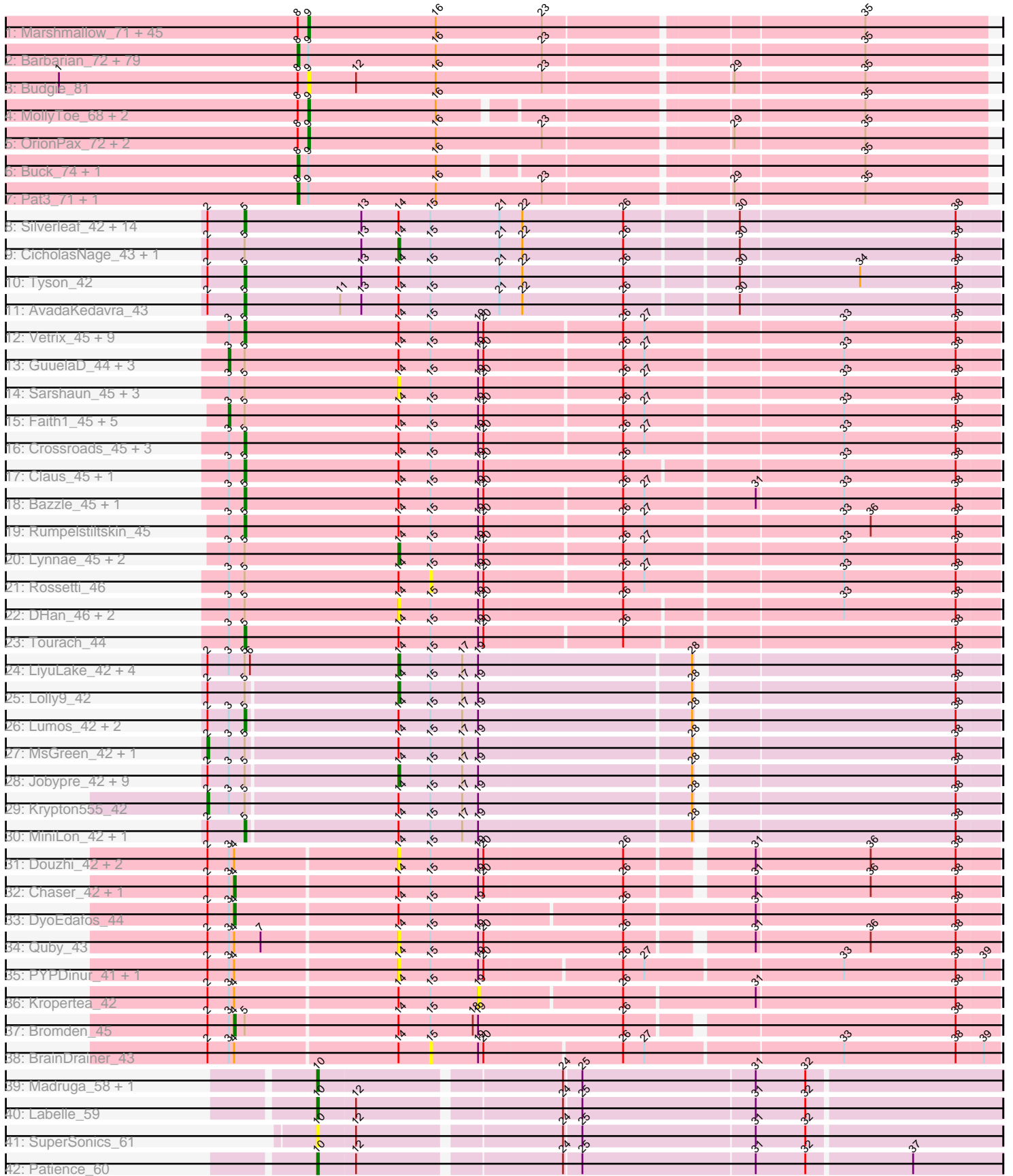


Pham 296222



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 296222 Report

This analysis was run 04/25/26 on database version 644.

Pham number 296222 has 238 members, 40 are drafts.

Phages represented in each track:

- Track 1 : Marshmallow_71, PaddyBaddy_73, Dumbo_73, Daikon_75, FoghornLeghorn_67, Bogg_73, Easy2Say_74, Teaspoon_74, Porky_72, Kostya_73, Pumpkin_76, Amao_73, Nala_75, Eureka_71, Sassay_68, Murica_76, GoldenSpark_77, Nimrod_74, Greep_77, Thresher_75, Youngblood_76, Goldilocks_76, Icee_74, Elph10_73, Terminus_76, NelitzaMV_71, Murphy_73, Balomoji_73, Command613_75, 244_74, CrystalP_72, FairyPath_73, Brewer_68, FireRed_77, Cjw1_73, BugsBunny_73, Filch_74, Thimble_74, Maxxinista_75, Simpliphy_72, MadamMonkfish_73, Wiggin_75, Becksu_72, NonchalantPear_71, StellaBean_71, Willez_68
- Track 2 : Barbarian_72, Mindy_72, Myrale_73, Manda_74, Lilac_75, ShereKhan_72, Traaww1_69, ShamWow_73, Miniwave_68, Phaux_75, Highbury_72, Ukulele_68, Cactus_76, NoSleep_74, Glexan_72, Czyszccon1_74, xkcd_76, ABCat_70, Adnama_77, Sotrice96_74, StolenFromERC_76, Lilizi_74, IHOP_71, Hopey_73, Hoonter_76, GooberAzure_76, MPhalcon_74, Harella_73, AmericanBeauty_77, TBrady12_76, Pharsalus_70, Inca_70, Bench_76, Dusk_70, Gator_71, Toto_71, Kanye_70, Saints25_72, Gemini_78, Stark_74, PhatBacter_77, Phrux_70, Elite2014_72, Misfit_74, JeTaime_73, HufflyPuff_76, MISSy_74, Moldemort_76, Emmina_73, Tarkin_72, Gage_75, Goku_71, Kimchi_77, BadStone_70, Asriel_72, Henry_71, BaboJay_70, Lilpickle_72, Contagion_69, Phaja_71, ChosenOne_73, Palpatine_75, Policronamos_76, TeardropMSU_69, Bruin_70, Argent26_77, Quallification_74, RiverMonster_73, Xandras_72, Ptowny_70, HanKaySha_73, DrDrey_73, Tuco_74, Holt_78, Paperbeatsrock_72, Flypotenuse_69, Mosby_69, SophKB_70, BilboSwaggins_71, Stank_76
- Track 3 : Budgie_81
- Track 4 : MollyToe_68, Rimmer_74, Petra64142_77
- Track 5 : OrionPax_72, DoctorDiddles_72, Bask21_73
- Track 6 : Buck_74, StormChicken_75
- Track 7 : Pat3_71, ChotaBhai_73
- Track 8 : Silverleaf_42, Halena_42, DirkDirk_42, Wamburggrxpress_43, JoeDirt_42, OhShagHennessy_42, Calm_43, Appletree2_42, Rose5_42, LeBron_43, Wyatt2_43, Zaria_43, Acquire49_43, Enceladus_42, UPIE_43
- Track 9 : CicholasNage_43, MAckerman_43
- Track 10 : Tyson_42
- Track 11 : AvadaKedavra_43
- Track 12 : Vatrix_45, Lewan_45, Kahlid_45, DrSeegs_45, Gabriela_45, BigCheese_45, Netyap_45, Wilder_45, MkaliMitinis3_45, LilDestine_45
- Track 13 : GuuelaD_44, Nicholasp3_45, Loadrie_44, Wigglegiggle_45

- Track 14 : Sarshaun_45, Hafay_45, Soap141_45, OverPar_46
- Track 15 : Faith1_45, Winky_45, Breezona_45, Itos_44, Finemlucis_45, Miley16_45
- Track 16 : Crossroads_45, Gardann_45, Underpass_45, Zakai_45
- Track 17 : Claus_45, Baoshan_44
- Track 18 : Bazzle_45, Archie_45
- Track 19 : Rumpelstiltskin_45
- Track 20 : Lynnae_45, BobsGarage_45, SoJulia_46
- Track 21 : Rossetti_46
- Track 22 : DHan_46, ZhongYanYuan_43, DanBing_44
- Track 23 : Tourach_44
- Track 24 : LiyuLake_42, Ellson_42, BourbonZero_41, DuncansLeg_42, KirDoubleO7_40
- Track 25 : Lolly9_42
- Track 26 : Lumos_42, Whirlwind_43, Jubie_42
- Track 27 : MsGreen_42, Clautastrophe_42
- Track 28 : Jobypre_42, Samty_42, Kingsolomon_42, Red305_42, Bellis_42, Finnry_42, Snenia_42, TriFive_42, Nicholas_42, Moostard_42
- Track 29 : Krypton555_42
- Track 30 : MiniLon_42, MiniMac_42
- Track 31 : Douzhi_42, ChutneyChips_41, FarmResident_43
- Track 32 : Chaser_42, Douge_42
- Track 33 : DyoEdafos_44
- Track 34 : Quby_43
- Track 35 : PYPDinur_41, Sheng711_43
- Track 36 : Kropertea_42
- Track 37 : Bromden_45
- Track 38 : BrainDrainer_43
- Track 39 : Madruga_58, Demikore_60
- Track 40 : Labelle_59
- Track 41 : SuperSonics_61
- Track 42 : Patience_60

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

The start number called the most often in the published annotations is 8, it was called in 82 of the 198 non-draft genes in the pham.

Genes that call this "Most Annotated" start:

- ABCat_70, Adnama_77, AmericanBeauty_77, Argent26_77, Asriel_72, BaboJay_70, BadStone_70, Barbarian_72, Bench_76, BilboSwaggins_71, Bruin_70, Buck_74, Cactus_76, ChosenOne_73, ChotaBhai_73, Contagion_69, Czyszczonek1_74, DrDrey_73, Dusk_70, Elite2014_72, Emmina_73, Flypotenuse_69, Gage_75, Gator_71, Gemini_78, Glexan_72, Goku_71, GooberAzure_76, HanKaySha_73, Harella_73, Henry_71, Highbury_72, Holt_78, Hoonter_76, Hopey_73, HufflyPuff_76, IHOP_71, Inca_70, JeTaime_73, Kanye_70, Kimchi_77, Lilac_75, Lilizi_74, Lilpickle_72, MISSy_74, MPhalcon_74, Manda_74, Mindy_72, Miniwave_68, Misfit_74, Moldemort_76, Mosby_69, Myrale_73, NoSleep_74, Palpatine_75, Paperbeatsrock_72, Pat3_71, Phaja_71, Pharsalus_70, PhatBacter_77, Phaux_75, Phrux_70, Policronamos_76, Ptowny_70, Quallification_74, RiverMonster_73, Saints25_72, ShamWow_73, ShereKhan_72,

SophKB_70, Sotrice96_74, Stank_76, Stark_74, StolenFromERC_76, StormChicken_75, TBrady12_76, Tarkin_72, TeardropMSU_69, Toto_71, Traaww1_69, Tuco_74, Ukulele_68, Xandras_72, xkcd_76,

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

- 244_74, Amao_73, Balomoji_73, Bask21_73, Becksu_72, Bogg_73, Brewer_68, Budgie_81, BugsBunny_73, Cjw1_73, Command613_75, CrystalP_72, Daikon_75, DoctorDiddles_72, Dumbo_73, Easy2Say_74, Elph10_73, Eureka_71, FairyPath_73, Filch_74, FireRed_77, FoghornLeghorn_67, GoldenSpark_77, Goldilocks_76, Greep_77, Icee_74, Kostya_73, MadamMonkfish_73, Marshmallow_71, Maxxinista_75, MollyToe_68, Murica_76, Murphy_73, Nala_75, NelitzaMV_71, Nimrod_74, NonchalantPear_71, OrionPax_72, PaddyBaddy_73, Petra64142_77, Porky_72, Pumpkin_76, Rimmer_74, Sassay_68, Simpliphy_72, StellaBean_71, Teaspoon_74, Terminus_76, Thimble_74, Thresher_75, Wiggin_75, Willez_68, Youngblood_76,

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

- Acquire49_43, Appletree2_42, Archie_45, AvadaKedavra_43, Baoshan_44, Bazzle_45, Bellis_42, BigCheese_45, BobsGarage_45, BourbonZero_41, BrainDrainer_43, Breezona_45, Bromden_45, Calm_43, Chaser_42, ChutneyChips_41, CicholasNage_43, Claus_45, Clautastrophe_42, Crossroads_45, DHan_46, DanBing_44, Demikore_60, DirkDirk_42, Douge_42, Douzhi_42, DrSeegs_45, DuncansLeg_42, DyoEdafos_44, Ellson_42, Enceladus_42, Faith1_45, FarmResident_43, Finemlucis_45, Finnry_42, Gabriela_45, Gardann_45, GuuelaD_44, Hafay_45, Halena_42, Itos_44, Jobypre_42, JoeDirt_42, Jubie_42, Kahlid_45, Kingsolomon_42, KirDoubleO7_40, Kropertea_42, Krypton555_42, Labelle_59, LeBron_43, Lewan_45, LilDestine_45, LiyuLake_42, Loadrie_44, Lolly9_42, Lumos_42, Lynnae_45, MAckerman_43, Madrugua_58, Miley16_45, MiniLon_42, MiniMac_42, MkaliMitinis3_45, Moostard_42, MsGreen_42, Netyap_45, Nicholas_42, Nicholasp3_45, OhShagHennessy_42, OverPar_46, PYPDinur_41, Patience_60, Quby_43, Red305_42, Rose5_42, Rossetti_46, Rumpelstiltskin_45, Samty_42, Sarshaun_45, Sheng711_43, Silverleaf_42, Snenia_42, SoJulia_46, Soap141_45, SuperSonics_61, Tourach_44, TriFive_42, Tyson_42, UPIE_43, Underpass_45, Vetrix_45, Wamburggrxpress_43, Whirlwind_43, Wigglewiggle_45, Wilder_45, Winky_45, Wyatt2_43, Zakai_45, Zaria_43, ZhongYanYuan_43,

Summary by start number:

Start 2:

- Found in 55 of 238 (23.1%) of genes in pham
- Manual Annotations of this start: 3 of 198
- Called 5.5% of time when present
- Phage (with cluster) where this start called: Clautastrophe_42 (L3), Krypton555_42 (L3), MsGreen_42 (L3),

Start 3:

- Found in 74 of 238 (31.1%) of genes in pham
- Manual Annotations of this start: 10 of 198
- Called 13.5% of time when present
- Phage (with cluster) where this start called: Breezona_45 (L2), Faith1_45 (L2), Finemlucis_45 (L2), GuuelaD_44 (L2), Itos_44 (L2), Loadrie_44 (L2), Miley16_45 (L2), Nicholasp3_45 (L2), Wigglewiggle_45 (L2), Winky_45 (L2),

Start 4:

- Found in 12 of 238 (5.0%) of genes in pham
- Manual Annotations of this start: 4 of 198
- Called 33.3% of time when present
- Phage (with cluster) where this start called: Bromden_45 (L4), Chaser_42 (L4), Douge_42 (L4), DyoEdafos_44 (L4),

Start 5:

- Found in 85 of 238 (35.7%) of genes in pham
- Manual Annotations of this start: 42 of 198
- Called 49.4% of time when present
- Phage (with cluster) where this start called: Acquire49_43 (L1), Appletree2_42 (L1), Archie_45 (L2), AvadaKedavra_43 (L1), Baoshan_44 (L2), Bazzle_45 (L2), BigCheese_45 (L2), Calm_43 (L1), Claus_45 (L2), Crossroads_45 (L2), DirkDirk_42 (L1), DrSeegs_45 (L2), Enceladus_42 (L1), Gabriela_45 (L2), Gardann_45 (L2), Halena_42 (L1), JoeDirt_42 (L1), Jubie_42 (L3), Kahlid_45 (L2), LeBron_43 (L1), Lewan_45 (L2), LilDestine_45 (L2), Lumos_42 (L3), MiniLon_42 (L3), MiniMac_42 (L3), MkaliMitinis3_45 (L2), Netyap_45 (L2), OhShagHennessy_42 (L1), Rose5_42 (L1), Rumpelstiltskin_45 (L2), Silverleaf_42 (L1), Tourach_44 (L2), Tyson_42 (L1), UPIE_43 (L1), Underpass_45 (L2), Vetrix_45 (L2), Wamburgexpress_43 (L1), Whirlwind_43 (L3), Wilder_45 (L2), Wyatt2_43 (L1), Zakai_45 (L2), Zaria_43 (L1),

Start 8:

- Found in 137 of 238 (57.6%) of genes in pham
- Manual Annotations of this start: 82 of 198
- Called 61.3% of time when present
- Phage (with cluster) where this start called: ABCat_70 (E), Adnama_77 (E), AmericanBeauty_77 (E), Argent26_77 (E), Asriel_72 (E), BaboJay_70 (E), BadStone_70 (E), Barbarian_72 (E), Bench_76 (E), BilboSwaggins_71 (E), Bruin_70 (E), Buck_74 (E), Cactus_76 (E), ChosenOne_73 (E), ChotaBhai_73 (E), Contagion_69 (E), Czyszczonek_74 (E), DrDrey_73 (E), Dusk_70 (E), Elite2014_72 (E), Emmina_73 (E), Flypotenuse_69 (E), Gage_75 (E), Gator_71 (E), Gemini_78 (E), Glexan_72 (E), Goku_71 (E), GooberAzure_76 (E), HanKaySha_73 (E), Harella_73 (E), Henry_71 (E), Highbury_72 (E), Holt_78 (E), Hoonter_76 (E), Hopey_73 (E), HufflyPuff_76 (E), IHOP_71 (E), Inca_70 (E), JeTaime_73 (E), Kanye_70 (E), Kimchi_77 (E), Lilac_75 (E), Lilizi_74 (E), Lilpickle_72 (E), MISSy_74 (E), MPhalcon_74 (E), Manda_74 (E), Mindy_72 (E), Miniwave_68 (E), Misfit_74 (E), Moldemort_76 (E), Mosby_69 (E), Myrale_73 (E), NoSleep_74 (E), Palpatine_75 (E), Paperbeatsrock_72 (E), Pat3_71 (E), Phaja_71 (E), Pharsalus_70 (E), PhatBacter_77 (E), Phaux_75 (E), Phrux_70 (E), Policronamos_76 (E), Ptowny_70 (E), Quallification_74 (E), RiverMonster_73 (E), Saints25_72 (E), ShamWow_73 (E), ShereKhan_72 (E), SophKB_70 (E), Sotrice96_74 (E), Stank_76 (E), Stark_74 (E), StolenFromERC_76 (E), StormChicken_75 (E), TBrady12_76 (E), Tarkin_72 (E), TeardropMSU_69 (E), Toto_71 (E), Traaww1_69 (E), Tuco_74 (E), Ukulele_68 (E), Xandras_72 (E), xkcd_76 (E),

Start 9:

- Found in 137 of 238 (57.6%) of genes in pham
- Manual Annotations of this start: 40 of 198
- Called 38.7% of time when present
- Phage (with cluster) where this start called: 244_74 (E), Amao_73 (E), Balomoji_73 (E), Bask21_73 (E), Becksu_72 (E), Bogg_73 (E), Brewer_68 (E), Budgie_81 (E), BugsBunny_73 (E), Cjw1_73 (E), Command613_75 (E), CrystalP_72 (E), Daikon_75

(E), DoctorDiddles_72 (E), Dumbo_73 (E), Easy2Say_74 (E), Elph10_73 (E), Eureka_71 (E), FairyPath_73 (E), Filch_74 (E), FireRed_77 (E), FoghornLeghorn_67 (E), GoldenSpark_77 (E), Goldilocks_76 (E), Greep_77 (E), Icee_74 (E), Kostya_73 (E), MadamMonkfish_73 (E), Marshmallow_71 (E), Maxxinista_75 (E), MollyToe_68 (E), Murica_76 (E), Murphy_73 (E), Nala_75 (E), NelitzaMV_71 (E), Nimrod_74 (E), NonchalantPear_71 (E), OrionPax_72 (E), PaddyBaddy_73 (E), Petra64142_77 (E), Porky_72 (E), Pumpkin_76 (E), Rimmer_74 (E), Sassay_68 (E), Simpliphy_72 (E), StellaBean_71 (E), Teaspoon_74 (E), Terminus_76 (E), Thimble_74 (E), Thresher_75 (E), Wiggin_75 (E), Willez_68 (E), Youngblood_76 (E),

Start 10:

- Found in 5 of 238 (2.1%) of genes in pham
- Manual Annotations of this start: 3 of 198
- Called 100.0% of time when present
- Phage (with cluster) where this start called: Demikore_60 (U), Labelle_59 (U), Madrugua_58 (U), Patience_60 (U), SuperSonics_61 (U),

Start 14:

- Found in 96 of 238 (40.3%) of genes in pham
- Manual Annotations of this start: 14 of 198
- Called 35.4% of time when present
- Phage (with cluster) where this start called: Bellis_42 (L3), BobsGarage_45 (L2), BourbonZero_41 (L3), ChutneyChips_41 (L4), CicholasNage_43 (L1), DHan_46 (L2), DanBing_44 (L2), Douzhi_42 (L4), DuncansLeg_42 (L3), Ellson_42 (L3), FarmResident_43 (L4), Finnry_42 (L3), Hafay_45 (L2), Jobypre_42 (L3), Kingsolomon_42 (L3), KirDoubleO7_40 (L3), LiyuLake_42 (L3), Lolly9_42 (L3), Lynnae_45 (L2), MAckerman_43 (L1), Moostard_42 (L3), Nicholas_42 (L3), OverPar_46 (L2), PYPDinur_41 (L4), Quby_43 (L4), Red305_42 (L3), Samty_42 (L3), Sarshaun_45 (L2), Sheng711_43 (L4), Snenia_42 (L3), SoJulia_46 (L2), Soap141_45 (L2), TriFive_42 (L3), ZhongYanYuan_43 (L2),

Start 15:

- Found in 96 of 238 (40.3%) of genes in pham
- No Manual Annotations of this start.
- Called 2.1% of time when present
- Phage (with cluster) where this start called: BrainDrainer_43 (L4), Rossetti_46 (L2),

Start 19:

- Found in 77 of 238 (32.4%) of genes in pham
- No Manual Annotations of this start.
- Called 1.3% of time when present
- Phage (with cluster) where this start called: Kropertea_42 (L4),

Summary by clusters:

There are 6 clusters represented in this pham: E, L4, L2, L3, L1, U,

Info for manual annotations of cluster E:

- Start number 8 was manually annotated 82 times for cluster E.
- Start number 9 was manually annotated 40 times for cluster E.

Info for manual annotations of cluster L1:

- Start number 5 was manually annotated 17 times for cluster L1.

- Start number 14 was manually annotated 2 times for cluster L1.

Info for manual annotations of cluster L2:

- Start number 3 was manually annotated 10 times for cluster L2.
- Start number 5 was manually annotated 20 times for cluster L2.
- Start number 14 was manually annotated 1 time for cluster L2.

Info for manual annotations of cluster L3:

- Start number 2 was manually annotated 3 times for cluster L3.
- Start number 5 was manually annotated 5 times for cluster L3.
- Start number 14 was manually annotated 11 times for cluster L3.

Info for manual annotations of cluster L4:

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

Info for manual annotations of cluster U:

- Start number 10 was manually annotated 3 times for cluster U.

Gene Information:

Gene: 244_74 Start: 47428, Stop: 47793, Start Num: 9

Candidate Starts for 244_74:

(Start: 8 @47422 has 82 MA's), (Start: 9 @47428 has 40 MA's), (16, 47500), (23, 47554), (35, 47725),

Gene: ABCat_70 Start: 47769, Stop: 48146, Start Num: 8

Candidate Starts for ABCat_70:

(Start: 8 @47769 has 82 MA's), (Start: 9 @47775 has 40 MA's), (16, 47847), (23, 47907), (35, 48078),

Gene: Acquire49_43 Start: 34025, Stop: 34441, Start Num: 5

Candidate Starts for Acquire49_43:

(Start: 2 @34004 has 3 MA's), (Start: 5 @34025 has 42 MA's), (13, 34091), (Start: 14 @34112 has 14 MA's), (15, 34130), (21, 34169), (22, 34181), (26, 34238), (30, 34298), (38, 34418),

Gene: Adnama_77 Start: 47795, Stop: 48172, Start Num: 8

Candidate Starts for Adnama_77:

(Start: 8 @47795 has 82 MA's), (Start: 9 @47801 has 40 MA's), (16, 47873), (23, 47933), (35, 48104),

Gene: Amao_73 Start: 47195, Stop: 47566, Start Num: 9

Candidate Starts for Amao_73:

(Start: 8 @47189 has 82 MA's), (Start: 9 @47195 has 40 MA's), (16, 47267), (23, 47327), (35, 47498),

Gene: AmericanBeauty_77 Start: 47938, Stop: 48315, Start Num: 8

Candidate Starts for AmericanBeauty_77:

(Start: 8 @47938 has 82 MA's), (Start: 9 @47944 has 40 MA's), (16, 48016), (23, 48076), (35, 48247),

Gene: Appletree2_42 Start: 33952, Stop: 34368, Start Num: 5

Candidate Starts for Appletree2_42:

(Start: 2 @33931 has 3 MA's), (Start: 5 @33952 has 42 MA's), (13, 34018), (Start: 14 @34039 has 14 MA's), (15, 34057), (21, 34096), (22, 34108), (26, 34165), (30, 34225), (38, 34345),

Gene: Archie_45 Start: 35560, Stop: 35976, Start Num: 5

Candidate Starts for Archie_45:

(Start: 3 @35551 has 10 MA's), (Start: 5 @35560 has 42 MA's), (Start: 14 @35647 has 14 MA's), (15, 35665), (19, 35692), (20, 35695), (26, 35770), (27, 35782), (31, 35842), (33, 35890), (38, 35953),

Gene: Argent26_77 Start: 47576, Stop: 47953, Start Num: 8

Candidate Starts for Argent26_77:

(Start: 8 @47576 has 82 MA's), (Start: 9 @47582 has 40 MA's), (16, 47654), (23, 47714), (35, 47885),

Gene: Asriel_72 Start: 46132, Stop: 46509, Start Num: 8

Candidate Starts for Asriel_72:

(Start: 8 @46132 has 82 MA's), (Start: 9 @46138 has 40 MA's), (16, 46210), (23, 46270), (35, 46441),

Gene: AvadaKedavra_43 Start: 34034, Stop: 34450, Start Num: 5

Candidate Starts for AvadaKedavra_43:

(Start: 2 @34013 has 3 MA's), (Start: 5 @34034 has 42 MA's), (11, 34088), (13, 34100), (Start: 14 @34121 has 14 MA's), (15, 34139), (21, 34178), (22, 34190), (26, 34247), (30, 34307), (38, 34427),

Gene: BaboJay_70 Start: 46969, Stop: 47346, Start Num: 8

Candidate Starts for BaboJay_70:

(Start: 8 @46969 has 82 MA's), (Start: 9 @46975 has 40 MA's), (16, 47047), (23, 47107), (35, 47278),

Gene: BadStone_70 Start: 47338, Stop: 47715, Start Num: 8

Candidate Starts for BadStone_70:

(Start: 8 @47338 has 82 MA's), (Start: 9 @47344 has 40 MA's), (16, 47416), (23, 47476), (35, 47647),

Gene: Balomoji_73 Start: 47905, Stop: 48276, Start Num: 9

Candidate Starts for Balomoji_73:

(Start: 8 @47899 has 82 MA's), (Start: 9 @47905 has 40 MA's), (16, 47977), (23, 48037), (35, 48208),

Gene: Baoshan_44 Start: 35217, Stop: 35633, Start Num: 5

Candidate Starts for Baoshan_44:

(Start: 3 @35208 has 10 MA's), (Start: 5 @35217 has 42 MA's), (Start: 14 @35304 has 14 MA's), (15, 35322), (19, 35349), (20, 35352), (26, 35430), (33, 35547), (38, 35610),

Gene: Barbarian_72 Start: 46132, Stop: 46509, Start Num: 8

Candidate Starts for Barbarian_72:

(Start: 8 @46132 has 82 MA's), (Start: 9 @46138 has 40 MA's), (16, 46210), (23, 46270), (35, 46441),

Gene: Bask21_73 Start: 46758, Stop: 47129, Start Num: 9

Candidate Starts for Bask21_73:

(Start: 8 @46752 has 82 MA's), (Start: 9 @46758 has 40 MA's), (16, 46830), (23, 46890), (29, 46989), (35, 47061),

Gene: Bazzle_45 Start: 35592, Stop: 36008, Start Num: 5

Candidate Starts for Bazzle_45:

(Start: 3 @35583 has 10 MA's), (Start: 5 @35592 has 42 MA's), (Start: 14 @35679 has 14 MA's), (15, 35697), (19, 35724), (20, 35727), (26, 35802), (27, 35814), (31, 35874), (33, 35922), (38, 35985),

Gene: Becksu_72 Start: 47977, Stop: 48345, Start Num: 9

Candidate Starts for Becksu_72:

(Start: 8 @47971 has 82 MA's), (Start: 9 @47977 has 40 MA's), (16, 48049), (23, 48109), (35, 48277),

Gene: Bellis_42 Start: 35732, Stop: 36055, Start Num: 14

Candidate Starts for Bellis_42:

(Start: 2 @35627 has 3 MA's), (Start: 3 @35639 has 10 MA's), (Start: 5 @35648 has 42 MA's), (Start: 14 @35732 has 14 MA's), (15, 35750), (17, 35768), (19, 35777), (28, 35894), (38, 36032),

Gene: Bench_76 Start: 47439, Stop: 47813, Start Num: 8

Candidate Starts for Bench_76:

(Start: 8 @47439 has 82 MA's), (Start: 9 @47445 has 40 MA's), (16, 47517), (23, 47577), (35, 47745),

Gene: BigCheese_45 Start: 35356, Stop: 35772, Start Num: 5

Candidate Starts for BigCheese_45:

(Start: 3 @35347 has 10 MA's), (Start: 5 @35356 has 42 MA's), (Start: 14 @35443 has 14 MA's), (15, 35461), (19, 35488), (20, 35491), (26, 35566), (27, 35578), (33, 35686), (38, 35749),

Gene: BilboSwaggins_71 Start: 47777, Stop: 48154, Start Num: 8

Candidate Starts for BilboSwaggins_71:

(Start: 8 @47777 has 82 MA's), (Start: 9 @47783 has 40 MA's), (16, 47855), (23, 47915), (35, 48086),

Gene: BobsGarage_45 Start: 35443, Stop: 35772, Start Num: 14

Candidate Starts for BobsGarage_45:

(Start: 3 @35347 has 10 MA's), (Start: 5 @35356 has 42 MA's), (Start: 14 @35443 has 14 MA's), (15, 35461), (19, 35488), (20, 35491), (26, 35566), (27, 35578), (33, 35686), (38, 35749),

Gene: Bogg_73 Start: 46724, Stop: 47092, Start Num: 9

Candidate Starts for Bogg_73:

(Start: 8 @46718 has 82 MA's), (Start: 9 @46724 has 40 MA's), (16, 46796), (23, 46856), (35, 47024),

Gene: BourbonZero_41 Start: 35717, Stop: 36040, Start Num: 14

Candidate Starts for BourbonZero_41:

(Start: 2 @35609 has 3 MA's), (Start: 3 @35621 has 10 MA's), (Start: 5 @35630 has 42 MA's), (6, 35633), (Start: 14 @35717 has 14 MA's), (15, 35735), (17, 35753), (19, 35762), (28, 35879), (38, 36017),

Gene: BrainDrainer_43 Start: 34388, Stop: 34699, Start Num: 15

Candidate Starts for BrainDrainer_43:

(Start: 2 @34265 has 3 MA's), (Start: 3 @34277 has 10 MA's), (Start: 4 @34280 has 4 MA's), (Start: 14 @34370 has 14 MA's), (15, 34388), (19, 34415), (20, 34418), (26, 34493), (27, 34505), (33, 34613), (38, 34676), (39, 34691),

Gene: Breezona_45 Start: 35347, Stop: 35772, Start Num: 3

Candidate Starts for Breezona_45:

(Start: 3 @35347 has 10 MA's), (Start: 5 @35356 has 42 MA's), (Start: 14 @35443 has 14 MA's), (15, 35461), (19, 35488), (20, 35491), (26, 35566), (27, 35578), (33, 35686), (38, 35749),

Gene: Brewer_68 Start: 46244, Stop: 46615, Start Num: 9

Candidate Starts for Brewer_68:

(Start: 8 @46238 has 82 MA's), (Start: 9 @46244 has 40 MA's), (16, 46316), (23, 46376), (35, 46547),

Gene: Bromden_45 Start: 35106, Stop: 35519, Start Num: 4

Candidate Starts for Bromden_45:

(Start: 2 @35091 has 3 MA's), (Start: 3 @35103 has 10 MA's), (Start: 4 @35106 has 4 MA's), (Start: 5 @35112 has 42 MA's), (Start: 14 @35196 has 14 MA's), (15, 35214), (18, 35238), (19, 35241), (26, 35322), (38, 35496),

Gene: Bruin_70 Start: 46315, Stop: 46689, Start Num: 8
Candidate Starts for Bruin_70:
(Start: 8 @46315 has 82 MA's), (Start: 9 @46321 has 40 MA's), (16, 46393), (23, 46453), (35, 46621),

Gene: Buck_74 Start: 48026, Stop: 48394, Start Num: 8
Candidate Starts for Buck_74:
(Start: 8 @48026 has 82 MA's), (Start: 9 @48032 has 40 MA's), (16, 48104), (35, 48326),

Gene: Budgie_81 Start: 47813, Stop: 48184, Start Num: 9
Candidate Starts for Budgie_81:
(1, 47672), (Start: 8 @47807 has 82 MA's), (Start: 9 @47813 has 40 MA's), (12, 47840), (16, 47885),
(23, 47945), (29, 48044), (35, 48116),

Gene: BugsBunny_73 Start: 47853, Stop: 48221, Start Num: 9
Candidate Starts for BugsBunny_73:
(Start: 8 @47847 has 82 MA's), (Start: 9 @47853 has 40 MA's), (16, 47925), (23, 47985), (35, 48153),

Gene: Cactus_76 Start: 46793, Stop: 47170, Start Num: 8
Candidate Starts for Cactus_76:
(Start: 8 @46793 has 82 MA's), (Start: 9 @46799 has 40 MA's), (16, 46871), (23, 46931), (35, 47102),

Gene: Calm_43 Start: 34040, Stop: 34456, Start Num: 5
Candidate Starts for Calm_43:
(Start: 2 @34019 has 3 MA's), (Start: 5 @34040 has 42 MA's), (13, 34106), (Start: 14 @34127 has 14 MA's), (15, 34145), (21, 34184), (22, 34196), (26, 34253), (30, 34313), (38, 34433),

Gene: Chaser_42 Start: 34097, Stop: 34510, Start Num: 4
Candidate Starts for Chaser_42:
(Start: 2 @34082 has 3 MA's), (Start: 3 @34094 has 10 MA's), (Start: 4 @34097 has 4 MA's), (Start: 14 @34187 has 14 MA's), (15, 34205), (19, 34232), (20, 34235), (26, 34313), (31, 34376), (36, 34439),
(38, 34487),

Gene: ChosenOne_73 Start: 46796, Stop: 47170, Start Num: 8
Candidate Starts for ChosenOne_73:
(Start: 8 @46796 has 82 MA's), (Start: 9 @46802 has 40 MA's), (16, 46874), (23, 46934), (35, 47102),

Gene: ChotaBhai_73 Start: 47117, Stop: 47494, Start Num: 8
Candidate Starts for ChotaBhai_73:
(Start: 8 @47117 has 82 MA's), (Start: 9 @47123 has 40 MA's), (16, 47195), (23, 47255), (29, 47354),
(35, 47426),

Gene: ChutneyChips_41 Start: 34367, Stop: 34690, Start Num: 14
Candidate Starts for ChutneyChips_41:
(Start: 2 @34262 has 3 MA's), (Start: 3 @34274 has 10 MA's), (Start: 4 @34277 has 4 MA's), (Start: 14 @34367 has 14 MA's), (15, 34385), (19, 34412), (20, 34415), (26, 34493), (31, 34556), (36, 34619),
(38, 34667),

Gene: CicholasNage_43 Start: 34148, Stop: 34477, Start Num: 14
Candidate Starts for CicholasNage_43:
(Start: 2 @34040 has 3 MA's), (Start: 5 @34061 has 42 MA's), (13, 34127), (Start: 14 @34148 has 14 MA's), (15, 34166), (21, 34205), (22, 34217), (26, 34274), (30, 34334), (38, 34454),

Gene: Cjw1_73 Start: 48499, Stop: 48867, Start Num: 9

Candidate Starts for Cjw1_73:

(Start: 8 @48493 has 82 MA's), (Start: 9 @48499 has 40 MA's), (16, 48571), (23, 48631), (35, 48799),

Gene: Claus_45 Start: 35375, Stop: 35791, Start Num: 5

Candidate Starts for Claus_45:

(Start: 3 @35366 has 10 MA's), (Start: 5 @35375 has 42 MA's), (Start: 14 @35462 has 14 MA's), (15, 35480), (19, 35507), (20, 35510), (26, 35588), (33, 35705), (38, 35768),

Gene: Clautastrophe_42 Start: 35625, Stop: 36053, Start Num: 2

Candidate Starts for Clautastrophe_42:

(Start: 2 @35625 has 3 MA's), (Start: 3 @35637 has 10 MA's), (Start: 5 @35646 has 42 MA's), (Start: 14 @35730 has 14 MA's), (15, 35748), (17, 35766), (19, 35775), (28, 35892), (38, 36030),

Gene: Command613_75 Start: 47838, Stop: 48209, Start Num: 9

Candidate Starts for Command613_75:

(Start: 8 @47832 has 82 MA's), (Start: 9 @47838 has 40 MA's), (16, 47910), (23, 47970), (35, 48141),

Gene: Contagion_69 Start: 46596, Stop: 46970, Start Num: 8

Candidate Starts for Contagion_69:

(Start: 8 @46596 has 82 MA's), (Start: 9 @46602 has 40 MA's), (16, 46674), (23, 46734), (35, 46902),

Gene: Crossroads_45 Start: 35358, Stop: 35774, Start Num: 5

Candidate Starts for Crossroads_45:

(Start: 3 @35349 has 10 MA's), (Start: 5 @35358 has 42 MA's), (Start: 14 @35445 has 14 MA's), (15, 35463), (19, 35490), (20, 35493), (26, 35568), (27, 35580), (33, 35688), (38, 35751),

Gene: CrystalP_72 Start: 47783, Stop: 48154, Start Num: 9

Candidate Starts for CrystalP_72:

(Start: 8 @47777 has 82 MA's), (Start: 9 @47783 has 40 MA's), (16, 47855), (23, 47915), (35, 48086),

Gene: Czyszczone1_74 Start: 47302, Stop: 47676, Start Num: 8

Candidate Starts for Czyszczone1_74:

(Start: 8 @47302 has 82 MA's), (Start: 9 @47308 has 40 MA's), (16, 47380), (23, 47440), (35, 47608),

Gene: DHan_46 Start: 35403, Stop: 35732, Start Num: 14

Candidate Starts for DHan_46:

(Start: 3 @35307 has 10 MA's), (Start: 5 @35316 has 42 MA's), (Start: 14 @35403 has 14 MA's), (15, 35421), (19, 35448), (20, 35451), (26, 35529), (33, 35646), (38, 35709),

Gene: Daikon_75 Start: 47926, Stop: 48297, Start Num: 9

Candidate Starts for Daikon_75:

(Start: 8 @47920 has 82 MA's), (Start: 9 @47926 has 40 MA's), (16, 47998), (23, 48058), (35, 48229),

Gene: DanBing_44 Start: 35295, Stop: 35624, Start Num: 14

Candidate Starts for DanBing_44:

(Start: 3 @35199 has 10 MA's), (Start: 5 @35208 has 42 MA's), (Start: 14 @35295 has 14 MA's), (15, 35313), (19, 35340), (20, 35343), (26, 35421), (33, 35538), (38, 35601),

Gene: Demikore_60 Start: 43030, Stop: 43398, Start Num: 10

Candidate Starts for Demikore_60:

(Start: 10 @43030 has 3 MA's), (24, 43159), (25, 43168), (31, 43264), (32, 43291),

Gene: DirkDirk_42 Start: 34012, Stop: 34428, Start Num: 5

Candidate Starts for DirkDirk_42:

(Start: 2 @33991 has 3 MA's), (Start: 5 @34012 has 42 MA's), (13, 34078), (Start: 14 @34099 has 14 MA's), (15, 34117), (21, 34156), (22, 34168), (26, 34225), (30, 34285), (38, 34405),

Gene: DoctorDiddles_72 Start: 47167, Stop: 47538, Start Num: 9

Candidate Starts for DoctorDiddles_72:

(Start: 8 @47161 has 82 MA's), (Start: 9 @47167 has 40 MA's), (16, 47239), (23, 47299), (29, 47398), (35, 47470),

Gene: Douge_42 Start: 34035, Stop: 34448, Start Num: 4

Candidate Starts for Douge_42:

(Start: 2 @34020 has 3 MA's), (Start: 3 @34032 has 10 MA's), (Start: 4 @34035 has 4 MA's), (Start: 14 @34125 has 14 MA's), (15, 34143), (19, 34170), (20, 34173), (26, 34251), (31, 34314), (36, 34377), (38, 34425),

Gene: Douzhi_42 Start: 34231, Stop: 34554, Start Num: 14

Candidate Starts for Douzhi_42:

(Start: 2 @34126 has 3 MA's), (Start: 3 @34138 has 10 MA's), (Start: 4 @34141 has 4 MA's), (Start: 14 @34231 has 14 MA's), (15, 34249), (19, 34276), (20, 34279), (26, 34357), (31, 34420), (36, 34483), (38, 34531),

Gene: DrDrey_73 Start: 48218, Stop: 48595, Start Num: 8

Candidate Starts for DrDrey_73:

(Start: 8 @48218 has 82 MA's), (Start: 9 @48224 has 40 MA's), (16, 48296), (23, 48356), (35, 48527),

Gene: DrSeegs_45 Start: 35356, Stop: 35772, Start Num: 5

Candidate Starts for DrSeegs_45:

(Start: 3 @35347 has 10 MA's), (Start: 5 @35356 has 42 MA's), (Start: 14 @35443 has 14 MA's), (15, 35461), (19, 35488), (20, 35491), (26, 35566), (27, 35578), (33, 35686), (38, 35749),

Gene: Dumbo_73 Start: 46707, Stop: 47075, Start Num: 9

Candidate Starts for Dumbo_73:

(Start: 8 @46701 has 82 MA's), (Start: 9 @46707 has 40 MA's), (16, 46779), (23, 46839), (35, 47007),

Gene: DuncansLeg_42 Start: 35754, Stop: 36077, Start Num: 14

Candidate Starts for DuncansLeg_42:

(Start: 2 @35646 has 3 MA's), (Start: 3 @35658 has 10 MA's), (Start: 5 @35667 has 42 MA's), (6, 35670), (Start: 14 @35754 has 14 MA's), (15, 35772), (17, 35790), (19, 35799), (28, 35916), (38, 36054),

Gene: Dusk_70 Start: 46998, Stop: 47375, Start Num: 8

Candidate Starts for Dusk_70:

(Start: 8 @46998 has 82 MA's), (Start: 9 @47004 has 40 MA's), (16, 47076), (23, 47136), (35, 47307),

Gene: DyoEdafos_44 Start: 34357, Stop: 34776, Start Num: 4

Candidate Starts for DyoEdafos_44:

(Start: 2 @34342 has 3 MA's), (Start: 3 @34354 has 10 MA's), (Start: 4 @34357 has 4 MA's), (Start: 14 @34447 has 14 MA's), (15, 34465), (19, 34492), (26, 34570), (31, 34642), (38, 34753),

Gene: Easy2Say_74 Start: 48248, Stop: 48619, Start Num: 9

Candidate Starts for Easy2Say_74:

(Start: 8 @48242 has 82 MA's), (Start: 9 @48248 has 40 MA's), (16, 48320), (23, 48380), (35, 48551),

Gene: Elite2014_72 Start: 46795, Stop: 47169, Start Num: 8
Candidate Starts for Elite2014_72:
(Start: 8 @46795 has 82 MA's), (Start: 9 @46801 has 40 MA's), (16, 46873), (23, 46933), (35, 47101),

Gene: Ellson_42 Start: 35730, Stop: 36053, Start Num: 14
Candidate Starts for Ellson_42:
(Start: 2 @35622 has 3 MA's), (Start: 3 @35634 has 10 MA's), (Start: 5 @35643 has 42 MA's), (6, 35646), (Start: 14 @35730 has 14 MA's), (15, 35748), (17, 35766), (19, 35775), (28, 35892), (38, 36030),

Gene: Elph10_73 Start: 46806, Stop: 47174, Start Num: 9
Candidate Starts for Elph10_73:
(Start: 8 @46800 has 82 MA's), (Start: 9 @46806 has 40 MA's), (16, 46878), (23, 46938), (35, 47106),

Gene: Emmina_73 Start: 46702, Stop: 47076, Start Num: 8
Candidate Starts for Emmina_73:
(Start: 8 @46702 has 82 MA's), (Start: 9 @46708 has 40 MA's), (16, 46780), (23, 46840), (35, 47008),

Gene: Enceladus_42 Start: 33995, Stop: 34411, Start Num: 5
Candidate Starts for Enceladus_42:
(Start: 2 @33974 has 3 MA's), (Start: 5 @33995 has 42 MA's), (13, 34061), (Start: 14 @34082 has 14 MA's), (15, 34100), (21, 34139), (22, 34151), (26, 34208), (30, 34268), (38, 34388),

Gene: Eureka_71 Start: 47272, Stop: 47640, Start Num: 9
Candidate Starts for Eureka_71:
(Start: 8 @47266 has 82 MA's), (Start: 9 @47272 has 40 MA's), (16, 47344), (23, 47404), (35, 47572),

Gene: FairyPath_73 Start: 47917, Stop: 48288, Start Num: 9
Candidate Starts for FairyPath_73:
(Start: 8 @47911 has 82 MA's), (Start: 9 @47917 has 40 MA's), (16, 47989), (23, 48049), (35, 48220),

Gene: Faith1_45 Start: 35347, Stop: 35772, Start Num: 3
Candidate Starts for Faith1_45:
(Start: 3 @35347 has 10 MA's), (Start: 5 @35356 has 42 MA's), (Start: 14 @35443 has 14 MA's), (15, 35461), (19, 35488), (20, 35491), (26, 35566), (27, 35578), (33, 35686), (38, 35749),

Gene: FarmResident_43 Start: 34169, Stop: 34492, Start Num: 14
Candidate Starts for FarmResident_43:
(Start: 2 @34064 has 3 MA's), (Start: 3 @34076 has 10 MA's), (Start: 4 @34079 has 4 MA's), (Start: 14 @34169 has 14 MA's), (15, 34187), (19, 34214), (20, 34217), (26, 34295), (31, 34358), (36, 34421), (38, 34469),

Gene: Filch_74 Start: 46733, Stop: 47101, Start Num: 9
Candidate Starts for Filch_74:
(Start: 8 @46727 has 82 MA's), (Start: 9 @46733 has 40 MA's), (16, 46805), (23, 46865), (35, 47033),

Gene: Finemlucis_45 Start: 35623, Stop: 36048, Start Num: 3
Candidate Starts for Finemlucis_45:
(Start: 3 @35623 has 10 MA's), (Start: 5 @35632 has 42 MA's), (Start: 14 @35719 has 14 MA's), (15, 35737), (19, 35764), (20, 35767), (26, 35842), (27, 35854), (33, 35962), (38, 36025),

Gene: Finnry_42 Start: 35733, Stop: 36056, Start Num: 14
Candidate Starts for Finnry_42:

(Start: 2 @35628 has 3 MA's), (Start: 3 @35640 has 10 MA's), (Start: 5 @35649 has 42 MA's), (Start: 14 @35733 has 14 MA's), (15, 35751), (17, 35769), (19, 35778), (28, 35895), (38, 36033),

Gene: FireRed_77 Start: 48298, Stop: 48663, Start Num: 9

Candidate Starts for FireRed_77:

(Start: 8 @48292 has 82 MA's), (Start: 9 @48298 has 40 MA's), (16, 48370), (23, 48424), (35, 48595),

Gene: Flypotenuse_69 Start: 46783, Stop: 47160, Start Num: 8

Candidate Starts for Flypotenuse_69:

(Start: 8 @46783 has 82 MA's), (Start: 9 @46789 has 40 MA's), (16, 46861), (23, 46921), (35, 47092),

Gene: FoghornLeghorn_67 Start: 45805, Stop: 46173, Start Num: 9

Candidate Starts for FoghornLeghorn_67:

(Start: 8 @45799 has 82 MA's), (Start: 9 @45805 has 40 MA's), (16, 45877), (23, 45937), (35, 46105),

Gene: Gabriela_45 Start: 35618, Stop: 36034, Start Num: 5

Candidate Starts for Gabriela_45:

(Start: 3 @35609 has 10 MA's), (Start: 5 @35618 has 42 MA's), (Start: 14 @35705 has 14 MA's), (15, 35723), (19, 35750), (20, 35753), (26, 35828), (27, 35840), (33, 35948), (38, 36011),

Gene: Gage_75 Start: 47576, Stop: 47953, Start Num: 8

Candidate Starts for Gage_75:

(Start: 8 @47576 has 82 MA's), (Start: 9 @47582 has 40 MA's), (16, 47654), (23, 47714), (35, 47885),

Gene: Gardann_45 Start: 35357, Stop: 35773, Start Num: 5

Candidate Starts for Gardann_45:

(Start: 3 @35348 has 10 MA's), (Start: 5 @35357 has 42 MA's), (Start: 14 @35444 has 14 MA's), (15, 35462), (19, 35489), (20, 35492), (26, 35567), (27, 35579), (33, 35687), (38, 35750),

Gene: Gator_71 Start: 47629, Stop: 48006, Start Num: 8

Candidate Starts for Gator_71:

(Start: 8 @47629 has 82 MA's), (Start: 9 @47635 has 40 MA's), (16, 47707), (23, 47767), (35, 47938),

Gene: Gemini_78 Start: 48093, Stop: 48470, Start Num: 8

Candidate Starts for Gemini_78:

(Start: 8 @48093 has 82 MA's), (Start: 9 @48099 has 40 MA's), (16, 48171), (23, 48231), (35, 48402),

Gene: Glexan_72 Start: 47913, Stop: 48290, Start Num: 8

Candidate Starts for Glexan_72:

(Start: 8 @47913 has 82 MA's), (Start: 9 @47919 has 40 MA's), (16, 47991), (23, 48051), (35, 48222),

Gene: Goku_71 Start: 46995, Stop: 47369, Start Num: 8

Candidate Starts for Goku_71:

(Start: 8 @46995 has 82 MA's), (Start: 9 @47001 has 40 MA's), (16, 47073), (23, 47133), (35, 47301),

Gene: GoldenSpark_77 Start: 47582, Stop: 47953, Start Num: 9

Candidate Starts for GoldenSpark_77:

(Start: 8 @47576 has 82 MA's), (Start: 9 @47582 has 40 MA's), (16, 47654), (23, 47714), (35, 47885),

Gene: Goldilocks_76 Start: 47080, Stop: 47451, Start Num: 9

Candidate Starts for Goldilocks_76:

(Start: 8 @47074 has 82 MA's), (Start: 9 @47080 has 40 MA's), (16, 47152), (23, 47212), (35, 47383),

Gene: GooberAzure_76 Start: 47576, Stop: 47953, Start Num: 8
Candidate Starts for GooberAzure_76:
(Start: 8 @47576 has 82 MA's), (Start: 9 @47582 has 40 MA's), (16, 47654), (23, 47714), (35, 47885),

Gene: Greep_77 Start: 48584, Stop: 48952, Start Num: 9
Candidate Starts for Greep_77:
(Start: 8 @48578 has 82 MA's), (Start: 9 @48584 has 40 MA's), (16, 48656), (23, 48716), (35, 48884),

Gene: GuuelaD_44 Start: 35386, Stop: 35811, Start Num: 3
Candidate Starts for GuuelaD_44:
(Start: 3 @35386 has 10 MA's), (Start: 5 @35395 has 42 MA's), (Start: 14 @35482 has 14 MA's), (15, 35500), (19, 35527), (20, 35530), (26, 35605), (27, 35617), (33, 35725), (38, 35788),

Gene: Hafay_45 Start: 35477, Stop: 35806, Start Num: 14
Candidate Starts for Hafay_45:
(Start: 3 @35381 has 10 MA's), (Start: 5 @35390 has 42 MA's), (Start: 14 @35477 has 14 MA's), (15, 35495), (19, 35522), (20, 35525), (26, 35600), (27, 35612), (33, 35720), (38, 35783),

Gene: Halena_42 Start: 34036, Stop: 34452, Start Num: 5
Candidate Starts for Halena_42:
(Start: 2 @34015 has 3 MA's), (Start: 5 @34036 has 42 MA's), (13, 34102), (Start: 14 @34123 has 14 MA's), (15, 34141), (21, 34180), (22, 34192), (26, 34249), (30, 34309), (38, 34429),

Gene: HanKaySha_73 Start: 46880, Stop: 47254, Start Num: 8
Candidate Starts for HanKaySha_73:
(Start: 8 @46880 has 82 MA's), (Start: 9 @46886 has 40 MA's), (16, 46958), (23, 47018), (35, 47186),

Gene: Harella_73 Start: 48429, Stop: 48806, Start Num: 8
Candidate Starts for Harella_73:
(Start: 8 @48429 has 82 MA's), (Start: 9 @48435 has 40 MA's), (16, 48507), (23, 48567), (35, 48738),

Gene: Henry_71 Start: 47217, Stop: 47594, Start Num: 8
Candidate Starts for Henry_71:
(Start: 8 @47217 has 82 MA's), (Start: 9 @47223 has 40 MA's), (16, 47295), (23, 47355), (35, 47526),

Gene: Highbury_72 Start: 46868, Stop: 47242, Start Num: 8
Candidate Starts for Highbury_72:
(Start: 8 @46868 has 82 MA's), (Start: 9 @46874 has 40 MA's), (16, 46946), (23, 47006), (35, 47174),

Gene: Holt_78 Start: 47990, Stop: 48367, Start Num: 8
Candidate Starts for Holt_78:
(Start: 8 @47990 has 82 MA's), (Start: 9 @47996 has 40 MA's), (16, 48068), (23, 48128), (35, 48299),

Gene: Hoonter_76 Start: 47576, Stop: 47953, Start Num: 8
Candidate Starts for Hoonter_76:
(Start: 8 @47576 has 82 MA's), (Start: 9 @47582 has 40 MA's), (16, 47654), (23, 47714), (35, 47885),

Gene: Hopey_73 Start: 47412, Stop: 47786, Start Num: 8
Candidate Starts for Hopey_73:
(Start: 8 @47412 has 82 MA's), (Start: 9 @47418 has 40 MA's), (16, 47490), (23, 47550), (35, 47718),

Gene: HufflyPuff_76 Start: 48245, Stop: 48619, Start Num: 8
Candidate Starts for HufflyPuff_76:

(Start: 8 @48245 has 82 MA's), (Start: 9 @48251 has 40 MA's), (16, 48323), (23, 48383), (35, 48551),

Gene: IHOP_71 Start: 47341, Stop: 47718, Start Num: 8

Candidate Starts for IHOP_71:

(Start: 8 @47341 has 82 MA's), (Start: 9 @47347 has 40 MA's), (16, 47419), (23, 47479), (35, 47650),

Gene: Icee_74 Start: 47246, Stop: 47617, Start Num: 9

Candidate Starts for Icee_74:

(Start: 8 @47240 has 82 MA's), (Start: 9 @47246 has 40 MA's), (16, 47318), (23, 47378), (35, 47549),

Gene: Inca_70 Start: 45869, Stop: 46243, Start Num: 8

Candidate Starts for Inca_70:

(Start: 8 @45869 has 82 MA's), (Start: 9 @45875 has 40 MA's), (16, 45947), (23, 46007), (35, 46175),

Gene: Itos_44 Start: 34253, Stop: 34678, Start Num: 3

Candidate Starts for Itos_44:

(Start: 3 @34253 has 10 MA's), (Start: 5 @34262 has 42 MA's), (Start: 14 @34349 has 14 MA's), (15, 34367), (19, 34394), (20, 34397), (26, 34472), (27, 34484), (33, 34592), (38, 34655),

Gene: JeTaime_73 Start: 48064, Stop: 48435, Start Num: 8

Candidate Starts for JeTaime_73:

(Start: 8 @48064 has 82 MA's), (Start: 9 @48070 has 40 MA's), (16, 48142), (23, 48196), (35, 48367),

Gene: Jobypre_42 Start: 35730, Stop: 36053, Start Num: 14

Candidate Starts for Jobypre_42:

(Start: 2 @35625 has 3 MA's), (Start: 3 @35637 has 10 MA's), (Start: 5 @35646 has 42 MA's), (Start: 14 @35730 has 14 MA's), (15, 35748), (17, 35766), (19, 35775), (28, 35892), (38, 36030),

Gene: JoeDirt_42 Start: 33993, Stop: 34409, Start Num: 5

Candidate Starts for JoeDirt_42:

(Start: 2 @33972 has 3 MA's), (Start: 5 @33993 has 42 MA's), (13, 34059), (Start: 14 @34080 has 14 MA's), (15, 34098), (21, 34137), (22, 34149), (26, 34206), (30, 34266), (38, 34386),

Gene: Jubie_42 Start: 35647, Stop: 36054, Start Num: 5

Candidate Starts for Jubie_42:

(Start: 2 @35626 has 3 MA's), (Start: 3 @35638 has 10 MA's), (Start: 5 @35647 has 42 MA's), (Start: 14 @35731 has 14 MA's), (15, 35749), (17, 35767), (19, 35776), (28, 35893), (38, 36031),

Gene: Kahlid_45 Start: 35362, Stop: 35778, Start Num: 5

Candidate Starts for Kahlid_45:

(Start: 3 @35353 has 10 MA's), (Start: 5 @35362 has 42 MA's), (Start: 14 @35449 has 14 MA's), (15, 35467), (19, 35494), (20, 35497), (26, 35572), (27, 35584), (33, 35692), (38, 35755),

Gene: Kanye_70 Start: 46922, Stop: 47299, Start Num: 8

Candidate Starts for Kanye_70:

(Start: 8 @46922 has 82 MA's), (Start: 9 @46928 has 40 MA's), (16, 47000), (23, 47060), (35, 47231),

Gene: Kimchi_77 Start: 47579, Stop: 47956, Start Num: 8

Candidate Starts for Kimchi_77:

(Start: 8 @47579 has 82 MA's), (Start: 9 @47585 has 40 MA's), (16, 47657), (23, 47717), (35, 47888),

Gene: Kingsolomon_42 Start: 35730, Stop: 36053, Start Num: 14

Candidate Starts for Kingsolomon_42:

(Start: 2 @35625 has 3 MA's), (Start: 3 @35637 has 10 MA's), (Start: 5 @35646 has 42 MA's), (Start: 14 @35730 has 14 MA's), (15, 35748), (17, 35766), (19, 35775), (28, 35892), (38, 36030),

Gene: KirDoubleO7_40 Start: 35758, Stop: 36081, Start Num: 14

Candidate Starts for KirDoubleO7_40:

(Start: 2 @35650 has 3 MA's), (Start: 3 @35662 has 10 MA's), (Start: 5 @35671 has 42 MA's), (6, 35674), (Start: 14 @35758 has 14 MA's), (15, 35776), (17, 35794), (19, 35803), (28, 35920), (38, 36058),

Gene: Kostya_73 Start: 47446, Stop: 47817, Start Num: 9

Candidate Starts for Kostya_73:

(Start: 8 @47440 has 82 MA's), (Start: 9 @47446 has 40 MA's), (16, 47518), (23, 47578), (35, 47749),

Gene: Kropertea_42 Start: 34315, Stop: 34599, Start Num: 19

Candidate Starts for Kropertea_42:

(Start: 2 @34165 has 3 MA's), (Start: 3 @34177 has 10 MA's), (Start: 4 @34180 has 4 MA's), (Start: 14 @34270 has 14 MA's), (15, 34288), (19, 34315), (26, 34393), (31, 34465), (38, 34576),

Gene: Krypton555_42 Start: 35542, Stop: 35970, Start Num: 2

Candidate Starts for Krypton555_42:

(Start: 2 @35542 has 3 MA's), (Start: 3 @35554 has 10 MA's), (Start: 5 @35563 has 42 MA's), (Start: 14 @35647 has 14 MA's), (15, 35665), (17, 35683), (19, 35692), (28, 35809), (38, 35947),

Gene: Labelle_59 Start: 43035, Stop: 43403, Start Num: 10

Candidate Starts for Labelle_59:

(Start: 10 @43035 has 3 MA's), (12, 43056), (24, 43164), (25, 43173), (31, 43269), (32, 43296),

Gene: LeBron_43 Start: 34037, Stop: 34453, Start Num: 5

Candidate Starts for LeBron_43:

(Start: 2 @34016 has 3 MA's), (Start: 5 @34037 has 42 MA's), (13, 34103), (Start: 14 @34124 has 14 MA's), (15, 34142), (21, 34181), (22, 34193), (26, 34250), (30, 34310), (38, 34430),

Gene: Lewan_45 Start: 35349, Stop: 35765, Start Num: 5

Candidate Starts for Lewan_45:

(Start: 3 @35340 has 10 MA's), (Start: 5 @35349 has 42 MA's), (Start: 14 @35436 has 14 MA's), (15, 35454), (19, 35481), (20, 35484), (26, 35559), (27, 35571), (33, 35679), (38, 35742),

Gene: LilDestine_45 Start: 35354, Stop: 35770, Start Num: 5

Candidate Starts for LilDestine_45:

(Start: 3 @35345 has 10 MA's), (Start: 5 @35354 has 42 MA's), (Start: 14 @35441 has 14 MA's), (15, 35459), (19, 35486), (20, 35489), (26, 35564), (27, 35576), (33, 35684), (38, 35747),

Gene: Lilac_75 Start: 47197, Stop: 47571, Start Num: 8

Candidate Starts for Lilac_75:

(Start: 8 @47197 has 82 MA's), (Start: 9 @47203 has 40 MA's), (16, 47275), (23, 47335), (35, 47503),

Gene: Lilizi_74 Start: 46910, Stop: 47284, Start Num: 8

Candidate Starts for Lilizi_74:

(Start: 8 @46910 has 82 MA's), (Start: 9 @46916 has 40 MA's), (16, 46988), (23, 47048), (35, 47216),

Gene: Lilpickle_72 Start: 46795, Stop: 47169, Start Num: 8

Candidate Starts for Lilpickle_72:

(Start: 8 @46795 has 82 MA's), (Start: 9 @46801 has 40 MA's), (16, 46873), (23, 46933), (35, 47101),

Gene: LiyuLake_42 Start: 35720, Stop: 36043, Start Num: 14

Candidate Starts for LiyuLake_42:

(Start: 2 @35612 has 3 MA's), (Start: 3 @35624 has 10 MA's), (Start: 5 @35633 has 42 MA's), (6, 35636), (Start: 14 @35720 has 14 MA's), (15, 35738), (17, 35756), (19, 35765), (28, 35882), (38, 36020),

Gene: Loadrie_44 Start: 35379, Stop: 35804, Start Num: 3

Candidate Starts for Loadrie_44:

(Start: 3 @35379 has 10 MA's), (Start: 5 @35388 has 42 MA's), (Start: 14 @35475 has 14 MA's), (15, 35493), (19, 35520), (20, 35523), (26, 35598), (27, 35610), (33, 35718), (38, 35781),

Gene: Lolly9_42 Start: 35541, Stop: 35864, Start Num: 14

Candidate Starts for Lolly9_42:

(Start: 2 @35436 has 3 MA's), (Start: 5 @35457 has 42 MA's), (Start: 14 @35541 has 14 MA's), (15, 35559), (17, 35577), (19, 35586), (28, 35703), (38, 35841),

Gene: Lumos_42 Start: 35643, Stop: 36050, Start Num: 5

Candidate Starts for Lumos_42:

(Start: 2 @35622 has 3 MA's), (Start: 3 @35634 has 10 MA's), (Start: 5 @35643 has 42 MA's), (Start: 14 @35727 has 14 MA's), (15, 35745), (17, 35763), (19, 35772), (28, 35889), (38, 36027),

Gene: Lynnae_45 Start: 35432, Stop: 35761, Start Num: 14

Candidate Starts for Lynnae_45:

(Start: 3 @35336 has 10 MA's), (Start: 5 @35345 has 42 MA's), (Start: 14 @35432 has 14 MA's), (15, 35450), (19, 35477), (20, 35480), (26, 35555), (27, 35567), (33, 35675), (38, 35738),

Gene: MAckerman_43 Start: 34117, Stop: 34446, Start Num: 14

Candidate Starts for MAckerman_43:

(Start: 2 @34009 has 3 MA's), (Start: 5 @34030 has 42 MA's), (13, 34096), (Start: 14 @34117 has 14 MA's), (15, 34135), (21, 34174), (22, 34186), (26, 34243), (30, 34303), (38, 34423),

Gene: MISSy_74 Start: 47301, Stop: 47675, Start Num: 8

Candidate Starts for MISSy_74:

(Start: 8 @47301 has 82 MA's), (Start: 9 @47307 has 40 MA's), (16, 47379), (23, 47439), (35, 47607),

Gene: MPhalcon_74 Start: 47294, Stop: 47668, Start Num: 8

Candidate Starts for MPhalcon_74:

(Start: 8 @47294 has 82 MA's), (Start: 9 @47300 has 40 MA's), (16, 47372), (23, 47432), (35, 47600),

Gene: MadamMonkfish_73 Start: 46525, Stop: 46893, Start Num: 9

Candidate Starts for MadamMonkfish_73:

(Start: 8 @46519 has 82 MA's), (Start: 9 @46525 has 40 MA's), (16, 46597), (23, 46657), (35, 46825),

Gene: Madruga_58 Start: 42688, Stop: 43056, Start Num: 10

Candidate Starts for Madruga_58:

(Start: 10 @42688 has 3 MA's), (24, 42817), (25, 42826), (31, 42922), (32, 42949),

Gene: Manda_74 Start: 48378, Stop: 48755, Start Num: 8

Candidate Starts for Manda_74:

(Start: 8 @48378 has 82 MA's), (Start: 9 @48384 has 40 MA's), (16, 48456), (23, 48516), (35, 48687),

Gene: Marshmallow_71 Start: 48077, Stop: 48448, Start Num: 9

Candidate Starts for Marshmallow_71:

(Start: 8 @48071 has 82 MA's), (Start: 9 @48077 has 40 MA's), (16, 48149), (23, 48209), (35, 48380),

Gene: Maxxinista_75 Start: 47176, Stop: 47544, Start Num: 9

Candidate Starts for Maxxinista_75:

(Start: 8 @47170 has 82 MA's), (Start: 9 @47176 has 40 MA's), (16, 47248), (23, 47308), (35, 47476),

Gene: Miley16_45 Start: 35347, Stop: 35772, Start Num: 3

Candidate Starts for Miley16_45:

(Start: 3 @35347 has 10 MA's), (Start: 5 @35356 has 42 MA's), (Start: 14 @35443 has 14 MA's), (15, 35461), (19, 35488), (20, 35491), (26, 35566), (27, 35578), (33, 35686), (38, 35749),

Gene: Mindy_72 Start: 46383, Stop: 46760, Start Num: 8

Candidate Starts for Mindy_72:

(Start: 8 @46383 has 82 MA's), (Start: 9 @46389 has 40 MA's), (16, 46461), (23, 46521), (35, 46692),

Gene: MiniLon_42 Start: 35458, Stop: 35865, Start Num: 5

Candidate Starts for MiniLon_42:

(Start: 2 @35437 has 3 MA's), (Start: 5 @35458 has 42 MA's), (Start: 14 @35542 has 14 MA's), (15, 35560), (17, 35578), (19, 35587), (28, 35704), (38, 35842),

Gene: MiniMac_42 Start: 35455, Stop: 35862, Start Num: 5

Candidate Starts for MiniMac_42:

(Start: 2 @35434 has 3 MA's), (Start: 5 @35455 has 42 MA's), (Start: 14 @35539 has 14 MA's), (15, 35557), (17, 35575), (19, 35584), (28, 35701), (38, 35839),

Gene: Miniwave_68 Start: 46836, Stop: 47213, Start Num: 8

Candidate Starts for Miniwave_68:

(Start: 8 @46836 has 82 MA's), (Start: 9 @46842 has 40 MA's), (16, 46914), (23, 46974), (35, 47145),

Gene: Misfit_74 Start: 48313, Stop: 48687, Start Num: 8

Candidate Starts for Misfit_74:

(Start: 8 @48313 has 82 MA's), (Start: 9 @48319 has 40 MA's), (16, 48391), (23, 48451), (35, 48619),

Gene: MkaliMitinis3_45 Start: 35358, Stop: 35774, Start Num: 5

Candidate Starts for MkaliMitinis3_45:

(Start: 3 @35349 has 10 MA's), (Start: 5 @35358 has 42 MA's), (Start: 14 @35445 has 14 MA's), (15, 35463), (19, 35490), (20, 35493), (26, 35568), (27, 35580), (33, 35688), (38, 35751),

Gene: Moldemort_76 Start: 47395, Stop: 47772, Start Num: 8

Candidate Starts for Moldemort_76:

(Start: 8 @47395 has 82 MA's), (Start: 9 @47401 has 40 MA's), (16, 47473), (23, 47533), (35, 47704),

Gene: MollyToe_68 Start: 46152, Stop: 46514, Start Num: 9

Candidate Starts for MollyToe_68:

(Start: 8 @46146 has 82 MA's), (Start: 9 @46152 has 40 MA's), (16, 46224), (35, 46446),

Gene: Moostard_42 Start: 35732, Stop: 36055, Start Num: 14

Candidate Starts for Moostard_42:

(Start: 2 @35627 has 3 MA's), (Start: 3 @35639 has 10 MA's), (Start: 5 @35648 has 42 MA's), (Start: 14 @35732 has 14 MA's), (15, 35750), (17, 35768), (19, 35777), (28, 35894), (38, 36032),

Gene: Mosby_69 Start: 46596, Stop: 46970, Start Num: 8

Candidate Starts for Mosby_69:

(Start: 8 @46596 has 82 MA's), (Start: 9 @46602 has 40 MA's), (16, 46674), (23, 46734), (35, 46902),

Gene: MsGreen_42 Start: 35625, Stop: 36053, Start Num: 2

Candidate Starts for MsGreen_42:

(Start: 2 @35625 has 3 MA's), (Start: 3 @35637 has 10 MA's), (Start: 5 @35646 has 42 MA's), (Start: 14 @35730 has 14 MA's), (15, 35748), (17, 35766), (19, 35775), (28, 35892), (38, 36030),

Gene: Murica_76 Start: 48251, Stop: 48619, Start Num: 9

Candidate Starts for Murica_76:

(Start: 8 @48245 has 82 MA's), (Start: 9 @48251 has 40 MA's), (16, 48323), (23, 48383), (35, 48551),

Gene: Murphy_73 Start: 47688, Stop: 48056, Start Num: 9

Candidate Starts for Murphy_73:

(Start: 8 @47682 has 82 MA's), (Start: 9 @47688 has 40 MA's), (16, 47760), (23, 47820), (35, 47988),

Gene: Myrale_73 Start: 47936, Stop: 48313, Start Num: 8

Candidate Starts for Myrale_73:

(Start: 8 @47936 has 82 MA's), (Start: 9 @47942 has 40 MA's), (16, 48014), (23, 48074), (35, 48245),

Gene: Nala_75 Start: 47812, Stop: 48177, Start Num: 9

Candidate Starts for Nala_75:

(Start: 8 @47806 has 82 MA's), (Start: 9 @47812 has 40 MA's), (16, 47884), (23, 47938), (35, 48109),

Gene: NelitzaMV_71 Start: 46888, Stop: 47259, Start Num: 9

Candidate Starts for NelitzaMV_71:

(Start: 8 @46882 has 82 MA's), (Start: 9 @46888 has 40 MA's), (16, 46960), (23, 47020), (35, 47191),

Gene: Netyap_45 Start: 35356, Stop: 35772, Start Num: 5

Candidate Starts for Netyap_45:

(Start: 3 @35347 has 10 MA's), (Start: 5 @35356 has 42 MA's), (Start: 14 @35443 has 14 MA's), (15, 35461), (19, 35488), (20, 35491), (26, 35566), (27, 35578), (33, 35686), (38, 35749),

Gene: Nicholas_42 Start: 35730, Stop: 36053, Start Num: 14

Candidate Starts for Nicholas_42:

(Start: 2 @35625 has 3 MA's), (Start: 3 @35637 has 10 MA's), (Start: 5 @35646 has 42 MA's), (Start: 14 @35730 has 14 MA's), (15, 35748), (17, 35766), (19, 35775), (28, 35892), (38, 36030),

Gene: Nicholasp3_45 Start: 35348, Stop: 35773, Start Num: 3

Candidate Starts for Nicholasp3_45:

(Start: 3 @35348 has 10 MA's), (Start: 5 @35357 has 42 MA's), (Start: 14 @35444 has 14 MA's), (15, 35462), (19, 35489), (20, 35492), (26, 35567), (27, 35579), (33, 35687), (38, 35750),

Gene: Nimrod_74 Start: 48509, Stop: 48880, Start Num: 9

Candidate Starts for Nimrod_74:

(Start: 8 @48503 has 82 MA's), (Start: 9 @48509 has 40 MA's), (16, 48581), (23, 48641), (35, 48812),

Gene: NoSleep_74 Start: 47140, Stop: 47514, Start Num: 8

Candidate Starts for NoSleep_74:

(Start: 8 @47140 has 82 MA's), (Start: 9 @47146 has 40 MA's), (16, 47218), (23, 47278), (35, 47446),

Gene: NonchalantPear_71 Start: 46996, Stop: 47367, Start Num: 9

Candidate Starts for NonchalantPear_71:

(Start: 8 @46990 has 82 MA's), (Start: 9 @46996 has 40 MA's), (16, 47068), (23, 47128), (35, 47299),

Gene: OhShagHennessy_42 Start: 33983, Stop: 34399, Start Num: 5

Candidate Starts for OhShagHennessy_42:

(Start: 2 @33962 has 3 MA's), (Start: 5 @33983 has 42 MA's), (13, 34049), (Start: 14 @34070 has 14 MA's), (15, 34088), (21, 34127), (22, 34139), (26, 34196), (30, 34256), (38, 34376),

Gene: OrionPax_72 Start: 46894, Stop: 47265, Start Num: 9

Candidate Starts for OrionPax_72:

(Start: 8 @46888 has 82 MA's), (Start: 9 @46894 has 40 MA's), (16, 46966), (23, 47026), (29, 47125), (35, 47197),

Gene: OverPar_46 Start: 35475, Stop: 35804, Start Num: 14

Candidate Starts for OverPar_46:

(Start: 3 @35379 has 10 MA's), (Start: 5 @35388 has 42 MA's), (Start: 14 @35475 has 14 MA's), (15, 35493), (19, 35520), (20, 35523), (26, 35598), (27, 35610), (33, 35718), (38, 35781),

Gene: PYPDinur_41 Start: 34231, Stop: 34560, Start Num: 14

Candidate Starts for PYPDinur_41:

(Start: 2 @34126 has 3 MA's), (Start: 3 @34138 has 10 MA's), (Start: 4 @34141 has 4 MA's), (Start: 14 @34231 has 14 MA's), (15, 34249), (19, 34276), (20, 34279), (26, 34354), (27, 34366), (33, 34474), (38, 34537), (39, 34552),

Gene: PaddyBaddy_73 Start: 46900, Stop: 47268, Start Num: 9

Candidate Starts for PaddyBaddy_73:

(Start: 8 @46894 has 82 MA's), (Start: 9 @46900 has 40 MA's), (16, 46972), (23, 47032), (35, 47200),

Gene: Palpatine_75 Start: 48272, Stop: 48646, Start Num: 8

Candidate Starts for Palpatine_75:

(Start: 8 @48272 has 82 MA's), (Start: 9 @48278 has 40 MA's), (16, 48350), (23, 48410), (35, 48578),

Gene: Paperbeatsrock_72 Start: 47514, Stop: 47891, Start Num: 8

Candidate Starts for Paperbeatsrock_72:

(Start: 8 @47514 has 82 MA's), (Start: 9 @47520 has 40 MA's), (16, 47592), (23, 47652), (35, 47823),

Gene: Pat3_71 Start: 46046, Stop: 46423, Start Num: 8

Candidate Starts for Pat3_71:

(Start: 8 @46046 has 82 MA's), (Start: 9 @46052 has 40 MA's), (16, 46124), (23, 46184), (29, 46283), (35, 46355),

Gene: Patience_60 Start: 43583, Stop: 43951, Start Num: 10

Candidate Starts for Patience_60:

(Start: 10 @43583 has 3 MA's), (12, 43604), (24, 43712), (25, 43721), (31, 43817), (32, 43844), (37, 43901),

Gene: Petra64142_77 Start: 48748, Stop: 49110, Start Num: 9

Candidate Starts for Petra64142_77:

(Start: 8 @48742 has 82 MA's), (Start: 9 @48748 has 40 MA's), (16, 48820), (35, 49042),

Gene: Phaja_71 Start: 47340, Stop: 47717, Start Num: 8

Candidate Starts for Phaja_71:

(Start: 8 @47340 has 82 MA's), (Start: 9 @47346 has 40 MA's), (16, 47418), (23, 47478), (35, 47649),

Gene: Pharsalus_70 Start: 47314, Stop: 47691, Start Num: 8
Candidate Starts for Pharsalus_70:
(Start: 8 @47314 has 82 MA's), (Start: 9 @47320 has 40 MA's), (16, 47392), (23, 47452), (35, 47623),

Gene: PhatBacter_77 Start: 48289, Stop: 48663, Start Num: 8
Candidate Starts for PhatBacter_77:
(Start: 8 @48289 has 82 MA's), (Start: 9 @48295 has 40 MA's), (16, 48367), (23, 48427), (35, 48595),

Gene: Phaux_75 Start: 48284, Stop: 48658, Start Num: 8
Candidate Starts for Phaux_75:
(Start: 8 @48284 has 82 MA's), (Start: 9 @48290 has 40 MA's), (16, 48362), (23, 48422), (35, 48590),

Gene: Phrux_70 Start: 46880, Stop: 47254, Start Num: 8
Candidate Starts for Phrux_70:
(Start: 8 @46880 has 82 MA's), (Start: 9 @46886 has 40 MA's), (16, 46958), (23, 47018), (35, 47186),

Gene: Policronamos_76 Start: 48284, Stop: 48658, Start Num: 8
Candidate Starts for Policronamos_76:
(Start: 8 @48284 has 82 MA's), (Start: 9 @48290 has 40 MA's), (16, 48362), (23, 48422), (35, 48590),

Gene: Porky_72 Start: 46716, Stop: 47084, Start Num: 9
Candidate Starts for Porky_72:
(Start: 8 @46710 has 82 MA's), (Start: 9 @46716 has 40 MA's), (16, 46788), (23, 46848), (35, 47016),

Gene: Ptowny_70 Start: 46176, Stop: 46553, Start Num: 8
Candidate Starts for Ptowny_70:
(Start: 8 @46176 has 82 MA's), (Start: 9 @46182 has 40 MA's), (16, 46254), (23, 46314), (35, 46485),

Gene: Pumpkin_76 Start: 47944, Stop: 48312, Start Num: 9
Candidate Starts for Pumpkin_76:
(Start: 8 @47938 has 82 MA's), (Start: 9 @47944 has 40 MA's), (16, 48016), (23, 48076), (35, 48244),

Gene: Quallification_74 Start: 47922, Stop: 48299, Start Num: 8
Candidate Starts for Quallification_74:
(Start: 8 @47922 has 82 MA's), (Start: 9 @47928 has 40 MA's), (16, 48000), (23, 48060), (35, 48231),

Gene: Quby_43 Start: 34125, Stop: 34448, Start Num: 14
Candidate Starts for Quby_43:
(Start: 2 @34020 has 3 MA's), (Start: 3 @34032 has 10 MA's), (Start: 4 @34035 has 4 MA's), (7, 34050), (Start: 14 @34125 has 14 MA's), (15, 34143), (19, 34170), (20, 34173), (26, 34251), (31, 34314), (36, 34377), (38, 34425),

Gene: Red305_42 Start: 35730, Stop: 36053, Start Num: 14
Candidate Starts for Red305_42:
(Start: 2 @35625 has 3 MA's), (Start: 3 @35637 has 10 MA's), (Start: 5 @35646 has 42 MA's), (Start: 14 @35730 has 14 MA's), (15, 35748), (17, 35766), (19, 35775), (28, 35892), (38, 36030),

Gene: Rimmer_74 Start: 47642, Stop: 48004, Start Num: 9
Candidate Starts for Rimmer_74:
(Start: 8 @47636 has 82 MA's), (Start: 9 @47642 has 40 MA's), (16, 47714), (35, 47936),

Gene: RiverMonster_73 Start: 47458, Stop: 47832, Start Num: 8
Candidate Starts for RiverMonster_73:

(Start: 8 @47458 has 82 MA's), (Start: 9 @47464 has 40 MA's), (16, 47536), (23, 47596), (35, 47764),

Gene: Rose5_42 Start: 34025, Stop: 34441, Start Num: 5

Candidate Starts for Rose5_42:

(Start: 2 @34004 has 3 MA's), (Start: 5 @34025 has 42 MA's), (13, 34091), (Start: 14 @34112 has 14 MA's), (15, 34130), (21, 34169), (22, 34181), (26, 34238), (30, 34298), (38, 34418),

Gene: Rossetti_46 Start: 36009, Stop: 36320, Start Num: 15

Candidate Starts for Rossetti_46:

(Start: 3 @35895 has 10 MA's), (Start: 5 @35904 has 42 MA's), (Start: 14 @35991 has 14 MA's), (15, 36009), (19, 36036), (20, 36039), (26, 36114), (27, 36126), (33, 36234), (38, 36297),

Gene: Rumpelstiltskin_45 Start: 35623, Stop: 36039, Start Num: 5

Candidate Starts for Rumpelstiltskin_45:

(Start: 3 @35614 has 10 MA's), (Start: 5 @35623 has 42 MA's), (Start: 14 @35710 has 14 MA's), (15, 35728), (19, 35755), (20, 35758), (26, 35833), (27, 35845), (33, 35953), (36, 35968), (38, 36016),

Gene: Saints25_72 Start: 46868, Stop: 47242, Start Num: 8

Candidate Starts for Saints25_72:

(Start: 8 @46868 has 82 MA's), (Start: 9 @46874 has 40 MA's), (16, 46946), (23, 47006), (35, 47174),

Gene: Samty_42 Start: 35731, Stop: 36054, Start Num: 14

Candidate Starts for Samty_42:

(Start: 2 @35626 has 3 MA's), (Start: 3 @35638 has 10 MA's), (Start: 5 @35647 has 42 MA's), (Start: 14 @35731 has 14 MA's), (15, 35749), (17, 35767), (19, 35776), (28, 35893), (38, 36031),

Gene: Sarshaun_45 Start: 35477, Stop: 35806, Start Num: 14

Candidate Starts for Sarshaun_45:

(Start: 3 @35381 has 10 MA's), (Start: 5 @35390 has 42 MA's), (Start: 14 @35477 has 14 MA's), (15, 35495), (19, 35522), (20, 35525), (26, 35600), (27, 35612), (33, 35720), (38, 35783),

Gene: Sassay_68 Start: 45564, Stop: 45932, Start Num: 9

Candidate Starts for Sassay_68:

(Start: 8 @45558 has 82 MA's), (Start: 9 @45564 has 40 MA's), (16, 45636), (23, 45696), (35, 45864),

Gene: ShamWow_73 Start: 47777, Stop: 48154, Start Num: 8

Candidate Starts for ShamWow_73:

(Start: 8 @47777 has 82 MA's), (Start: 9 @47783 has 40 MA's), (16, 47855), (23, 47915), (35, 48086),

Gene: Sheng711_43 Start: 34231, Stop: 34560, Start Num: 14

Candidate Starts for Sheng711_43:

(Start: 2 @34126 has 3 MA's), (Start: 3 @34138 has 10 MA's), (Start: 4 @34141 has 4 MA's), (Start: 14 @34231 has 14 MA's), (15, 34249), (19, 34276), (20, 34279), (26, 34354), (27, 34366), (33, 34474), (38, 34537), (39, 34552),

Gene: ShereKhan_72 Start: 47846, Stop: 48223, Start Num: 8

Candidate Starts for ShereKhan_72:

(Start: 8 @47846 has 82 MA's), (Start: 9 @47852 has 40 MA's), (16, 47924), (23, 47984), (35, 48155),

Gene: Silverleaf_42 Start: 34025, Stop: 34441, Start Num: 5

Candidate Starts for Silverleaf_42:

(Start: 2 @34004 has 3 MA's), (Start: 5 @34025 has 42 MA's), (13, 34091), (Start: 14 @34112 has 14 MA's), (15, 34130), (21, 34169), (22, 34181), (26, 34238), (30, 34298), (38, 34418),

Gene: Simpliphy_72 Start: 46864, Stop: 47232, Start Num: 9

Candidate Starts for Simpliphy_72:

(Start: 8 @46858 has 82 MA's), (Start: 9 @46864 has 40 MA's), (16, 46936), (23, 46996), (35, 47164),

Gene: Snenia_42 Start: 35731, Stop: 36054, Start Num: 14

Candidate Starts for Snenia_42:

(Start: 2 @35626 has 3 MA's), (Start: 3 @35638 has 10 MA's), (Start: 5 @35647 has 42 MA's), (Start: 14 @35731 has 14 MA's), (15, 35749), (17, 35767), (19, 35776), (28, 35893), (38, 36031),

Gene: SoJulia_46 Start: 35703, Stop: 36032, Start Num: 14

Candidate Starts for SoJulia_46:

(Start: 3 @35607 has 10 MA's), (Start: 5 @35616 has 42 MA's), (Start: 14 @35703 has 14 MA's), (15, 35721), (19, 35748), (20, 35751), (26, 35826), (27, 35838), (33, 35946), (38, 36009),

Gene: Soap141_45 Start: 35477, Stop: 35806, Start Num: 14

Candidate Starts for Soap141_45:

(Start: 3 @35381 has 10 MA's), (Start: 5 @35390 has 42 MA's), (Start: 14 @35477 has 14 MA's), (15, 35495), (19, 35522), (20, 35525), (26, 35600), (27, 35612), (33, 35720), (38, 35783),

Gene: SophKB_70 Start: 46533, Stop: 46910, Start Num: 8

Candidate Starts for SophKB_70:

(Start: 8 @46533 has 82 MA's), (Start: 9 @46539 has 40 MA's), (16, 46611), (23, 46671), (35, 46842),

Gene: Sotrice96_74 Start: 47536, Stop: 47913, Start Num: 8

Candidate Starts for Sotrice96_74:

(Start: 8 @47536 has 82 MA's), (Start: 9 @47542 has 40 MA's), (16, 47614), (23, 47674), (35, 47845),

Gene: Stank_76 Start: 47794, Stop: 48171, Start Num: 8

Candidate Starts for Stank_76:

(Start: 8 @47794 has 82 MA's), (Start: 9 @47800 has 40 MA's), (16, 47872), (23, 47932), (35, 48103),

Gene: Stark_74 Start: 47341, Stop: 47715, Start Num: 8

Candidate Starts for Stark_74:

(Start: 8 @47341 has 82 MA's), (Start: 9 @47347 has 40 MA's), (16, 47419), (23, 47479), (35, 47647),

Gene: StellaBean_71 Start: 47107, Stop: 47478, Start Num: 9

Candidate Starts for StellaBean_71:

(Start: 8 @47101 has 82 MA's), (Start: 9 @47107 has 40 MA's), (16, 47179), (23, 47239), (35, 47410),

Gene: StolenFromERC_76 Start: 47576, Stop: 47953, Start Num: 8

Candidate Starts for StolenFromERC_76:

(Start: 8 @47576 has 82 MA's), (Start: 9 @47582 has 40 MA's), (16, 47654), (23, 47714), (35, 47885),

Gene: StormChicken_75 Start: 48243, Stop: 48611, Start Num: 8

Candidate Starts for StormChicken_75:

(Start: 8 @48243 has 82 MA's), (Start: 9 @48249 has 40 MA's), (16, 48321), (35, 48543),

Gene: SuperSonics_61 Start: 42729, Stop: 43097, Start Num: 10

Candidate Starts for SuperSonics_61:

(Start: 10 @42729 has 3 MA's), (12, 42750), (24, 42858), (25, 42867), (31, 42963), (32, 42990),

Gene: TBrady12_76 Start: 47275, Stop: 47652, Start Num: 8

Candidate Starts for TBrady12_76:

(Start: 8 @47275 has 82 MA's), (Start: 9 @47281 has 40 MA's), (16, 47353), (23, 47413), (35, 47584),

Gene: Tarkin_72 Start: 47523, Stop: 47900, Start Num: 8

Candidate Starts for Tarkin_72:

(Start: 8 @47523 has 82 MA's), (Start: 9 @47529 has 40 MA's), (16, 47601), (23, 47661), (35, 47832),

Gene: TeardropMSU_69 Start: 46523, Stop: 46900, Start Num: 8

Candidate Starts for TeardropMSU_69:

(Start: 8 @46523 has 82 MA's), (Start: 9 @46529 has 40 MA's), (16, 46601), (23, 46661), (35, 46832),

Gene: Teaspoon_74 Start: 47423, Stop: 47794, Start Num: 9

Candidate Starts for Teaspoon_74:

(Start: 8 @47417 has 82 MA's), (Start: 9 @47423 has 40 MA's), (16, 47495), (23, 47555), (35, 47726),

Gene: Terminus_76 Start: 48319, Stop: 48687, Start Num: 9

Candidate Starts for Terminus_76:

(Start: 8 @48313 has 82 MA's), (Start: 9 @48319 has 40 MA's), (16, 48391), (23, 48451), (35, 48619),

Gene: Thimble_74 Start: 46764, Stop: 47135, Start Num: 9

Candidate Starts for Thimble_74:

(Start: 8 @46758 has 82 MA's), (Start: 9 @46764 has 40 MA's), (16, 46836), (23, 46896), (35, 47067),

Gene: Thresher_75 Start: 48406, Stop: 48774, Start Num: 9

Candidate Starts for Thresher_75:

(Start: 8 @48400 has 82 MA's), (Start: 9 @48406 has 40 MA's), (16, 48478), (23, 48538), (35, 48706),

Gene: Toto_71 Start: 47777, Stop: 48154, Start Num: 8

Candidate Starts for Toto_71:

(Start: 8 @47777 has 82 MA's), (Start: 9 @47783 has 40 MA's), (16, 47855), (23, 47915), (35, 48086),

Gene: Tourach_44 Start: 35371, Stop: 35784, Start Num: 5

Candidate Starts for Tourach_44:

(Start: 3 @35362 has 10 MA's), (Start: 5 @35371 has 42 MA's), (Start: 14 @35458 has 14 MA's), (15, 35476), (19, 35503), (20, 35506), (26, 35581), (38, 35761),

Gene: Traaww1_69 Start: 46961, Stop: 47338, Start Num: 8

Candidate Starts for Traaww1_69:

(Start: 8 @46961 has 82 MA's), (Start: 9 @46967 has 40 MA's), (16, 47039), (23, 47099), (35, 47270),

Gene: TriFive_42 Start: 35730, Stop: 36053, Start Num: 14

Candidate Starts for TriFive_42:

(Start: 2 @35625 has 3 MA's), (Start: 3 @35637 has 10 MA's), (Start: 5 @35646 has 42 MA's), (Start: 14 @35730 has 14 MA's), (15, 35748), (17, 35766), (19, 35775), (28, 35892), (38, 36030),

Gene: Tuco_74 Start: 48285, Stop: 48662, Start Num: 8

Candidate Starts for Tuco_74:

(Start: 8 @48285 has 82 MA's), (Start: 9 @48291 has 40 MA's), (16, 48363), (23, 48423), (35, 48594),

Gene: Tyson_42 Start: 34026, Stop: 34442, Start Num: 5

Candidate Starts for Tyson_42:

(Start: 2 @34005 has 3 MA's), (Start: 5 @34026 has 42 MA's), (13, 34092), (Start: 14 @34113 has 14 MA's), (15, 34131), (21, 34170), (22, 34182), (26, 34239), (30, 34299), (34, 34365), (38, 34419),

Gene: UPIE_43 Start: 34009, Stop: 34425, Start Num: 5

Candidate Starts for UPIE_43:

(Start: 2 @33988 has 3 MA's), (Start: 5 @34009 has 42 MA's), (13, 34075), (Start: 14 @34096 has 14 MA's), (15, 34114), (21, 34153), (22, 34165), (26, 34222), (30, 34282), (38, 34402),

Gene: Ukulele_68 Start: 46671, Stop: 47045, Start Num: 8

Candidate Starts for Ukulele_68:

(Start: 8 @46671 has 82 MA's), (Start: 9 @46677 has 40 MA's), (16, 46749), (23, 46809), (35, 46977),

Gene: Underpass_45 Start: 35357, Stop: 35773, Start Num: 5

Candidate Starts for Underpass_45:

(Start: 3 @35348 has 10 MA's), (Start: 5 @35357 has 42 MA's), (Start: 14 @35444 has 14 MA's), (15, 35462), (19, 35489), (20, 35492), (26, 35567), (27, 35579), (33, 35687), (38, 35750),

Gene: Vetric_45 Start: 35363, Stop: 35779, Start Num: 5

Candidate Starts for Vetric_45:

(Start: 3 @35354 has 10 MA's), (Start: 5 @35363 has 42 MA's), (Start: 14 @35450 has 14 MA's), (15, 35468), (19, 35495), (20, 35498), (26, 35573), (27, 35585), (33, 35693), (38, 35756),

Gene: Wamburgxpress_43 Start: 34024, Stop: 34440, Start Num: 5

Candidate Starts for Wamburgxpress_43:

(Start: 2 @34003 has 3 MA's), (Start: 5 @34024 has 42 MA's), (13, 34090), (Start: 14 @34111 has 14 MA's), (15, 34129), (21, 34168), (22, 34180), (26, 34237), (30, 34297), (38, 34417),

Gene: Whirlwind_43 Start: 35405, Stop: 35812, Start Num: 5

Candidate Starts for Whirlwind_43:

(Start: 2 @35384 has 3 MA's), (Start: 3 @35396 has 10 MA's), (Start: 5 @35405 has 42 MA's), (Start: 14 @35489 has 14 MA's), (15, 35507), (17, 35525), (19, 35534), (28, 35651), (38, 35789),

Gene: Wiggin_75 Start: 47368, Stop: 47739, Start Num: 9

Candidate Starts for Wiggin_75:

(Start: 8 @47362 has 82 MA's), (Start: 9 @47368 has 40 MA's), (16, 47440), (23, 47500), (35, 47671),

Gene: Wigglewigggle_45 Start: 35380, Stop: 35805, Start Num: 3

Candidate Starts for Wigglewigggle_45:

(Start: 3 @35380 has 10 MA's), (Start: 5 @35389 has 42 MA's), (Start: 14 @35476 has 14 MA's), (15, 35494), (19, 35521), (20, 35524), (26, 35599), (27, 35611), (33, 35719), (38, 35782),

Gene: Wilder_45 Start: 35362, Stop: 35778, Start Num: 5

Candidate Starts for Wilder_45:

(Start: 3 @35353 has 10 MA's), (Start: 5 @35362 has 42 MA's), (Start: 14 @35449 has 14 MA's), (15, 35467), (19, 35494), (20, 35497), (26, 35572), (27, 35584), (33, 35692), (38, 35755),

Gene: Willez_68 Start: 45564, Stop: 45932, Start Num: 9

Candidate Starts for Willez_68:

(Start: 8 @45558 has 82 MA's), (Start: 9 @45564 has 40 MA's), (16, 45636), (23, 45696), (35, 45864),

Gene: Winky_45 Start: 35347, Stop: 35772, Start Num: 3

Candidate Starts for Winky_45:

(Start: 3 @35347 has 10 MA's), (Start: 5 @35356 has 42 MA's), (Start: 14 @35443 has 14 MA's), (15, 35461), (19, 35488), (20, 35491), (26, 35566), (27, 35578), (33, 35686), (38, 35749),

Gene: Wyatt2_43 Start: 34025, Stop: 34441, Start Num: 5

Candidate Starts for Wyatt2_43:

(Start: 2 @34004 has 3 MA's), (Start: 5 @34025 has 42 MA's), (13, 34091), (Start: 14 @34112 has 14 MA's), (15, 34130), (21, 34169), (22, 34181), (26, 34238), (30, 34298), (38, 34418),

Gene: Xandras_72 Start: 46773, Stop: 47147, Start Num: 8

Candidate Starts for Xandras_72:

(Start: 8 @46773 has 82 MA's), (Start: 9 @46779 has 40 MA's), (16, 46851), (23, 46911), (35, 47079),

Gene: Youngblood_76 Start: 48246, Stop: 48614, Start Num: 9

Candidate Starts for Youngblood_76:

(Start: 8 @48240 has 82 MA's), (Start: 9 @48246 has 40 MA's), (16, 48318), (23, 48378), (35, 48546),

Gene: Zakai_45 Start: 35614, Stop: 36030, Start Num: 5

Candidate Starts for Zakai_45:

(Start: 3 @35605 has 10 MA's), (Start: 5 @35614 has 42 MA's), (Start: 14 @35701 has 14 MA's), (15, 35719), (19, 35746), (20, 35749), (26, 35824), (27, 35836), (33, 35944), (38, 36007),

Gene: Zaria_43 Start: 34040, Stop: 34456, Start Num: 5

Candidate Starts for Zaria_43:

(Start: 2 @34019 has 3 MA's), (Start: 5 @34040 has 42 MA's), (13, 34106), (Start: 14 @34127 has 14 MA's), (15, 34145), (21, 34184), (22, 34196), (26, 34253), (30, 34313), (38, 34433),

Gene: ZhongYanYuan_43 Start: 35304, Stop: 35633, Start Num: 14

Candidate Starts for ZhongYanYuan_43:

(Start: 3 @35208 has 10 MA's), (Start: 5 @35217 has 42 MA's), (Start: 14 @35304 has 14 MA's), (15, 35322), (19, 35349), (20, 35352), (26, 35430), (33, 35547), (38, 35610),

Gene: xkcd_76 Start: 48430, Stop: 48804, Start Num: 8

Candidate Starts for xkcd_76:

(Start: 8 @48430 has 82 MA's), (Start: 9 @48436 has 40 MA's), (16, 48508), (23, 48568), (35, 48736),