 56173), (60, 56248), (70, 56317), (80, 56383),

Gene: ChotaBhai_93 Start: 56073, Stop: 56333, Start Num: 40

Candidate Starts for ChotaBhai_93:

(14, 55935), (Start: 40 @56073 has 128 MA's), (47, 56094), (70, 56238), (80, 56304),

Gene: Chris_53 Start: 38292, Stop: 38561, Start Num: 29

Candidate Starts for Chris_53:

(Start: 29 @38292 has 14 MA's), (71, 38466), (91, 38547), (94, 38550),

Gene: ChutneyChips_77 Start: 52710, Stop: 52994, Start Num: 31

Candidate Starts for ChutneyChips_77:

(Start: 31 @52710 has 3 MA's), (53, 52764), (62, 52809), (66, 52821), (69, 52857), (71, 52875), (75, 52887),

Gene: Chymera_48 Start: 30948, Stop: 31208, Start Num: 22

Candidate Starts for Chymera_48:

(Start: 22 @30948 has 1 MA's), (Start: 24 @30954 has 7 MA's), (Start: 29 @30960 has 14 MA's), (74, 31149),

Gene: Cjw1_94 Start: 58116, Stop: 58376, Start Num: 40

Candidate Starts for Cjw1_94:

(Start: 40 @58116 has 128 MA's), (47, 58137), (60, 58212), (70, 58281), (80, 58347),

Gene: Claus_80 Start: 53853, Stop: 54149, Start Num: 30

Candidate Starts for Claus_80:

(Start: 30 @53853 has 37 MA's), (53, 53913), (62, 53958), (66, 53970), (69, 54006), (76, 54048), (77, 54060), (78, 54063),

Gene: Clautastrophe_77 Start: 53794, Stop: 54063, Start Num: 30

Candidate Starts for Clautastrophe_77:

(Start: 30 @53794 has 37 MA's), (Start: 37 @53809 has 17 MA's), (69, 53944), (76, 53986), (80, 54022), (90, 54046),

Gene: Command613_95 Start: 57191, Stop: 57451, Start Num: 40

Candidate Starts for Command613_95:

(Start: 40 @57191 has 128 MA's), (47, 57212), (60, 57287), (70, 57356), (80, 57422),

Gene: Constella_113 Start: 65296, Stop: 65556, Start Num: 24

Candidate Starts for Constella_113:

(19, 65287), (23, 65293), (Start: 24 @65296 has 7 MA's), (35, 65320), (67, 65452), (69, 65479), (72, 65494), (74, 65500),

Gene: Contagion_89 Start: 55952, Stop: 56212, Start Num: 40

Candidate Starts for Contagion_89:

(Start: 40 @55952 has 128 MA's), (47, 55973), (60, 56048), (70, 56117), (80, 56183),

Gene: Cookies_90 Start: 55930, Stop: 56190, Start Num: 40

Candidate Starts for Cookies_90:

(14, 55792), (Start: 40 @55930 has 128 MA's), (47, 55951), (70, 56095), (80, 56161),

Gene: CrystalP_92 Start: 57094, Stop: 57354, Start Num: 40

Candidate Starts for CrystalP_92:

(Start: 40 @57094 has 128 MA's), (47, 57115), (60, 57190), (70, 57259), (80, 57325),

Gene: Czyszczone1_94 Start: 56655, Stop: 56915, Start Num: 40

Candidate Starts for Czyszczone1_94:

(Start: 40 @56655 has 128 MA's), (47, 56676), (60, 56751), (70, 56820), (80, 56886),

Gene: Daikon_94 Start: 56682, Stop: 56942, Start Num: 40

Candidate Starts for Daikon_94:

(14, 56544), (Start: 40 @56682 has 128 MA's), (47, 56703), (70, 56847), (80, 56913),

Gene: DarthP_53 Start: 38444, Stop: 38698, Start Num: 29

Candidate Starts for DarthP_53:

(3, 38126), (7, 38195), (12, 38291), (Start: 29 @38444 has 14 MA's), (53, 38510), (67, 38573), (71, 38618),

Gene: DirkDirk_75 Start: 51200, Stop: 51505, Start Num: 30

Candidate Starts for DirkDirk_75:

(Start: 30 @51200 has 37 MA's), (Start: 37 @51215 has 17 MA's), (53, 51275), (67, 51338), (69, 51365), (77, 51419), (97, 51488), (98, 51491),

Gene: DoctorDiddles_92 Start: 56117, Stop: 56377, Start Num: 40

Candidate Starts for DoctorDiddles_92:

(14, 55979), (Start: 40 @56117 has 128 MA's), (47, 56138), (70, 56282), (80, 56348),

Gene: Doucette_43 Start: 29654, Stop: 29986, Start Num: 17

Candidate Starts for Doucette_43:

(Start: 17 @29654 has 7 MA's), (28, 29681), (44, 29717), (48, 29729), (51, 29741), (60, 29789), (61, 29798), (69, 29849), (83, 29924), (99, 29972),

Gene: Douge_78 Start: 52288, Stop: 52587, Start Num: 31

Candidate Starts for Douge_78:

(Start: 31 @52288 has 3 MA's), (49, 52318), (53, 52342), (66, 52399), (67, 52408), (69, 52435), (75, 52465),

Gene: Douzhi_79 Start: 52550, Stop: 52840, Start Num: 31

Candidate Starts for Douzhi_79:

(Start: 31 @52550 has 3 MA's), (58, 52634), (62, 52649), (66, 52661), (69, 52697), (75, 52727), (78, 52754),

Gene: DrDrey_93 Start: 57574, Stop: 57834, Start Num: 40

Candidate Starts for DrDrey_93:

(Start: 40 @57574 has 128 MA's), (47, 57595), (60, 57670), (70, 57739), (80, 57805),

Gene: Dumbo_93 Start: 56054, Stop: 56314, Start Num: 40

Candidate Starts for Dumbo_93:

(Start: 40 @56054 has 128 MA's), (47, 56075), (60, 56150), (70, 56219), (80, 56285),

Gene: DuncansLeg_79 Start: 53780, Stop: 54082, Start Num: 30

Candidate Starts for DuncansLeg_79:

(Start: 30 @53780 has 37 MA's), (Start: 37 @53795 has 17 MA's), (69, 53933),

Gene: Dusk_90 Start: 56357, Stop: 56617, Start Num: 40

Candidate Starts for Dusk_90:

(Start: 40 @56357 has 128 MA's), (47, 56378), (60, 56453), (70, 56522), (80, 56588),

Gene: DyoEdafos_83 Start: 53198, Stop: 53488, Start Num: 31

Candidate Starts for DyoEdafos_83:

(Start: 31 @53198 has 3 MA's), (49, 53228), (53, 53252), (66, 53309), (67, 53318), (69, 53345), (75, 53375), (78, 53402),

Gene: E1_40 Start: 28483, Stop: 28815, Start Num: 17

Candidate Starts for E1_40:

(Start: 17 @28483 has 7 MA's), (28, 28510), (44, 28546), (48, 28558), (51, 28570), (60, 28618), (61, 28627), (83, 28753), (99, 28801),

Gene: E6_44 Start: 31064, Stop: 31396, Start Num: 17

Candidate Starts for E6_44:

(Start: 17 @31064 has 7 MA's), (28, 31091), (44, 31127), (48, 31139), (60, 31199), (61, 31208), (83, 31334), (99, 31382),

Gene: Easy2Say_94 Start: 57556, Stop: 57816, Start Num: 40

Candidate Starts for Easy2Say_94:

(Start: 40 @57556 has 128 MA's), (47, 57577), (60, 57652), (70, 57721), (80, 57787),

Gene: Elite2014_92 Start: 56151, Stop: 56411, Start Num: 40

Candidate Starts for Elite2014_92:

(Start: 40 @56151 has 128 MA's), (47, 56172), (60, 56247), (70, 56316), (80, 56382),

Gene: Ellson_78 Start: 54110, Stop: 54397, Start Num: 37

Candidate Starts for Ellson_78:

(Start: 30 @54095 has 37 MA's), (Start: 37 @54110 has 17 MA's), (69, 54248),

Gene: Elph10_94 Start: 56144, Stop: 56404, Start Num: 40

Candidate Starts for Elph10_94:

(Start: 40 @56144 has 128 MA's), (47, 56165), (60, 56240), (70, 56309), (80, 56375),

Gene: Emmina_93 Start: 55777, Stop: 56037, Start Num: 40

Candidate Starts for Emmina_93:

(Start: 40 @55777 has 128 MA's), (47, 55798), (60, 55873), (70, 55942), (80, 56008),

Gene: Enceladus_75 Start: 51992, Stop: 52282, Start Num: 37

Candidate Starts for Enceladus_75:

(Start: 30 @51977 has 37 MA's), (Start: 37 @51992 has 17 MA's), (53, 52052), (67, 52115), (69, 52142), (77, 52196), (97, 52265), (98, 52268),

Gene: Eureka_92 Start: 57064, Stop: 57324, Start Num: 40

Candidate Starts for Eureka_92:

(Start: 40 @57064 has 128 MA's), (47, 57085), (60, 57160), (70, 57229), (80, 57295),

Gene: FairyPath_93 Start: 57270, Stop: 57530, Start Num: 40

Candidate Starts for FairyPath_93:

(Start: 40 @57270 has 128 MA's), (47, 57291), (60, 57366), (70, 57435), (80, 57501),

Gene: Faith1_81 Start: 53918, Stop: 54214, Start Num: 30

Candidate Starts for Faith1_81:

(Start: 30 @53918 has 37 MA's), (53, 53978), (62, 54023), (66, 54035), (69, 54071), (77, 54125), (78, 54128),

Gene: FarmResident_80 Start: 52292, Stop: 52576, Start Num: 31

Candidate Starts for FarmResident_80:

(Start: 31 @52292 has 3 MA's), (53, 52346), (62, 52391), (66, 52403), (69, 52439), (71, 52457), (78, 52496),

Gene: Filch_95 Start: 56349, Stop: 56609, Start Num: 40

Candidate Starts for Filch_95:

(Start: 40 @56349 has 128 MA's), (47, 56370), (60, 56445), (70, 56514), (80, 56580),

Gene: Finemlucis_80 Start: 54386, Stop: 54682, Start Num: 30

Candidate Starts for Finemlucis_80:

(Start: 30 @54386 has 37 MA's), (67, 54512), (69, 54539), (75, 54569), (77, 54593),

Gene: Finnry_79 Start: 54045, Stop: 54314, Start Num: 30

Candidate Starts for Finnry_79:

(Start: 30 @54045 has 37 MA's), (Start: 37 @54060 has 17 MA's), (69, 54195), (76, 54237), (80, 54273), (90, 54297),

Gene: FireRed_97 Start: 57367, Stop: 57627, Start Num: 40

Candidate Starts for FireRed_97:

(Start: 40 @57367 has 128 MA's), (47, 57388), (60, 57463), (70, 57532), (80, 57598),

Gene: Flypotenuse_89 Start: 55727, Stop: 55987, Start Num: 40

Candidate Starts for Flypotenuse_89:

(Start: 40 @55727 has 128 MA's), (47, 55748), (60, 55823), (70, 55892), (80, 55958),

Gene: FoghornLeghorn_87 Start: 54752, Stop: 55012, Start Num: 40

Candidate Starts for FoghornLeghorn_87:

(14, 54614), (Start: 40 @54752 has 128 MA's), (47, 54773), (70, 54917), (80, 54983),

Gene: Fryberger_93 Start: 47445, Stop: 47750, Start Num: 37

Candidate Starts for Fryberger_93:

(Start: 37 @47445 has 17 MA's), (49, 47478), (84, 47679), (95, 47703),

Gene: Fullmetal_7 Start: 5216, Stop: 4959, Start Num: 45

Candidate Starts for Fullmetal_7:

(Start: 21 @5276 has 1 MA's), (Start: 45 @5216 has 11 MA's), (67, 5102), (77, 5027), (87, 4982),

Gene: G4_41 Start: 28598, Stop: 28930, Start Num: 17

Candidate Starts for G4_41:

(Start: 17 @28598 has 7 MA's), (28, 28625), (44, 28661), (48, 28673), (60, 28733), (61, 28742), (83, 28868), (96, 28907), (99, 28916),

Gene: G4_48 Start: 30679, Stop: 30978, Start Num: 27

Candidate Starts for G4_48:

(9, 30469), (10, 30493), (11, 30508), (13, 30535), (Start: 27 @30679 has 1 MA's), (35, 30694), (36, 30697), (41, 30706), (44, 30718), (63, 30802), (67, 30820), (79, 30904), (81, 30916), (86, 30931), (99, 30970),

Gene: Gage_95 Start: 56798, Stop: 57058, Start Num: 40

Candidate Starts for Gage_95:

(Start: 40 @56798 has 128 MA's), (47, 56819), (60, 56894), (70, 56963), (80, 57029),

Gene: Gardann_81 Start: 53753, Stop: 54049, Start Num: 30

Candidate Starts for Gardann_81:

(Start: 30 @53753 has 37 MA's), (53, 53813), (62, 53858), (66, 53870), (69, 53906), (77, 53960), (78, 53963),

Gene: Gator_91 Start: 56582, Stop: 56842, Start Num: 40

Candidate Starts for Gator_91:

(14, 56444), (Start: 40 @56582 has 128 MA's), (47, 56603), (70, 56747), (80, 56813),

Gene: Gemini_98 Start: 57174, Stop: 57434, Start Num: 40

Candidate Starts for Gemini_98:

(Start: 40 @57174 has 128 MA's), (47, 57195), (60, 57270), (70, 57339), (80, 57405),

Gene: Glexan_92 Start: 56857, Stop: 57117, Start Num: 40

Candidate Starts for Glexan_92:

(Start: 40 @56857 has 128 MA's), (47, 56878), (60, 56953), (70, 57022), (80, 57088),

Gene: Goku_92 Start: 56793, Stop: 57053, Start Num: 40

Candidate Starts for Goku_92:

(Start: 40 @56793 has 128 MA's), (47, 56814), (60, 56889), (70, 56958), (80, 57024),

Gene: GoldenSpark_97 Start: 56657, Stop: 56917, Start Num: 40

Candidate Starts for GoldenSpark_97:

(Start: 40 @56657 has 128 MA's), (47, 56678), (60, 56753), (70, 56822), (80, 56888),

Gene: Goldilocks_96 Start: 56015, Stop: 56275, Start Num: 40

Candidate Starts for Goldilocks_96:

(Start: 40 @56015 has 128 MA's), (47, 56036), (60, 56111), (70, 56180), (80, 56246),

Gene: GooberAzure_96 Start: 56657, Stop: 56917, Start Num: 40

Candidate Starts for GooberAzure_96:

(Start: 40 @56657 has 128 MA's), (47, 56678), (60, 56753), (70, 56822), (80, 56888),

Gene: Greep_97 Start: 57931, Stop: 58191, Start Num: 40

Candidate Starts for Greep_97:

(Start: 40 @57931 has 128 MA's), (47, 57952), (60, 58027), (70, 58096), (80, 58162),

Gene: Guey18_98 Start: 48765, Stop: 49070, Start Num: 37

Candidate Starts for Guey18_98:

(Start: 37 @48765 has 17 MA's), (49, 48798), (84, 48999), (95, 49023),

Gene: Halena_76 Start: 51262, Stop: 51552, Start Num: 37

Candidate Starts for Halena_76:

(Start: 30 @51247 has 37 MA's), (Start: 37 @51262 has 17 MA's), (53, 51322), (67, 51385), (69, 51412), (97, 51535), (98, 51538),

Gene: Hammy_53 Start: 38432, Stop: 38686, Start Num: 29

Candidate Starts for Hammy_53:

(3, 38114), (7, 38183), (12, 38279), (Start: 29 @38432 has 14 MA's), (53, 38498), (67, 38561), (71, 38606),

Gene: HanKaySha_94 Start: 56224, Stop: 56484, Start Num: 40

Candidate Starts for HanKaySha_94:

(Start: 40 @56224 has 128 MA's), (47, 56245), (60, 56320), (70, 56389), (80, 56455),

Gene: Harella_93 Start: 57373, Stop: 57633, Start Num: 40

Candidate Starts for Harella_93:

(Start: 40 @57373 has 128 MA's), (47, 57394), (60, 57469), (70, 57538), (80, 57604),

Gene: Henry_91 Start: 56534, Stop: 56794, Start Num: 40

Candidate Starts for Henry_91:

(Start: 40 @56534 has 128 MA's), (47, 56555), (60, 56630), (70, 56699), (80, 56765),

Gene: Highbury_92 Start: 56224, Stop: 56484, Start Num: 40

Candidate Starts for Highbury_92:

(Start: 40 @56224 has 128 MA's), (47, 56245), (60, 56320), (70, 56389), (80, 56455),

Gene: Holt_98 Start: 57071, Stop: 57331, Start Num: 40

Candidate Starts for Holt_98:

(Start: 40 @57071 has 128 MA's), (47, 57092), (60, 57167), (70, 57236), (80, 57302),

Gene: Hoonter_96 Start: 56529, Stop: 56789, Start Num: 40

Candidate Starts for Hoonter_96:

(Start: 40 @56529 has 128 MA's), (47, 56550), (60, 56625), (70, 56694), (80, 56760),

Gene: Hokey_94 Start: 57035, Stop: 57295, Start Num: 40

Candidate Starts for Hokey_94:

(Start: 40 @57035 has 128 MA's), (47, 57056), (60, 57131), (70, 57200), (80, 57266),

Gene: HufflyPuff_95 Start: 57119, Stop: 57379, Start Num: 40

Candidate Starts for HufflyPuff_95:

(Start: 40 @57119 has 128 MA's), (47, 57140), (60, 57215), (70, 57284), (80, 57350),

Gene: Hurricane_53 Start: 37919, Stop: 38188, Start Num: 25

Candidate Starts for Hurricane_53:

(7, 37679), (14, 37823), (Start: 25 @37919 has 9 MA's), (38, 37943), (67, 38063), (74, 38117),

Gene: IHOP_91 Start: 56697, Stop: 56957, Start Num: 40

Candidate Starts for IHOP_91:

(Start: 40 @56697 has 128 MA's), (47, 56718), (60, 56793), (70, 56862), (80, 56928),

Gene: Ibrahim_41 Start: 31892, Stop: 32149, Start Num: 24

Candidate Starts for Ibrahim_41:

(4, 31616), (6, 31637), (Start: 24 @31892 has 7 MA's), (53, 31976), (69, 32066),

Gene: Icee_94 Start: 56184, Stop: 56444, Start Num: 40

Candidate Starts for Icee_94:

(Start: 40 @56184 has 128 MA's), (47, 56205), (60, 56280), (70, 56349), (80, 56415),

Gene: Ididsumtinwong_41 Start: 27555, Stop: 27854, Start Num: 26

Candidate Starts for Ididsumtinwong_41:

(5, 27267), (8, 27312), (15, 27486), (Start: 26 @27555 has 5 MA's), (69, 27717),

Gene: Inca_90 Start: 55186, Stop: 55446, Start Num: 40

Candidate Starts for Inca_90:

(Start: 40 @55186 has 128 MA's), (47, 55207), (60, 55282), (70, 55351), (80, 55417),

Gene: Itos_80 Start: 52824, Stop: 53120, Start Num: 30

Candidate Starts for Itos_80:

(Start: 30 @52824 has 37 MA's), (53, 52884), (62, 52929), (66, 52941), (69, 52977), (77, 53031), (78, 53034),

Gene: JeTaime_94 Start: 57387, Stop: 57647, Start Num: 40

Candidate Starts for JeTaime_94:

(Start: 40 @57387 has 128 MA's), (47, 57408), (60, 57483), (70, 57552), (80, 57618),

Gene: Jobypre_79 Start: 53794, Stop: 54063, Start Num: 30

Candidate Starts for Jobypre_79:

(Start: 30 @53794 has 37 MA's), (Start: 37 @53809 has 17 MA's), (69, 53944), (76, 53986), (80, 54022), (90, 54046),

Gene: JoeDirt_78 Start: 52575, Stop: 52880, Start Num: 30

Candidate Starts for JoeDirt_78:

(Start: 30 @52575 has 37 MA's), (Start: 37 @52590 has 17 MA's), (53, 52650), (67, 52713), (69, 52740), (77, 52794), (97, 52863), (98, 52866),

Gene: Jubie_78 Start: 53929, Stop: 54198, Start Num: 30

Candidate Starts for Jubie_78:

(Start: 30 @53929 has 37 MA's), (Start: 37 @53944 has 17 MA's), (69, 54079), (76, 54121), (80, 54157), (90, 54181),

Gene: Kahlid_81 Start: 53924, Stop: 54220, Start Num: 30

Candidate Starts for Kahlid_81:

(Start: 30 @53924 has 37 MA's), (53, 53984), (62, 54029), (66, 54041), (69, 54077), (77, 54131), (78, 54134),

Gene: Kanye_90 Start: 56281, Stop: 56541, Start Num: 40

Candidate Starts for Kanye_90:

(Start: 40 @56281 has 128 MA's), (47, 56302), (60, 56377), (70, 56446), (80, 56512),

Gene: Keelan_94 Start: 48287, Stop: 48550, Start Num: 37

Candidate Starts for Keelan_94:

(Start: 37 @48287 has 17 MA's), (55, 48365), (67, 48419), (92, 48542),

Gene: Keshu_55 Start: 37986, Stop: 38255, Start Num: 25

Candidate Starts for Keshu_55:

(7, 37746), (Start: 25 @37986 has 9 MA's), (38, 38010), (67, 38130), (74, 38184),

Gene: KiSi_55 Start: 38687, Stop: 38956, Start Num: 32

Candidate Starts for KiSi_55:

(Start: 29 @38681 has 14 MA's), (Start: 32 @38687 has 2 MA's), (49, 38729), (53, 38753), (71, 38861), (94, 38945),

Gene: Kimchi_97 Start: 56801, Stop: 57061, Start Num: 40

Candidate Starts for Kimchi_97:

(Start: 40 @56801 has 128 MA's), (47, 56822), (60, 56897), (70, 56966), (80, 57032),

Gene: Kingsolomon_77 Start: 53801, Stop: 54070, Start Num: 30

Candidate Starts for Kingsolomon_77:

(Start: 30 @53801 has 37 MA's), (Start: 37 @53816 has 17 MA's), (69, 53951), (76, 53993), (80, 54029), (90, 54053),

Gene: KirDoubleO7_77 Start: 53797, Stop: 54084, Start Num: 37

Candidate Starts for KirDoubleO7_77:

(Start: 30 @53782 has 37 MA's), (Start: 37 @53797 has 17 MA's), (69, 53935),

Gene: Kostya_93 Start: 56799, Stop: 57059, Start Num: 40

Candidate Starts for Kostya_93:

(Start: 40 @56799 has 128 MA's), (47, 56820), (60, 56895), (70, 56964), (80, 57030),

Gene: Kropertea_75 Start: 52480, Stop: 52770, Start Num: 31

Candidate Starts for Kropertea_75:

(Start: 31 @52480 has 3 MA's), (49, 52510), (53, 52534), (66, 52591), (67, 52600), (69, 52627), (75, 52657), (78, 52684),

Gene: Krueger_57 Start: 38145, Stop: 38396, Start Num: 29

Candidate Starts for Krueger_57:

(Start: 29 @38145 has 14 MA's), (Start: 32 @38151 has 2 MA's), (63, 38265), (65, 38271), (67, 38283),

Gene: Krypton555_80 Start: 54028, Stop: 54342, Start Num: 30

Candidate Starts for Krypton555_80:

(Start: 30 @54028 has 37 MA's), (Start: 37 @54043 has 17 MA's), (66, 54154), (69, 54190), (96, 54322),

Gene: LeMond_55 Start: 38671, Stop: 38940, Start Num: 32

Candidate Starts for LeMond_55:

(Start: 29 @38665 has 14 MA's), (Start: 32 @38671 has 2 MA's), (49, 38713), (53, 38737), (71, 38845), (94, 38929),

Gene: Lea83_53 Start: 37972, Stop: 38241, Start Num: 25

Candidate Starts for Lea83_53:

(1, 37507), (7, 37732), (Start: 25 @37972 has 9 MA's), (38, 37996), (67, 38116), (74, 38170),

Gene: Lilac_96 Start: 56626, Stop: 56886, Start Num: 40

Candidate Starts for Lilac_96:

(Start: 40 @56626 has 128 MA's), (47, 56647), (60, 56722), (70, 56791), (80, 56857),

Gene: Lilizi_94 Start: 56263, Stop: 56523, Start Num: 40

Candidate Starts for Lilizi_94:

(Start: 40 @56263 has 128 MA's), (47, 56284), (60, 56359), (70, 56428), (80, 56494),

Gene: Lilpickle_92 Start: 56151, Stop: 56411, Start Num: 40

Candidate Starts for Lilpickle_92:

(Start: 40 @56151 has 128 MA's), (47, 56172), (60, 56247), (70, 56316), (80, 56382),

Gene: Lishka_37 Start: 25254, Stop: 25553, Start Num: 26

Candidate Starts for Lishka_37:

(5, 24966), (8, 25011), (15, 25185), (Start: 26 @25254 has 5 MA's), (69, 25416),

Gene: LiyuLake_78 Start: 53870, Stop: 54157, Start Num: 37

Candidate Starts for LiyuLake_78:

(Start: 30 @53855 has 37 MA's), (Start: 37 @53870 has 17 MA's), (69, 54008),

Gene: Lolly9_78 Start: 53913, Stop: 54164, Start Num: 37

Candidate Starts for Lolly9_78:

(Start: 30 @53898 has 37 MA's), (Start: 37 @53913 has 17 MA's), (76, 54090), (90, 54150),

Gene: MAckerman_76 Start: 51240, Stop: 51545, Start Num: 30

Candidate Starts for MAckerman_76:

(Start: 30 @51240 has 37 MA's), (Start: 37 @51255 has 17 MA's), (53, 51315), (67, 51378), (69, 51405), (97, 51528), (98, 51531),

Gene: MISSy_94 Start: 56379, Stop: 56639, Start Num: 40

Candidate Starts for MISSy_94:

(Start: 40 @56379 has 128 MA's), (47, 56400), (60, 56475), (70, 56544), (80, 56610),

Gene: MPhalcon_94 Start: 56372, Stop: 56632, Start Num: 40

Candidate Starts for MPhalcon_94:

(Start: 40 @56372 has 128 MA's), (47, 56393), (60, 56468), (70, 56537), (80, 56603),

Gene: MacnCheese_55 Start: 38928, Stop: 39194, Start Num: 25

Candidate Starts for MacnCheese_55:

(7, 38688), (Start: 25 @38928 has 9 MA's), (38, 38949), (41, 38955), (67, 39069), (71, 39114), (74, 39123),

Gene: MadamMonkfish_93 Start: 55878, Stop: 56138, Start Num: 40

Candidate Starts for MadamMonkfish_93:

(Start: 40 @55878 has 128 MA's), (47, 55899), (60, 55974), (70, 56043), (80, 56109),

Gene: Manda_95 Start: 57955, Stop: 58215, Start Num: 40

Candidate Starts for Manda_95:

(Start: 40 @57955 has 128 MA's), (47, 57976), (60, 58051), (70, 58120), (80, 58186),

Gene: Marshawn_53 Start: 38262, Stop: 38522, Start Num: 29

Candidate Starts for Marshawn_53:

(3, 37941), (7, 38010), (12, 38106), (Start: 29 @38262 has 14 MA's), (50, 38319), (69, 38427), (79, 38490),

Gene: Marshmallow_91 Start: 57427, Stop: 57687, Start Num: 40

Candidate Starts for Marshmallow_91:

(Start: 40 @57427 has 128 MA's), (47, 57448), (60, 57523), (70, 57592), (80, 57658),

Gene: Maxxinista_96 Start: 56793, Stop: 57053, Start Num: 40

Candidate Starts for Maxxinista_96:

(Start: 40 @56793 has 128 MA's), (47, 56814), (60, 56889), (70, 56958), (80, 57024),

Gene: Mendokysei_39 Start: 30983, Stop: 31297, Start Num: 24

Candidate Starts for Mendokysei_39:

(Start: 24 @30983 has 7 MA's), (33, 30998), (49, 31037),

Gene: Miley16_81 Start: 53918, Stop: 54214, Start Num: 30

Candidate Starts for Miley16_81:

(Start: 30 @53918 has 37 MA's), (53, 53978), (62, 54023), (66, 54035), (69, 54071), (77, 54125), (78, 54128),

Gene: Mindy_92 Start: 55700, Stop: 55960, Start Num: 40

Candidate Starts for Mindy_92:

(Start: 40 @55700 has 128 MA's), (47, 55721), (60, 55796), (70, 55865), (80, 55931),

Gene: MiniLon_83 Start: 53899, Stop: 54165, Start Num: 30

Candidate Starts for MiniLon_83:

(Start: 30 @53899 has 37 MA's), (Start: 37 @53914 has 17 MA's), (76, 54091), (90, 54151),

Gene: MiniMac_83 Start: 53909, Stop: 54160, Start Num: 37

Candidate Starts for MiniMac_83:

(Start: 30 @53894 has 37 MA's), (Start: 37 @53909 has 17 MA's), (76, 54086), (90, 54146),

Gene: Miniwave_88 Start: 56195, Stop: 56455, Start Num: 40

Candidate Starts for Miniwave_88:

(Start: 40 @56195 has 128 MA's), (47, 56216), (60, 56291), (70, 56360), (80, 56426),

Gene: Misfit_94 Start: 57669, Stop: 57929, Start Num: 40

Candidate Starts for Misfit_94:

(Start: 40 @57669 has 128 MA's), (47, 57690), (60, 57765), (70, 57834), (80, 57900),

Gene: MkaliMitinis3_82 Start: 53987, Stop: 54283, Start Num: 30

Candidate Starts for MkaliMitinis3_82:

(Start: 30 @53987 has 37 MA's), (53, 54047), (62, 54092), (66, 54104), (69, 54140), (77, 54194), (78, 54197),

Gene: Moldemort_96 Start: 56336, Stop: 56596, Start Num: 40

Candidate Starts for Moldemort_96:

(Start: 40 @56336 has 128 MA's), (47, 56357), (60, 56432), (70, 56501), (80, 56567),

Gene: Moleficent_7 Start: 5213, Stop: 4956, Start Num: 45

Candidate Starts for Moleficent_7:

(Start: 21 @5273 has 1 MA's), (Start: 45 @5213 has 11 MA's), (67, 5099), (77, 5024), (87, 4979),

Gene: MollyToe_88 Start: 55218, Stop: 55478, Start Num: 40

Candidate Starts for MollyToe_88:

(Start: 40 @55218 has 128 MA's), (47, 55239), (60, 55314), (70, 55383), (80, 55449),

Gene: Moostard_77 Start: 53811, Stop: 54065, Start Num: 37

Candidate Starts for Moostard_77:

(Start: 30 @53796 has 37 MA's), (Start: 37 @53811 has 17 MA's), (69, 53946), (76, 53988), (80, 54024), (90, 54048),

Gene: Morrill_7 Start: 5168, Stop: 4911, Start Num: 45

Candidate Starts for Morrill_7:

(Start: 21 @5228 has 1 MA's), (Start: 45 @5168 has 11 MA's), (58, 5096), (67, 5054), (77, 4979), (87, 4934),

Gene: Mosby_89 Start: 55952, Stop: 56212, Start Num: 40

Candidate Starts for Mosby_89:

(Start: 40 @55952 has 128 MA's), (47, 55973), (60, 56048), (70, 56117), (80, 56183),

Gene: MsGreen_79 Start: 53793, Stop: 54062, Start Num: 30

Candidate Starts for MsGreen_79:

(Start: 30 @53793 has 37 MA's), (Start: 37 @53808 has 17 MA's), (69, 53943), (76, 53985), (80, 54021), (90, 54045),

Gene: Murica_96 Start: 57595, Stop: 57855, Start Num: 40

Candidate Starts for Murica_96:

(Start: 40 @57595 has 128 MA's), (47, 57616), (60, 57691), (70, 57760), (80, 57826),

Gene: Murphy_93 Start: 57036, Stop: 57296, Start Num: 40

Candidate Starts for Murphy_93:

(Start: 40 @57036 has 128 MA's), (47, 57057), (60, 57132), (70, 57201), (80, 57267),

Gene: Myrale_93 Start: 57158, Stop: 57418, Start Num: 40

Candidate Starts for Myrale_93:

(Start: 40 @57158 has 128 MA's), (47, 57179), (60, 57254), (70, 57323), (80, 57389),

Gene: Nairb_40 Start: 31446, Stop: 31703, Start Num: 24

Candidate Starts for Nairb_40:

(4, 31170), (6, 31191), (Start: 24 @31446 has 7 MA's), (53, 31530), (69, 31620),

Gene: Nala_95 Start: 56881, Stop: 57141, Start Num: 40

Candidate Starts for Nala_95:

(Start: 40 @56881 has 128 MA's), (47, 56902), (60, 56977), (70, 57046), (80, 57112),

Gene: NelitzaMV_91 Start: 56241, Stop: 56501, Start Num: 40

Candidate Starts for NelitzaMV_91:

(Start: 40 @56241 has 128 MA's), (47, 56262), (60, 56337), (70, 56406), (80, 56472),

Gene: Nette_42 Start: 31007, Stop: 31306, Start Num: 33

Candidate Starts for Nette_42:

(Start: 24 @30992 has 7 MA's), (33, 31007), (49, 31046),

Gene: Nibb_53 Start: 37813, Stop: 38082, Start Num: 29

Candidate Starts for Nibb_53:

(Start: 29 @37813 has 14 MA's), (44, 37840), (71, 37987), (94, 38071),

Gene: Nicholas_77 Start: 53801, Stop: 54070, Start Num: 30

Candidate Starts for Nicholas_77:

(Start: 30 @53801 has 37 MA's), (Start: 37 @53816 has 17 MA's), (69, 53951), (76, 53993), (80, 54029), (90, 54053),

Gene: Nimrod_94 Start: 57584, Stop: 57844, Start Num: 40

Candidate Starts for Nimrod_94:

(Start: 40 @57584 has 128 MA's), (47, 57605), (60, 57680), (70, 57749), (80, 57815),

Gene: Nitzel_57 Start: 39291, Stop: 39521, Start Num: 21
Candidate Starts for Nitzel_57:
(16, 39264), (Start: 21 @39291 has 1 MA's), (52, 39375), (67, 39444), (69, 39471), (74, 39495),

Gene: NoSleep_94 Start: 56218, Stop: 56478, Start Num: 40
Candidate Starts for NoSleep_94:
(Start: 40 @56218 has 128 MA's), (47, 56239), (60, 56314), (70, 56383), (80, 56449),

Gene: NonchalantPear_91 Start: 56074, Stop: 56334, Start Num: 40
Candidate Starts for NonchalantPear_91:
(Start: 40 @56074 has 128 MA's), (47, 56095), (60, 56170), (70, 56239), (80, 56305),

Gene: OhShagHennessy_75 Start: 51278, Stop: 51583, Start Num: 30
Candidate Starts for OhShagHennessy_75:
(Start: 30 @51278 has 37 MA's), (Start: 37 @51293 has 17 MA's), (53, 51353), (67, 51416), (69, 51443), (77, 51497), (97, 51566), (98, 51569),

Gene: OrionPax_92 Start: 55969, Stop: 56229, Start Num: 40
Candidate Starts for OrionPax_92:
(Start: 40 @55969 has 128 MA's), (47, 55990), (60, 56065), (70, 56134), (80, 56200),

Gene: Oscar_55 Start: 38567, Stop: 38842, Start Num: 29
Candidate Starts for Oscar_55:
(Start: 29 @38567 has 14 MA's), (Start: 32 @38573 has 2 MA's), (49, 38615), (53, 38639), (71, 38747), (94, 38831),

Gene: PFR1_37 Start: 28506, Stop: 28805, Start Num: 27
Candidate Starts for PFR1_37:
(13, 28362), (Start: 27 @28506 has 1 MA's), (35, 28521), (36, 28524), (41, 28533), (44, 28545), (63, 28629), (67, 28647), (69, 28674), (79, 28731), (81, 28743), (86, 28758), (99, 28797),

Gene: PFR2_39 Start: 30075, Stop: 30374, Start Num: 27
Candidate Starts for PFR2_39:
(13, 29931), (Start: 27 @30075 has 1 MA's), (35, 30090), (36, 30093), (41, 30102), (44, 30114), (63, 30198), (67, 30216), (69, 30243), (79, 30300), (81, 30312), (86, 30327), (99, 30366),

Gene: PYPDinur_78 Start: 52985, Stop: 53275, Start Num: 31
Candidate Starts for PYPDinur_78:
(Start: 31 @52985 has 3 MA's), (58, 53069), (62, 53084), (66, 53096), (69, 53132), (71, 53150), (75, 53162), (78, 53189),

Gene: PaddyBaddy_94 Start: 56517, Stop: 56777, Start Num: 40
Candidate Starts for PaddyBaddy_94:
(Start: 40 @56517 has 128 MA's), (47, 56538), (60, 56613), (70, 56682), (80, 56748),

Gene: Palpatine_95 Start: 57622, Stop: 57882, Start Num: 40
Candidate Starts for Palpatine_95:
(Start: 40 @57622 has 128 MA's), (47, 57643), (60, 57718), (70, 57787), (80, 57853),

Gene: PapayaSalad_40 Start: 27840, Stop: 28139, Start Num: 26
Candidate Starts for PapayaSalad_40:
(5, 27552), (8, 27597), (15, 27771), (Start: 26 @27840 has 5 MA's), (69, 28002),

Gene: Paperbeatsrock_92 Start: 56873, Stop: 57133, Start Num: 40
Candidate Starts for Paperbeatsrock_92:
(Start: 40 @56873 has 128 MA's), (47, 56894), (60, 56969), (70, 57038), (80, 57104),

Gene: Pat3_90 Start: 55071, Stop: 55331, Start Num: 40
Candidate Starts for Pat3_90:
(14, 54933), (Start: 40 @55071 has 128 MA's), (47, 55092), (70, 55236), (80, 55302),

Gene: Petra64142_98 Start: 58076, Stop: 58336, Start Num: 40
Candidate Starts for Petra64142_98:
(14, 57938), (Start: 40 @58076 has 128 MA's), (47, 58097), (70, 58241), (80, 58307),

Gene: Phaja_91 Start: 56699, Stop: 56959, Start Num: 40
Candidate Starts for Phaja_91:
(Start: 40 @56699 has 128 MA's), (47, 56720), (60, 56795), (70, 56864), (80, 56930),

Gene: Pharb_50 Start: 36682, Stop: 36942, Start Num: 25
Candidate Starts for Pharb_50:
(1, 36217), (7, 36442), (Start: 25 @36682 has 9 MA's), (38, 36697), (74, 36871),

Gene: Pharsalus_90 Start: 56673, Stop: 56933, Start Num: 40
Candidate Starts for Pharsalus_90:
(Start: 40 @56673 has 128 MA's), (47, 56694), (60, 56769), (70, 56838), (80, 56904),

Gene: PhatBacter_97 Start: 57367, Stop: 57627, Start Num: 40
Candidate Starts for PhatBacter_97:
(Start: 40 @57367 has 128 MA's), (47, 57388), (60, 57463), (70, 57532), (80, 57598),

Gene: Phaux_96 Start: 57909, Stop: 58169, Start Num: 40
Candidate Starts for Phaux_96:
(Start: 40 @57909 has 128 MA's), (47, 57930), (60, 58005), (70, 58074), (80, 58140),

Gene: PhriedRice_7 Start: 5180, Stop: 4923, Start Num: 45
Candidate Starts for PhriedRice_7:
(Start: 21 @5240 has 1 MA's), (Start: 45 @5180 has 11 MA's), (67, 5066), (77, 4991), (87, 4946),

Gene: Phrux_91 Start: 56185, Stop: 56445, Start Num: 40
Candidate Starts for Phrux_91:
(Start: 40 @56185 has 128 MA's), (47, 56206), (60, 56281), (70, 56350), (80, 56416),

Gene: Pixie_52 Start: 37451, Stop: 37720, Start Num: 25
Candidate Starts for Pixie_52:
(7, 37211), (Start: 25 @37451 has 9 MA's), (38, 37475), (67, 37595), (74, 37649),

Gene: Policronamos_96 Start: 57640, Stop: 57900, Start Num: 40
Candidate Starts for Policronamos_96:
(Start: 40 @57640 has 128 MA's), (47, 57661), (60, 57736), (70, 57805), (80, 57871),

Gene: Pochiewood_76 Start: 52583, Stop: 52888, Start Num: 30
Candidate Starts for Pochiewood_76:
(Start: 30 @52583 has 37 MA's), (Start: 37 @52598 has 17 MA's), (53, 52658), (67, 52721), (69, 52748), (77, 52802), (97, 52871), (98, 52874),

Gene: Porky_92 Start: 55785, Stop: 56045, Start Num: 40
Candidate Starts for Porky_92:
(Start: 40 @55785 has 128 MA's), (47, 55806), (60, 55881), (70, 55950), (80, 56016),

Gene: Ptowny_90 Start: 55535, Stop: 55795, Start Num: 40
Candidate Starts for Ptowny_90:
(Start: 40 @55535 has 128 MA's), (47, 55556), (60, 55631), (70, 55700), (80, 55766),

Gene: Pumpkin_97 Start: 57561, Stop: 57821, Start Num: 40
Candidate Starts for Pumpkin_97:
(Start: 40 @57561 has 128 MA's), (47, 57582), (60, 57657), (70, 57726), (80, 57792),

Gene: Quallification_94 Start: 57281, Stop: 57541, Start Num: 40
Candidate Starts for Quallification_94:
(Start: 40 @57281 has 128 MA's), (47, 57302), (60, 57377), (70, 57446), (80, 57512),

Gene: Quby_79 Start: 52316, Stop: 52600, Start Num: 31
Candidate Starts for Quby_79:
(Start: 31 @52316 has 3 MA's), (62, 52415), (66, 52427), (69, 52463), (71, 52481), (78, 52520),

Gene: Rakim_94 Start: 56610, Stop: 56870, Start Num: 40
Candidate Starts for Rakim_94:
(Start: 40 @56610 has 128 MA's), (47, 56631), (60, 56706), (70, 56775), (80, 56841),

Gene: Red305_80 Start: 53809, Stop: 54063, Start Num: 37
Candidate Starts for Red305_80:
(Start: 30 @53794 has 37 MA's), (Start: 37 @53809 has 17 MA's), (69, 53944), (76, 53986), (80, 54022), (90, 54046),

Gene: RicoCaldo_7 Start: 5210, Stop: 4953, Start Num: 45
Candidate Starts for RicoCaldo_7:
(Start: 21 @5270 has 1 MA's), (Start: 45 @5210 has 11 MA's), (67, 5096), (77, 5021), (87, 4976),

Gene: Rimmer_91 Start: 56182, Stop: 56442, Start Num: 40
Candidate Starts for Rimmer_91:
(14, 56044), (Start: 40 @56182 has 128 MA's), (47, 56203), (70, 56347), (80, 56413),

Gene: RiverMonster_94 Start: 57081, Stop: 57341, Start Num: 40
Candidate Starts for RiverMonster_94:
(Start: 40 @57081 has 128 MA's), (47, 57102), (60, 57177), (70, 57246), (80, 57312),

Gene: RonRayGun_41 Start: 31892, Stop: 32149, Start Num: 24
Candidate Starts for RonRayGun_41:
(4, 31616), (6, 31637), (Start: 24 @31892 has 7 MA's), (53, 31976), (69, 32066),

Gene: Ronaldo_96 Start: 48347, Stop: 48652, Start Num: 37
Candidate Starts for Ronaldo_96:
(Start: 37 @48347 has 17 MA's), (49, 48380), (84, 48581), (95, 48605),

Gene: Rumpelstiltskin_78 Start: 53546, Stop: 53842, Start Num: 30
Candidate Starts for Rumpelstiltskin_78:
(Start: 30 @53546 has 37 MA's), (53, 53606), (62, 53651), (66, 53663), (69, 53699), (77, 53753), (78, 53756),

Gene: Saints25_92 Start: 56224, Stop: 56484, Start Num: 40

Candidate Starts for Saints25_92:

(Start: 40 @56224 has 128 MA's), (47, 56245), (60, 56320), (70, 56389), (80, 56455),

Gene: Samty_78 Start: 53804, Stop: 54058, Start Num: 37

Candidate Starts for Samty_78:

(Start: 30 @53789 has 37 MA's), (Start: 37 @53804 has 17 MA's), (69, 53939), (76, 53981), (80, 54017), (90, 54041),

Gene: Sassay_88 Start: 54914, Stop: 55174, Start Num: 40

Candidate Starts for Sassay_88:

(Start: 40 @54914 has 128 MA's), (47, 54935), (60, 55010), (70, 55079), (80, 55145),

Gene: Scarlett_55 Start: 38559, Stop: 38834, Start Num: 29

Candidate Starts for Scarlett_55:

(Start: 29 @38559 has 14 MA's), (Start: 32 @38565 has 2 MA's), (49, 38607), (53, 38631), (71, 38739), (94, 38823),

Gene: Shadow1_56 Start: 38290, Stop: 38541, Start Num: 29

Candidate Starts for Shadow1_56:

(Start: 29 @38290 has 14 MA's), (Start: 32 @38296 has 2 MA's), (67, 38428),

Gene: ShamWow_93 Start: 57094, Stop: 57354, Start Num: 40

Candidate Starts for ShamWow_93:

(Start: 40 @57094 has 128 MA's), (47, 57115), (60, 57190), (70, 57259), (80, 57325),

Gene: ShedlockHolmes_54 Start: 37976, Stop: 38245, Start Num: 25

Candidate Starts for ShedlockHolmes_54:

(7, 37736), (Start: 25 @37976 has 9 MA's), (38, 38000), (67, 38120), (74, 38174),

Gene: Sheng711_80 Start: 52619, Stop: 52909, Start Num: 31

Candidate Starts for Sheng711_80:

(Start: 31 @52619 has 3 MA's), (58, 52703), (66, 52730), (69, 52766), (71, 52784), (75, 52796), (78, 52823),

Gene: ShereKhan_91 Start: 57206, Stop: 57466, Start Num: 40

Candidate Starts for ShereKhan_91:

(Start: 40 @57206 has 128 MA's), (47, 57227), (60, 57302), (70, 57371), (80, 57437),

Gene: Silverleaf_78 Start: 51891, Stop: 52181, Start Num: 37

Candidate Starts for Silverleaf_78:

(Start: 30 @51876 has 37 MA's), (Start: 37 @51891 has 17 MA's), (53, 51951), (67, 52014), (69, 52041), (97, 52164), (98, 52167),

Gene: Simpliphy_92 Start: 56214, Stop: 56474, Start Num: 40

Candidate Starts for Simpliphy_92:

(Start: 40 @56214 has 128 MA's), (47, 56235), (60, 56310), (70, 56379), (80, 56445),

Gene: SirDuracell_93 Start: 55587, Stop: 55847, Start Num: 40

Candidate Starts for SirDuracell_93:

(Start: 40 @55587 has 128 MA's), (47, 55608), (60, 55683), (70, 55752), (80, 55818),

Gene: SkinnyPete_42 Start: 29948, Stop: 30178, Start Num: 45
Candidate Starts for SkinnyPete_42:
(18, 29879), (20, 29897), (41, 29933), (Start: 45 @29948 has 11 MA's), (67, 30044), (74, 30095), (79, 30131), (89, 30164), (93, 30170),

Gene: Snenia_78 Start: 53795, Stop: 54064, Start Num: 30
Candidate Starts for Snenia_78:
(Start: 30 @53795 has 37 MA's), (Start: 37 @53810 has 17 MA's), (69, 53945), (76, 53987), (80, 54023), (90, 54047),

Gene: SophKB_90 Start: 55892, Stop: 56152, Start Num: 40
Candidate Starts for SophKB_90:
(Start: 40 @55892 has 128 MA's), (47, 55913), (60, 55988), (70, 56057), (80, 56123),

Gene: Sotrice96_94 Start: 56480, Stop: 56740, Start Num: 40
Candidate Starts for Sotrice96_94:
(Start: 40 @56480 has 128 MA's), (47, 56501), (60, 56576), (70, 56645), (80, 56711),

Gene: StagePhright_7 Start: 5180, Stop: 4923, Start Num: 45
Candidate Starts for StagePhright_7:
(Start: 21 @5240 has 1 MA's), (Start: 45 @5180 has 11 MA's), (67, 5066), (77, 4991), (87, 4946),

Gene: Stank_95 Start: 56873, Stop: 57133, Start Num: 40
Candidate Starts for Stank_95:
(Start: 40 @56873 has 128 MA's), (47, 56894), (60, 56969), (70, 57038), (80, 57104),

Gene: Stark_95 Start: 56964, Stop: 57224, Start Num: 40
Candidate Starts for Stark_95:
(Start: 40 @56964 has 128 MA's), (47, 56985), (60, 57060), (70, 57129), (80, 57195),

Gene: StellaBean_91 Start: 56418, Stop: 56678, Start Num: 40
Candidate Starts for StellaBean_91:
(Start: 40 @56418 has 128 MA's), (47, 56439), (60, 56514), (70, 56583), (80, 56649),

Gene: Stellammi_103 Start: 48442, Stop: 48678, Start Num: 34
Candidate Starts for Stellammi_103:
(34, 48442), (63, 48550), (76, 48631), (77, 48643),

Gene: StolenFromERC_96 Start: 56798, Stop: 57058, Start Num: 40
Candidate Starts for StolenFromERC_96:
(Start: 40 @56798 has 128 MA's), (47, 56819), (60, 56894), (70, 56963), (80, 57029),

Gene: StormChicken_95 Start: 57577, Stop: 57837, Start Num: 40
Candidate Starts for StormChicken_95:
(14, 57439), (Start: 40 @57577 has 128 MA's), (47, 57598), (70, 57742), (80, 57808),

Gene: Sunflower1121_57 Start: 38391, Stop: 38642, Start Num: 29
Candidate Starts for Sunflower1121_57:
(Start: 29 @38391 has 14 MA's), (Start: 32 @38397 has 2 MA's), (67, 38529),

Gene: Syra333_56 Start: 38055, Stop: 38306, Start Num: 29
Candidate Starts for Syra333_56:
(Start: 29 @38055 has 14 MA's), (Start: 32 @38061 has 2 MA's), (65, 38181), (67, 38193),

Gene: TBond007_51 Start: 37450, Stop: 37719, Start Num: 25

Candidate Starts for TBond007_51:

(7, 37210), (Start: 25 @37450 has 9 MA's), (38, 37474), (67, 37594), (74, 37648),

Gene: TBrady12_96 Start: 56634, Stop: 56894, Start Num: 40

Candidate Starts for TBrady12_96:

(Start: 40 @56634 has 128 MA's), (47, 56655), (60, 56730), (70, 56799), (80, 56865),

Gene: Taj_63 Start: 41748, Stop: 41978, Start Num: 42

Candidate Starts for Taj_63:

(Start: 42 @41748 has 1 MA's), (46, 41757), (68, 41871), (69, 41883), (74, 41907), (76, 41919), (88, 41970),

Gene: Tarkin_92 Start: 56882, Stop: 57142, Start Num: 40

Candidate Starts for Tarkin_92:

(Start: 40 @56882 has 128 MA's), (47, 56903), (60, 56978), (70, 57047), (80, 57113),

Gene: TeamEdward_93 Start: 56783, Stop: 57043, Start Num: 40

Candidate Starts for TeamEdward_93:

(14, 56645), (Start: 40 @56783 has 128 MA's), (47, 56804), (70, 56948), (80, 57014),

Gene: TeardropMSU_89 Start: 55882, Stop: 56142, Start Num: 40

Candidate Starts for TeardropMSU_89:

(Start: 40 @55882 has 128 MA's), (47, 55903), (60, 55978), (70, 56047), (80, 56113),

Gene: Teaspoon_94 Start: 56734, Stop: 56994, Start Num: 40

Candidate Starts for Teaspoon_94:

(Start: 40 @56734 has 128 MA's), (47, 56755), (60, 56830), (70, 56899), (80, 56965),

Gene: Terminus_96 Start: 57669, Stop: 57929, Start Num: 40

Candidate Starts for Terminus_96:

(Start: 40 @57669 has 128 MA's), (47, 57690), (60, 57765), (70, 57834), (80, 57900),

Gene: Thimble_95 Start: 56384, Stop: 56644, Start Num: 40

Candidate Starts for Thimble_95:

(Start: 40 @56384 has 128 MA's), (47, 56405), (60, 56480), (70, 56549), (80, 56615),

Gene: ThirteenKH_7 Start: 5168, Stop: 4911, Start Num: 45

Candidate Starts for ThirteenKH_7:

(Start: 21 @5228 has 1 MA's), (Start: 45 @5168 has 11 MA's), (58, 5096), (67, 5054), (77, 4979), (87, 4934),

Gene: Thresher_96 Start: 57744, Stop: 58004, Start Num: 40

Candidate Starts for Thresher_96:

(Start: 40 @57744 has 128 MA's), (47, 57765), (60, 57840), (70, 57909), (80, 57975),

Gene: Tigress9_57 Start: 38145, Stop: 38396, Start Num: 29

Candidate Starts for Tigress9_57:

(Start: 29 @38145 has 14 MA's), (Start: 32 @38151 has 2 MA's), (65, 38271), (67, 38283),

Gene: Tomaszewski_88 Start: 56045, Stop: 56305, Start Num: 40

Candidate Starts for Tomaszewski_88:

(Start: 40 @56045 has 128 MA's), (47, 56066), (60, 56141), (70, 56210), (80, 56276),

Gene: Toto_91 Start: 57094, Stop: 57354, Start Num: 40

Candidate Starts for Toto_91:

(Start: 40 @57094 has 128 MA's), (47, 57115), (60, 57190), (70, 57259), (80, 57325),

Gene: Traaww1_89 Start: 55902, Stop: 56162, Start Num: 40

Candidate Starts for Traaww1_89:

(Start: 40 @55902 has 128 MA's), (47, 55923), (60, 55998), (70, 56067), (80, 56133),

Gene: TriFive_80 Start: 53794, Stop: 54063, Start Num: 30

Candidate Starts for TriFive_80:

(Start: 30 @53794 has 37 MA's), (Start: 37 @53809 has 17 MA's), (69, 53944), (76, 53986), (80, 54022), (90, 54046),

Gene: TribbleTrouble_50 Start: 37335, Stop: 37601, Start Num: 25

Candidate Starts for TribbleTrouble_50:

(Start: 25 @37335 has 9 MA's), (38, 37356), (41, 37362), (67, 37476), (71, 37521), (74, 37530),

Gene: TrippleS_7 Start: 5168, Stop: 4911, Start Num: 45

Candidate Starts for TrippleS_7:

(Start: 21 @5228 has 1 MA's), (Start: 45 @5168 has 11 MA's), (58, 5096), (67, 5054), (77, 4979), (87, 4934),

Gene: Trogglehumper_64 Start: 53677, Stop: 53435, Start Num: 57

Candidate Starts for Trogglehumper_64:

(Start: 57 @53677 has 1 MA's), (64, 53653),

Gene: Tuco_94 Start: 57641, Stop: 57901, Start Num: 40

Candidate Starts for Tuco_94:

(Start: 40 @57641 has 128 MA's), (47, 57662), (60, 57737), (70, 57806), (80, 57872),

Gene: Tyson_79 Start: 52361, Stop: 52651, Start Num: 37

Candidate Starts for Tyson_79:

(Start: 30 @52346 has 37 MA's), (Start: 37 @52361 has 17 MA's), (53, 52421), (67, 52484), (69, 52511), (97, 52634), (98, 52637),

Gene: Ukulele_88 Start: 56027, Stop: 56287, Start Num: 40

Candidate Starts for Ukulele_88:

(Start: 40 @56027 has 128 MA's), (47, 56048), (60, 56123), (70, 56192), (80, 56258),

Gene: Volt_97 Start: 48511, Stop: 48816, Start Num: 37

Candidate Starts for Volt_97:

(Start: 37 @48511 has 17 MA's), (49, 48544), (84, 48745), (95, 48769),

Gene: WST1_43 Start: 28947, Stop: 29189, Start Num: 43

Candidate Starts for WST1_43:

(39, 28932), (43, 28947), (56, 29007), (60, 29025),

Gene: Whirlwind_80 Start: 53994, Stop: 54305, Start Num: 30

Candidate Starts for Whirlwind_80:

(Start: 30 @53994 has 37 MA's), (Start: 37 @54009 has 17 MA's), (66, 54120), (69, 54156), (96, 54285),

Gene: Wiggin_95 Start: 56303, Stop: 56563, Start Num: 40

Candidate Starts for Wiggin_95:

(Start: 40 @56303 has 128 MA's), (47, 56324), (60, 56399), (70, 56468), (80, 56534),

Gene: Wilder_82 Start: 53924, Stop: 54220, Start Num: 30

Candidate Starts for Wilder_82:

(Start: 30 @53924 has 37 MA's), (53, 53984), (62, 54029), (66, 54041), (69, 54077), (77, 54131), (78, 54134),

Gene: Willez_88 Start: 54914, Stop: 55174, Start Num: 40

Candidate Starts for Willez_88:

(Start: 40 @54914 has 128 MA's), (47, 54935), (60, 55010), (70, 55079), (80, 55145),

Gene: Winky_81 Start: 53918, Stop: 54214, Start Num: 30

Candidate Starts for Winky_81:

(Start: 30 @53918 has 37 MA's), (53, 53978), (62, 54023), (66, 54035), (69, 54071), (77, 54125), (78, 54128),

Gene: Wyatt2_79 Start: 52344, Stop: 52649, Start Num: 30

Candidate Starts for Wyatt2_79:

(Start: 30 @52344 has 37 MA's), (Start: 37 @52359 has 17 MA's), (53, 52419), (67, 52482), (69, 52509), (97, 52632), (98, 52635),

Gene: Xandras_92 Start: 56126, Stop: 56386, Start Num: 40

Candidate Starts for Xandras_92:

(Start: 40 @56126 has 128 MA's), (47, 56147), (60, 56222), (70, 56291), (80, 56357),

Gene: Ximenita_57 Start: 38244, Stop: 38495, Start Num: 29

Candidate Starts for Ximenita_57:

(Start: 29 @38244 has 14 MA's), (Start: 32 @38250 has 2 MA's), (67, 38382),

Gene: Yafa_7 Start: 5183, Stop: 4926, Start Num: 45

Candidate Starts for Yafa_7:

(Start: 21 @5243 has 1 MA's), (Start: 45 @5183 has 11 MA's), (58, 5111), (67, 5069), (77, 4994), (87, 4949),

Gene: YassJohnny_90 Start: 55767, Stop: 56027, Start Num: 40

Candidate Starts for YassJohnny_90:

(Start: 40 @55767 has 128 MA's), (47, 55788), (60, 55863), (70, 55932), (80, 55998),

Gene: Youngblood_96 Start: 57596, Stop: 57856, Start Num: 40

Candidate Starts for Youngblood_96:

(Start: 40 @57596 has 128 MA's), (47, 57617), (60, 57692), (70, 57761), (80, 57827),

Gene: Yuna_57 Start: 39151, Stop: 39429, Start Num: 29

Candidate Starts for Yuna_57:

(12, 39004), (Start: 29 @39151 has 14 MA's), (67, 39280), (71, 39325), (74, 39334),

Gene: Zakai_82 Start: 54244, Stop: 54540, Start Num: 30

Candidate Starts for Zakai_82:

(Start: 30 @54244 has 37 MA's), (53, 54304), (62, 54349), (66, 54361), (69, 54397), (77, 54451), (78, 54454),

Gene: Zaria_79 Start: 51796, Stop: 52101, Start Num: 30

Candidate Starts for Zaria_79:

(Start: 30 @51796 has 37 MA's), (Start: 37 @51811 has 17 MA's), (53, 51871), (67, 51934), (69, 51961), (97, 52084), (98, 52087),

Gene: ZenTime222_40 Start: 31446, Stop: 31703, Start Num: 24

Candidate Starts for ZenTime222_40:

(4, 31170), (6, 31191), (Start: 24 @31446 has 7 MA's), (53, 31530), (69, 31620),

Gene: Ziko_96 Start: 48332, Stop: 48637, Start Num: 37

Candidate Starts for Ziko_96:

(Start: 37 @48332 has 17 MA's), (49, 48365), (84, 48566), (95, 48590),

Gene: xkcd_96 Start: 57780, Stop: 58040, Start Num: 40

Candidate Starts for xkcd_96:

(Start: 40 @57780 has 128 MA's), (47, 57801), (60, 57876), (70, 57945), (80, 58011),