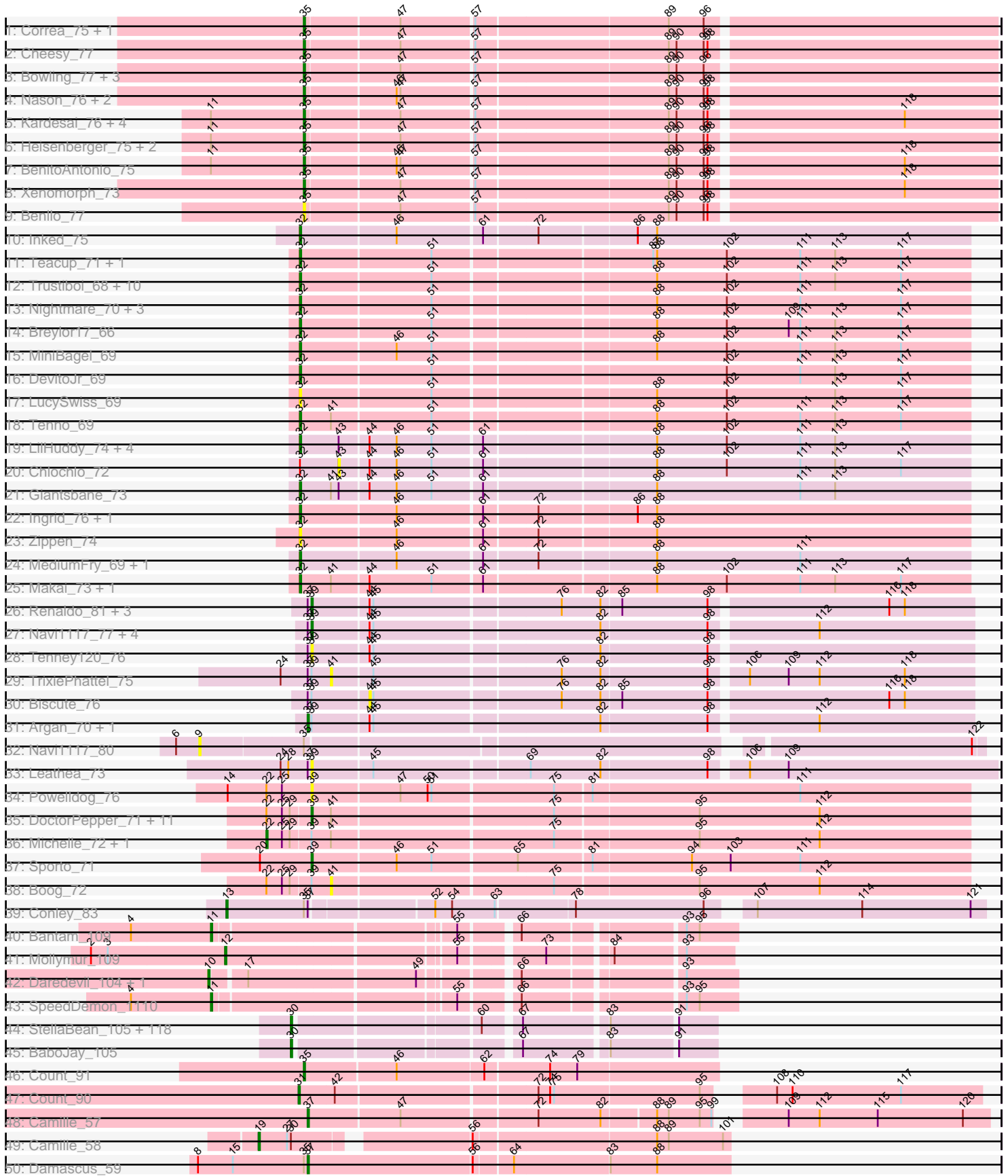
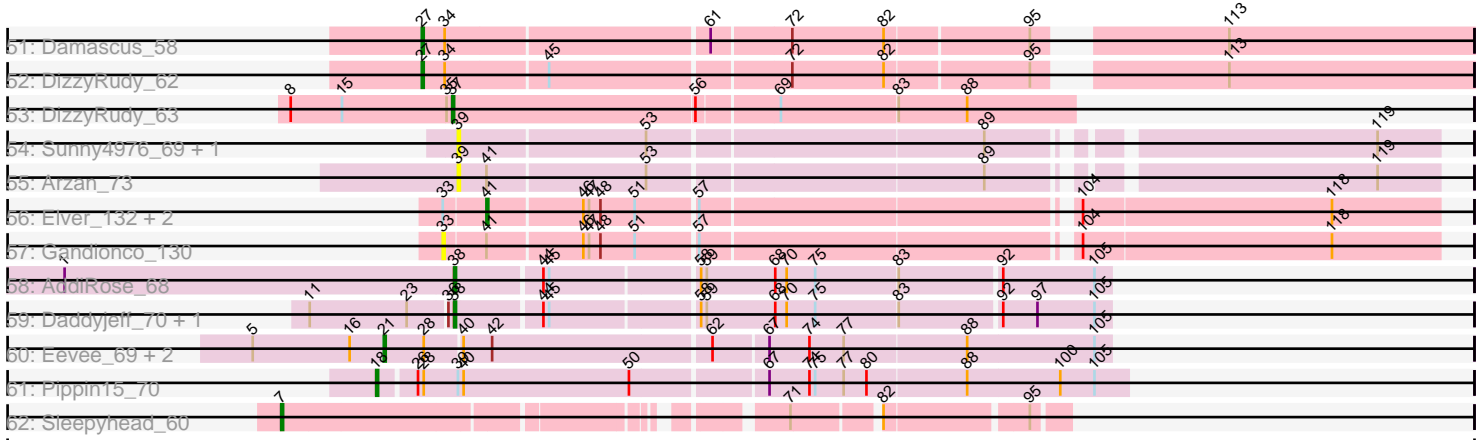


Pham 202651



Pham 202651



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 202651 Report

This analysis was run 01/18/25 on database version 583.

Pham number 202651 has 240 members, 30 are drafts.

Phages represented in each track:

- Track 1 : Correa_75, Tribby_80
- Track 2 : Cheesy_77
- Track 3 : Bowling_77, Dynamite_76, NapoleonB_77, Hankly_76
- Track 4 : Nason_76, Elsa_76, Arcadia_76
- Track 5 : Kardesai_76, Mooshroom_77, Circum_78, KeaneyLin_72, GoCrazy_73
- Track 6 : Heisenberger_75, JEGGS_75, Mudcat_72
- Track 7 : BenitoAntonio_75
- Track 8 : Xenomorph_73
- Track 9 : Benllo_77
- Track 10 : Inked_75
- Track 11 : Teacup_71, Acai_67
- Track 12 : Trustiboi_68, CastorTray_73, Gordon_67, Tatanka_63, Darby_67, ElephantMan_70, Brunswick_71, Niktson_70, ScienceWizSam_71, Issa_68, CapnMurica_67
- Track 13 : Nightmare_70, Nivinsha_72, AreFloNak_73, Synopsis_66
- Track 14 : Breylor17_66
- Track 15 : MiniBagel_69
- Track 16 : DevitoJr_69
- Track 17 : LucySwiss_69
- Track 18 : Tenno_69
- Track 19 : LilHuddy_74, Bouchard_75, Tokki_79, Phaby_75, Shepard_74
- Track 20 : Chlochlo_72
- Track 21 : Giantsbane_73
- Track 22 : Ingrid_76, Loretta_72
- Track 23 : Zippen_74
- Track 24 : MediumFry_69, Caterpillar_69
- Track 25 : Makai_73, Truckee_71
- Track 26 : Renaldo_81, BarbieDoll_77, Lewando_77, Kinny_77
- Track 27 : Navi1117_77, GantcherGoblin_71, Uzumaki_70, Zeina_76, Phaila_75
- Track 28 : Tenney120_76
- Track 29 : TrixiePhattel_75
- Track 30 : Biscute_76
- Track 31 : Argan_70, KevinMinion_72
- Track 32 : Navi1117_80
- Track 33 : Leathea_73
- Track 34 : Powellldog_76

- Track 35 : DoctorPepper_71, Raunak_73, Djungelskog_71, Sloopyjoe_72, StarLord_72, ProfFrink_72, MrAaronian_72, Linda_72, Salk_72, Shiba_71, Egad_72, BronxBay_72
- Track 36 : Michelle_72, Stayer_72
- Track 37 : Sporto_71
- Track 38 : Boog_72
- Track 39 : Conley_83
- Track 40 : Bantam_109
- Track 41 : Mollymur_109
- Track 42 : Daredevil_104, Towmatter_106
- Track 43 : SpeedDemon_1110
- Track 44 : StellaBean_105, Glexan_105, TBrady12_109, Bench_108, JeTaime_104, Lilpickle_105, Nimrod_106, Hopey_106, Paperbeatsrock_105, DrDrey_106, Stark_106, Moldemort_108, Kimchi_110, Emmina_106, Traaww1_102, RiverMonster_105, Contagion_102, FireRed_109, Adnama_110, Cjw1_106, Goku_105, Pat3_103, Misfit_107, Teaspoon_106, Inca_103, Henry_103, Murica_109, Phaja_104, Tuco_107, Cookies_103, Kanye_103, HanKaySha_106, StolenFromERC_108, Bruin_103, Bask21_106, Czyszczo1_106, PhatBacter_109, Buck_107, Elite2014_105, Manda_107, GoldenSpark_110, Phaux_108, ChosenOne_106, Miniwave_101, Harella_106, Command613_108, NelitzaMV_103, Murphy_105, Dumbo_105, Mindy_105, Gage_108, Eureka_105, CrystalP_105, ChotaBhai_106, Tarkin_105, Ukulele_100, Barbarian_105, DoctorDiddles_105, 244_106, Gator_104, Hoonter_109, Easy2Say_106, Nala_108, Wiggin_108, OrionPax_104, TeardropMSU_102, Flypotenuse_102, ABCat_103, Saints25_102, ShamWow_106, Lilac_107, Lilizi_106, Thresher_107, YassJohnny_103, xkcd_109, Sassay_101, Cactus_110, Asriel_104, Sotrice96_107, Gemini_111, Goldilocks_109, SirDuracell_106, Dusk_103, Icee_107, MPhalcon_107, BadStone_103, Youngblood_109, Argent26_110, Terminus_109, Rakim_107, Pharsalus_103, HufflyPuff_108, Highbury_102, Elph10_105, Filch_107, ShereKhan_104, Willez_101, SophKB_104, MISSy_107, Rimmer_104, BigBubba_106, Mosby_102, Stank_108, Myrale_106, Marshmallow_103, MadamMonkfish_105, Phrux_102, Kostya_106, Pumpkin_107, NoSleep_106, GooberAzure_109, Toto_104, Porky_104, Tomaszewski_101, Balomoji_106, Holt_111, Simpliphy_104, Maxxinista_107, IHOP_104
- Track 45 : BaboJay_105
- Track 46 : Count_91
- Track 47 : Count_90
- Track 48 : Camille_57
- Track 49 : Camille_58
- Track 50 : Damascus_59
- Track 51 : Damascus_58
- Track 52 : DizzyRudy_62
- Track 53 : DizzyRudy_63
- Track 54 : Sunny4976_69, Jazzy4900_70
- Track 55 : Arzan_73
- Track 56 : Elver_132, Paella_134, Qui_134
- Track 57 : Gandionco_130
- Track 58 : AddiRose_68
- Track 59 : Daddyjeff_70, Serenabean_69
- Track 60 : Eevee_69, Yotsuba_69, JoyLin_69
- Track 61 : Pippin15_70
- Track 62 : Sleepyhead_60

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

The start number called the most often in the published annotations is 30, it was called in 120 of the 210 non-draft genes in the pham.

Genes that call this "Most Annotated" start:

- 244_106, ABCat_103, Adnama_110, Argent26_110, Asriel_104, BaboJay_105, BadStone_103, Balomoji_106, Barbarian_105, Bask21_106, Bench_108, BigBubba_106, Bruin_103, Buck_107, Cactus_110, ChosenOne_106, ChotaBhai_106, Cjw1_106, Command613_108, Contagion_102, Cookies_103, CrystalP_105, Czystoczon1_106, DoctorDiddles_105, DrDrey_106, Dumbo_105, Dusk_103, Easy2Say_106, Elite2014_105, Elph10_105, Emmina_106, Eureka_105, Filch_107, FireRed_109, Flypotenuse_102, Gage_108, Gator_104, Gemini_111, Glexan_105, Goku_105, GoldenSpark_110, Goldilocks_109, GooberAzure_109, HanKaySha_106, Harella_106, Henry_103, Highbury_102, Holt_111, Hoonter_109, Hopey_106, HufflyPuff_108, IHOP_104, Icee_107, Inca_103, JeTaime_104, Kanye_103, Kimchi_110, Kostya_106, Lilac_107, Lilizi_106, Lilpickle_105, MISSy_107, MPhalcon_107, MadamMonkfish_105, Manda_107, Marshmallow_103, Maxxinista_107, Mindy_105, Miniwave_101, Misfit_107, Moldemort_108, Mosby_102, Murica_109, Murphy_105, Myrale_106, Nala_108, NelitzaMV_103, Nimrod_106, NoSleep_106, OrionPax_104, Paperbeatsrock_105, Pat3_103, Phaja_104, Pharsalus_103, PhatBacter_109, Phaux_108, Phrux_102, Porky_104, Pumpkin_107, Rakim_107, Rimmer_104, RiverMonster_105, Saints25_102, Sassay_101, ShamWow_106, ShereKhan_104, Simpliphy_104, SirDuracell_106, SophKB_104, Sotrice96_107, Stank_108, Stark_106, StellaBean_105, StolenFromERC_108, TBrady12_109, Tarkin_105, TeardropMSU_102, Teaspoon_106, Terminus_109, Thresher_107, Tomaszewski_101, Toto_104, Traaww1_102, Tuco_107, Ukulele_100, Wiggins_108, Willez_101, YassJohnny_103, Youngblood_109, xkcd_109,

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

- Camille_58,

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

- Acai_67, AddiRose_68, Arcadia_76, AreFloNak_73, Argan_70, Arzan_73, Bantam_109, BarbieDoll_77, BenitoAntonio_75, Benllo_77, Biscute_76, Boog_72, Bouchard_75, Bowling_77, Breylor17_66, BronxBay_72, Brunswick_71, Camille_57, CapnMurica_67, CastorTray_73, Caterpillar_69, Cheesy_77, Chlochlo_72, Circum_78, Conley_83, Correa_75, Count_90, Count_91, Daddyjeff_70, Damascus_58, Damascus_59, Darby_67, Daredevil_104, DevitoJr_69, DizzyRudy_62, DizzyRudy_63, Djungelskog_71, DoctorPepper_71, Dynamite_76, Eevee_69, Egad_72, ElephantMan_70, Elsa_76, Elver_132, Gandionco_130, GantcherGoblin_71, Giantsbane_73, GoCrazy_73, Gordon_67, Hankly_76, Heisenberger_75, Ingrid_76, Inked_75, Issa_68, JEGGS_75, Jazzy4900_70, JoyLin_69, Kardesai_76, KeaneyLin_72, KevinMinion_72, Kinny_77, Leathea_73, Lewando_77, LilHuddy_74, Linda_72, Loretta_72, LucySwiss_69, Makai_73, MediumFry_69, Michelle_72, MiniBagel_69, Mollymur_109, Mooshroom_77, MrAaronian_72, Mudcat_72, NapoleonB_77, Nason_76, Navi1117_77, Navi1117_80, Nightmare_70, Niktson_70, Nivinsha_72, Paella_134, Phaby_75, Phaila_75, Pippin15_70, Powelldog_76, ProfFrink_72, Qui_134, Raunak_73, Renaldo_81,

Salk_72, ScienceWizSam_71, Serenabean_69, Shepard_74, Shiba_71, Sleepyhead_60, Sloopyjoe_72, SpeedDemon_1110, Sporto_71, StarLord_72, Stayer_72, Sunny4976_69, Synopsis_66, Tatanka_63, Teacup_71, Tenney120_76, Tenno_69, Tokki_79, Towmatter_106, Tribby_80, TrixiePhattel_75, Truckee_71, Trustiboi_68, Uzumaki_70, Xenomorph_73, Yotsuba_69, Zeina_76, Zippen_74,

Summary by start number:

Start 7:

- Found in 1 of 240 (0.4%) of genes in pham
- Manual Annotations of this start: 1 of 210
- Called 100.0% of time when present
- Phage (with cluster) where this start called: Sleepyhead_60 (singleton),

Start 9:

- Found in 1 of 240 (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: Navi1117_80 (AU6),

Start 10:

- Found in 2 of 240 (0.8%) of genes in pham
- Manual Annotations of this start: 1 of 210
- Called 100.0% of time when present
- Phage (with cluster) where this start called: Daredevil_104 (DL), Towmatter_106 (DL),

Start 11:

- Found in 13 of 240 (5.4%) of genes in pham
- Manual Annotations of this start: 2 of 210
- Called 15.4% of time when present
- Phage (with cluster) where this start called: Bantam_109 (DL), SpeedDemon_1110 (DL),

Start 12:

- Found in 1 of 240 (0.4%) of genes in pham
- Manual Annotations of this start: 1 of 210
- Called 100.0% of time when present
- Phage (with cluster) where this start called: Mollymur_109 (DL),

Start 13:

- Found in 1 of 240 (0.4%) of genes in pham
- Manual Annotations of this start: 1 of 210
- Called 100.0% of time when present
- Phage (with cluster) where this start called: Conley_83 (DJ),

Start 18:

- Found in 1 of 240 (0.4%) of genes in pham
- Manual Annotations of this start: 1 of 210
- Called 100.0% of time when present
- Phage (with cluster) where this start called: Pippin15_70 (JA),

Start 19:

- Found in 1 of 240 (0.4%) of genes in pham
- Manual Annotations of this start: 1 of 210
- Called 100.0% of time when present
- Phage (with cluster) where this start called: Camille_58 (EL),

Start 21:

- Found in 3 of 240 (1.2%) of genes in pham
- Manual Annotations of this start: 3 of 210
- Called 100.0% of time when present
- Phage (with cluster) where this start called: Eevee_69 (JA), JoyLin_69 (JA), Yotsuba_69 (JA),

Start 22:

- Found in 16 of 240 (6.7%) of genes in pham
- Manual Annotations of this start: 2 of 210
- Called 12.5% of time when present
- Phage (with cluster) where this start called: Michelle_72 (AW), Stayer_72 (AW),

Start 27:

- Found in 3 of 240 (1.2%) of genes in pham
- Manual Annotations of this start: 2 of 210
- Called 66.7% of time when present
- Phage (with cluster) where this start called: Damascus_58 (EL), DizzyRudy_62 (EL),

Start 30:

- Found in 121 of 240 (50.4%) of genes in pham
- Manual Annotations of this start: 120 of 210
- Called 99.2% of time when present
- Phage (with cluster) where this start called: 244_106 (E), ABCat_103 (E), Adnama_110 (E), Argent26_110 (E), Asriel_104 (E), BaboJay_105 (E), BadStone_103 (E), Balomoji_106 (E), Barbarian_105 (E), Bask21_106 (E), Bench_108 (E), BigBubba_106 (E), Bruin_103 (E), Buck_107 (E), Cactus_110 (E), ChosenOne_106 (E), ChotaBhai_106 (E), Cjw1_106 (E), Command613_108 (E), Contagion_102 (E), Cookies_103 (E), CrystalP_105 (E), Czyszczonek_106 (E), DoctorDiddles_105 (E), DrDrey_106 (E), Dumbo_105 (E), Dusk_103 (E), Easy2Say_106 (E), Elite2014_105 (E), Elph10_105 (E), Emmina_106 (E), Eureka_105 (E), Filch_107 (E), FireRed_109 (E), Flypotenuse_102 (E), Gage_108 (E), Gator_104 (E), Gemini_111 (E), Glexan_105 (E), Goku_105 (E), GoldenSpark_110 (E), Goldilocks_109 (E), GooberAzure_109 (E), HanKaySha_106 (E), Harella_106 (E), Henry_103 (E), Highbury_102 (E), Holt_111 (E), Hoonter_109 (E), Hopey_106 (E), HufflyPuff_108 (E), IHOP_104 (E), Icee_107 (E), Inca_103 (E), JeTaime_104 (E), Kanye_103 (E), Kimchi_110 (E), Kostya_106 (E), Lilac_107 (E), Lilizi_106 (E), Lilpickle_105 (E), MISSy_107 (E), MPhalcon_107 (E), MadamMonkfish_105 (E), Manda_107 (E), Marshmallow_103 (E), Maxxinista_107 (E), Mindy_105 (E), Miniwave_101 (E), Misfit_107 (E), Moldemort_108 (E), Mosby_102 (E), Murica_109 (E), Murphy_105 (E), Myrale_106 (E), Nala_108 (E), NelitzaMV_103 (E), Nimrod_106 (E), NoSleep_106 (E), OrionPax_104 (E), Paperbeatsrock_105 (E), Pat3_103 (E), Phaja_104 (E), Pharsalus_103 (E), PhatBacter_109 (E), Phaux_108 (E), Phrux_102 (E), Porky_104 (E), Pumpkin_107 (E), Rakim_107 (E), Rimmer_104 (E), RiverMonster_105 (E), Saints25_102 (E), Sassay_101 (E), ShamWow_106 (E), ShereKhan_104 (E), Simpliphy_104 (E), SirDuracell_106 (E), SophKB_104 (E), Sotrice96_107 (E), Stank_108 (E), Stark_106 (E), StellaBean_105 (E), StolenFromERC_108 (E), TBrady12_109 (E), Tarkin_105

(E), TeardropMSU_102 (E), Teaspoon_106 (E), Terminus_109 (E), Thresher_107 (E), Tomaszewski_101 (E), Toto_104 (E), Traaww1_102 (E), Tuco_107 (E), Ukulele_100 (E), Wiggin_108 (E), Willez_101 (E), YassJohnny_103 (E), Youngblood_109 (E), xkcd_109 (E),

Start 31:

- Found in 1 of 240 (0.4%) of genes in pham
- Manual Annotations of this start: 1 of 210
- Called 100.0% of time when present
- Phage (with cluster) where this start called: Count_90 (EL),

Start 32:

- Found in 37 of 240 (15.4%) of genes in pham
- Manual Annotations of this start: 29 of 210
- Called 97.3% of time when present
- Phage (with cluster) where this start called: Acai_67 (AU1), AreFloNak_73 (AU1), Bouchard_75 (AU2), Breylor17_66 (AU1), Brunswick_71 (AU1), CapnMurica_67 (AU1), CastorTray_73 (AU1), Caterpillar_69 (AU4), Darby_67 (AU1), DevitoJr_69 (AU1), ElephantMan_70 (AU1), Giantsbane_73 (AU2), Gordon_67 (AU1), Ingrid_76 (AU3), Inked_75 (AU), Issa_68 (AU1), LilHuddy_74 (AU2), Loretta_72 (AU3), LucySwiss_69 (AU1), Makai_73 (AU5), MediumFry_69 (AU4), MiniBagel_69 (AU1), Nightmare_70 (AU1), Niktson_70 (AU1), Nivinsha_72 (AU1), Phaby_75 (AU2), ScienceWizSam_71 (AU1), Shepard_74 (AU2), Synopsis_66 (AU1), Tatanka_63 (AU1), Teacup_71 (AU1), Tenno_69 (AU1), Tokki_79 (AU2), Truckee_71 (AU5), Trustiboi_68 (AU1), Zippen_74 (AU3),

Start 33:

- Found in 4 of 240 (1.7%) of genes in pham
- No Manual Annotations of this start.
- Called 25.0% of time when present
- Phage (with cluster) where this start called: Gandionco_130 (FK),

Start 35:

- Found in 26 of 240 (10.8%) of genes in pham
- Manual Annotations of this start: 20 of 210
- Called 84.6% of time when present
- Phage (with cluster) where this start called: Arcadia_76 (AM), BenitoAntonio_75 (AM), Benllo_77 (AM), Bowling_77 (AM), Cheesy_77 (AM), Circum_78 (AM), Correa_75 (AM), Count_91 (EL), Dynamite_76 (AM), Elsa_76 (AM), GoCrazy_73 (AM), Hankly_76 (AM), Heisenberger_75 (AM), JEGGS_75 (AM), Kardesai_76 (AM), KeaneyLin_72 (AM), Mooshroom_77 (AM), Mudcat_72 (AM), NapoleonB_77 (AM), Nason_76 (AM), Tribby_80 (AM), Xenomorph_73 (AM),

Start 37:

- Found in 19 of 240 (7.9%) of genes in pham
- Manual Annotations of this start: 4 of 210
- Called 26.3% of time when present
- Phage (with cluster) where this start called: Argan_70 (AU6), Camille_57 (EL), Damascus_59 (EL), DizzyRudy_63 (EL), KevinMinion_72 (AU6),

Start 38:

- Found in 3 of 240 (1.2%) of genes in pham
- Manual Annotations of this start: 3 of 210

- Called 100.0% of time when present
- Phage (with cluster) where this start called: AddiRose_68 (JA), Daddyjeff_70 (JA), Serenabean_69 (JA),

Start 39:

- Found in 36 of 240 (15.0%) of genes in pham
- Manual Annotations of this start: 16 of 210
- Called 77.8% of time when present
- Phage (with cluster) where this start called: Arzan_73 (FI), BarbieDoll_77 (AU6), BronxBay_72 (AW), Djungelskog_71 (AW), DoctorPepper_71 (AW), Egad_72 (AW), GantcherGoblin_71 (AU6), Jazzy4900_70 (FI), Kinny_77 (AU6), Leathea_73 (AU6), Lewando_77 (AU6), Linda_72 (AW), MrAaronian_72 (AW), Navi1117_77 (AU6), Phaila_75 (AU6), Powelldog_76 (AW), ProfFrink_72 (AW), Raunak_73 (AW), Renaldo_81 (AU6), Salk_72 (AW), Shiba_71 (AW), Sloopyjoe_72 (AW), Sporto_71 (AW), StarLord_72 (AW), Sunny4976_69 (FI), Tenney120_76 (AU6), Uzumaki_70 (AU6), Zeina_76 (AU6),

Start 41:

- Found in 25 of 240 (10.4%) of genes in pham
- Manual Annotations of this start: 2 of 210
- Called 20.0% of time when present
- Phage (with cluster) where this start called: Boog_72 (AW), Elver_132 (FK), Paella_134 (FK), Qui_134 (FK), TrixiePhattel_75 (AU6),

Start 43:

- Found in 7 of 240 (2.9%) of genes in pham
- No Manual Annotations of this start.
- Called 14.3% of time when present
- Phage (with cluster) where this start called: Chlochlo_72 (AU2),

Start 44:

- Found in 25 of 240 (10.4%) of genes in pham
- No Manual Annotations of this start.
- Called 4.0% of time when present
- Phage (with cluster) where this start called: Biscute_76 (AU6),

Summary by clusters:

There are 17 clusters represented in this pham: EL, DL, E, AU5, AM, singleton, AU1, AU3, AU2, AU, AU4, AW, AU6, FI, DJ, FK, JA,

Info for manual annotations of cluster AM:

- Start number 35 was manually annotated 19 times for cluster AM.

Info for manual annotations of cluster AU:

- Start number 32 was manually annotated 1 time for cluster AU.

Info for manual annotations of cluster AU1:

- Start number 32 was manually annotated 17 times for cluster AU1.

Info for manual annotations of cluster AU2:

- Start number 32 was manually annotated 5 times for cluster AU2.

Info for manual annotations of cluster AU3:

- Start number 32 was manually annotated 2 times for cluster AU3.

Info for manual annotations of cluster AU4:

- Start number 32 was manually annotated 2 times for cluster AU4.

Info for manual annotations of cluster AU5:

- Start number 32 was manually annotated 2 times for cluster AU5.

Info for manual annotations of cluster AU6:

- Start number 37 was manually annotated 1 time for cluster AU6.
- Start number 39 was manually annotated 4 times for cluster AU6.

Info for manual annotations of cluster AW:

- Start number 22 was manually annotated 2 times for cluster AW.
- Start number 39 was manually annotated 12 times for cluster AW.

Info for manual annotations of cluster DJ:

- Start number 13 was manually annotated 1 time for cluster DJ.

Info for manual annotations of cluster DL:

- Start number 10 was manually annotated 1 time for cluster DL.
- Start number 11 was manually annotated 2 times for cluster DL.
- Start number 12 was manually annotated 1 time for cluster DL.

Info for manual annotations of cluster E:

- Start number 30 was manually annotated 120 times for cluster E.

Info for manual annotations of cluster EL:

- Start number 19 was manually annotated 1 time for cluster EL.
- Start number 27 was manually annotated 2 times for cluster EL.
- Start number 31 was manually annotated 1 time for cluster EL.
- Start number 35 was manually annotated 1 time for cluster EL.
- Start number 37 was manually annotated 3 times for cluster EL.

Info for manual annotations of cluster FK:

- Start number 41 was manually annotated 2 times for cluster FK.

Info for manual annotations of cluster JA:

- Start number 18 was manually annotated 1 time for cluster JA.
- Start number 21 was manually annotated 3 times for cluster JA.
- Start number 38 was manually annotated 3 times for cluster JA.

Gene Information:

Gene: 244_106 Start: 61588, Stop: 61878, Start Num: 30

Candidate Starts for 244_106:

(Start: 30 @61588 has 120 MA's), (60, 61717), (67, 61741), (83, 61801), (91, 61849),

Gene: ABCat_103 Start: 62792, Stop: 63082, Start Num: 30

Candidate Starts for ABCat_103:

(Start: 30 @62792 has 120 MA's), (60, 62921), (67, 62945), (83, 63005), (91, 63053),

Gene: Acai_67 Start: 46762, Stop: 47265, Start Num: 32

Candidate Starts for Acai_67:

(Start: 32 @46762 has 29 MA's), (51, 46861), (87, 47020), (88, 47023), (102, 47077), (111, 47134), (113, 47161), (117, 47212),

Gene: AddiRose_68 Start: 43648, Stop: 43974, Start Num: 38

Candidate Starts for AddiRose_68:

(1, 43444), (Start: 38 @43648 has 3 MA's), (44, 43690), (45, 43693), (58, 43765), (59, 43768), (68, 43804), (70, 43810), (75, 43825), (83, 43867), (92, 43918), (105, 43966),

Gene: Adnama_110 Start: 62081, Stop: 62371, Start Num: 30

Candidate Starts for Adnama_110:

(Start: 30 @62081 has 120 MA's), (60, 62210), (67, 62234), (83, 62294), (91, 62342),

Gene: Arcadia_76 Start: 45700, Stop: 46212, Start Num: 35

Candidate Starts for Arcadia_76:

(Start: 35 @45700 has 20 MA's), (46, 45766), (47, 45769), (57, 45823), (89, 45967), (90, 45973), (96, 45994), (98, 45997),

Gene: AreFloNak_73 Start: 46808, Stop: 47311, Start Num: 32

Candidate Starts for AreFloNak_73:

(Start: 32 @46808 has 29 MA's), (51, 46907), (88, 47069), (102, 47123), (111, 47180), (117, 47258),

Gene: Argan_70 Start: 44513, Stop: 45007, Start Num: 37

Candidate Starts for Argan_70:

(Start: 37 @44513 has 4 MA's), (Start: 39 @44516 has 16 MA's), (44, 44558), (45, 44561), (82, 44729), (98, 44810), (112, 44888),

Gene: Argent26_110 Start: 62005, Stop: 62295, Start Num: 30

Candidate Starts for Argent26_110:

(Start: 30 @62005 has 120 MA's), (60, 62134), (67, 62158), (83, 62218), (91, 62266),

Gene: Arzan_73 Start: 46217, Stop: 46693, Start Num: 39

Candidate Starts for Arzan_73:

(Start: 39 @46217 has 16 MA's), (Start: 41 @46232 has 2 MA's), (53, 46313), (89, 46481), (119, 46661),

Gene: Asriel_104 Start: 60418, Stop: 60708, Start Num: 30

Candidate Starts for Asriel_104:

(Start: 30 @60418 has 120 MA's), (60, 60547), (67, 60571), (83, 60631), (91, 60679),

Gene: BaboJay_105 Start: 62761, Stop: 63051, Start Num: 30

Candidate Starts for BaboJay_105:

(Start: 30 @62761 has 120 MA's), (67, 62914), (83, 62974), (91, 63022),

Gene: BadStone_103 Start: 62340, Stop: 62630, Start Num: 30

Candidate Starts for BadStone_103:

(Start: 30 @62340 has 120 MA's), (60, 62469), (67, 62493), (83, 62553), (91, 62601),

Gene: Balomoji_106 Start: 62201, Stop: 62491, Start Num: 30

Candidate Starts for Balomoji_106:

(Start: 30 @62201 has 120 MA's), (60, 62330), (67, 62354), (83, 62414), (91, 62462),

Gene: Bantam_109 Start: 70339, Stop: 70695, Start Num: 11

Candidate Starts for Bantam_109:

(4, 70279), (Start: 11 @70339 has 2 MA's), (55, 70510), (66, 70546), (93, 70657), (95, 70666),

Gene: Barbarian_105 Start: 60418, Stop: 60708, Start Num: 30

Candidate Starts for Barbarian_105:

(Start: 30 @60418 has 120 MA's), (60, 60547), (67, 60571), (83, 60631), (91, 60679),

Gene: BarbieDoll_77 Start: 46222, Stop: 46713, Start Num: 39

Candidate Starts for BarbieDoll_77:

(Start: 37 @46219 has 4 MA's), (Start: 39 @46222 has 16 MA's), (44, 46264), (45, 46267), (76, 46405), (82, 46435), (85, 46450), (98, 46516), (116, 46648), (118, 46660),

Gene: Bask21_106 Start: 61036, Stop: 61323, Start Num: 30

Candidate Starts for Bask21_106:

(Start: 30 @61036 has 120 MA's), (60, 61165), (67, 61189), (83, 61249), (91, 61297),

Gene: Bench_108 Start: 62762, Stop: 63052, Start Num: 30

Candidate Starts for Bench_108:

(Start: 30 @62762 has 120 MA's), (60, 62891), (67, 62915), (83, 62975), (91, 63023),

Gene: BenitoAntonio_75 Start: 45340, Stop: 45852, Start Num: 35

Candidate Starts for BenitoAntonio_75:

(Start: 11 @45268 has 2 MA's), (Start: 35 @45340 has 20 MA's), (46, 45406), (47, 45409), (57, 45463), (89, 45607), (90, 45613), (96, 45634), (98, 45637), (118, 45781),

Gene: Benllo_77 Start: 46018, Stop: 46530, Start Num: 35

Candidate Starts for Benllo_77:

(Start: 35 @46018 has 20 MA's), (47, 46087), (57, 46141), (89, 46285), (90, 46291), (96, 46312), (98, 46315),

Gene: BigBubba_106 Start: 61114, Stop: 61404, Start Num: 30

Candidate Starts for BigBubba_106:

(Start: 30 @61114 has 120 MA's), (60, 61243), (67, 61267), (83, 61327), (91, 61375),

Gene: Biscute_76 Start: 45916, Stop: 46365, Start Num: 44

Candidate Starts for Biscute_76:

(Start: 37 @45871 has 4 MA's), (Start: 39 @45874 has 16 MA's), (44, 45916), (45, 45919), (76, 46057), (82, 46087), (85, 46102), (98, 46168), (116, 46300), (118, 46312),

Gene: Boog_72 Start: 44948, Stop: 45430, Start Num: 41

Candidate Starts for Boog_72:

(Start: 22 @44900 has 2 MA's), (25, 44912), (29, 44918), (Start: 39 @44933 has 16 MA's), (Start: 41 @44948 has 2 MA's), (75, 45113), (95, 45221), (112, 45314),

Gene: Bouchard_75 Start: 47398, Stop: 47901, Start Num: 32

Candidate Starts for Bouchard_75:

(Start: 32 @47398 has 29 MA's), (43, 47428), (44, 47449), (46, 47470), (51, 47497), (61, 47533), (88, 47659), (102, 47713), (111, 47770), (113, 47797),

Gene: Bowling_77 Start: 46295, Stop: 46807, Start Num: 35
Candidate Starts for Bowling_77:
(Start: 35 @46295 has 20 MA's), (47, 46364), (57, 46418), (89, 46562), (90, 46568), (96, 46589),

Gene: Breylor17_66 Start: 47201, Stop: 47704, Start Num: 32
Candidate Starts for Breylor17_66:
(Start: 32 @47201 has 29 MA's), (51, 47300), (88, 47462), (102, 47516), (109, 47564), (111, 47573),
(113, 47600), (117, 47651),

Gene: BronxBay_72 Start: 45205, Stop: 45702, Start Num: 39
Candidate Starts for BronxBay_72:
(Start: 22 @45172 has 2 MA's), (25, 45184), (29, 45190), (Start: 39 @45205 has 16 MA's), (Start: 41
@45220 has 2 MA's), (75, 45385), (95, 45493), (112, 45586),

Gene: Bruin_103 Start: 61446, Stop: 61736, Start Num: 30
Candidate Starts for Bruin_103:
(Start: 30 @61446 has 120 MA's), (60, 61575), (67, 61599), (83, 61659), (91, 61707),

Gene: Brunswick_71 Start: 46642, Stop: 47145, Start Num: 32
Candidate Starts for Brunswick_71:
(Start: 32 @46642 has 29 MA's), (51, 46741), (88, 46903), (102, 46957), (111, 47014), (113, 47041),
(117, 47092),

Gene: Buck_107 Start: 63262, Stop: 63552, Start Num: 30
Candidate Starts for Buck_107:
(Start: 30 @63262 has 120 MA's), (60, 63391), (67, 63415), (83, 63475), (91, 63523),

Gene: Cactus_110 Start: 61700, Stop: 61990, Start Num: 30
Candidate Starts for Cactus_110:
(Start: 30 @61700 has 120 MA's), (60, 61829), (67, 61853), (83, 61913), (91, 61961),

Gene: Camille_57 Start: 40747, Stop: 41235, Start Num: 37
Candidate Starts for Camille_57:
(Start: 37 @40747 has 4 MA's), (47, 40816), (72, 40915), (82, 40963), (88, 41002), (89, 41011), (95,
41035), (99, 41044), (109, 41080), (112, 41104), (115, 41149), (120, 41215),

Gene: Camille_58 Start: 41232, Stop: 41567, Start Num: 19
Candidate Starts for Camille_58:
(Start: 19 @41232 has 1 MA's), (Start: 27 @41253 has 2 MA's), (Start: 30 @41256 has 120 MA's), (56,
41376), (88, 41511), (89, 41520), (101, 41562),

Gene: CapnMurica_67 Start: 47359, Stop: 47862, Start Num: 32
Candidate Starts for CapnMurica_67:
(Start: 32 @47359 has 29 MA's), (51, 47458), (88, 47620), (102, 47674), (111, 47731), (113, 47758),
(117, 47809),

Gene: CastorTray_73 Start: 47393, Stop: 47896, Start Num: 32
Candidate Starts for CastorTray_73:
(Start: 32 @47393 has 29 MA's), (51, 47492), (88, 47654), (102, 47708), (111, 47765), (113, 47792),
(117, 47843),

Gene: Caterpillar_69 Start: 46228, Stop: 46731, Start Num: 32
Candidate Starts for Caterpillar_69:

(Start: 32 @46228 has 29 MA's), (46, 46300), (61, 46363), (72, 46402), (88, 46489), (111, 46600),

Gene: Cheesy_77 Start: 45492, Stop: 46004, Start Num: 35

Candidate Starts for Cheesy_77:

(Start: 35 @45492 has 20 MA's), (47, 45561), (57, 45615), (89, 45759), (90, 45765), (96, 45786), (98, 45789),

Gene: Chlochlo_72 Start: 46955, Stop: 47428, Start Num: 43

Candidate Starts for Chlochlo_72:

(Start: 32 @46925 has 29 MA's), (43, 46955), (44, 46976), (46, 46997), (51, 47024), (61, 47060), (88, 47186), (102, 47240), (111, 47297), (113, 47324), (117, 47375),

Gene: ChosenOne_106 Start: 61646, Stop: 61936, Start Num: 30

Candidate Starts for ChosenOne_106:

(Start: 30 @61646 has 120 MA's), (60, 61775), (67, 61799), (83, 61859), (91, 61907),

Gene: ChotaBhai_106 Start: 62098, Stop: 62385, Start Num: 30

Candidate Starts for ChotaBhai_106:

(Start: 30 @62098 has 120 MA's), (60, 62227), (67, 62251), (83, 62311), (91, 62359),

Gene: Circum_78 Start: 46108, Stop: 46620, Start Num: 35

Candidate Starts for Circum_78:

(Start: 11 @46036 has 2 MA's), (Start: 35 @46108 has 20 MA's), (47, 46177), (57, 46231), (89, 46375), (90, 46381), (96, 46402), (98, 46405), (118, 46549),

Gene: Cjw1_106 Start: 63455, Stop: 63745, Start Num: 30

Candidate Starts for Cjw1_106:

(Start: 30 @63455 has 120 MA's), (60, 63584), (67, 63608), (83, 63668), (91, 63716),

Gene: Command613_108 Start: 62194, Stop: 62484, Start Num: 30

Candidate Starts for Command613_108:

(Start: 30 @62194 has 120 MA's), (60, 62323), (67, 62347), (83, 62407), (91, 62455),

Gene: Conley_83 Start: 53384, Stop: 53935, Start Num: 13

Candidate Starts for Conley_83:

(Start: 13 @53384 has 1 MA's), (Start: 35 @53444 has 20 MA's), (Start: 37 @53447 has 4 MA's), (52, 53534), (54, 53546), (63, 53579), (78, 53636), (96, 53735), (107, 53759), (114, 53840), (121, 53924),

Gene: Contagion_102 Start: 61808, Stop: 62098, Start Num: 30

Candidate Starts for Contagion_102:

(Start: 30 @61808 has 120 MA's), (60, 61937), (67, 61961), (83, 62021), (91, 62069),

Gene: Cookies_103 Start: 61964, Stop: 62251, Start Num: 30

Candidate Starts for Cookies_103:

(Start: 30 @61964 has 120 MA's), (60, 62093), (67, 62117), (83, 62177), (91, 62225),

Gene: Correa_75 Start: 45066, Stop: 45578, Start Num: 35

Candidate Starts for Correa_75:

(Start: 35 @45066 has 20 MA's), (47, 45135), (57, 45189), (89, 45333), (96, 45360),

Gene: Count_91 Start: 59562, Stop: 59873, Start Num: 35

Candidate Starts for Count_91:

(Start: 35 @59562 has 20 MA's), (46, 59631), (62, 59697), (74, 59745), (79, 59766),

Gene: Count_90 Start: 59071, Stop: 59562, Start Num: 31

Candidate Starts for Count_90:

(Start: 31 @59071 has 1 MA's), (42, 59098), (72, 59245), (74, 59254), (75, 59257), (95, 59368), (108, 59404), (110, 59416), (117, 59500),

Gene: CrystalP_105 Start: 62698, Stop: 62988, Start Num: 30

Candidate Starts for CrystalP_105:

(Start: 30 @62698 has 120 MA's), (60, 62827), (67, 62851), (83, 62911), (91, 62959),

Gene: Czyszczone1_106 Start: 61801, Stop: 62091, Start Num: 30

Candidate Starts for Czyszczone1_106:

(Start: 30 @61801 has 120 MA's), (60, 61930), (67, 61954), (83, 62014), (91, 62062),

Gene: Daddyjeff_70 Start: 44061, Stop: 44387, Start Num: 38

Candidate Starts for Daddyjeff_70:

(Start: 11 @43989 has 2 MA's), (23, 44040), (36, 44058), (Start: 38 @44061 has 3 MA's), (44, 44103), (45, 44106), (58, 44178), (59, 44181), (68, 44217), (70, 44223), (75, 44238), (83, 44280), (92, 44331), (97, 44349), (105, 44379),

Gene: Damascus_59 Start: 42669, Stop: 42986, Start Num: 37

Candidate Starts for Damascus_59:

(8, 42585), (15, 42612), (Start: 35 @42666 has 20 MA's), (Start: 37 @42669 has 4 MA's), (56, 42795), (64, 42822), (83, 42894), (88, 42930),

Gene: Damascus_58 Start: 42170, Stop: 42682, Start Num: 27

Candidate Starts for Damascus_58:

(Start: 27 @42170 has 2 MA's), (34, 42182), (61, 42314), (72, 42353), (82, 42401), (95, 42473), (113, 42554),

Gene: Darby_67 Start: 46386, Stop: 46889, Start Num: 32

Candidate Starts for Darby_67:

(Start: 32 @46386 has 29 MA's), (51, 46485), (88, 46647), (102, 46701), (111, 46758), (113, 46785), (117, 46836),

Gene: Daredevil_104 Start: 67182, Stop: 67538, Start Num: 10

Candidate Starts for Daredevil_104:

(Start: 10 @67182 has 1 MA's), (17, 67206), (49, 67329), (66, 67389), (93, 67500),

Gene: DevitoJr_69 Start: 46771, Stop: 47274, Start Num: 32

Candidate Starts for DevitoJr_69:

(Start: 32 @46771 has 29 MA's), (51, 46870), (102, 47086), (111, 47143), (113, 47170), (117, 47221),

Gene: DizzyRudy_62 Start: 42057, Stop: 42569, Start Num: 27

Candidate Starts for DizzyRudy_62:

(Start: 27 @42057 has 2 MA's), (34, 42069), (45, 42120), (72, 42240), (82, 42288), (95, 42360), (113, 42441),

Gene: DizzyRudy_63 Start: 42556, Stop: 42873, Start Num: 37

Candidate Starts for DizzyRudy_63:

(8, 42472), (15, 42499), (Start: 35 @42553 has 20 MA's), (Start: 37 @42556 has 4 MA's), (56, 42682), (69, 42721), (83, 42781), (88, 42817),

Gene: Djungelskog_71 Start: 45207, Stop: 45704, Start Num: 39
Candidate Starts for Djungelskog_71:
(Start: 22 @45174 has 2 MA's), (25, 45186), (29, 45192), (Start: 39 @45207 has 16 MA's), (Start: 41 @45222 has 2 MA's), (75, 45387), (95, 45495), (112, 45588),

Gene: DoctorDiddles_105 Start: 61466, Stop: 61753, Start Num: 30
Candidate Starts for DoctorDiddles_105:
(Start: 30 @61466 has 120 MA's), (60, 61595), (67, 61619), (83, 61679), (91, 61727),

Gene: DoctorPepper_71 Start: 44909, Stop: 45406, Start Num: 39
Candidate Starts for DoctorPepper_71:
(Start: 22 @44876 has 2 MA's), (25, 44888), (29, 44894), (Start: 39 @44909 has 16 MA's), (Start: 41 @44924 has 2 MA's), (75, 45089), (95, 45197), (112, 45290),

Gene: DrDrey_106 Start: 63478, Stop: 63768, Start Num: 30
Candidate Starts for DrDrey_106:
(Start: 30 @63478 has 120 MA's), (60, 63607), (67, 63631), (83, 63691), (91, 63739),

Gene: Dumbo_105 Start: 61838, Stop: 62128, Start Num: 30
Candidate Starts for Dumbo_105:
(Start: 30 @61838 has 120 MA's), (60, 61967), (67, 61991), (83, 62051), (91, 62099),

Gene: Dusk_103 Start: 62000, Stop: 62290, Start Num: 30
Candidate Starts for Dusk_103:
(Start: 30 @62000 has 120 MA's), (60, 62129), (67, 62153), (83, 62213), (91, 62261),

Gene: Dynamite_76 Start: 45552, Stop: 46064, Start Num: 35
Candidate Starts for Dynamite_76:
(Start: 35 @45552 has 20 MA's), (47, 45621), (57, 45675), (89, 45819), (90, 45825), (96, 45846),

Gene: Easy2Say_106 Start: 62472, Stop: 62762, Start Num: 30
Candidate Starts for Easy2Say_106:
(Start: 30 @62472 has 120 MA's), (60, 62601), (67, 62625), (83, 62685), (91, 62733),

Gene: Eevee_69 Start: 47508, Stop: 47876, Start Num: 21
Candidate Starts for Eevee_69:
(5, 47439), (16, 47490), (Start: 21 @47508 has 3 MA's), (28, 47529), (40, 47547), (42, 47562), (62, 47673), (67, 47700), (74, 47721), (77, 47739), (88, 47802), (105, 47868),

Gene: Egad_72 Start: 45183, Stop: 45680, Start Num: 39
Candidate Starts for Egad_72:
(Start: 22 @45150 has 2 MA's), (25, 45162), (29, 45168), (Start: 39 @45183 has 16 MA's), (Start: 41 @45198 has 2 MA's), (75, 45363), (95, 45471), (112, 45564),

Gene: ElephantMan_70 Start: 47272, Stop: 47775, Start Num: 32
Candidate Starts for ElephantMan_70:
(Start: 32 @47272 has 29 MA's), (51, 47371), (88, 47533), (102, 47587), (111, 47644), (113, 47671), (117, 47722),

Gene: Elite2014_105 Start: 61645, Stop: 61935, Start Num: 30
Candidate Starts for Elite2014_105:
(Start: 30 @61645 has 120 MA's), (60, 61774), (67, 61798), (83, 61858), (91, 61906),

Gene: Elph10_105 Start: 61484, Stop: 61774, Start Num: 30
Candidate Starts for Elph10_105:
(Start: 30 @61484 has 120 MA's), (60, 61613), (67, 61637), (83, 61697), (91, 61745),

Gene: Elsa_76 Start: 45700, Stop: 46212, Start Num: 35
Candidate Starts for Elsa_76:
(Start: 35 @45700 has 20 MA's), (46, 45766), (47, 45769), (57, 45823), (89, 45967), (90, 45973), (96, 45994), (98, 45997),

Gene: Elver_132 Start: 71317, Stop: 71790, Start Num: 41
Candidate Starts for Elver_132:
(33, 71296), (Start: 41 @71317 has 2 MA's), (46, 71365), (47, 71368), (48, 71374), (51, 71392), (57, 71422), (104, 71605), (118, 71734),

Gene: Emmina_106 Start: 61423, Stop: 61713, Start Num: 30
Candidate Starts for Emmina_106:
(Start: 30 @61423 has 120 MA's), (60, 61552), (67, 61576), (83, 61636), (91, 61684),

Gene: Eureka_105 Start: 62611, Stop: 62901, Start Num: 30
Candidate Starts for Eureka_105:
(Start: 30 @62611 has 120 MA's), (60, 62740), (67, 62764), (83, 62824), (91, 62872),

Gene: Filch_107 Start: 61797, Stop: 62087, Start Num: 30
Candidate Starts for Filch_107:
(Start: 30 @61797 has 120 MA's), (60, 61926), (67, 61950), (83, 62010), (91, 62058),

Gene: FireRed_109 Start: 62887, Stop: 63177, Start Num: 30
Candidate Starts for FireRed_109:
(Start: 30 @62887 has 120 MA's), (60, 63016), (67, 63040), (83, 63100), (91, 63148),

Gene: Flypotenuse_102 Start: 61072, Stop: 61362, Start Num: 30
Candidate Starts for Flypotenuse_102:
(Start: 30 @61072 has 120 MA's), (60, 61201), (67, 61225), (83, 61285), (91, 61333),

Gene: Gage_108 Start: 62143, Stop: 62433, Start Num: 30
Candidate Starts for Gage_108:
(Start: 30 @62143 has 120 MA's), (60, 62272), (67, 62296), (83, 62356), (91, 62404),

Gene: Gandionco_130 Start: 70114, Stop: 70608, Start Num: 33
Candidate Starts for Gandionco_130:
(33, 70114), (Start: 41 @70135 has 2 MA's), (46, 70183), (47, 70186), (48, 70192), (51, 70210), (57, 70240), (104, 70423), (118, 70552),

Gene: GantcherGoblin_71 Start: 44575, Stop: 45066, Start Num: 39
Candidate Starts for GantcherGoblin_71:
(Start: 37 @44572 has 4 MA's), (Start: 39 @44575 has 16 MA's), (44, 44617), (45, 44620), (82, 44788), (98, 44869), (112, 44947),

Gene: Gator_104 Start: 61931, Stop: 62218, Start Num: 30
Candidate Starts for Gator_104:
(Start: 30 @61931 has 120 MA's), (60, 62060), (67, 62084), (83, 62144), (91, 62192),

Gene: Gemini_111 Start: 62522, Stop: 62812, Start Num: 30

Candidate Starts for Gemini_111:

(Start: 30 @62522 has 120 MA's), (60, 62651), (67, 62675), (83, 62735), (91, 62783),

Gene: Giantsbane_73 Start: 45925, Stop: 46428, Start Num: 32

Candidate Starts for Giantsbane_73:

(Start: 32 @45925 has 29 MA's), (Start: 41 @45949 has 2 MA's), (43, 45955), (44, 45976), (46, 45997), (51, 46024), (61, 46060), (88, 46186), (111, 46297), (113, 46324),

Gene: Glexan_105 Start: 62202, Stop: 62492, Start Num: 30

Candidate Starts for Glexan_105:

(Start: 30 @62202 has 120 MA's), (60, 62331), (67, 62355), (83, 62415), (91, 62463),

Gene: GoCrazy_73 Start: 44995, Stop: 45507, Start Num: 35

Candidate Starts for GoCrazy_73:

(Start: 11 @44923 has 2 MA's), (Start: 35 @44995 has 20 MA's), (47, 45064), (57, 45118), (89, 45262), (90, 45268), (96, 45289), (98, 45292), (118, 45436),

Gene: Goku_105 Start: 62340, Stop: 62630, Start Num: 30

Candidate Starts for Goku_105:

(Start: 30 @62340 has 120 MA's), (60, 62469), (67, 62493), (83, 62553), (91, 62601),

Gene: GoldenSpark_110 Start: 62005, Stop: 62295, Start Num: 30

Candidate Starts for GoldenSpark_110:

(Start: 30 @62005 has 120 MA's), (60, 62134), (67, 62158), (83, 62218), (91, 62266),

Gene: Goldilocks_109 Start: 61901, Stop: 62191, Start Num: 30

Candidate Starts for Goldilocks_109:

(Start: 30 @61901 has 120 MA's), (60, 62030), (67, 62054), (83, 62114), (91, 62162),

Gene: GooberAzure_109 Start: 62005, Stop: 62295, Start Num: 30

Candidate Starts for GooberAzure_109:

(Start: 30 @62005 has 120 MA's), (60, 62134), (67, 62158), (83, 62218), (91, 62266),

Gene: Gordon_67 Start: 47259, Stop: 47762, Start Num: 32

Candidate Starts for Gordon_67:

(Start: 32 @47259 has 29 MA's), (51, 47358), (88, 47520), (102, 47574), (111, 47631), (113, 47658), (117, 47709),

Gene: HanKaySha_106 Start: 62193, Stop: 62483, Start Num: 30

Candidate Starts for HanKaySha_106:

(Start: 30 @62193 has 120 MA's), (60, 62322), (67, 62346), (83, 62406), (91, 62454),

Gene: Hankly_76 Start: 45190, Stop: 45702, Start Num: 35

Candidate Starts for Hankly_76:

(Start: 35 @45190 has 20 MA's), (47, 45259), (57, 45313), (89, 45457), (90, 45463), (96, 45484),

Gene: Harella_106 Start: 62718, Stop: 63008, Start Num: 30

Candidate Starts for Harella_106:

(Start: 30 @62718 has 120 MA's), (60, 62847), (67, 62871), (83, 62931), (91, 62979),

Gene: Heisenberger_75 Start: 44957, Stop: 45469, Start Num: 35

Candidate Starts for Heisenberger_75:

(Start: 11 @44885 has 2 MA's), (Start: 35 @44957 has 20 MA's), (47, 45026), (57, 45080), (89, 45224), (90, 45230), (96, 45251), (98, 45254),

Gene: Henry_103 Start: 62003, Stop: 62293, Start Num: 30

Candidate Starts for Henry_103:

(Start: 30 @62003 has 120 MA's), (60, 62132), (67, 62156), (83, 62216), (91, 62264),

Gene: Highbury_102 Start: 60350, Stop: 60640, Start Num: 30

Candidate Starts for Highbury_102:

(Start: 30 @60350 has 120 MA's), (60, 60479), (67, 60503), (83, 60563), (91, 60611),

Gene: Holt_111 Start: 62419, Stop: 62709, Start Num: 30

Candidate Starts for Holt_111:

(Start: 30 @62419 has 120 MA's), (60, 62548), (67, 62572), (83, 62632), (91, 62680),

Gene: Hoonter_109 Start: 62498, Stop: 62788, Start Num: 30

Candidate Starts for Hoonter_109:

(Start: 30 @62498 has 120 MA's), (60, 62627), (67, 62651), (83, 62711), (91, 62759),

Gene: Hokey_106 Start: 62804, Stop: 63094, Start Num: 30

Candidate Starts for Hokey_106:

(Start: 30 @62804 has 120 MA's), (60, 62933), (67, 62957), (83, 63017), (91, 63065),

Gene: HufflyPuff_108 Start: 63113, Stop: 63403, Start Num: 30

Candidate Starts for HufflyPuff_108:

(Start: 30 @63113 has 120 MA's), (60, 63242), (67, 63266), (83, 63326), (91, 63374),

Gene: IHOP_104 Start: 61721, Stop: 62011, Start Num: 30

Candidate Starts for IHOP_104:

(Start: 30 @61721 has 120 MA's), (60, 61850), (67, 61874), (83, 61934), (91, 61982),

Gene: Icee_107 Start: 61529, Stop: 61819, Start Num: 30

Candidate Starts for Icee_107:

(Start: 30 @61529 has 120 MA's), (60, 61658), (67, 61682), (83, 61742), (91, 61790),

Gene: Inca_103 Start: 60210, Stop: 60500, Start Num: 30

Candidate Starts for Inca_103:

(Start: 30 @60210 has 120 MA's), (60, 60339), (67, 60363), (83, 60423), (91, 60471),

Gene: Ingrid_76 Start: 47223, Stop: 47726, Start Num: 32

Candidate Starts for Ingrid_76:

(Start: 32 @47223 has 29 MA's), (46, 47295), (61, 47358), (72, 47397), (86, 47469), (88, 47484),

Gene: Inked_75 Start: 47849, Stop: 48352, Start Num: 32

Candidate Starts for Inked_75:

(Start: 32 @47849 has 29 MA's), (46, 47921), (61, 47984), (72, 48023), (86, 48095), (88, 48110),

Gene: Issa_68 Start: 46433, Stop: 46936, Start Num: 32

Candidate Starts for Issa_68:

(Start: 32 @46433 has 29 MA's), (51, 46532), (88, 46694), (102, 46748), (111, 46805), (113, 46832), (117, 46883),

Gene: JEGGS_75 Start: 45036, Stop: 45548, Start Num: 35

Candidate Starts for JEGGS_75:

(Start: 11 @44964 has 2 MA's), (Start: 35 @45036 has 20 MA's), (47, 45105), (57, 45159), (89, 45303), (90, 45309), (96, 45330), (98, 45333),

Gene: Jazzy4900_70 Start: 47081, Stop: 47557, Start Num: 39

Candidate Starts for Jazzy4900_70:

(Start: 39 @47081 has 16 MA's), (53, 47177), (89, 47345), (119, 47525),

Gene: JeTaime_104 Start: 61629, Stop: 61919, Start Num: 30

Candidate Starts for JeTaime_104:

(Start: 30 @61629 has 120 MA's), (60, 61758), (67, 61782), (83, 61842), (91, 61890),

Gene: JoyLin_69 Start: 47628, Stop: 47996, Start Num: 21

Candidate Starts for JoyLin_69:

(5, 47559), (16, 47610), (Start: 21 @47628 has 3 MA's), (28, 47649), (40, 47667), (42, 47682), (62, 47793), (67, 47820), (74, 47841), (77, 47859), (88, 47922), (105, 47988),

Gene: Kanye_103 Start: 62254, Stop: 62544, Start Num: 30

Candidate Starts for Kanye_103:

(Start: 30 @62254 has 120 MA's), (60, 62383), (67, 62407), (83, 62467), (91, 62515),

Gene: Kardesai_76 Start: 45309, Stop: 45821, Start Num: 35

Candidate Starts for Kardesai_76:

(Start: 11 @45237 has 2 MA's), (Start: 35 @45309 has 20 MA's), (47, 45378), (57, 45432), (89, 45576), (90, 45582), (96, 45603), (98, 45606), (118, 45750),

Gene: KeaneyLin_72 Start: 44995, Stop: 45507, Start Num: 35

Candidate Starts for KeaneyLin_72:

(Start: 11 @44923 has 2 MA's), (Start: 35 @44995 has 20 MA's), (47, 45064), (57, 45118), (89, 45262), (90, 45268), (96, 45289), (98, 45292), (118, 45436),

Gene: KevinMinion_72 Start: 45464, Stop: 45958, Start Num: 37

Candidate Starts for KevinMinion_72:

(Start: 37 @45464 has 4 MA's), (Start: 39 @45467 has 16 MA's), (44, 45509), (45, 45512), (82, 45680), (98, 45761), (112, 45839),

Gene: Kimchi_110 Start: 62146, Stop: 62436, Start Num: 30

Candidate Starts for Kimchi_110:

(Start: 30 @62146 has 120 MA's), (60, 62275), (67, 62299), (83, 62359), (91, 62407),

Gene: Kinny_77 Start: 46701, Stop: 47192, Start Num: 39

Candidate Starts for Kinny_77:

(Start: 37 @46698 has 4 MA's), (Start: 39 @46701 has 16 MA's), (44, 46743), (45, 46746), (76, 46884), (82, 46914), (85, 46929), (98, 46995), (116, 47127), (118, 47139),

Gene: Kostya_106 Start: 61823, Stop: 62113, Start Num: 30

Candidate Starts for Kostya_106:

(Start: 30 @61823 has 120 MA's), (60, 61952), (67, 61976), (83, 62036), (91, 62084),

Gene: Leathea_73 Start: 44483, Stop: 44992, Start Num: 39

Candidate Starts for Leathea_73:

(24, 44459), (28, 44465), (Start: 37 @44480 has 4 MA's), (Start: 39 @44483 has 16 MA's), (45, 44528), (69, 44642), (82, 44696), (98, 44777), (106, 44801), (109, 44831),

Gene: Lewando_77 Start: 46439, Stop: 46930, Start Num: 39

Candidate Starts for Lewando_77:

(Start: 37 @46436 has 4 MA's), (Start: 39 @46439 has 16 MA's), (44, 46481), (45, 46484), (76, 46622), (82, 46652), (85, 46667), (98, 46733), (116, 46865), (118, 46877),

Gene: LilHuddy_74 Start: 47051, Stop: 47554, Start Num: 32

Candidate Starts for LilHuddy_74:

(Start: 32 @47051 has 29 MA's), (43, 47081), (44, 47102), (46, 47123), (51, 47150), (61, 47186), (88, 47312), (102, 47366), (111, 47423), (113, 47450),

Gene: Lilac_107 Start: 62947, Stop: 63237, Start Num: 30

Candidate Starts for Lilac_107:

(Start: 30 @62947 has 120 MA's), (60, 63076), (67, 63100), (83, 63160), (91, 63208),

Gene: Lilizi_106 Start: 62233, Stop: 62523, Start Num: 30

Candidate Starts for Lilizi_106:

(Start: 30 @62233 has 120 MA's), (60, 62362), (67, 62386), (83, 62446), (91, 62494),

Gene: Lilpickle_105 Start: 61645, Stop: 61935, Start Num: 30

Candidate Starts for Lilpickle_105:

(Start: 30 @61645 has 120 MA's), (60, 61774), (67, 61798), (83, 61858), (91, 61906),

Gene: Linda_72 Start: 45202, Stop: 45699, Start Num: 39

Candidate Starts for Linda_72:

(Start: 22 @45169 has 2 MA's), (25, 45181), (29, 45187), (Start: 39 @45202 has 16 MA's), (Start: 41 @45217 has 2 MA's), (75, 45382), (95, 45490), (112, 45583),

Gene: Loretta_72 Start: 47223, Stop: 47726, Start Num: 32

Candidate Starts for Loretta_72:

(Start: 32 @47223 has 29 MA's), (46, 47295), (61, 47358), (72, 47397), (86, 47469), (88, 47484),

Gene: LucySwiss_69 Start: 46378, Stop: 46881, Start Num: 32

Candidate Starts for LucySwiss_69:

(Start: 32 @46378 has 29 MA's), (51, 46477), (88, 46639), (102, 46693), (113, 46777), (117, 46828),

Gene: MISSy_107 Start: 62930, Stop: 63220, Start Num: 30

Candidate Starts for MISSy_107:

(Start: 30 @62930 has 120 MA's), (60, 63059), (67, 63083), (83, 63143), (91, 63191),

Gene: MPhalcon_107 Start: 62348, Stop: 62638, Start Num: 30

Candidate Starts for MPhalcon_107:

(Start: 30 @62348 has 120 MA's), (60, 62477), (67, 62501), (83, 62561), (91, 62609),

Gene: MadamMonkfish_105 Start: 61655, Stop: 61945, Start Num: 30

Candidate Starts for MadamMonkfish_105:

(Start: 30 @61655 has 120 MA's), (60, 61784), (67, 61808), (83, 61868), (91, 61916),

Gene: Makai_73 Start: 47336, Stop: 47839, Start Num: 32

Candidate Starts for Makai_73:

(Start: 32 @47336 has 29 MA's), (Start: 41 @47360 has 2 MA's), (44, 47387), (51, 47435), (61, 47471), (88, 47597), (102, 47651), (111, 47708), (113, 47735), (117, 47786),

Gene: Manda_107 Start: 62385, Stop: 62675, Start Num: 30
Candidate Starts for Manda_107:
(Start: 30 @62385 has 120 MA's), (60, 62514), (67, 62538), (83, 62598), (91, 62646),

Gene: Marshmallow_103 Start: 62343, Stop: 62633, Start Num: 30
Candidate Starts for Marshmallow_103:
(Start: 30 @62343 has 120 MA's), (60, 62472), (67, 62496), (83, 62556), (91, 62604),

Gene: Maxxinista_107 Start: 62132, Stop: 62422, Start Num: 30
Candidate Starts for Maxxinista_107:
(Start: 30 @62132 has 120 MA's), (60, 62261), (67, 62285), (83, 62345), (91, 62393),

Gene: MediumFry_69 Start: 46566, Stop: 47069, Start Num: 32
Candidate Starts for MediumFry_69:
(Start: 32 @46566 has 29 MA's), (46, 46638), (61, 46701), (72, 46740), (88, 46827), (111, 46938),

Gene: Michelle_72 Start: 45171, Stop: 45701, Start Num: 22
Candidate Starts for Michelle_72:
(Start: 22 @45171 has 2 MA's), (25, 45183), (29, 45189), (Start: 39 @45204 has 16 MA's), (Start: 41 @45219 has 2 MA's), (75, 45384), (95, 45492), (112, 45585),

Gene: Mindy_105 Start: 61664, Stop: 61954, Start Num: 30
Candidate Starts for Mindy_105:
(Start: 30 @61664 has 120 MA's), (60, 61793), (67, 61817), (83, 61877), (91, 61925),

Gene: MiniBagel_69 Start: 47363, Stop: 47866, Start Num: 32
Candidate Starts for MiniBagel_69:
(Start: 32 @47363 has 29 MA's), (46, 47435), (51, 47462), (88, 47624), (102, 47678), (111, 47735), (113, 47762), (117, 47813),

Gene: Miniwave_101 Start: 61841, Stop: 62131, Start Num: 30
Candidate Starts for Miniwave_101:
(Start: 30 @61841 has 120 MA's), (60, 61970), (67, 61994), (83, 62054), (91, 62102),

Gene: Misfit_107 Start: 63444, Stop: 63734, Start Num: 30
Candidate Starts for Misfit_107:
(Start: 30 @63444 has 120 MA's), (60, 63573), (67, 63597), (83, 63657), (91, 63705),

Gene: Moldemort_108 Start: 62113, Stop: 62403, Start Num: 30
Candidate Starts for Moldemort_108:
(Start: 30 @62113 has 120 MA's), (60, 62242), (67, 62266), (83, 62326), (91, 62374),

Gene: Mollymur_109 Start: 70923, Stop: 71270, Start Num: 12
Candidate Starts for Mollymur_109:
(2, 70821), (3, 70833), (Start: 12 @70923 has 1 MA's), (55, 71088), (73, 71142), (84, 71184), (93, 71235),

Gene: Mooshroom_77 Start: 45309, Stop: 45821, Start Num: 35
Candidate Starts for Mooshroom_77:
(Start: 11 @45237 has 2 MA's), (Start: 35 @45309 has 20 MA's), (47, 45378), (57, 45432), (89, 45576), (90, 45582), (96, 45603), (98, 45606), (118, 45750),

Gene: Mosby_102 Start: 61808, Stop: 62098, Start Num: 30

Candidate Starts for Mosby_102:

(Start: 30 @61808 has 120 MA's), (60, 61937), (67, 61961), (83, 62021), (91, 62069),

Gene: MrAaronian_72 Start: 45204, Stop: 45701, Start Num: 39

Candidate Starts for MrAaronian_72:

(Start: 22 @45171 has 2 MA's), (25, 45183), (29, 45189), (Start: 39 @45204 has 16 MA's), (Start: 41 @45219 has 2 MA's), (75, 45384), (95, 45492), (112, 45585),

Gene: Mudcat_72 Start: 46394, Stop: 46906, Start Num: 35

Candidate Starts for Mudcat_72:

(Start: 11 @46322 has 2 MA's), (Start: 35 @46394 has 20 MA's), (47, 46463), (57, 46517), (89, 46661), (90, 46667), (96, 46688), (98, 46691),

Gene: Murica_109 Start: 64147, Stop: 64437, Start Num: 30

Candidate Starts for Murica_109:

(Start: 30 @64147 has 120 MA's), (60, 64276), (67, 64300), (83, 64360), (91, 64408),

Gene: Murphy_105 Start: 62505, Stop: 62795, Start Num: 30

Candidate Starts for Murphy_105:

(Start: 30 @62505 has 120 MA's), (60, 62634), (67, 62658), (83, 62718), (91, 62766),

Gene: Myrale_106 Start: 62482, Stop: 62772, Start Num: 30

Candidate Starts for Myrale_106:

(Start: 30 @62482 has 120 MA's), (60, 62611), (67, 62635), (83, 62695), (91, 62743),

Gene: Nala_108 Start: 62857, Stop: 63147, Start Num: 30

Candidate Starts for Nala_108:

(Start: 30 @62857 has 120 MA's), (60, 62986), (67, 63010), (83, 63070), (91, 63118),

Gene: NapoleonB_77 Start: 45552, Stop: 46064, Start Num: 35

Candidate Starts for NapoleonB_77:

(Start: 35 @45552 has 20 MA's), (47, 45621), (57, 45675), (89, 45819), (90, 45825), (96, 45846),

Gene: Nason_76 Start: 45700, Stop: 46212, Start Num: 35

Candidate Starts for Nason_76:

(Start: 35 @45700 has 20 MA's), (46, 45766), (47, 45769), (57, 45823), (89, 45967), (90, 45973), (96, 45994), (98, 45997),

Gene: Navi1117_77 Start: 45655, Stop: 46146, Start Num: 39

Candidate Starts for Navi1117_77:

(Start: 37 @45652 has 4 MA's), (Start: 39 @45655 has 16 MA's), (44, 45697), (45, 45700), (82, 45868), (98, 45949), (112, 46027),

Gene: Navi1117_80 Start: 46821, Stop: 47384, Start Num: 9

Candidate Starts for Navi1117_80:

(6, 46803), (9, 46821), (Start: 35 @46899 has 20 MA's), (122, 47376),

Gene: NelitzaMV_103 Start: 60830, Stop: 61120, Start Num: 30

Candidate Starts for NelitzaMV_103:

(Start: 30 @60830 has 120 MA's), (60, 60959), (67, 60983), (83, 61043), (91, 61091),

Gene: Nightmare_70 Start: 47676, Stop: 48179, Start Num: 32

Candidate Starts for Nightmare_70:

(Start: 32 @47676 has 29 MA's), (51, 47775), (88, 47937), (102, 47991), (111, 48048), (117, 48126),

Gene: Niktson_70 Start: 47272, Stop: 47775, Start Num: 32

Candidate Starts for Niktson_70:

(Start: 32 @47272 has 29 MA's), (51, 47371), (88, 47533), (102, 47587), (111, 47644), (113, 47671), (117, 47722),

Gene: Nimrod_106 Start: 62491, Stop: 62781, Start Num: 30

Candidate Starts for Nimrod_106:

(Start: 30 @62491 has 120 MA's), (60, 62620), (67, 62644), (83, 62704), (91, 62752),

Gene: Nivinsha_72 Start: 46808, Stop: 47311, Start Num: 32

Candidate Starts for Nivinsha_72:

(Start: 32 @46808 has 29 MA's), (51, 46907), (88, 47069), (102, 47123), (111, 47180), (117, 47258),

Gene: NoSleep_106 Start: 61665, Stop: 61955, Start Num: 30

Candidate Starts for NoSleep_106:

(Start: 30 @61665 has 120 MA's), (60, 61794), (67, 61818), (83, 61878), (91, 61926),

Gene: OrionPax_104 Start: 61738, Stop: 62028, Start Num: 30

Candidate Starts for OrionPax_104:

(Start: 30 @61738 has 120 MA's), (60, 61867), (67, 61891), (83, 61951), (91, 61999),

Gene: Paella_134 Start: 71880, Stop: 72353, Start Num: 41

Candidate Starts for Paella_134:

(33, 71859), (Start: 41 @71880 has 2 MA's), (46, 71928), (47, 71931), (48, 71937), (51, 71955), (57, 71985), (104, 72168), (118, 72297),

Gene: Paperbeatsrock_105 Start: 62519, Stop: 62809, Start Num: 30

Candidate Starts for Paperbeatsrock_105:

(Start: 30 @62519 has 120 MA's), (60, 62648), (67, 62672), (83, 62732), (91, 62780),

Gene: Pat3_103 Start: 61036, Stop: 61323, Start Num: 30

Candidate Starts for Pat3_103:

(Start: 30 @61036 has 120 MA's), (60, 61165), (67, 61189), (83, 61249), (91, 61297),

Gene: Phaby_75 Start: 47582, Stop: 48085, Start Num: 32

Candidate Starts for Phaby_75:

(Start: 32 @47582 has 29 MA's), (43, 47612), (44, 47633), (46, 47654), (51, 47681), (61, 47717), (88, 47843), (102, 47897), (111, 47954), (113, 47981),

Gene: Phaila_75 Start: 44697, Stop: 45188, Start Num: 39

Candidate Starts for Phaila_75:

(Start: 37 @44694 has 4 MA's), (Start: 39 @44697 has 16 MA's), (44, 44739), (45, 44742), (82, 44910), (98, 44991), (112, 45069),

Gene: Phaja_104 Start: 61723, Stop: 62013, Start Num: 30

Candidate Starts for Phaja_104:

(Start: 30 @61723 has 120 MA's), (60, 61852), (67, 61876), (83, 61936), (91, 61984),

Gene: Pharsalus_103 Start: 62218, Stop: 62508, Start Num: 30

Candidate Starts for Pharsalus_103:

(Start: 30 @62218 has 120 MA's), (60, 62347), (67, 62371), (83, 62431), (91, 62479),

Gene: PhatBacter_109 Start: 62887, Stop: 63177, Start Num: 30
Candidate Starts for PhatBacter_109:
(Start: 30 @62887 has 120 MA's), (60, 63016), (67, 63040), (83, 63100), (91, 63148),

Gene: Phaux_108 Start: 63447, Stop: 63737, Start Num: 30
Candidate Starts for Phaux_108:
(Start: 30 @63447 has 120 MA's), (60, 63576), (67, 63600), (83, 63660), (91, 63708),

Gene: Phrux_102 Start: 61525, Stop: 61815, Start Num: 30
Candidate Starts for Phrux_102:
(Start: 30 @61525 has 120 MA's), (60, 61654), (67, 61678), (83, 61738), (91, 61786),

Gene: Pippin15_70 Start: 44587, Stop: 44967, Start Num: 18
Candidate Starts for Pippin15_70:
(Start: 18 @44587 has 1 MA's), (26, 44605), (28, 44608), (Start: 39 @44626 has 16 MA's), (40, 44629),
(50, 44716), (67, 44782), (74, 44803), (75, 44806), (77, 44821), (80, 44833), (88, 44884), (100, 44932),
(105, 44950),

Gene: Porky_104 Start: 61269, Stop: 61559, Start Num: 30
Candidate Starts for Porky_104:
(Start: 30 @61269 has 120 MA's), (60, 61398), (67, 61422), (83, 61482), (91, 61530),

Gene: Powelldog_76 Start: 45923, Stop: 46420, Start Num: 39
Candidate Starts for Powelldog_76:
(14, 45860), (Start: 22 @45890 has 2 MA's), (25, 45902), (Start: 39 @45923 has 16 MA's), (47, 45989),
(50, 46010), (51, 46013), (75, 46103), (81, 46130), (111, 46289),

Gene: ProfFrink_72 Start: 45182, Stop: 45679, Start Num: 39
Candidate Starts for ProfFrink_72:
(Start: 22 @45149 has 2 MA's), (25, 45161), (29, 45167), (Start: 39 @45182 has 16 MA's), (Start: 41
@45197 has 2 MA's), (75, 45362), (95, 45470), (112, 45563),

Gene: Pumpkin_107 Start: 61865, Stop: 62155, Start Num: 30
Candidate Starts for Pumpkin_107:
(Start: 30 @61865 has 120 MA's), (60, 61994), (67, 62018), (83, 62078), (91, 62126),

Gene: Qui_134 Start: 71880, Stop: 72353, Start Num: 41
Candidate Starts for Qui_134:
(33, 71859), (Start: 41 @71880 has 2 MA's), (46, 71928), (47, 71931), (48, 71937), (51, 71955), (57,
71985), (104, 72168), (118, 72297),

Gene: Rakim_107 Start: 61934, Stop: 62221, Start Num: 30
Candidate Starts for Rakim_107:
(Start: 30 @61934 has 120 MA's), (60, 62063), (67, 62087), (83, 62147), (91, 62195),

Gene: Raunak_73 Start: 44844, Stop: 45341, Start Num: 39
Candidate Starts for Raunak_73:
(Start: 22 @44811 has 2 MA's), (25, 44823), (29, 44829), (Start: 39 @44844 has 16 MA's), (Start: 41
@44859 has 2 MA's), (75, 45024), (95, 45132), (112, 45225),

Gene: Renaldo_81 Start: 46660, Stop: 47151, Start Num: 39
Candidate Starts for Renaldo_81:

(Start: 37 @46657 has 4 MA's), (Start: 39 @46660 has 16 MA's), (44, 46702), (45, 46705), (76, 46843), (82, 46873), (85, 46888), (98, 46954), (116, 47086), (118, 47098),

Gene: Rimmer_104 Start: 62324, Stop: 62614, Start Num: 30

Candidate Starts for Rimmer_104:

(Start: 30 @62324 has 120 MA's), (60, 62453), (67, 62477), (83, 62537), (91, 62585),

Gene: RiverMonster_105 Start: 62420, Stop: 62710, Start Num: 30

Candidate Starts for RiverMonster_105:

(Start: 30 @62420 has 120 MA's), (60, 62549), (67, 62573), (83, 62633), (91, 62681),

Gene: Saints25_102 Start: 60350, Stop: 60640, Start Num: 30

Candidate Starts for Saints25_102:

(Start: 30 @60350 has 120 MA's), (60, 60479), (67, 60503), (83, 60563), (91, 60611),

Gene: Salk_72 Start: 45202, Stop: 45699, Start Num: 39

Candidate Starts for Salk_72:

(Start: 22 @45169 has 2 MA's), (25, 45181), (29, 45187), (Start: 39 @45202 has 16 MA's), (Start: 41 @45217 has 2 MA's), (75, 45382), (95, 45490), (112, 45583),

Gene: Sassay_101 Start: 60770, Stop: 61060, Start Num: 30

Candidate Starts for Sassay_101:

(Start: 30 @60770 has 120 MA's), (60, 60899), (67, 60923), (83, 60983), (91, 61031),

Gene: ScienceWizSam_71 Start: 46973, Stop: 47476, Start Num: 32

Candidate Starts for ScienceWizSam_71:

(Start: 32 @46973 has 29 MA's), (51, 47072), (88, 47234), (102, 47288), (111, 47345), (113, 47372), (117, 47423),

Gene: Serenabean_69 Start: 43953, Stop: 44279, Start Num: 38

Candidate Starts for Serenabean_69:

(Start: 11 @43881 has 2 MA's), (23, 43932), (36, 43950), (Start: 38 @43953 has 3 MA's), (44, 43995), (45, 43998), (58, 44070), (59, 44073), (68, 44109), (70, 44115), (75, 44130), (83, 44172), (92, 44223), (97, 44241), (105, 44271),

Gene: ShamWow_106 Start: 62698, Stop: 62988, Start Num: 30

Candidate Starts for ShamWow_106:

(Start: 30 @62698 has 120 MA's), (60, 62827), (67, 62851), (83, 62911), (91, 62959),

Gene: Shepard_74 Start: 46904, Stop: 47407, Start Num: 32

Candidate Starts for Shepard_74:

(Start: 32 @46904 has 29 MA's), (43, 46934), (44, 46955), (46, 46976), (51, 47003), (61, 47039), (88, 47165), (102, 47219), (111, 47276), (113, 47303),

Gene: ShereKhan_104 Start: 63179, Stop: 63469, Start Num: 30

Candidate Starts for ShereKhan_104:

(Start: 30 @63179 has 120 MA's), (60, 63308), (67, 63332), (83, 63392), (91, 63440),

Gene: Shiba_71 Start: 44860, Stop: 45357, Start Num: 39

Candidate Starts for Shiba_71:

(Start: 22 @44827 has 2 MA's), (25, 44839), (29, 44845), (Start: 39 @44860 has 16 MA's), (Start: 41 @44875 has 2 MA's), (75, 45040), (95, 45148), (112, 45241),

Gene: Simpliphy_104 Start: 61991, Stop: 62281, Start Num: 30
Candidate Starts for Simpliphy_104:
(Start: 30 @61991 has 120 MA's), (60, 62120), (67, 62144), (83, 62204), (91, 62252),

Gene: SirDuracell_106 Start: 61536, Stop: 61823, Start Num: 30
Candidate Starts for SirDuracell_106:
(Start: 30 @61536 has 120 MA's), (60, 61665), (67, 61689), (83, 61749), (91, 61797),

Gene: Sleepyhead_60 Start: 39674, Stop: 40021, Start Num: 7
Candidate Starts for Sleepyhead_60:
(Start: 7 @39674 has 1 MA's), (71, 39896), (82, 39935), (95, 40004),

Gene: Sloopyjoe_72 Start: 45206, Stop: 45703, Start Num: 39
Candidate Starts for Sloopyjoe_72:
(Start: 22 @45173 has 2 MA's), (25, 45185), (29, 45191), (Start: 39 @45206 has 16 MA's), (Start: 41 @45221 has 2 MA's), (75, 45386), (95, 45494), (112, 45587),

Gene: SophKB_104 Start: 61980, Stop: 62270, Start Num: 30
Candidate Starts for SophKB_104:
(Start: 30 @61980 has 120 MA's), (60, 62109), (67, 62133), (83, 62193), (91, 62241),

Gene: Sotrice96_107 Start: 62444, Stop: 62734, Start Num: 30
Candidate Starts for Sotrice96_107:
(Start: 30 @62444 has 120 MA's), (60, 62573), (67, 62597), (83, 62657), (91, 62705),

Gene: SpeedDemon_1110 Start: 72859, Stop: 73215, Start Num: 11
Candidate Starts for SpeedDemon_1110:
(4, 72799), (Start: 11 @72859 has 2 MA's), (55, 73030), (66, 73066), (93, 73177), (95, 73186),

Gene: Sporto_71 Start: 46287, Stop: 46784, Start Num: 39
Candidate Starts for Sporto_71:
(20, 46248), (Start: 39 @46287 has 16 MA's), (46, 46350), (51, 46377), (65, 46440), (81, 46494), (94, 46569), (103, 46599), (111, 46653),

Gene: Stank_108 Start: 62218, Stop: 62508, Start Num: 30
Candidate Starts for Stank_108:
(Start: 30 @62218 has 120 MA's), (60, 62347), (67, 62371), (83, 62431), (91, 62479),

Gene: StarLord_72 Start: 45199, Stop: 45696, Start Num: 39
Candidate Starts for StarLord_72:
(Start: 22 @45166 has 2 MA's), (25, 45178), (29, 45184), (Start: 39 @45199 has 16 MA's), (Start: 41 @45214 has 2 MA's), (75, 45379), (95, 45487), (112, 45580),

Gene: Stark_106 Start: 62304, Stop: 62594, Start Num: 30
Candidate Starts for Stark_106:
(Start: 30 @62304 has 120 MA's), (60, 62433), (67, 62457), (83, 62517), (91, 62565),

Gene: Stayer_72 Start: 45169, Stop: 45699, Start Num: 22
Candidate Starts for Stayer_72:
(Start: 22 @45169 has 2 MA's), (25, 45181), (29, 45187), (Start: 39 @45202 has 16 MA's), (Start: 41 @45217 has 2 MA's), (75, 45382), (95, 45490), (112, 45583),

Gene: StellaBean_105 Start: 62601, Stop: 62891, Start Num: 30

Candidate Starts for StellaBean_105:
(Start: 30 @62601 has 120 MA's), (60, 62730), (67, 62754), (83, 62814), (91, 62862),

Gene: StolenFromERC_108 Start: 62143, Stop: 62433, Start Num: 30
Candidate Starts for StolenFromERC_108:
(Start: 30 @62143 has 120 MA's), (60, 62272), (67, 62296), (83, 62356), (91, 62404),

Gene: Sunny4976_69 Start: 47081, Stop: 47557, Start Num: 39
Candidate Starts for Sunny4976_69:
(Start: 39 @47081 has 16 MA's), (53, 47177), (89, 47345), (119, 47525),

Gene: Synopsis_66 Start: 46738, Stop: 47241, Start Num: 32
Candidate Starts for Synopsis_66:
(Start: 32 @46738 has 29 MA's), (51, 46837), (88, 46999), (102, 47053), (111, 47110), (117, 47188),

Gene: TBrady12_109 Start: 61655, Stop: 61945, Start Num: 30
Candidate Starts for TBrady12_109:
(Start: 30 @61655 has 120 MA's), (60, 61784), (67, 61808), (83, 61868), (91, 61916),

Gene: Tarkin_105 Start: 63044, Stop: 63334, Start Num: 30
Candidate Starts for Tarkin_105:
(Start: 30 @63044 has 120 MA's), (60, 63173), (67, 63197), (83, 63257), (91, 63305),

Gene: Tatanka_63 Start: 46880, Stop: 47383, Start Num: 32
Candidate Starts for Tatanka_63:
(Start: 32 @46880 has 29 MA's), (51, 46979), (88, 47141), (102, 47195), (111, 47252), (113, 47279),
(117, 47330),

Gene: Teacup_71 Start: 47312, Stop: 47815, Start Num: 32
Candidate Starts for Teacup_71:
(Start: 32 @47312 has 29 MA's), (51, 47411), (87, 47570), (88, 47573), (102, 47627), (111, 47684),
(113, 47711), (117, 47762),

Gene: TeardropMSU_102 Start: 61546, Stop: 61836, Start Num: 30
Candidate Starts for TeardropMSU_102:
(Start: 30 @61546 has 120 MA's), (60, 61675), (67, 61699), (83, 61759), (91, 61807),

Gene: Teaspoon_106 Start: 62203, Stop: 62493, Start Num: 30
Candidate Starts for Teaspoon_106:
(Start: 30 @62203 has 120 MA's), (60, 62332), (67, 62356), (83, 62416), (91, 62464),

Gene: Tenney120_76 Start: 45235, Stop: 45726, Start Num: 39
Candidate Starts for Tenney120_76:
(Start: 37 @45232 has 4 MA's), (Start: 39 @45235 has 16 MA's), (44, 45277), (45, 45280), (82, 45448),
(98, 45529),

Gene: Tenno_69 Start: 47396, Stop: 47899, Start Num: 32
Candidate Starts for Tenno_69:
(Start: 32 @47396 has 29 MA's), (Start: 41 @47420 has 2 MA's), (51, 47495), (88, 47657), (102,
47711), (111, 47768), (113, 47795), (117, 47846),

Gene: Terminus_109 Start: 63444, Stop: 63734, Start Num: 30
Candidate Starts for Terminus_109:

(Start: 30 @63444 has 120 MA's), (60, 63573), (67, 63597), (83, 63657), (91, 63705),

Gene: Thresher_107 Start: 63084, Stop: 63374, Start Num: 30

Candidate Starts for Thresher_107:

(Start: 30 @63084 has 120 MA's), (60, 63213), (67, 63237), (83, 63297), (91, 63345),

Gene: Tokki_79 Start: 47450, Stop: 47953, Start Num: 32

Candidate Starts for Tokki_79:

(Start: 32 @47450 has 29 MA's), (43, 47480), (44, 47501), (46, 47522), (51, 47549), (61, 47585), (88, 47711), (102, 47765), (111, 47822), (113, 47849),

Gene: Tomaszewski_101 Start: 61982, Stop: 62272, Start Num: 30

Candidate Starts for Tomaszewski_101:

(Start: 30 @61982 has 120 MA's), (60, 62111), (67, 62135), (83, 62195), (91, 62243),

Gene: Toto_104 Start: 62698, Stop: 62988, Start Num: 30

Candidate Starts for Toto_104:

(Start: 30 @62698 has 120 MA's), (60, 62827), (67, 62851), (83, 62911), (91, 62959),

Gene: Towmatter_106 Start: 67264, Stop: 67620, Start Num: 10

Candidate Starts for Towmatter_106:

(Start: 10 @67264 has 1 MA's), (17, 67288), (49, 67411), (66, 67471), (93, 67582),

Gene: Traaww1_102 Start: 61247, Stop: 61537, Start Num: 30

Candidate Starts for Traaww1_102:

(Start: 30 @61247 has 120 MA's), (60, 61376), (67, 61400), (83, 61460), (91, 61508),

Gene: Tribby_80 Start: 46452, Stop: 46964, Start Num: 35

Candidate Starts for Tribby_80:

(Start: 35 @46452 has 20 MA's), (47, 46521), (57, 46575), (89, 46719), (96, 46746),

Gene: TrixiePhattel_75 Start: 44885, Stop: 45361, Start Num: 41

Candidate Starts for TrixiePhattel_75:

(24, 44846), (Start: 37 @44867 has 4 MA's), (Start: 39 @44870 has 16 MA's), (Start: 41 @44885 has 2 MA's), (45, 44915), (76, 45053), (82, 45083), (98, 45164), (106, 45188), (109, 45218), (112, 45242), (118, 45308),

Gene: Truckee_71 Start: 47121, Stop: 47624, Start Num: 32

Candidate Starts for Truckee_71:

(Start: 32 @47121 has 29 MA's), (Start: 41 @47145 has 2 MA's), (44, 47172), (51, 47220), (61, 47256), (88, 47382), (102, 47436), (111, 47493), (113, 47520), (117, 47571),

Gene: Trustiboi_68 Start: 46995, Stop: 47498, Start Num: 32

Candidate Starts for Trustiboi_68:

(Start: 32 @46995 has 29 MA's), (51, 47094), (88, 47256), (102, 47310), (111, 47367), (113, 47394), (117, 47445),

Gene: Tuco_107 Start: 63605, Stop: 63895, Start Num: 30

Candidate Starts for Tuco_107:

(Start: 30 @63605 has 120 MA's), (60, 63734), (67, 63758), (83, 63818), (91, 63866),

Gene: Ukulele_100 Start: 61803, Stop: 62093, Start Num: 30

Candidate Starts for Ukulele_100:

(Start: 30 @61803 has 120 MA's), (60, 61932), (67, 61956), (83, 62016), (91, 62064),

Gene: Uzumaki_70 Start: 44675, Stop: 45166, Start Num: 39

Candidate Starts for Uzumaki_70:

(Start: 37 @44672 has 4 MA's), (Start: 39 @44675 has 16 MA's), (44, 44717), (45, 44720), (82, 44888), (98, 44969), (112, 45047),

Gene: Wiggin_108 Start: 61648, Stop: 61938, Start Num: 30

Candidate Starts for Wiggin_108:

(Start: 30 @61648 has 120 MA's), (60, 61777), (67, 61801), (83, 61861), (91, 61909),

Gene: Willez_101 Start: 60770, Stop: 61060, Start Num: 30

Candidate Starts for Willez_101:

(Start: 30 @60770 has 120 MA's), (60, 60899), (67, 60923), (83, 60983), (91, 61031),

Gene: Xenomorph_73 Start: 45979, Stop: 46491, Start Num: 35

Candidate Starts for Xenomorph_73:

(Start: 35 @45979 has 20 MA's), (47, 46048), (57, 46102), (89, 46246), (90, 46252), (96, 46273), (98, 46276), (118, 46420),

Gene: YassJohnny_103 Start: 60791, Stop: 61081, Start Num: 30

Candidate Starts for YassJohnny_103:

(Start: 30 @60791 has 120 MA's), (60, 60920), (67, 60944), (83, 61004), (91, 61052),

Gene: Yotsuba_69 Start: 47646, Stop: 48014, Start Num: 21

Candidate Starts for Yotsuba_69:

(5, 47577), (16, 47628), (Start: 21 @47646 has 3 MA's), (28, 47667), (40, 47685), (42, 47700), (62, 47811), (67, 47838), (74, 47859), (77, 47877), (88, 47940), (105, 48006),

Gene: Youngblood_109 Start: 62940, Stop: 63230, Start Num: 30

Candidate Starts for Youngblood_109:

(Start: 30 @62940 has 120 MA's), (60, 63069), (67, 63093), (83, 63153), (91, 63201),

Gene: Zeina_76 Start: 45531, Stop: 46022, Start Num: 39

Candidate Starts for Zeina_76:

(Start: 37 @45528 has 4 MA's), (Start: 39 @45531 has 16 MA's), (44, 45573), (45, 45576), (82, 45744), (98, 45825), (112, 45903),

Gene: Zippen_74 Start: 47714, Stop: 48217, Start Num: 32

Candidate Starts for Zippen_74:

(Start: 32 @47714 has 29 MA's), (46, 47786), (61, 47849), (72, 47888), (88, 47975),

Gene: xkcd_109 Start: 63125, Stop: 63415, Start Num: 30

Candidate Starts for xkcd_109:

(Start: 30 @63125 has 120 MA's), (60, 63254), (67, 63278), (83, 63338), (91, 63386),