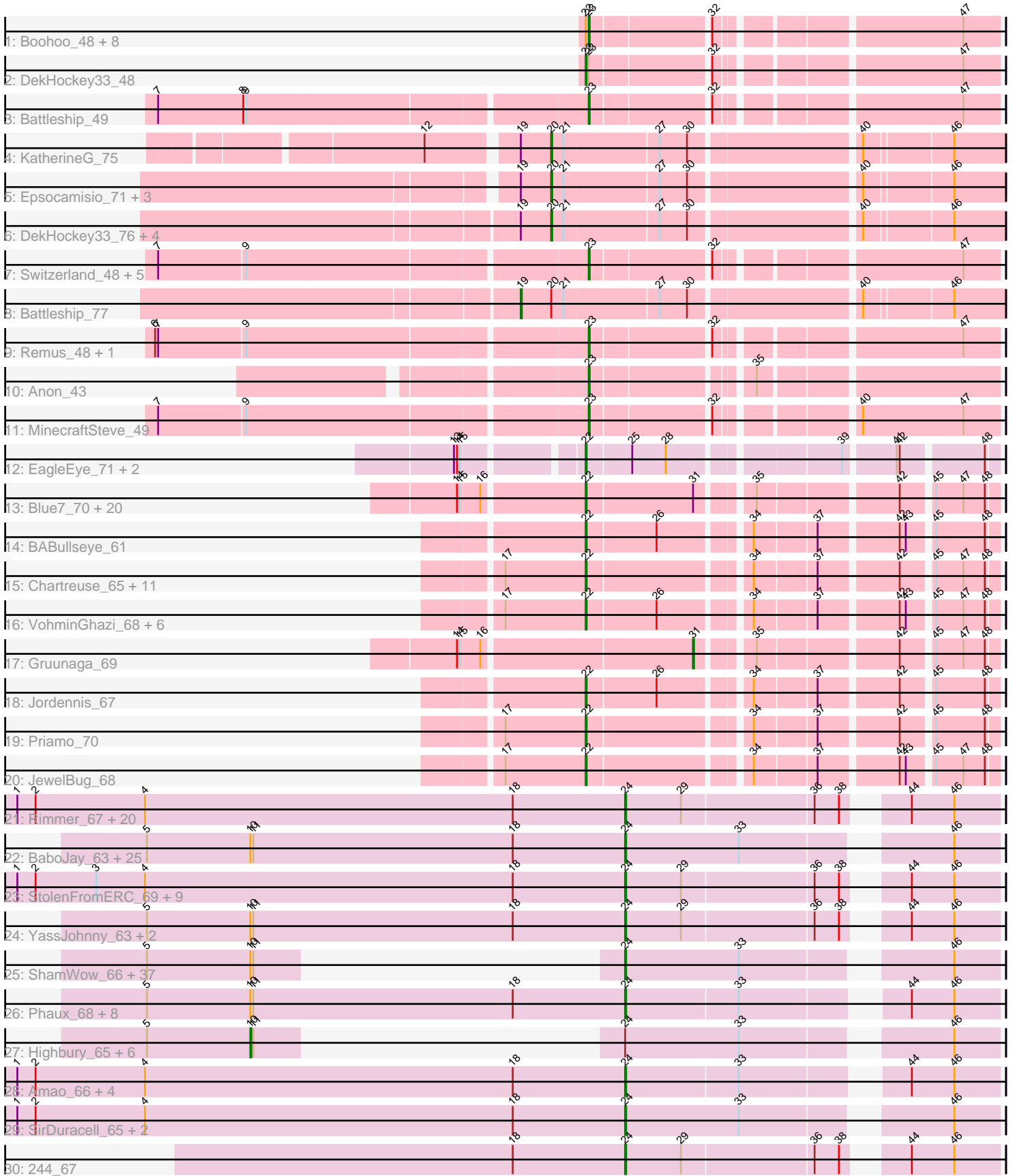


Pham 161599



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 161599 Report

This analysis was run 04/28/24 on database version 559.

Pham number 161599 has 203 members, 19 are drafts.

Phages represented in each track:

- Track 1 : Boohoo_48, ShayRa_49, Anaysia_48, LastResort_47, Soups_48, Looper_48, Nebulosus_47, KatherineG_49, ReMo_47
- Track 2 : DekHockey33_48
- Track 3 : Battleship_49
- Track 4 : KatherineG_75
- Track 5 : Epsocamisio_71, Nebulosus_72, JSwag_74, MinecraftSteve_75
- Track 6 : DekHockey33_76, Rosalind_73, ShayRa_75, Switzerland_74, Soups_75
- Track 7 : Switzerland_48, Oofda_49, Rosalind_47, Epsocamisio_47, Waits_48, JSwag_47
- Track 8 : Battleship_77
- Track 9 : Remus_48, Strosahl_48
- Track 10 : Anon_43
- Track 11 : MinecraftSteve_49
- Track 12 : EagleEye_71, Lucyedi_70, PainterBoy_69
- Track 13 : Blue7_70, Rifter_69, Gladiator_66, Tucker_69, Hexamo_69, Jeffabunny_69, Hammer_69, Lilbunny_66, ToneTone_66, Artemis2UCLA_69, Yokurt_68, Zulu_70, Zaka_69, WunderPhul_69, Wiks_68, Indra_72, Roksolana_70, Helmet_70, Koko_71, Garak_70, CloudWang3_70
- Track 14 : BABullseye_61
- Track 15 : Chartreuse_65, Cookiedough_68, McFly_68, Isiphiwo_66, SuperAwesome_68, Neeharika16_65, GreedyLawyer_65, Dorothea_65, SuperCallie99_65, Newrala_68, Pmask_67, DaVinci_66
- Track 16 : VohminGhazi_68, Kipper29_68, Kazan_69, Hoot_63, EricB_67, Candra_66, SmellyB_68
- Track 17 : Gruunaga_69
- Track 18 : Jordennis_67
- Track 19 : Priamo_70
- Track 20 : JewelBug_68
- Track 21 : Rimmer_67, Quallification_67, Marshmallow_64, Icee_67, Buck_67, Cactus_69, Glexan_65, Kanye_63, NelitzaMV_64, Tomaszewski_61, Cookies_63, Harella_66, Flypotenuse_62, Balomoji_66, Sassay_61, Daikon_68, Sotrice96_67, Pat3_64, Myrale_66, ShereKhan_65, Willez_61
- Track 22 : BaboJay_63, OrionPax_65, xkcd_69, Nala_68, Czyszczone1_67, RiverMonster_66, Youngblood_69, MPhalcon_67, Elph10_66, Bench_69, Cjw1_66, Pumpkin_69, Lilizi_67, Misfit_67, Maxxinista_68, PhatBacter_70, Murica_69, Terminus_69, Murphy_66, Phrux_63, Bruin_63, HufflyPuff_69, Contagion_62, FireRed_70, Mosby_62, MISSy_67

- Track 23 : StolenFromERC_69, Hoonter_69, Gage_68, GoldenSpark_70, AmericanBeauty_73, GooberAzure_69, Gemini_71, Kimchi_70, Argent26_70, Holt_71
- Track 24 : YassJohnny_63, Goldilocks_69, Command613_68
- Track 25 : ShamWow_66, Manda_66, MadamMonkfish_66, StellaBean_62, Miniwave_61, Mindy_65, TeardropMSU_62, BigBubba_66, TBrady12_69, IHOP_64, Easy2Say_67, Adnama_70, Toto_64, Kostya_66, CrystalP_65, Lilpickle_65, Thresher_68, ChosenOne_66, NoSleep_67, Inca_63, BilboSwaggins_65, Stank_69, Teaspoon_63, Asriel_65, Rakim_67, Moldemort_69, Emmina_66, Tarkin_65, Paperbeatsrock_65, Simpliphy_65, Elite2014_65, SophKB_63, Barbarian_65, ABCat_63, Phaja_64, Wiggin_68, Xandras_65, Filch_67
- Track 26 : Phaux_68, Lilac_68, Hopey_66, Nimrod_67, DrDrey_66, Palpatine_68, BugsBunny_66, Petra64142_70, Policronamos_70
- Track 27 : Highbury_65, Dumbo_66, Saints25_65, Eureka_64, Goku_64, Pharsalus_63, Henry_64
- Track 28 : Amao_66, ChotaBhai_66, Stark_67, HanKaySha_66, JeTaime_66
- Track 29 : SirDuracell_65, DoctorDiddles_65, Bask21_66
- Track 30 : 244_67

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

The start number called the most often in the published annotations is 24, it was called in 105 of the 184 non-draft genes in the pham.

Genes that call this "Most Annotated" start:

- 244_67, ABCat_63, Adnama_70, Amao_66, AmericanBeauty_73, Argent26_70, Asriel_65, BaboJay_63, Balomoji_66, Barbarian_65, Bask21_66, Bench_69, BigBubba_66, BilboSwaggins_65, Bruin_63, Buck_67, BugsBunny_66, Cactus_69, ChosenOne_66, ChotaBhai_66, Cjw1_66, Command613_68, Contagion_62, Cookies_63, CrystalP_65, Czyszczonek_67, Daikon_68, DoctorDiddles_65, DrDrey_66, Easy2Say_67, Elite2014_65, Elph10_66, Emmina_66, Filch_67, FireRed_70, Flypotenuse_62, Gage_68, Gemini_71, Glexan_65, GoldenSpark_70, Goldilocks_69, GooberAzure_69, HanKaySha_66, Harella_66, Holt_71, Hoonter_69, Hopey_66, HufflyPuff_69, IHOP_64, Icee_67, Inca_63, JeTaime_66, Kanye_63, Kimchi_70, Kostya_66, Lilac_68, Lilizi_67, Lilpickle_65, MISSy_67, MPhalcon_67, MadamMonkfish_66, Manda_66, Marshmallow_64, Maxxinista_68, Mindy_65, Miniwave_61, Misfit_67, Moldemort_69, Mosby_62, Murica_69, Murphy_66, Myrale_66, Nala_68, NelitzaMV_64, Nimrod_67, NoSleep_67, OrionPax_65, Palpatine_68, Paperbeatsrock_65, Pat3_64, Petra64142_70, Phaja_64, PhatBacter_70, Phaux_68, Phrux_63, Policronamos_70, Pumpkin_69, Quallification_67, Rakim_67, Rimmer_67, RiverMonster_66, Sassay_61, ShamWow_66, ShereKhan_65, Simpliphy_65, SirDuracell_65, SophKB_63, Sotrice96_67, Stank_69, Stark_67, StellaBean_62, StolenFromERC_69, TBrady12_69, Tarkin_65, TeardropMSU_62, Teaspoon_63, Terminus_69, Thresher_68, Tomaszewski_61, Toto_64, Wiggin_68, Willez_61, Xandras_65, YassJohnny_63, Youngblood_69, xkcd_69,

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

- Dumbo_66, Eureka_64, Goku_64, Henry_64, Highbury_65, Pharsalus_63, Saints25_65,

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

- Anaysia_48, Anon_43, Artemis2UCLA_69, BABullseye_61, Battleship_49, Battleship_77, Blue7_70, Boohoo_48, Candra_66, Chartreuse_65, CloudWang3_70, Cookiedough_68, DaVinci_66, DekHockey33_48, DekHockey33_76, Dorothea_65, EagleEye_71, Epsocamisio_47, Epsocamisio_71, EricB_67, Garak_70, Gladiator_66, GreedyLawyer_65, Gruunaga_69, Hammer_69, Helmet_70, Hexamo_69, Hoot_63, Indra_72, Isiphiwo_66, JSwag_47, JSwag_74, Jeffabunny_69, JewelBug_68, Jordennis_67, KatherineG_49, KatherineG_75, Kazan_69, Kipper29_68, Koko_71, LastResort_47, Lilbunny_66, Looper_48, Lucyedi_70, McFly_68, MinecraftSteve_49, MinecraftSteve_75, Nebulosus_47, Nebulosus_72, Neeharika16_65, Newrala_68, Oofda_49, PainterBoy_69, Pmask_67, Priamo_70, ReMo_47, Remus_48, Rifter_69, Roksolana_70, Rosalind_47, Rosalind_73, ShayRa_49, ShayRa_75, SmellyB_68, Soups_48, Soups_75, Strosahl_48, SuperAwesome_68, SuperCallie99_65, Switzerland_48, Switzerland_74, ToneTone_66, Tucker_69, VohminGhazi_68, Waits_48, Wiks_68, WunderPhul_69, Yokurt_68, Zaka_69, Zulu_70,

Summary by start number:

Start 10:

- Found in 83 of 203 (40.9%) of genes in pham
- Manual Annotations of this start: 7 of 184
- Called 8.4% of time when present
- Phage (with cluster) where this start called: Dumbo_66 (E), Eureka_64 (E), Goku_64 (E), Henry_64 (E), Highbury_65 (E), Pharsalus_63 (E), Saints25_65 (E),

Start 19:

- Found in 11 of 203 (5.4%) of genes in pham
- Manual Annotations of this start: 1 of 184
- Called 9.1% of time when present
- Phage (with cluster) where this start called: Battleship_77 (A15),

Start 20:

- Found in 11 of 203 (5.4%) of genes in pham
- Manual Annotations of this start: 10 of 184
- Called 90.9% of time when present
- Phage (with cluster) where this start called: DekHockey33_76 (A15), Epsocamisio_71 (A15), JSwag_74 (A15), KatherineG_75 (A15), MinecraftSteve_75 (A15), Nebulosus_72 (A15), Rosalind_73 (A15), ShayRa_75 (A15), Soups_75 (A15), Switzerland_74 (A15),

Start 22:

- Found in 57 of 203 (28.1%) of genes in pham
- Manual Annotations of this start: 41 of 184
- Called 84.2% of time when present
- Phage (with cluster) where this start called: Artemis2UCLA_69 (A6), BABullseye_61 (A6), Blue7_70 (A6), Candra_66 (A6), Chartreuse_65 (A6), CloudWang3_70 (A6), Cookiedough_68 (A6), DaVinci_66 (A6), DekHockey33_48 (A15), Dorothea_65 (A6), EagleEye_71 (A16), EricB_67 (A6), Garak_70 (A6), Gladiator_66 (A6), GreedyLawyer_65 (A6), Hammer_69 (A6), Helmet_70 (A6), Hexamo_69 (A6), Hoot_63 (A6), Indra_72 (A6), Isiphiwo_66 (A6), Jeffabunny_69 (A6), JewelBug_68 (A6), Jordennis_67 (A6), Kazan_69 (A6), Kipper29_68 (A6), Koko_71 (A6), Lilbunny_66 (A6), Lucyedi_70 (A16), McFly_68 (A6), Neeharika16_65 (A6),

Newrala_68 (A6), PainterBoy_69 (A16), Pmask_67 (A6), Priamo_70 (A6), Rifter_69 (A6), Roksolana_70 (A6), SmellyB_68 (A6), SuperAwesome_68 (A6), SuperCallie99_65 (A6), ToneTone_66 (A6), Tucker_69 (A6), VohminGhazi_68 (A6), Wiks_68 (A6), WunderPhul_69 (A6), Yokurt_68 (A6), Zaka_69 (A6), Zulu_70 (A6),

Start 23:

- Found in 21 of 203 (10.3%) of genes in pham
- Manual Annotations of this start: 19 of 184
- Called 95.2% of time when present
- Phage (with cluster) where this start called: Anaysia_48 (A15), Anon_43 (A15), Battleship_49 (A15), Boohoo_48 (A15), Epsocamasio_47 (A15), JSwag_47 (A15), KatherineG_49 (A15), LastResort_47 (A15), Looper_48 (A15), MinecraftSteve_49 (A15), Nebulosus_47 (A15), Oofda_49 (A15), ReMo_47 (A15), Remus_48 (A15), Rosalind_47 (A15), ShayRa_49 (A15), Soups_48 (A15), Strosahl_48 (A15), Switzerland_48 (A15), Waits_48 (A15),

Start 24:

- Found in 123 of 203 (60.6%) of genes in pham
- Manual Annotations of this start: 105 of 184
- Called 94.3% of time when present
- Phage (with cluster) where this start called: 244_67 (E), ABCat_63 (E), Adnama_70 (E), Amao_66 (E), AmericanBeauty_73 (E), Argent26_70 (E), Asriel_65 (E), BaboJay_63 (E), Balomoji_66 (E), Barbarian_65 (E), Bask21_66 (E), Bench_69 (E), BigBubba_66 (E), BilboSwaggins_65 (E), Bruin_63 (E), Buck_67 (E), BugsBunny_66 (E), Cactus_69 (E), ChosenOne_66 (E), ChotaBhai_66 (E), Cjw1_66 (E), Command613_68 (E), Contagion_62 (E), Cookies_63 (E), CrystalP_65 (E), Czystczon1_67 (E), Daikon_68 (E), DoctorDiddles_65 (E), DrDrey_66 (E), Easy2Say_67 (E), Elite2014_65 (E), Elph10_66 (E), Emmina_66 (E), Filch_67 (E), FireRed_70 (E), Flypotenuse_62 (E), Gage_68 (E), Gemini_71 (E), Glexan_65 (E), GoldenSpark_70 (E), Goldilocks_69 (E), GooberAzure_69 (E), HanKaySha_66 (E), Harella_66 (E), Holt_71 (E), Hoonter_69 (E), Hopey_66 (E), HufflyPuff_69 (E), IHOP_64 (E), Icee_67 (E), Inca_63 (E), JeTaime_66 (E), Kanye_63 (E), Kimchi_70 (E), Kostya_66 (E), Lilac_68 (E), Lilizi_67 (E), Lilpickle_65 (E), MISSy_67 (E), MPhalcon_67 (E), MadamMonkfish_66 (E), Manda_66 (E), Marshmallow_64 (E), Maxxinista_68 (E), Mindy_65 (E), Miniwave_61 (E), Misfit_67 (E), Moldemort_69 (E), Mosby_62 (E), Murica_69 (E), Murphy_66 (E), Myrale_66 (E), Nala_68 (E), NelitzaMV_64 (E), Nimrod_67 (E), NoSleep_67 (E), OrionPax_65 (E), Palpatine_68 (E), Paperbeatsrock_65 (E), Pat3_64 (E), Petra64142_70 (E), Phaja_64 (E), PhatBacter_70 (E), Phaux_68 (E), Phrux_63 (E), Policronamos_70 (E), Pumpkin_69 (E), Quallification_67 (E), Rakim_67 (E), Rimmer_67 (E), RiverMonster_66 (E), Sassay_61 (E), ShamWow_66 (E), ShereKhan_65 (E), Simpliphy_65 (E), SirDuracell_65 (E), SophKB_63 (E), Sotrice96_67 (E), Stank_69 (E), Stark_67 (E), StellaBean_62 (E), StolenFromERC_69 (E), TBrady12_69 (E), Tarkin_65 (E), TeardropMSU_62 (E), Teaspoon_63 (E), Terminus_69 (E), Thresher_68 (E), Tomaszewski_61 (E), Toto_64 (E), Wiggin_68 (E), Willez_61 (E), Xandras_65 (E), YassJohnny_63 (E), Youngblood_69 (E), xkcd_69 (E),

Start 31:

- Found in 22 of 203 (10.8%) of genes in pham
- Manual Annotations of this start: 1 of 184
- Called 4.5% of time when present
- Phage (with cluster) where this start called: Gruunaga_69 (A6),

Summary by clusters:

There are 4 clusters represented in this pham: A15, A16, E, A6,

Info for manual annotations of cluster A15:

- Start number 19 was manually annotated 1 time for cluster A15.
- Start number 20 was manually annotated 10 times for cluster A15.
- Start number 22 was manually annotated 1 time for cluster A15.
- Start number 23 was manually annotated 19 times for cluster A15.

Info for manual annotations of cluster A16:

- Start number 22 was manually annotated 3 times for cluster A16.

Info for manual annotations of cluster A6:

- Start number 22 was manually annotated 37 times for cluster A6.
- Start number 31 was manually annotated 1 time for cluster A6.

Info for manual annotations of cluster E:

- Start number 10 was manually annotated 7 times for cluster E.
- Start number 24 was manually annotated 105 times for cluster E.

Gene Information:

Gene: 244_67 Start: 43867, Stop: 44196, Start Num: 24

Candidate Starts for 244_67:

(18, 43756), (Start: 24 @43867 has 105 MA's), (29, 43921), (36, 44047), (38, 44071), (44, 44110), (46, 44152),

Gene: ABCat_63 Start: 44214, Stop: 44543, Start Num: 24

Candidate Starts for ABCat_63:

(5, 44040), (Start: 10 @44142 has 7 MA's), (11, 44145), (Start: 24 @44214 has 105 MA's), (33, 44325), (46, 44499),

Gene: Adnama_70 Start: 44237, Stop: 44566, Start Num: 24

Candidate Starts for Adnama_70:

(5, 44063), (Start: 10 @44165 has 7 MA's), (11, 44168), (Start: 24 @44237 has 105 MA's), (33, 44348), (46, 44522),

Gene: Amao_66 Start: 43625, Stop: 43951, Start Num: 24

Candidate Starts for Amao_66:

(1, 43025), (2, 43043), (4, 43151), (18, 43514), (Start: 24 @43625 has 105 MA's), (33, 43733), (44, 43865), (46, 43907),

Gene: AmericanBeauty_73 Start: 44380, Stop: 44709, Start Num: 24

Candidate Starts for AmericanBeauty_73:

(1, 43780), (2, 43798), (3, 43858), (4, 43906), (18, 44269), (Start: 24 @44380 has 105 MA's), (29, 44434), (36, 44560), (38, 44584), (44, 44623), (46, 44665),

Gene: Anaysia_48 Start: 30327, Stop: 29968, Start Num: 23

Candidate Starts for Anaysia_48:

(Start: 22 @30330 has 41 MA's), (Start: 23 @30327 has 19 MA's), (32, 30219), (47, 30003),

Gene: Anon_43 Start: 29368, Stop: 29009, Start Num: 23

Candidate Starts for Anon_43:

(Start: 23 @29368 has 19 MA's), (35, 29230),

Gene: Argent26_70 Start: 44018, Stop: 44347, Start Num: 24

Candidate Starts for Argent26_70:

(1, 43418), (2, 43436), (3, 43496), (4, 43544), (18, 43907), (Start: 24 @44018 has 105 MA's), (29, 44072), (36, 44198), (38, 44222), (44, 44261), (46, 44303),

Gene: Artemis2UCLA_69 Start: 40044, Stop: 39688, Start Num: 22

Candidate Starts for Artemis2UCLA_69:

(14, 40161), (15, 40158), (16, 40140), (Start: 22 @40044 has 41 MA's), (Start: 31 @39942 has 1 MA's), (35, 39897), (42, 39774), (45, 39747), (47, 39720), (48, 39699),

Gene: Asriel_65 Start: 42574, Stop: 42903, Start Num: 24

Candidate Starts for Asriel_65:

(5, 42400), (Start: 10 @42502 has 7 MA's), (11, 42505), (Start: 24 @42574 has 105 MA's), (33, 42685), (46, 42859),

Gene: BABullseye_61 Start: 37712, Stop: 37356, Start Num: 22

Candidate Starts for BABullseye_61:

(Start: 22 @37712 has 41 MA's), (26, 37646), (34, 37568), (37, 37511), (42, 37442), (43, 37436), (45, 37415), (48, 37367),

Gene: BaboJay_63 Start: 43411, Stop: 43740, Start Num: 24

Candidate Starts for BaboJay_63:

(5, 42940), (Start: 10 @43042 has 7 MA's), (11, 43045), (18, 43300), (Start: 24 @43411 has 105 MA's), (33, 43522), (46, 43696),

Gene: Balomoji_66 Start: 44344, Stop: 44673, Start Num: 24

Candidate Starts for Balomoji_66:

(1, 43744), (2, 43762), (4, 43870), (18, 44233), (Start: 24 @44344 has 105 MA's), (29, 44398), (36, 44524), (38, 44548), (44, 44587), (46, 44629),

Gene: Barbarian_65 Start: 42574, Stop: 42903, Start Num: 24

Candidate Starts for Barbarian_65:

(5, 42400), (Start: 10 @42502 has 7 MA's), (11, 42505), (Start: 24 @42574 has 105 MA's), (33, 42685), (46, 42859),

Gene: Bask21_66 Start: 43185, Stop: 43514, Start Num: 24

Candidate Starts for Bask21_66:

(1, 42585), (2, 42603), (4, 42711), (18, 43074), (Start: 24 @43185 has 105 MA's), (33, 43296), (46, 43470),

Gene: Battleship_49 Start: 30296, Stop: 29937, Start Num: 23

Candidate Starts for Battleship_49:

(7, 30701), (8, 30617), (9, 30614), (Start: 23 @30296 has 19 MA's), (32, 30188), (47, 29972),

Gene: Battleship_77 Start: 41490, Stop: 41044, Start Num: 19

Candidate Starts for Battleship_77:

(Start: 19 @41490 has 1 MA's), (Start: 20 @41460 has 10 MA's), (21, 41448), (27, 41358), (30, 41331), (40, 41175), (46, 41094),

Gene: Bench_69 Start: 43848, Stop: 44213, Start Num: 24

Candidate Starts for Bench_69:

(5, 43377), (Start: 10 @43479 has 7 MA's), (11, 43482), (18, 43737), (Start: 24 @43848 has 105 MA's), (33, 43959), (46, 44169),

Gene: BigBubba_66 Start: 43593, Stop: 43922, Start Num: 24

Candidate Starts for BigBubba_66:

(5, 43419), (Start: 10 @43521 has 7 MA's), (11, 43524), (Start: 24 @43593 has 105 MA's), (33, 43704), (46, 43878),

Gene: BilboSwaggins_65 Start: 44222, Stop: 44551, Start Num: 24

Candidate Starts for BilboSwaggins_65:

(5, 44048), (Start: 10 @44150 has 7 MA's), (11, 44153), (Start: 24 @44222 has 105 MA's), (33, 44333), (46, 44507),

Gene: Blue7_70 Start: 40172, Stop: 39816, Start Num: 22

Candidate Starts for Blue7_70:

(14, 40289), (15, 40286), (16, 40268), (Start: 22 @40172 has 41 MA's), (Start: 31 @40070 has 1 MA's), (35, 40025), (42, 39902), (45, 39875), (47, 39848), (48, 39827),

Gene: Boohoo_48 Start: 30327, Stop: 29968, Start Num: 23

Candidate Starts for Boohoo_48:

(Start: 22 @30330 has 41 MA's), (Start: 23 @30327 has 19 MA's), (32, 30219), (47, 30003),

Gene: Bruin_63 Start: 42757, Stop: 43086, Start Num: 24

Candidate Starts for Bruin_63:

(5, 42286), (Start: 10 @42388 has 7 MA's), (11, 42391), (18, 42646), (Start: 24 @42757 has 105 MA's), (33, 42868), (46, 43042),

Gene: Buck_67 Start: 44465, Stop: 44794, Start Num: 24

Candidate Starts for Buck_67:

(1, 43865), (2, 43883), (4, 43991), (18, 44354), (Start: 24 @44465 has 105 MA's), (29, 44519), (36, 44645), (38, 44669), (44, 44708), (46, 44750),

Gene: BugsBunny_66 Start: 44295, Stop: 44621, Start Num: 24

Candidate Starts for BugsBunny_66:

(5, 43824), (Start: 10 @43926 has 7 MA's), (11, 43929), (18, 44184), (Start: 24 @44295 has 105 MA's), (33, 44403), (44, 44535), (46, 44577),

Gene: Cactus_69 Start: 43238, Stop: 43567, Start Num: 24

Candidate Starts for Cactus_69:

(1, 42638), (2, 42656), (4, 42764), (18, 43127), (Start: 24 @43238 has 105 MA's), (29, 43292), (36, 43418), (38, 43442), (44, 43481), (46, 43523),

Gene: Candra_66 Start: 40076, Stop: 39720, Start Num: 22

Candidate Starts for Candra_66:

(17, 40154), (Start: 22 @40076 has 41 MA's), (26, 40010), (34, 39932), (37, 39875), (42, 39806), (43, 39800), (45, 39779), (47, 39752), (48, 39731),

Gene: Chartreuse_65 Start: 39392, Stop: 39036, Start Num: 22

Candidate Starts for Chartreuse_65:

(17, 39470), (Start: 22 @39392 has 41 MA's), (34, 39248), (37, 39191), (42, 39122), (45, 39095), (47, 39068), (48, 39047),

Gene: ChosenOne_66 Start: 43241, Stop: 43570, Start Num: 24

Candidate Starts for ChosenOne_66:

(5, 43067), (Start: 10 @43169 has 7 MA's), (11, 43172), (Start: 24 @43241 has 105 MA's), (33, 43352), (46, 43526),

Gene: ChotaBhai_66 Start: 43556, Stop: 43882, Start Num: 24

Candidate Starts for ChotaBhai_66:

(1, 42956), (2, 42974), (4, 43082), (18, 43445), (Start: 24 @43556 has 105 MA's), (33, 43664), (44, 43796), (46, 43838),

Gene: Cjw1_66 Start: 44938, Stop: 45267, Start Num: 24

Candidate Starts for Cjw1_66:

(5, 44467), (Start: 10 @44569 has 7 MA's), (11, 44572), (18, 44827), (Start: 24 @44938 has 105 MA's), (33, 45049), (46, 45223),

Gene: CloudWang3_70 Start: 40556, Stop: 40200, Start Num: 22

Candidate Starts for CloudWang3_70:

(14, 40673), (15, 40670), (16, 40652), (Start: 22 @40556 has 41 MA's), (Start: 31 @40454 has 1 MA's), (35, 40409), (42, 40286), (45, 40259), (47, 40232), (48, 40211),

Gene: Command613_68 Start: 44277, Stop: 44606, Start Num: 24

Candidate Starts for Command613_68:

(5, 43806), (Start: 10 @43908 has 7 MA's), (11, 43911), (18, 44166), (Start: 24 @44277 has 105 MA's), (29, 44331), (36, 44457), (38, 44481), (44, 44520), (46, 44562),

Gene: Contagion_62 Start: 43038, Stop: 43367, Start Num: 24

Candidate Starts for Contagion_62:

(5, 42567), (Start: 10 @42669 has 7 MA's), (11, 42672), (18, 42927), (Start: 24 @43038 has 105 MA's), (33, 43149), (46, 43323),

Gene: Cookiedough_68 Start: 40020, Stop: 39664, Start Num: 22

Candidate Starts for Cookiedough_68:

(17, 40098), (Start: 22 @40020 has 41 MA's), (34, 39876), (37, 39819), (42, 39750), (45, 39723), (47, 39696), (48, 39675),

Gene: Cookies_63 Start: 43407, Stop: 43736, Start Num: 24

Candidate Starts for Cookies_63:

(1, 42807), (2, 42825), (4, 42933), (18, 43296), (Start: 24 @43407 has 105 MA's), (29, 43461), (36, 43587), (38, 43611), (44, 43650), (46, 43692),

Gene: CrystalP_65 Start: 44222, Stop: 44551, Start Num: 24

Candidate Starts for CrystalP_65:

(5, 44048), (Start: 10 @44150 has 7 MA's), (11, 44153), (Start: 24 @44222 has 105 MA's), (33, 44333), (46, 44507),

Gene: Czyszczone1_67 Start: 43747, Stop: 44076, Start Num: 24

Candidate Starts for Czyszczone1_67:

(5, 43276), (Start: 10 @43378 has 7 MA's), (11, 43381), (18, 43636), (Start: 24 @43747 has 105 MA's), (33, 43858), (46, 44032),

Gene: DaVinci_66 Start: 39446, Stop: 39090, Start Num: 22

Candidate Starts for DaVinci_66:

(17, 39524), (Start: 22 @39446 has 41 MA's), (34, 39302), (37, 39245), (42, 39176), (45, 39149), (47, 39122), (48, 39101),

Gene: Daikon_68 Start: 44365, Stop: 44694, Start Num: 24

Candidate Starts for Daikon_68:

(1, 43765), (2, 43783), (4, 43891), (18, 44254), (Start: 24 @44365 has 105 MA's), (29, 44419), (36, 44545), (38, 44569), (44, 44608), (46, 44650),

Gene: DekHockey33_48 Start: 30545, Stop: 30183, Start Num: 22

Candidate Starts for DekHockey33_48:

(Start: 22 @30545 has 41 MA's), (Start: 23 @30542 has 19 MA's), (32, 30434), (47, 30218),

Gene: DekHockey33_76 Start: 41545, Stop: 41129, Start Num: 20

Candidate Starts for DekHockey33_76:

(Start: 19 @41575 has 1 MA's), (Start: 20 @41545 has 10 MA's), (21, 41533), (27, 41443), (30, 41416), (40, 41260), (46, 41179),

Gene: DoctorDiddles_65 Start: 43597, Stop: 43926, Start Num: 24

Candidate Starts for DoctorDiddles_65:

(1, 42997), (2, 43015), (4, 43123), (18, 43486), (Start: 24 @43597 has 105 MA's), (33, 43708), (46, 43882),

Gene: Dorothea_65 Start: 40018, Stop: 39662, Start Num: 22

Candidate Starts for Dorothea_65:

(17, 40096), (Start: 22 @40018 has 41 MA's), (34, 39874), (37, 39817), (42, 39748), (45, 39721), (47, 39694), (48, 39673),

Gene: DrDrey_66 Start: 44666, Stop: 44992, Start Num: 24

Candidate Starts for DrDrey_66:

(5, 44195), (Start: 10 @44297 has 7 MA's), (11, 44300), (18, 44555), (Start: 24 @44666 has 105 MA's), (33, 44774), (44, 44906), (46, 44948),

Gene: Dumbo_66 Start: 43074, Stop: 43475, Start Num: 10

Candidate Starts for Dumbo_66:

(5, 42972), (Start: 10 @43074 has 7 MA's), (11, 43077), (Start: 24 @43146 has 105 MA's), (33, 43257), (46, 43431),

Gene: EagleEye_71 Start: 41731, Stop: 41372, Start Num: 22

Candidate Starts for EagleEye_71:

(13, 41836), (14, 41833), (15, 41830), (Start: 22 @41731 has 41 MA's), (25, 41689), (28, 41656), (39, 41506), (41, 41461), (42, 41458), (48, 41383),

Gene: Easy2Say_67 Start: 44684, Stop: 45013, Start Num: 24

Candidate Starts for Easy2Say_67:

(5, 44510), (Start: 10 @44612 has 7 MA's), (11, 44615), (Start: 24 @44684 has 105 MA's), (33, 44795), (46, 44969),

Gene: Elite2014_65 Start: 43240, Stop: 43569, Start Num: 24

Candidate Starts for Elite2014_65:

(5, 43066), (Start: 10 @43168 has 7 MA's), (11, 43171), (Start: 24 @43240 has 105 MA's), (33, 43351), (46, 43525),

Gene: Elph10_66 Start: 43245, Stop: 43574, Start Num: 24

Candidate Starts for Elph10_66:

(5, 42774), (Start: 10 @42876 has 7 MA's), (11, 42879), (18, 43134), (Start: 24 @43245 has 105 MA's), (33, 43356), (46, 43530),

Gene: Emmina_66 Start: 43147, Stop: 43476, Start Num: 24

Candidate Starts for Emmina_66:

(5, 42973), (Start: 10 @43075 has 7 MA's), (11, 43078), (Start: 24 @43147 has 105 MA's), (33, 43258), (46, 43432),

Gene: Epsocamisio_71 Start: 40692, Stop: 40276, Start Num: 20

Candidate Starts for Epsocamisio_71:

(Start: 19 @40722 has 1 MA's), (Start: 20 @40692 has 10 MA's), (21, 40680), (27, 40590), (30, 40563), (40, 40407), (46, 40326),

Gene: Epsocamisio_47 Start: 30101, Stop: 29742, Start Num: 23

Candidate Starts for Epsocamisio_47:

(7, 30503), (9, 30419), (Start: 23 @30101 has 19 MA's), (32, 29993), (47, 29777),

Gene: EricB_67 Start: 40033, Stop: 39677, Start Num: 22

Candidate Starts for EricB_67:

(17, 40111), (Start: 22 @40033 has 41 MA's), (26, 39967), (34, 39889), (37, 39832), (42, 39763), (43, 39757), (45, 39736), (47, 39709), (48, 39688),

Gene: Eureka_64 Start: 43639, Stop: 44040, Start Num: 10

Candidate Starts for Eureka_64:

(5, 43537), (Start: 10 @43639 has 7 MA's), (11, 43642), (Start: 24 @43711 has 105 MA's), (33, 43822), (46, 43996),

Gene: Filch_67 Start: 43172, Stop: 43501, Start Num: 24

Candidate Starts for Filch_67:

(5, 42998), (Start: 10 @43100 has 7 MA's), (11, 43103), (Start: 24 @43172 has 105 MA's), (33, 43283), (46, 43457),

Gene: FireRed_70 Start: 44734, Stop: 45063, Start Num: 24

Candidate Starts for FireRed_70:

(5, 44263), (Start: 10 @44365 has 7 MA's), (11, 44368), (18, 44623), (Start: 24 @44734 has 105 MA's), (33, 44845), (46, 45019),

Gene: Flypotenuse_62 Start: 43228, Stop: 43557, Start Num: 24

Candidate Starts for Flypotenuse_62:

(1, 42628), (2, 42646), (4, 42754), (18, 43117), (Start: 24 @43228 has 105 MA's), (29, 43282), (36, 43408), (38, 43432), (44, 43471), (46, 43513),

Gene: Gage_68 Start: 44018, Stop: 44347, Start Num: 24

Candidate Starts for Gage_68:

(1, 43418), (2, 43436), (3, 43496), (4, 43544), (18, 43907), (Start: 24 @44018 has 105 MA's), (29, 44072), (36, 44198), (38, 44222), (44, 44261), (46, 44303),

Gene: Garak_70 Start: 40411, Stop: 40055, Start Num: 22

Candidate Starts for Garak_70:

(14, 40528), (15, 40525), (16, 40507), (Start: 22 @40411 has 41 MA's), (Start: 31 @40309 has 1 MA's), (35, 40264), (42, 40141), (45, 40114), (47, 40087), (48, 40066),

Gene: Gemini_71 Start: 44535, Stop: 44864, Start Num: 24

Candidate Starts for Gemini_71:

(1, 43935), (2, 43953), (3, 44013), (4, 44061), (18, 44424), (Start: 24 @44535 has 105 MA's), (29, 44589), (36, 44715), (38, 44739), (44, 44778), (46, 44820),

Gene: Gladiator_66 Start: 39636, Stop: 39280, Start Num: 22

Candidate Starts for Gladiator_66:

(14, 39753), (15, 39750), (16, 39732), (Start: 22 @39636 has 41 MA's), (Start: 31 @39534 has 1 MA's), (35, 39489), (42, 39366), (45, 39339), (47, 39312), (48, 39291),

Gene: Glexan_65 Start: 44355, Stop: 44684, Start Num: 24

Candidate Starts for Glexan_65:

(1, 43755), (2, 43773), (4, 43881), (18, 44244), (Start: 24 @44355 has 105 MA's), (29, 44409), (36, 44535), (38, 44559), (44, 44598), (46, 44640),

Gene: Goku_64 Start: 43368, Stop: 43769, Start Num: 10

Candidate Starts for Goku_64:

(5, 43266), (Start: 10 @43368 has 7 MA's), (11, 43371), (Start: 24 @43440 has 105 MA's), (33, 43551), (46, 43725),

Gene: GoldenSpark_70 Start: 44018, Stop: 44347, Start Num: 24

Candidate Starts for GoldenSpark_70:

(1, 43418), (2, 43436), (3, 43496), (4, 43544), (18, 43907), (Start: 24 @44018 has 105 MA's), (29, 44072), (36, 44198), (38, 44222), (44, 44261), (46, 44303),

Gene: Goldilocks_69 Start: 43519, Stop: 43848, Start Num: 24

Candidate Starts for Goldilocks_69:

(5, 43048), (Start: 10 @43150 has 7 MA's), (11, 43153), (18, 43408), (Start: 24 @43519 has 105 MA's), (29, 43573), (36, 43699), (38, 43723), (44, 43762), (46, 43804),

Gene: GooberAzure_69 Start: 44018, Stop: 44347, Start Num: 24

Candidate Starts for GooberAzure_69:

(1, 43418), (2, 43436), (3, 43496), (4, 43544), (18, 43907), (Start: 24 @44018 has 105 MA's), (29, 44072), (36, 44198), (38, 44222), (44, 44261), (46, 44303),

Gene: GreedyLawyer_65 Start: 40006, Stop: 39650, Start Num: 22

Candidate Starts for GreedyLawyer_65:

(17, 40084), (Start: 22 @40006 has 41 MA's), (34, 39862), (37, 39805), (42, 39736), (45, 39709), (47, 39682), (48, 39661),

Gene: Gruunaga_69 Start: 40267, Stop: 40013, Start Num: 31

Candidate Starts for Gruunaga_69:

(14, 40486), (15, 40483), (16, 40465), (Start: 31 @40267 has 1 MA's), (35, 40222), (42, 40099), (45, 40072), (47, 40045), (48, 40024),

Gene: Hammer_69 Start: 39976, Stop: 39620, Start Num: 22

Candidate Starts for Hammer_69:

(14, 40093), (15, 40090), (16, 40072), (Start: 22 @39976 has 41 MA's), (Start: 31 @39874 has 1 MA's), (35, 39829), (42, 39706), (45, 39679), (47, 39652), (48, 39631),

Gene: HanKaySha_66 Start: 43328, Stop: 43654, Start Num: 24

Candidate Starts for HanKaySha_66:

(1, 42728), (2, 42746), (4, 42854), (18, 43217), (Start: 24 @43328 has 105 MA's), (33, 43436), (44, 43568), (46, 43610),

Gene: Harella_66 Start: 44871, Stop: 45200, Start Num: 24

Candidate Starts for Harella_66:

(1, 44271), (2, 44289), (4, 44397), (18, 44760), (Start: 24 @44871 has 105 MA's), (29, 44925), (36, 45051), (38, 45075), (44, 45114), (46, 45156),

Gene: Helmet_70 Start: 40411, Stop: 40055, Start Num: 22

Candidate Starts for Helmet_70:

(14, 40528), (15, 40525), (16, 40507), (Start: 22 @40411 has 41 MA's), (Start: 31 @40309 has 1 MA's), (35, 40264), (42, 40141), (45, 40114), (47, 40087), (48, 40066),

Gene: Henry_64 Start: 43590, Stop: 43991, Start Num: 10

Candidate Starts for Henry_64:

(5, 43488), (Start: 10 @43590 has 7 MA's), (11, 43593), (Start: 24 @43662 has 105 MA's), (33, 43773), (46, 43947),

Gene: Hexamo_69 Start: 40041, Stop: 39685, Start Num: 22

Candidate Starts for Hexamo_69:

(14, 40158), (15, 40155), (16, 40137), (Start: 22 @40041 has 41 MA's), (Start: 31 @39939 has 1 MA's), (35, 39894), (42, 39771), (45, 39744), (47, 39717), (48, 39696),

Gene: Highbury_65 Start: 43241, Stop: 43642, Start Num: 10

Candidate Starts for Highbury_65:

(5, 43139), (Start: 10 @43241 has 7 MA's), (11, 43244), (Start: 24 @43313 has 105 MA's), (33, 43424), (46, 43598),

Gene: Holt_71 Start: 44432, Stop: 44761, Start Num: 24

Candidate Starts for Holt_71:

(1, 43832), (2, 43850), (3, 43910), (4, 43958), (18, 44321), (Start: 24 @44432 has 105 MA's), (29, 44486), (36, 44612), (38, 44636), (44, 44675), (46, 44717),

Gene: Hoonter_69 Start: 44018, Stop: 44347, Start Num: 24

Candidate Starts for Hoonter_69:

(1, 43418), (2, 43436), (3, 43496), (4, 43544), (18, 43907), (Start: 24 @44018 has 105 MA's), (29, 44072), (36, 44198), (38, 44222), (44, 44261), (46, 44303),

Gene: Hoot_63 Start: 37891, Stop: 37535, Start Num: 22

Candidate Starts for Hoot_63:

(17, 37969), (Start: 22 @37891 has 41 MA's), (26, 37825), (34, 37747), (37, 37690), (42, 37621), (43, 37615), (45, 37594), (47, 37567), (48, 37546),

Gene: Hokey_66 Start: 43860, Stop: 44186, Start Num: 24

Candidate Starts for Hokey_66:

(5, 43389), (Start: 10 @43491 has 7 MA's), (11, 43494), (18, 43749), (Start: 24 @43860 has 105 MA's), (33, 43968), (44, 44100), (46, 44142),

Gene: HuffyPuff_69 Start: 44690, Stop: 45019, Start Num: 24

Candidate Starts for HuffyPuff_69:

(5, 44219), (Start: 10 @44321 has 7 MA's), (11, 44324), (18, 44579), (Start: 24 @44690 has 105 MA's), (33, 44801), (46, 44975),

Gene: IHOP_64 Start: 43786, Stop: 44115, Start Num: 24

Candidate Starts for IHOP_64:

(5, 43612), (Start: 10 @43714 has 7 MA's), (11, 43717), (Start: 24 @43786 has 105 MA's), (33, 43897), (46, 44071),

Gene: Icee_67 Start: 43685, Stop: 44014, Start Num: 24

Candidate Starts for Icee_67:

(1, 43085), (2, 43103), (4, 43211), (18, 43574), (Start: 24 @43685 has 105 MA's), (29, 43739), (36, 43865), (38, 43889), (44, 43928), (46, 43970),

Gene: Inca_63 Start: 42311, Stop: 42640, Start Num: 24

Candidate Starts for Inca_63:

(5, 42137), (Start: 10 @42239 has 7 MA's), (11, 42242), (Start: 24 @42311 has 105 MA's), (33, 42422), (46, 42596),

Gene: Indra_72 Start: 40412, Stop: 40056, Start Num: 22

Candidate Starts for Indra_72:

(14, 40529), (15, 40526), (16, 40508), (Start: 22 @40412 has 41 MA's), (Start: 31 @40310 has 1 MA's), (35, 40265), (42, 40142), (45, 40115), (47, 40088), (48, 40067),

Gene: Isiphiwo_66 Start: 39572, Stop: 39216, Start Num: 22

Candidate Starts for Isiphiwo_66:

(17, 39650), (Start: 22 @39572 has 41 MA's), (34, 39428), (37, 39371), (42, 39302), (45, 39275), (47, 39248), (48, 39227),

Gene: JSwag_74 Start: 40977, Stop: 40561, Start Num: 20

Candidate Starts for JSwag_74:

(Start: 19 @41007 has 1 MA's), (Start: 20 @40977 has 10 MA's), (21, 40965), (27, 40875), (30, 40848), (40, 40692), (46, 40611),

Gene: JSwag_47 Start: 30039, Stop: 29680, Start Num: 23

Candidate Starts for JSwag_47:

(7, 30441), (9, 30357), (Start: 23 @30039 has 19 MA's), (32, 29931), (47, 29715),

Gene: JeTaime_66 Start: 44512, Stop: 44838, Start Num: 24

Candidate Starts for JeTaime_66:

(1, 43912), (2, 43930), (4, 44038), (18, 44401), (Start: 24 @44512 has 105 MA's), (33, 44620), (44, 44752), (46, 44794),

Gene: Jeffabunny_69 Start: 40038, Stop: 39682, Start Num: 22

Candidate Starts for Jeffabunny_69:

(14, 40155), (15, 40152), (16, 40134), (Start: 22 @40038 has 41 MA's), (Start: 31 @39936 has 1 MA's), (35, 39891), (42, 39768), (45, 39741), (47, 39714), (48, 39693),

Gene: JewelBug_68 Start: 40312, Stop: 39956, Start Num: 22

Candidate Starts for JewelBug_68:

(17, 40390), (Start: 22 @40312 has 41 MA's), (34, 40168), (37, 40111), (42, 40042), (43, 40036), (45, 40015), (47, 39988), (48, 39967),

Gene: Jordennis_67 Start: 39793, Stop: 39437, Start Num: 22

Candidate Starts for Jordennis_67:

(Start: 22 @39793 has 41 MA's), (26, 39727), (34, 39649), (37, 39592), (42, 39523), (45, 39496), (48, 39448),

Gene: Kanye_63 Start: 43367, Stop: 43696, Start Num: 24

Candidate Starts for Kanye_63:

(1, 42767), (2, 42785), (4, 42893), (18, 43256), (Start: 24 @43367 has 105 MA's), (29, 43421), (36, 43547), (38, 43571), (44, 43610), (46, 43652),

Gene: KatherineG_75 Start: 41450, Stop: 41034, Start Num: 20

Candidate Starts for KatherineG_75:

(12, 41561), (Start: 19 @41480 has 1 MA's), (Start: 20 @41450 has 10 MA's), (21, 41438), (27, 41348), (30, 41321), (40, 41165), (46, 41084),

Gene: KatherineG_49 Start: 30542, Stop: 30183, Start Num: 23

Candidate Starts for KatherineG_49:

(Start: 22 @30545 has 41 MA's), (Start: 23 @30542 has 19 MA's), (32, 30434), (47, 30218),

Gene: Kazan_69 Start: 40046, Stop: 39690, Start Num: 22

Candidate Starts for Kazan_69:

(17, 40124), (Start: 22 @40046 has 41 MA's), (26, 39980), (34, 39902), (37, 39845), (42, 39776), (43, 39770), (45, 39749), (47, 39722), (48, 39701),

Gene: Kimchi_70 Start: 44021, Stop: 44350, Start Num: 24

Candidate Starts for Kimchi_70:

(1, 43421), (2, 43439), (3, 43499), (4, 43547), (18, 43910), (Start: 24 @44021 has 105 MA's), (29, 44075), (36, 44201), (38, 44225), (44, 44264), (46, 44306),

Gene: Kipper29_68 Start: 40059, Stop: 39703, Start Num: 22

Candidate Starts for Kipper29_68:

(17, 40137), (Start: 22 @40059 has 41 MA's), (26, 39993), (34, 39915), (37, 39858), (42, 39789), (43, 39783), (45, 39762), (47, 39735), (48, 39714),

Gene: Koko_71 Start: 40896, Stop: 40540, Start Num: 22

Candidate Starts for Koko_71:

(14, 41013), (15, 41010), (16, 40992), (Start: 22 @40896 has 41 MA's), (Start: 31 @40794 has 1 MA's), (35, 40749), (42, 40626), (45, 40599), (47, 40572), (48, 40551),

Gene: Kostya_66 Start: 43885, Stop: 44214, Start Num: 24

Candidate Starts for Kostya_66:

(5, 43711), (Start: 10 @43813 has 7 MA's), (11, 43816), (Start: 24 @43885 has 105 MA's), (33, 43996), (46, 44170),

Gene: LastResort_47 Start: 30103, Stop: 29744, Start Num: 23

Candidate Starts for LastResort_47:

(Start: 22 @30106 has 41 MA's), (Start: 23 @30103 has 19 MA's), (32, 29995), (47, 29779),

Gene: Lilac_68 Start: 43645, Stop: 43971, Start Num: 24

Candidate Starts for Lilac_68:

(5, 43174), (Start: 10 @43276 has 7 MA's), (11, 43279), (18, 43534), (Start: 24 @43645 has 105 MA's), (33, 43753), (44, 43885), (46, 43927),

Gene: Lilbunny_66 Start: 40042, Stop: 39686, Start Num: 22

Candidate Starts for Lilbunny_66:

(14, 40159), (15, 40156), (16, 40138), (Start: 22 @40042 has 41 MA's), (Start: 31 @39940 has 1 MA's), (35, 39895), (42, 39772), (45, 39745), (47, 39718), (48, 39697),

Gene: Lilizi_67 Start: 43319, Stop: 43684, Start Num: 24

Candidate Starts for Lilizi_67:

(5, 42848), (Start: 10 @42950 has 7 MA's), (11, 42953), (18, 43208), (Start: 24 @43319 has 105 MA's), (33, 43430), (46, 43640),

Gene: Lilpickle_65 Start: 43240, Stop: 43569, Start Num: 24

Candidate Starts for Lilpickle_65:

(5, 43066), (Start: 10 @43168 has 7 MA's), (11, 43171), (Start: 24 @43240 has 105 MA's), (33, 43351), (46, 43525),

Gene: Looper_48 Start: 30080, Stop: 29721, Start Num: 23

Candidate Starts for Looper_48:

(Start: 22 @30083 has 41 MA's), (Start: 23 @30080 has 19 MA's), (32, 29972), (47, 29756),

Gene: Lucyedi_70 Start: 41927, Stop: 41568, Start Num: 22

Candidate Starts for Lucyedi_70:

(13, 42032), (14, 42029), (15, 42026), (Start: 22 @41927 has 41 MA's), (25, 41885), (28, 41852), (39, 41702), (41, 41657), (42, 41654), (48, 41579),

Gene: MISSy_67 Start: 43743, Stop: 44072, Start Num: 24

Candidate Starts for MISSy_67:

(5, 43272), (Start: 10 @43374 has 7 MA's), (11, 43377), (18, 43632), (Start: 24 @43743 has 105 MA's), (33, 43854), (46, 44028),

Gene: MPhalcon_67 Start: 43736, Stop: 44065, Start Num: 24

Candidate Starts for MPhalcon_67:

(5, 43265), (Start: 10 @43367 has 7 MA's), (11, 43370), (18, 43625), (Start: 24 @43736 has 105 MA's), (33, 43847), (46, 44021),

Gene: MadamMonkfish_66 Start: 42964, Stop: 43293, Start Num: 24

Candidate Starts for MadamMonkfish_66:

(5, 42790), (Start: 10 @42892 has 7 MA's), (11, 42895), (Start: 24 @42964 has 105 MA's), (33, 43075), (46, 43249),

Gene: Manda_66 Start: 44245, Stop: 44574, Start Num: 24

Candidate Starts for Manda_66:

(5, 44071), (Start: 10 @44173 has 7 MA's), (11, 44176), (Start: 24 @44245 has 105 MA's), (33, 44356), (46, 44530),

Gene: Marshmallow_64 Start: 44513, Stop: 44842, Start Num: 24

Candidate Starts for Marshmallow_64:

(1, 43913), (2, 43931), (4, 44039), (18, 44402), (Start: 24 @44513 has 105 MA's), (29, 44567), (36, 44693), (38, 44717), (44, 44756), (46, 44798),

Gene: Maxxinista_68 Start: 43615, Stop: 43944, Start Num: 24

Candidate Starts for Maxxinista_68:

(5, 43144), (Start: 10 @43246 has 7 MA's), (11, 43249), (18, 43504), (Start: 24 @43615 has 105 MA's), (33, 43726), (46, 43900),

Gene: McFly_68 Start: 40005, Stop: 39649, Start Num: 22

Candidate Starts for McFly_68:

(17, 40083), (Start: 22 @40005 has 41 MA's), (34, 39861), (37, 39804), (42, 39735), (45, 39708), (47, 39681), (48, 39660),

Gene: Mindy_65 Start: 42828, Stop: 43157, Start Num: 24

Candidate Starts for Mindy_65:

(5, 42654), (Start: 10 @42756 has 7 MA's), (11, 42759), (Start: 24 @42828 has 105 MA's), (33, 42939), (46, 43113),

Gene: MinecraftSteve_75 Start: 41265, Stop: 40849, Start Num: 20

Candidate Starts for MinecraftSteve_75:

(Start: 19 @41295 has 1 MA's), (Start: 20 @41265 has 10 MA's), (21, 41253), (27, 41163), (30, 41136), (40, 40980), (46, 40899),

Gene: MinecraftSteve_49 Start: 30303, Stop: 29944, Start Num: 23

Candidate Starts for MinecraftSteve_49:

(7, 30705), (9, 30621), (Start: 23 @30303 has 19 MA's), (32, 30195), (40, 30078), (47, 29979),

Gene: Miniwave_61 Start: 43281, Stop: 43610, Start Num: 24

Candidate Starts for Miniwave_61:

(5, 43107), (Start: 10 @43209 has 7 MA's), (11, 43212), (Start: 24 @43281 has 105 MA's), (33, 43392), (46, 43566),

Gene: Misfit_67 Start: 44755, Stop: 45084, Start Num: 24

Candidate Starts for Misfit_67:

(5, 44284), (Start: 10 @44386 has 7 MA's), (11, 44389), (18, 44644), (Start: 24 @44755 has 105 MA's), (33, 44866), (46, 45040),

Gene: Moldemort_69 Start: 43837, Stop: 44166, Start Num: 24

Candidate Starts for Moldemort_69:

(5, 43663), (Start: 10 @43765 has 7 MA's), (11, 43768), (Start: 24 @43837 has 105 MA's), (33, 43948), (46, 44122),

Gene: Mosby_62 Start: 43038, Stop: 43367, Start Num: 24

Candidate Starts for Mosby_62:

(5, 42567), (Start: 10 @42669 has 7 MA's), (11, 42672), (18, 42927), (Start: 24 @43038 has 105 MA's), (33, 43149), (46, 43323),

Gene: Murica_69 Start: 44690, Stop: 45019, Start Num: 24

Candidate Starts for Murica_69:

(5, 44219), (Start: 10 @44321 has 7 MA's), (11, 44324), (18, 44579), (Start: 24 @44690 has 105 MA's), (33, 44801), (46, 44975),

Gene: Murphy_66 Start: 44127, Stop: 44456, Start Num: 24

Candidate Starts for Murphy_66:

(5, 43656), (Start: 10 @43758 has 7 MA's), (11, 43761), (18, 44016), (Start: 24 @44127 has 105 MA's), (33, 44238), (46, 44412),

Gene: Myrale_66 Start: 44378, Stop: 44707, Start Num: 24

Candidate Starts for Myrale_66:

(1, 43778), (2, 43796), (4, 43904), (18, 44267), (Start: 24 @44378 has 105 MA's), (29, 44432), (36, 44558), (38, 44582), (44, 44621), (46, 44663),

Gene: Nala_68 Start: 44248, Stop: 44577, Start Num: 24

Candidate Starts for Nala_68:

(5, 43777), (Start: 10 @43879 has 7 MA's), (11, 43882), (18, 44137), (Start: 24 @44248 has 105 MA's), (33, 44359), (46, 44533),

Gene: Nebulosus_72 Start: 40929, Stop: 40513, Start Num: 20

Candidate Starts for Nebulosus_72:

(Start: 19 @40959 has 1 MA's), (Start: 20 @40929 has 10 MA's), (21, 40917), (27, 40827), (30, 40800), (40, 40644), (46, 40563),

Gene: Nebulosus_47 Start: 30099, Stop: 29740, Start Num: 23

Candidate Starts for Nebulosus_47:

(Start: 22 @30102 has 41 MA's), (Start: 23 @30099 has 19 MA's), (32, 29991), (47, 29775),

Gene: Neeharika16_65 Start: 39472, Stop: 39116, Start Num: 22

Candidate Starts for Neeharika16_65:

(17, 39550), (Start: 22 @39472 has 41 MA's), (34, 39328), (37, 39271), (42, 39202), (45, 39175), (47, 39148), (48, 39127),

Gene: NelitzaMV_64 Start: 43327, Stop: 43656, Start Num: 24

Candidate Starts for NelitzaMV_64:

(1, 42727), (2, 42745), (4, 42853), (18, 43216), (Start: 24 @43327 has 105 MA's), (29, 43381), (36, 43507), (38, 43531), (44, 43570), (46, 43612),

Gene: Newrala_68 Start: 40007, Stop: 39651, Start Num: 22

Candidate Starts for Newrala_68:

(17, 40085), (Start: 22 @40007 has 41 MA's), (34, 39863), (37, 39806), (42, 39737), (45, 39710), (47, 39683), (48, 39662),

Gene: Nimrod_67 Start: 44948, Stop: 45274, Start Num: 24

Candidate Starts for Nimrod_67:

(5, 44477), (Start: 10 @44579 has 7 MA's), (11, 44582), (18, 44837), (Start: 24 @44948 has 105 MA's), (33, 45056), (44, 45188), (46, 45230),

Gene: NoSleep_67 Start: 43585, Stop: 43914, Start Num: 24

Candidate Starts for NoSleep_67:

(5, 43411), (Start: 10 @43513 has 7 MA's), (11, 43516), (Start: 24 @43585 has 105 MA's), (33, 43696), (46, 43870),

Gene: Oofda_49 Start: 30194, Stop: 29835, Start Num: 23

Candidate Starts for Oofda_49:

(7, 30596), (9, 30512), (Start: 23 @30194 has 19 MA's), (32, 30086), (47, 29870),

Gene: OrionPax_65 Start: 43333, Stop: 43662, Start Num: 24

Candidate Starts for OrionPax_65:

(5, 42862), (Start: 10 @42964 has 7 MA's), (11, 42967), (18, 43222), (Start: 24 @43333 has 105 MA's), (33, 43444), (46, 43618),

Gene: PainterBoy_69 Start: 41636, Stop: 41277, Start Num: 22

Candidate Starts for PainterBoy_69:

(13, 41741), (14, 41738), (15, 41735), (Start: 22 @41636 has 41 MA's), (25, 41594), (28, 41561), (39, 41411), (41, 41366), (42, 41363), (48, 41288),

Gene: Palpatine_68 Start: 44720, Stop: 45046, Start Num: 24

Candidate Starts for Palpatine_68:

(5, 44249), (Start: 10 @44351 has 7 MA's), (11, 44354), (18, 44609), (Start: 24 @44720 has 105 MA's), (33, 44828), (44, 44960), (46, 45002),

Gene: Paperbeatsrock_65 Start: 43959, Stop: 44288, Start Num: 24

Candidate Starts for Paperbeatsrock_65:

(5, 43785), (Start: 10 @43887 has 7 MA's), (11, 43890), (Start: 24 @43959 has 105 MA's), (33, 44070), (46, 44244),

Gene: Pat3_64 Start: 42482, Stop: 42811, Start Num: 24

Candidate Starts for Pat3_64:

(1, 41882), (2, 41900), (4, 42008), (18, 42371), (Start: 24 @42482 has 105 MA's), (29, 42536), (36, 42662), (38, 42686), (44, 42725), (46, 42767),

Gene: Petra64142_70 Start: 45184, Stop: 45510, Start Num: 24

Candidate Starts for Petra64142_70:

(5, 44713), (Start: 10 @44815 has 7 MA's), (11, 44818), (18, 45073), (Start: 24 @45184 has 105 MA's), (33, 45292), (44, 45424), (46, 45466),

Gene: Phaja_64 Start: 43785, Stop: 44114, Start Num: 24

Candidate Starts for Phaja_64:

(5, 43611), (Start: 10 @43713 has 7 MA's), (11, 43716), (Start: 24 @43785 has 105 MA's), (33, 43896), (46, 44070),

Gene: Pharsalus_63 Start: 43687, Stop: 44088, Start Num: 10

Candidate Starts for Pharsalus_63:

(5, 43585), (Start: 10 @43687 has 7 MA's), (11, 43690), (Start: 24 @43759 has 105 MA's), (33, 43870), (46, 44044),

Gene: PhatBacter_70 Start: 44734, Stop: 45063, Start Num: 24

Candidate Starts for PhatBacter_70:

(5, 44263), (Start: 10 @44365 has 7 MA's), (11, 44368), (18, 44623), (Start: 24 @44734 has 105 MA's), (33, 44845), (46, 45019),

Gene: Phaux_68 Start: 44732, Stop: 45058, Start Num: 24

Candidate Starts for Phaux_68:

(5, 44261), (Start: 10 @44363 has 7 MA's), (11, 44366), (18, 44621), (Start: 24 @44732 has 105 MA's), (33, 44840), (44, 44972), (46, 45014),

Gene: Phrux_63 Start: 43325, Stop: 43654, Start Num: 24

Candidate Starts for Phrux_63:

(5, 42854), (Start: 10 @42956 has 7 MA's), (11, 42959), (18, 43214), (Start: 24 @43325 has 105 MA's), (33, 43436), (46, 43610),

Gene: Pmask_67 Start: 40008, Stop: 39652, Start Num: 22

Candidate Starts for Pmask_67:

(17, 40086), (Start: 22 @40008 has 41 MA's), (34, 39864), (37, 39807), (42, 39738), (45, 39711), (47, 39684), (48, 39663),

Gene: Policronamos_70 Start: 44732, Stop: 45058, Start Num: 24

Candidate Starts for Policronamos_70:

(5, 44261), (Start: 10 @44363 has 7 MA's), (11, 44366), (18, 44621), (Start: 24 @44732 has 105 MA's), (33, 44840), (44, 44972), (46, 45014),

Gene: Priamo_70 Start: 39859, Stop: 39503, Start Num: 22

Candidate Starts for Priamo_70:

(17, 39937), (Start: 22 @39859 has 41 MA's), (34, 39715), (37, 39658), (42, 39589), (45, 39562), (48, 39514),

Gene: Pumpkin_69 Start: 44383, Stop: 44712, Start Num: 24

Candidate Starts for Pumpkin_69:

(5, 43912), (Start: 10 @44014 has 7 MA's), (11, 44017), (18, 44272), (Start: 24 @44383 has 105 MA's), (33, 44494), (46, 44668),

Gene: Quallification_67 Start: 44367, Stop: 44696, Start Num: 24

Candidate Starts for Quallification_67:

(1, 43767), (2, 43785), (4, 43893), (18, 44256), (Start: 24 @44367 has 105 MA's), (29, 44421), (36, 44547), (38, 44571), (44, 44610), (46, 44652),

Gene: Rakim_67 Start: 43836, Stop: 44165, Start Num: 24

Candidate Starts for Rakim_67:

(5, 43662), (Start: 10 @43764 has 7 MA's), (11, 43767), (Start: 24 @43836 has 105 MA's), (33, 43947), (46, 44121),

Gene: ReMo_47 Start: 30100, Stop: 29741, Start Num: 23

Candidate Starts for ReMo_47:

(Start: 22 @30103 has 41 MA's), (Start: 23 @30100 has 19 MA's), (32, 29992), (47, 29776),

Gene: Remus_48 Start: 30019, Stop: 29660, Start Num: 23

Candidate Starts for Remus_48:

(6, 30424), (7, 30421), (9, 30337), (Start: 23 @30019 has 19 MA's), (32, 29911), (47, 29695),

Gene: Rifter_69 Start: 39572, Stop: 39216, Start Num: 22

Candidate Starts for Rifter_69:

(14, 39689), (15, 39686), (16, 39668), (Start: 22 @39572 has 41 MA's), (Start: 31 @39470 has 1 MA's), (35, 39425), (42, 39302), (45, 39275), (47, 39248), (48, 39227),

Gene: Rimmer_67 Start: 44075, Stop: 44404, Start Num: 24

Candidate Starts for Rimmer_67:

(1, 43475), (2, 43493), (4, 43601), (18, 43964), (Start: 24 @44075 has 105 MA's), (29, 44129), (36, 44255), (38, 44279), (44, 44318), (46, 44360),

Gene: RiverMonster_66 Start: 43903, Stop: 44232, Start Num: 24

Candidate Starts for RiverMonster_66:

(5, 43432), (Start: 10 @43534 has 7 MA's), (11, 43537), (18, 43792), (Start: 24 @43903 has 105 MA's), (33, 44014), (46, 44188),

Gene: Roksolana_70 Start: 40406, Stop: 40050, Start Num: 22

Candidate Starts for Roksolana_70:

(14, 40523), (15, 40520), (16, 40502), (Start: 22 @40406 has 41 MA's), (Start: 31 @40304 has 1 MA's), (35, 40259), (42, 40136), (45, 40109), (47, 40082), (48, 40061),

Gene: Rosalind_73 Start: 41184, Stop: 40768, Start Num: 20

Candidate Starts for Rosalind_73:

(Start: 19 @41214 has 1 MA's), (Start: 20 @41184 has 10 MA's), (21, 41172), (27, 41082), (30, 41055), (40, 40899), (46, 40818),

Gene: Rosalind_47 Start: 30222, Stop: 29863, Start Num: 23

Candidate Starts for Rosalind_47:

(7, 30624), (9, 30540), (Start: 23 @30222 has 19 MA's), (32, 30114), (47, 29898),

Gene: Saints25_65 Start: 43241, Stop: 43642, Start Num: 10

Candidate Starts for Saints25_65:

(5, 43139), (Start: 10 @43241 has 7 MA's), (11, 43244), (Start: 24 @43313 has 105 MA's), (33, 43424), (46, 43598),

Gene: Sassay_61 Start: 42000, Stop: 42329, Start Num: 24

Candidate Starts for Sassay_61:

(1, 41400), (2, 41418), (4, 41526), (18, 41889), (Start: 24 @42000 has 105 MA's), (29, 42054), (36, 42180), (38, 42204), (44, 42243), (46, 42285),

Gene: ShamWow_66 Start: 44222, Stop: 44551, Start Num: 24

Candidate Starts for ShamWow_66:

(5, 44048), (Start: 10 @44150 has 7 MA's), (11, 44153), (Start: 24 @44222 has 105 MA's), (33, 44333), (46, 44507),

Gene: ShayRa_49 Start: 30304, Stop: 29945, Start Num: 23

Candidate Starts for ShayRa_49:

(Start: 22 @30307 has 41 MA's), (Start: 23 @30304 has 19 MA's), (32, 30196), (47, 29980),

Gene: ShayRa_75 Start: 41213, Stop: 40797, Start Num: 20

Candidate Starts for ShayRa_75:

(Start: 19 @41243 has 1 MA's), (Start: 20 @41213 has 10 MA's), (21, 41201), (27, 41111), (30, 41084), (40, 40928), (46, 40847),

Gene: ShereKhan_65 Start: 44291, Stop: 44620, Start Num: 24

Candidate Starts for ShereKhan_65:

(1, 43691), (2, 43709), (4, 43817), (18, 44180), (Start: 24 @44291 has 105 MA's), (29, 44345), (36, 44471), (38, 44495), (44, 44534), (46, 44576),

Gene: Simpliphy_65 Start: 43303, Stop: 43632, Start Num: 24

Candidate Starts for Simpliphy_65:

(5, 43129), (Start: 10 @43231 has 7 MA's), (11, 43234), (Start: 24 @43303 has 105 MA's), (33, 43414), (46, 43588),

Gene: SirDuracell_65 Start: 42574, Stop: 42903, Start Num: 24

Candidate Starts for SirDuracell_65:

(1, 41974), (2, 41992), (4, 42100), (18, 42463), (Start: 24 @42574 has 105 MA's), (33, 42685), (46, 42859),

Gene: SmellyB_68 Start: 40040, Stop: 39684, Start Num: 22

Candidate Starts for SmellyB_68:

(17, 40118), (Start: 22 @40040 has 41 MA's), (26, 39974), (34, 39896), (37, 39839), (42, 39770), (43, 39764), (45, 39743), (47, 39716), (48, 39695),

Gene: SophKB_63 Start: 42978, Stop: 43307, Start Num: 24

Candidate Starts for SophKB_63:

(5, 42804), (Start: 10 @42906 has 7 MA's), (11, 42909), (Start: 24 @42978 has 105 MA's), (33, 43089), (46, 43263),

Gene: Sotrice96_67 Start: 43981, Stop: 44310, Start Num: 24

Candidate Starts for Sotrice96_67:

(1, 43381), (2, 43399), (4, 43507), (18, 43870), (Start: 24 @43981 has 105 MA's), (29, 44035), (36, 44161), (38, 44185), (44, 44224), (46, 44266),

Gene: Soups_48 Start: 30303, Stop: 29944, Start Num: 23

Candidate Starts for Soups_48:

(Start: 22 @30306 has 41 MA's), (Start: 23 @30303 has 19 MA's), (32, 30195), (47, 29979),

Gene: Soups_75 Start: 41477, Stop: 41061, Start Num: 20

Candidate Starts for Soups_75:

(Start: 19 @41507 has 1 MA's), (Start: 20 @41477 has 10 MA's), (21, 41465), (27, 41375), (30, 41348), (40, 41192), (46, 41111),

Gene: Stank_69 Start: 44236, Stop: 44565, Start Num: 24

Candidate Starts for Stank_69:

(5, 44062), (Start: 10 @44164 has 7 MA's), (11, 44167), (Start: 24 @44236 has 105 MA's), (33, 44347), (46, 44521),

Gene: Stark_67 Start: 43789, Stop: 44115, Start Num: 24

Candidate Starts for Stark_67:

(1, 43189), (2, 43207), (4, 43315), (18, 43678), (Start: 24 @43789 has 105 MA's), (33, 43897), (44, 44029), (46, 44071),

Gene: StellaBean_62 Start: 43546, Stop: 43875, Start Num: 24

Candidate Starts for StellaBean_62:

(5, 43372), (Start: 10 @43474 has 7 MA's), (11, 43477), (Start: 24 @43546 has 105 MA's), (33, 43657), (46, 43831),

Gene: StolenFromERC_69 Start: 44018, Stop: 44347, Start Num: 24

Candidate Starts for StolenFromERC_69:

(1, 43418), (2, 43436), (3, 43496), (4, 43544), (18, 43907), (Start: 24 @44018 has 105 MA's), (29, 44072), (36, 44198), (38, 44222), (44, 44261), (46, 44303),

Gene: Strosahl_48 Start: 30019, Stop: 29660, Start Num: 23

Candidate Starts for Strosahl_48:

(6, 30424), (7, 30421), (9, 30337), (Start: 23 @30019 has 19 MA's), (32, 29911), (47, 29695),

Gene: SuperAwesome_68 Start: 40045, Stop: 39689, Start Num: 22

Candidate Starts for SuperAwesome_68:

(17, 40123), (Start: 22 @40045 has 41 MA's), (34, 39901), (37, 39844), (42, 39775), (45, 39748), (47, 39721), (48, 39700),

Gene: SuperCallie99_65 Start: 39892, Stop: 39536, Start Num: 22

Candidate Starts for SuperCallie99_65:

(17, 39970), (Start: 22 @39892 has 41 MA's), (34, 39748), (37, 39691), (42, 39622), (45, 39595), (47, 39568), (48, 39547),

Gene: Switzerland_48 Start: 30402, Stop: 30043, Start Num: 23

Candidate Starts for Switzerland_48:

(7, 30804), (9, 30720), (Start: 23 @30402 has 19 MA's), (32, 30294), (47, 30078),

Gene: Switzerland_74 Start: 41352, Stop: 40936, Start Num: 20

Candidate Starts for Switzerland_74:

(Start: 19 @41382 has 1 MA's), (Start: 20 @41352 has 10 MA's), (21, 41340), (27, 41250), (30, 41223), (40, 41067), (46, 40986),

Gene: TBrady12_69 Start: 43720, Stop: 44049, Start Num: 24

Candidate Starts for TBrady12_69:

(5, 43546), (Start: 10 @43648 has 7 MA's), (11, 43651), (Start: 24 @43720 has 105 MA's), (33, 43831), (46, 44005),

Gene: Tarkin_65 Start: 43968, Stop: 44297, Start Num: 24

Candidate Starts for Tarkin_65:

(5, 43794), (Start: 10 @43896 has 7 MA's), (11, 43899), (Start: 24 @43968 has 105 MA's), (33, 44079), (46, 44253),

Gene: TeardropMSU_62 Start: 42968, Stop: 43297, Start Num: 24

Candidate Starts for TeardropMSU_62:

(5, 42794), (Start: 10 @42896 has 7 MA's), (11, 42899), (Start: 24 @42968 has 105 MA's), (33, 43079), (46, 43253),

Gene: Teaspoon_63 Start: 43862, Stop: 44191, Start Num: 24

Candidate Starts for Teaspoon_63:

(5, 43688), (Start: 10 @43790 has 7 MA's), (11, 43793), (Start: 24 @43862 has 105 MA's), (33, 43973), (46, 44147),

Gene: Terminus_69 Start: 44755, Stop: 45084, Start Num: 24

Candidate Starts for Terminus_69:

(5, 44284), (Start: 10 @44386 has 7 MA's), (11, 44389), (18, 44644), (Start: 24 @44755 has 105 MA's), (33, 44866), (46, 45040),

Gene: Thresher_68 Start: 44845, Stop: 45174, Start Num: 24

Candidate Starts for Thresher_68:

(5, 44671), (Start: 10 @44773 has 7 MA's), (11, 44776), (Start: 24 @44845 has 105 MA's), (33, 44956), (46, 45130),

Gene: Tomaszewski_61 Start: 43134, Stop: 43463, Start Num: 24

Candidate Starts for Tomaszewski_61:

(1, 42534), (2, 42552), (4, 42660), (18, 43023), (Start: 24 @43134 has 105 MA's), (29, 43188), (36, 43314), (38, 43338), (44, 43377), (46, 43419),

Gene: ToneTone_66 Start: 39971, Stop: 39615, Start Num: 22

Candidate Starts for ToneTone_66:

(14, 40088), (15, 40085), (16, 40067), (Start: 22 @39971 has 41 MA's), (Start: 31 @39869 has 1 MA's), (35, 39824), (42, 39701), (45, 39674), (47, 39647), (48, 39626),

Gene: Toto_64 Start: 44222, Stop: 44551, Start Num: 24

Candidate Starts for Toto_64:

(5, 44048), (Start: 10 @44150 has 7 MA's), (11, 44153), (Start: 24 @44222 has 105 MA's), (33, 44333), (46, 44507),

Gene: Tucker_69 Start: 40174, Stop: 39818, Start Num: 22

Candidate Starts for Tucker_69:

(14, 40291), (15, 40288), (16, 40270), (Start: 22 @40174 has 41 MA's), (Start: 31 @40072 has 1 MA's), (35, 40027), (42, 39904), (45, 39877), (47, 39850), (48, 39829),

Gene: VohminGhazi_68 Start: 40041, Stop: 39685, Start Num: 22

Candidate Starts for VohminGhazi_68:

(17, 40119), (Start: 22 @40041 has 41 MA's), (26, 39975), (34, 39897), (37, 39840), (42, 39771), (43, 39765), (45, 39744), (47, 39717), (48, 39696),

Gene: Waits_48 Start: 30191, Stop: 29832, Start Num: 23

Candidate Starts for Waits_48:

(7, 30593), (9, 30509), (Start: 23 @30191 has 19 MA's), (32, 30083), (47, 29867),

Gene: Wiggin_68 Start: 43804, Stop: 44133, Start Num: 24

Candidate Starts for Wiggin_68:

(5, 43630), (Start: 10 @43732 has 7 MA's), (11, 43735), (Start: 24 @43804 has 105 MA's), (33, 43915), (46, 44089),

Gene: Wiks_68 Start: 40042, Stop: 39686, Start Num: 22

Candidate Starts for Wiks_68:

(14, 40159), (15, 40156), (16, 40138), (Start: 22 @40042 has 41 MA's), (Start: 31 @39940 has 1 MA's), (35, 39895), (42, 39772), (45, 39745), (47, 39718), (48, 39697),

Gene: Willez_61 Start: 42000, Stop: 42329, Start Num: 24

Candidate Starts for Willez_61:

(1, 41400), (2, 41418), (4, 41526), (18, 41889), (Start: 24 @42000 has 105 MA's), (29, 42054), (36, 42180), (38, 42204), (44, 42243), (46, 42285),

Gene: WunderPhul_69 Start: 40040, Stop: 39684, Start Num: 22

Candidate Starts for WunderPhul_69:

(14, 40157), (15, 40154), (16, 40136), (Start: 22 @40040 has 41 MA's), (Start: 31 @39938 has 1 MA's), (35, 39893), (42, 39770), (45, 39743), (47, 39716), (48, 39695),

Gene: Xandras_65 Start: 43215, Stop: 43544, Start Num: 24

Candidate Starts for Xandras_65:

(5, 43041), (Start: 10 @43143 has 7 MA's), (11, 43146), (Start: 24 @43215 has 105 MA's), (33, 43326), (46, 43500),

Gene: YassJohnny_63 Start: 43173, Stop: 43502, Start Num: 24

Candidate Starts for YassJohnny_63:

(5, 42702), (Start: 10 @42804 has 7 MA's), (11, 42807), (18, 43062), (Start: 24 @43173 has 105 MA's), (29, 43227), (36, 43353), (38, 43377), (44, 43416), (46, 43458),

Gene: Yokurt_68 Start: 40042, Stop: 39686, Start Num: 22

Candidate Starts for Yokurt_68:

(14, 40159), (15, 40156), (16, 40138), (Start: 22 @40042 has 41 MA's), (Start: 31 @39940 has 1 MA's), (35, 39895), (42, 39772), (45, 39745), (47, 39718), (48, 39697),

Gene: Youngblood_69 Start: 44685, Stop: 45014, Start Num: 24

Candidate Starts for Youngblood_69:

(5, 44214), (Start: 10 @44316 has 7 MA's), (11, 44319), (18, 44574), (Start: 24 @44685 has 105 MA's), (33, 44796), (46, 44970),

Gene: Zaka_69 Start: 40042, Stop: 39686, Start Num: 22

Candidate Starts for Zaka_69:

(14, 40159), (15, 40156), (16, 40138), (Start: 22 @40042 has 41 MA's), (Start: 31 @39940 has 1 MA's), (35, 39895), (42, 39772), (45, 39745), (47, 39718), (48, 39697),

Gene: Zulu_70 Start: 40420, Stop: 40064, Start Num: 22

Candidate Starts for Zulu_70:

(14, 40537), (15, 40534), (16, 40516), (Start: 22 @40420 has 41 MA's), (Start: 31 @40318 has 1 MA's), (35, 40273), (42, 40150), (45, 40123), (47, 40096), (48, 40075),

Gene: xkcd_69 Start: 44875, Stop: 45204, Start Num: 24

Candidate Starts for xkcd_69:

(5, 44404), (Start: 10 @44506 has 7 MA's), (11, 44509), (18, 44764), (Start: 24 @44875 has 105 MA's), (33, 44986), (46, 45160),