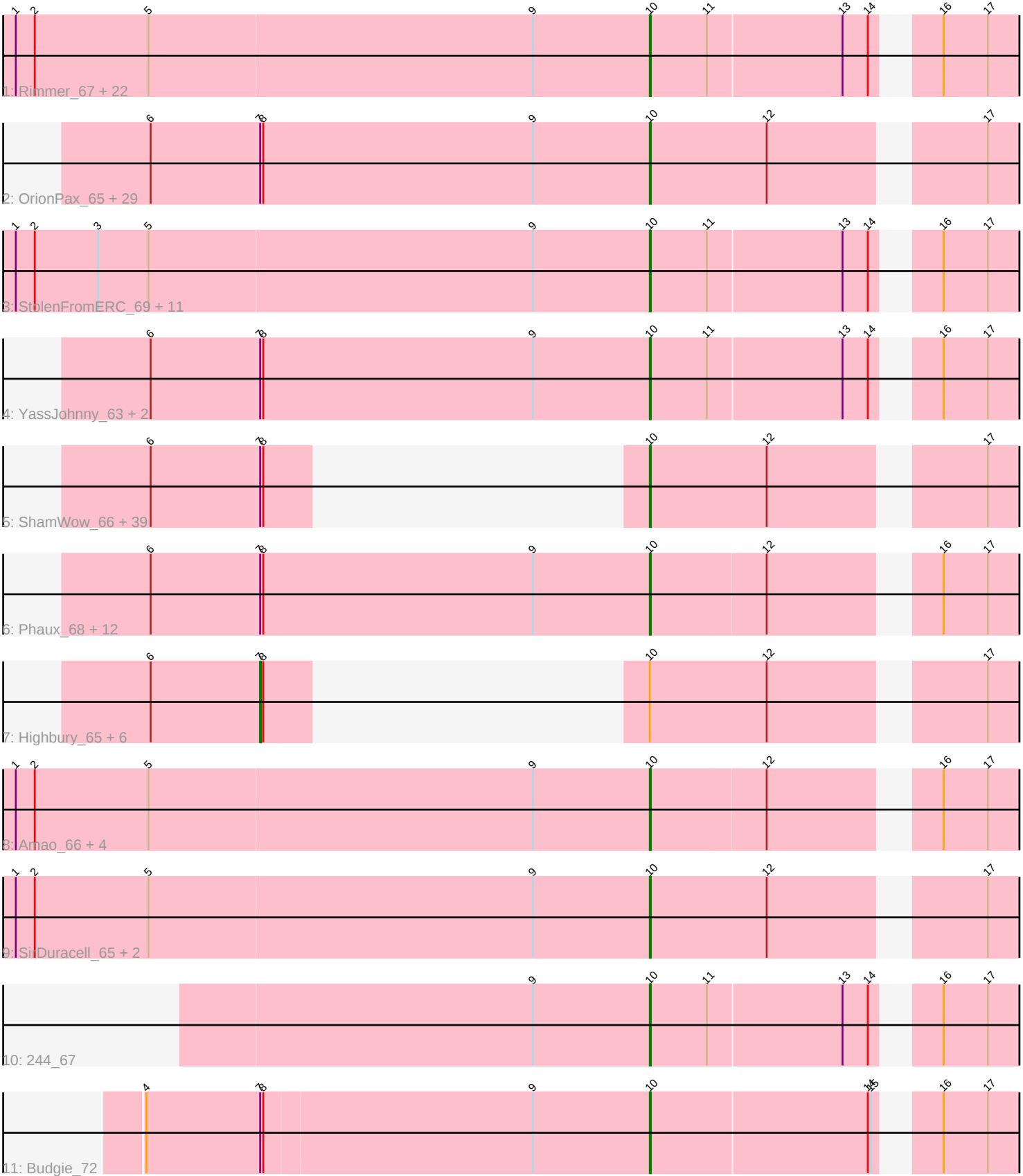


Pham 324949



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 324949 Report

This analysis was run 09/05/26 on database version 662.

Pham number 324949 has 138 members, 11 are drafts.

Phages represented in each track:

- Track 1 : Rimmer_67, MollyToe_61, Quallification_67, NelitzaMV_64, Pat3_64, Tomaszewski_61, Marshmallow_64, Sotrice96_67, Icee_67, Sassay_61, Buck_67, Cactus_69, Glexan_65, Kanye_63, FairyPath_67, Cookies_63, Harella_66, Balomoji_66, Myrale_66, Flypotenuse_62, Daikon_68, ShereKhan_65, Willez_61
- Track 2 : OrionPax_65, BaboJay_63, Nala_68, Czyszczonek_67, RiverMonster_66, Becksu_65, Bogg_66, MPhalcon_67, Elph10_66, Bench_69, Pumpkin_69, StormChicken_68, Lilizi_67, Misfit_67, Maxxinista_68, PhatBacter_70, Murica_69, Terminus_69, Murphy_66, xkcd_69, Youngblood_69, Phrux_63, Bruin_63, Cjw1_66, HuffyPuff_69, Contagion_62, FireRed_70, PaddyBaddy_66, Mosby_62, MISSy_67
- Track 3 : StolenFromERC_69, Thimble_67, Hoonter_69, Gage_68, GoldenSpark_70, AmericanBeauty_70, GooberAzure_69, Gemini_71, Brewer_62, Kimchi_70, Argent26_70, Holt_71
- Track 4 : YassJohnny_63, Goldilocks_69, Command613_68
- Track 5 : ShamWow_66, MadamMonkfish_66, StellaBean_64, Stank_69, BilboSwaggins_64, Miniwave_61, Mindy_65, TeardropMSU_62, Manda_66, BigBubba_66, TBrady12_69, IHOP_64, Easy2Say_67, Adnama_70, Toto_64, Kostya_66, SophKB_63, CrystalP_65, ABCat_63, Elite2014_65, Thresher_68, ChosenOne_66, NoSleep_67, Inca_63, Asriel_65, Teaspoon_67, Rakim_67, Moldemort_69, Emmina_66, Tarkin_65, Paperbeatsrock_65, Simpliphy_65, NonchalantPear_66, Barbarian_65, Lilpickle_65, Phaja_64, Wiggin_68, Xandras_65, Filch_67, Ptowny_63
- Track 6 : Phaux_68, FoghornLeghorn_60, Lilac_68, Greep_70, Hopey_66, Nimrod_67, Liveloughbron_68, Policronamos_69, Palpatine_68, BugsBunny_66, DrDrey_66, Petra64142_70, TeamEdward_68
- Track 7 : Highbury_65, Dumbo_66, Eureka_64, Goku_64, Pharsalus_63, Henry_64, Saints25_65
- Track 8 : Amao_66, JeTaime_66, ChotaBhai_66, Stark_67, HanKaySha_66
- Track 9 : SirDuracell_65, DoctorDiddles_65, Bask21_66
- Track 10 : 244_67
- Track 11 : Budgie_72

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

The start number called the most often in the published annotations is 10, it was called in 120 of the 127 non-draft genes in the pham.

Genes that call this "Most Annotated" start:

- 244_67, ABCat_63, Adnama_70, Amao_66, AmericanBeauty_70, Argent26_70, Asriel_65, BaboJay_63, Balomoji_66, Barbarian_65, Bask21_66, Becksu_65, Bench_69, BigBubba_66, BilboSwaggins_64, Bogg_66, Brewer_62, Bruin_63, Buck_67, Budgie_72, 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, FairyPath_67, Filch_67, FireRed_70, Flypotenuse_62, FoghornLeghorn_60, Gage_68, Gemini_71, Glexan_65, GoldenSpark_70, Goldilocks_69, GooberAzure_69, Greep_70, HanKaySha_66, Harella_66, Holt_71, Hoonter_69, Hopey_66, HufflyPuff_69, IHOP_64, Icee_67, Inca_63, JeTaimie_66, Kanye_63, Kimchi_70, Kostya_66, Lilac_68, Lilizi_67, Lilpickle_65, Liveloughbron_68, MISSy_67, MPhalcon_67, MadamMonkfish_66, Manda_66, Marshmallow_64, Maxxinista_68, Mindy_65, Miniwave_61, Misfit_67, Moldemort_69, MollyToe_61, Mosby_62, Murica_69, Murphy_66, Myrale_66, Nala_68, NelitzaMV_64, Nimrod_67, NoSleep_67, NonchalantPear_66, OrionPax_65, PaddyBaddy_66, Palpatine_68, Paperbeatsrock_65, Pat3_64, Petra64142_70, Phaja_64, PhatBacter_70, Phaux_68, Phrux_63, Policronamos_69, Ptowny_63, 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_64, StolenFromERC_69, StormChicken_68, TBrady12_69, Tarkin_65, TeamEdward_68, TeardropMSU_62, Teaspoon_67, Terminus_69, Thimble_67, 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:

-

Summary by start number:

Start 7:

- Found in 94 of 138 (68.1%) of genes in pham
- Manual Annotations of this start: 7 of 127
- Called 7.4% 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 10:

- Found in 138 of 138 (100.0%) of genes in pham
- Manual Annotations of this start: 120 of 127
- Called 94.9% of time when present
- Phage (with cluster) where this start called: 244_67 (E), ABCat_63 (E), Adnama_70 (E), Amao_66 (E), AmericanBeauty_70 (E), Argent26_70 (E), Asriel_65 (E), BaboJay_63 (E), Balomoji_66 (E), Barbarian_65 (E), Bask21_66 (E), Becksu_65 (E), Bench_69 (E), BigBubba_66 (E), BilboSwaggins_64 (E), Bogg_66 (E), Brewer_62

(E), Bruin_63 (E), Buck_67 (E), Budgie_72 (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), Czystaczon1_67 (E), Daikon_68 (E), DoctorDiddles_65 (E), DrDrey_66 (E), Easy2Say_67 (E), Elite2014_65 (E), Elph10_66 (E), Emmina_66 (E), FairyPath_67 (E), Filch_67 (E), FireRed_70 (E), Flypotenuse_62 (E), FoghornLeghorn_60 (E), Gage_68 (E), Gemini_71 (E), Glexan_65 (E), GoldenSpark_70 (E), Goldilocks_69 (E), GooberAzure_69 (E), Greep_70 (E), HanKaySha_66 (E), Harella_66 (E), Holt_71 (E), Hoonter_69 (E), Hopey_66 (E), HuffyPuff_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), Liveloughbron_68 (E), MISSy_67 (E), MPhalcon_67 (E), MadamMonkfish_66 (E), Manda_66 (E), Marshmallow_64 (E), Maxxinsta_68 (E), Mindy_65 (E), Miniwave_61 (E), Misfit_67 (E), Moldemort_69 (E), MollyToe_61 (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), NonchalantPear_66 (E), OrionPax_65 (E), PaddyBaddy_66 (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_69 (E), Ptowny_63 (E), Pumpkin_69 (E), Qualification_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_64 (E), StolenFromERC_69 (E), StormChicken_68 (E), TBrady12_69 (E), Tarkin_65 (E), TeamEdward_68 (E), TeardropMSU_62 (E), Teaspoon_67 (E), Terminus_69 (E), Thimble_67 (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),

Summary by clusters:

There is one cluster represented in this pham: E

Info for manual annotations of cluster E:

- Start number 7 was manually annotated 7 times for cluster E.
- Start number 10 was manually annotated 120 times for cluster E.

Gene Information:

Gene: 244_67 Start: 43867, Stop: 44196, Start Num: 10

Candidate Starts for 244_67:

(9, 43756), (Start: 10 @43867 has 120 MA's), (11, 43921), (13, 44047), (14, 44071), (16, 44110), (17, 44152),

Gene: ABCat_63 Start: 44214, Stop: 44543, Start Num: 10

Candidate Starts for ABCat_63:

(6, 44040), (Start: 7 @44142 has 7 MA's), (8, 44145), (Start: 10 @44214 has 120 MA's), (12, 44325), (17, 44499),

Gene: Adnama_70 Start: 44237, Stop: 44566, Start Num: 10

Candidate Starts for Adnama_70:

(6, 44063), (Start: 7 @44165 has 7 MA's), (8, 44168), (Start: 10 @44237 has 120 MA's), (12, 44348), (17, 44522),

Gene: Amao_66 Start: 43625, Stop: 43951, Start Num: 10

Candidate Starts for Amao_66:

(1, 43025), (2, 43043), (5, 43151), (9, 43514), (Start: 10 @43625 has 120 MA's), (12, 43733), (16, 43865), (17, 43907),

Gene: AmericanBeauty_70 Start: 44380, Stop: 44709, Start Num: 10

Candidate Starts for AmericanBeauty_70:

(1, 43780), (2, 43798), (3, 43858), (5, 43906), (9, 44269), (Start: 10 @44380 has 120 MA's), (11, 44434), (13, 44560), (14, 44584), (16, 44623), (17, 44665),

Gene: Argent26_70 Start: 44018, Stop: 44347, Start Num: 10

Candidate Starts for Argent26_70:

(1, 43418), (2, 43436), (3, 43496), (5, 43544), (9, 43907), (Start: 10 @44018 has 120 MA's), (11, 44072), (13, 44198), (14, 44222), (16, 44261), (17, 44303),

Gene: Asriel_65 Start: 42574, Stop: 42903, Start Num: 10

Candidate Starts for Asriel_65:

(6, 42400), (Start: 7 @42502 has 7 MA's), (8, 42505), (Start: 10 @42574 has 120 MA's), (12, 42685), (17, 42859),

Gene: BaboJay_63 Start: 43411, Stop: 43740, Start Num: 10

Candidate Starts for BaboJay_63:

(6, 42940), (Start: 7 @43042 has 7 MA's), (8, 43045), (9, 43300), (Start: 10 @43411 has 120 MA's), (12, 43522), (17, 43696),

Gene: Balomoji_66 Start: 44344, Stop: 44673, Start Num: 10

Candidate Starts for Balomoji_66:

(1, 43744), (2, 43762), (5, 43870), (9, 44233), (Start: 10 @44344 has 120 MA's), (11, 44398), (13, 44524), (14, 44548), (16, 44587), (17, 44629),

Gene: Barbarian_65 Start: 42574, Stop: 42903, Start Num: 10

Candidate Starts for Barbarian_65:

(6, 42400), (Start: 7 @42502 has 7 MA's), (8, 42505), (Start: 10 @42574 has 120 MA's), (12, 42685), (17, 42859),

Gene: Bask21_66 Start: 43185, Stop: 43514, Start Num: 10

Candidate Starts for Bask21_66:

(1, 42585), (2, 42603), (5, 42711), (9, 43074), (Start: 10 @43185 has 120 MA's), (12, 43296), (17, 43470),

Gene: Becksu_65 Start: 44413, Stop: 44742, Start Num: 10

Candidate Starts for Becksu_65:

(6, 43942), (Start: 7 @44044 has 7 MA's), (8, 44047), (9, 44302), (Start: 10 @44413 has 120 MA's), (12, 44524), (17, 44698),

Gene: Bench_69 Start: 43848, Stop: 44213, Start Num: 10

Candidate Starts for Bench_69:

(6, 43377), (Start: 7 @43479 has 7 MA's), (8, 43482), (9, 43737), (Start: 10 @43848 has 120 MA's), (12, 43959), (17, 44169),

Gene: BigBubba_66 Start: 43593, Stop: 43922, Start Num: 10

Candidate Starts for BigBubba_66:

(6, 43419), (Start: 7 @43521 has 7 MA's), (8, 43524), (Start: 10 @43593 has 120 MA's), (12, 43704), (17, 43878),

Gene: BilboSwaggins_64 Start: 44222, Stop: 44551, Start Num: 10

Candidate Starts for BilboSwaggins_64:

(6, 44048), (Start: 7 @44150 has 7 MA's), (8, 44153), (Start: 10 @44222 has 120 MA's), (12, 44333), (17, 44507),

Gene: Bogg_66 Start: 43163, Stop: 43492, Start Num: 10

Candidate Starts for Bogg_66:

(6, 42692), (Start: 7 @42794 has 7 MA's), (8, 42797), (9, 43052), (Start: 10 @43163 has 120 MA's), (12, 43274), (17, 43448),

Gene: Brewer_62 Start: 42680, Stop: 43009, Start Num: 10

Candidate Starts for Brewer_62:

(1, 42080), (2, 42098), (3, 42158), (5, 42206), (9, 42569), (Start: 10 @42680 has 120 MA's), (11, 42734), (13, 42860), (14, 42884), (16, 42923), (17, 42965),

Gene: Bruin_63 Start: 42757, Stop: 43086, Start Num: 10

Candidate Starts for Bruin_63:

(6, 42286), (Start: 7 @42388 has 7 MA's), (8, 42391), (9, 42646), (Start: 10 @42757 has 120 MA's), (12, 42868), (17, 43042),

Gene: Buck_67 Start: 44465, Stop: 44794, Start Num: 10

Candidate Starts for Buck_67:

(1, 43865), (2, 43883), (5, 43991), (9, 44354), (Start: 10 @44465 has 120 MA's), (11, 44519), (13, 44645), (14, 44669), (16, 44708), (17, 44750),

Gene: Budgie_72 Start: 44396, Stop: 44731, Start Num: 10

Candidate Starts for Budgie_72:

(4, 43922), (Start: 7 @44030 has 7 MA's), (8, 44033), (9, 44285), (Start: 10 @44396 has 120 MA's), (14, 44600), (15, 44603), (16, 44639), (17, 44681),

Gene: BugsBunny_66 Start: 44295, Stop: 44621, Start Num: 10

Candidate Starts for BugsBunny_66:

(6, 43824), (Start: 7 @43926 has 7 MA's), (8, 43929), (9, 44184), (Start: 10 @44295 has 120 MA's), (12, 44403), (16, 44535), (17, 44577),

Gene: Cactus_69 Start: 43238, Stop: 43567, Start Num: 10

Candidate Starts for Cactus_69:

(1, 42638), (2, 42656), (5, 42764), (9, 43127), (Start: 10 @43238 has 120 MA's), (11, 43292), (13, 43418), (14, 43442), (16, 43481), (17, 43523),

Gene: ChosenOne_66 Start: 43241, Stop: 43570, Start Num: 10

Candidate Starts for ChosenOne_66:

(6, 43067), (Start: 7 @43169 has 7 MA's), (8, 43172), (Start: 10 @43241 has 120 MA's), (12, 43352), (17, 43526),

Gene: ChotaBhai_66 Start: 43556, Stop: 43882, Start Num: 10

Candidate Starts for ChotaBhai_66:

(1, 42956), (2, 42974), (5, 43082), (9, 43445), (Start: 10 @43556 has 120 MA's), (12, 43664), (16, 43796), (17, 43838),

Gene: Cjw1_66 Start: 44938, Stop: 45267, Start Num: 10

Candidate Starts for Cjw1_66:

(6, 44467), (Start: 7 @44569 has 7 MA's), (8, 44572), (9, 44827), (Start: 10 @44938 has 120 MA's), (12, 45049), (17, 45223),

Gene: Command613_68 Start: 44277, Stop: 44606, Start Num: 10

Candidate Starts for Command613_68:

(6, 43806), (Start: 7 @43908 has 7 MA's), (8, 43911), (9, 44166), (Start: 10 @44277 has 120 MA's), (11, 44331), (13, 44457), (14, 44481), (16, 44520), (17, 44562),

Gene: Contagion_62 Start: 43038, Stop: 43367, Start Num: 10

Candidate Starts for Contagion_62:

(6, 42567), (Start: 7 @42669 has 7 MA's), (8, 42672), (9, 42927), (Start: 10 @43038 has 120 MA's), (12, 43149), (17, 43323),

Gene: Cookies_63 Start: 43407, Stop: 43736, Start Num: 10

Candidate Starts for Cookies_63:

(1, 42807), (2, 42825), (5, 42933), (9, 43296), (Start: 10 @43407 has 120 MA's), (11, 43461), (13, 43587), (14, 43611), (16, 43650), (17, 43692),

Gene: CrystalP_65 Start: 44222, Stop: 44551, Start Num: 10

Candidate Starts for CrystalP_65:

(6, 44048), (Start: 7 @44150 has 7 MA's), (8, 44153), (Start: 10 @44222 has 120 MA's), (12, 44333), (17, 44507),

Gene: Czyszczone1_67 Start: 43747, Stop: 44076, Start Num: 10

Candidate Starts for Czyszczone1_67:

(6, 43276), (Start: 7 @43378 has 7 MA's), (8, 43381), (9, 43636), (Start: 10 @43747 has 120 MA's), (12, 43858), (17, 44032),

Gene: Daikon_68 Start: 44365, Stop: 44694, Start Num: 10

Candidate Starts for Daikon_68:

(1, 43765), (2, 43783), (5, 43891), (9, 44254), (Start: 10 @44365 has 120 MA's), (11, 44419), (13, 44545), (14, 44569), (16, 44608), (17, 44650),

Gene: DoctorDiddles_65 Start: 43597, Stop: 43926, Start Num: 10

Candidate Starts for DoctorDiddles_65:

(1, 42997), (2, 43015), (5, 43123), (9, 43486), (Start: 10 @43597 has 120 MA's), (12, 43708), (17, 43882),

Gene: DrDrey_66 Start: 44666, Stop: 44992, Start Num: 10

Candidate Starts for DrDrey_66:

(6, 44195), (Start: 7 @44297 has 7 MA's), (8, 44300), (9, 44555), (Start: 10 @44666 has 120 MA's), (12, 44774), (16, 44906), (17, 44948),

Gene: Dumbo_66 Start: 43074, Stop: 43475, Start Num: 7

Candidate Starts for Dumbo_66:

(6, 42972), (Start: 7 @43074 has 7 MA's), (8, 43077), (Start: 10 @43146 has 120 MA's), (12, 43257), (17, 43431),

Gene: Easy2Say_67 Start: 44684, Stop: 45013, Start Num: 10

Candidate Starts for Easy2Say_67:

(6, 44510), (Start: 7 @44612 has 7 MA's), (8, 44615), (Start: 10 @44684 has 120 MA's), (12, 44795), (17, 44969),

Gene: Elite2014_65 Start: 43240, Stop: 43569, Start Num: 10

Candidate Starts for Elite2014_65:

(6, 43066), (Start: 7 @43168 has 7 MA's), (8, 43171), (Start: 10 @43240 has 120 MA's), (12, 43351), (17, 43525),

Gene: Elph10_66 Start: 43245, Stop: 43574, Start Num: 10

Candidate Starts for Elph10_66:

(6, 42774), (Start: 7 @42876 has 7 MA's), (8, 42879), (9, 43134), (Start: 10 @43245 has 120 MA's), (12, 43356), (17, 43530),

Gene: Emmina_66 Start: 43147, Stop: 43476, Start Num: 10

Candidate Starts for Emmina_66:

(6, 42973), (Start: 7 @43075 has 7 MA's), (8, 43078), (Start: 10 @43147 has 120 MA's), (12, 43258), (17, 43432),

Gene: Eureka_64 Start: 43639, Stop: 44040, Start Num: 7

Candidate Starts for Eureka_64:

(6, 43537), (Start: 7 @43639 has 7 MA's), (8, 43642), (Start: 10 @43711 has 120 MA's), (12, 43822), (17, 43996),

Gene: FairyPath_67 Start: 44356, Stop: 44685, Start Num: 10

Candidate Starts for FairyPath_67:

(1, 43756), (2, 43774), (5, 43882), (9, 44245), (Start: 10 @44356 has 120 MA's), (11, 44410), (13, 44536), (14, 44560), (16, 44599), (17, 44641),

Gene: Filch_67 Start: 43172, Stop: 43501, Start Num: 10

Candidate Starts for Filch_67:

(6, 42998), (Start: 7 @43100 has 7 MA's), (8, 43103), (Start: 10 @43172 has 120 MA's), (12, 43283), (17, 43457),

Gene: FireRed_70 Start: 44734, Stop: 45063, Start Num: 10

Candidate Starts for FireRed_70:

(6, 44263), (Start: 7 @44365 has 7 MA's), (8, 44368), (9, 44623), (Start: 10 @44734 has 120 MA's), (12, 44845), (17, 45019),

Gene: Flypotenuse_62 Start: 43228, Stop: 43557, Start Num: 10

Candidate Starts for Flypotenuse_62:

(1, 42628), (2, 42646), (5, 42754), (9, 43117), (Start: 10 @43228 has 120 MA's), (11, 43282), (13, 43408), (14, 43432), (16, 43471), (17, 43513),

Gene: FoghornLeghorn_60 Start: 42241, Stop: 42567, Start Num: 10

Candidate Starts for FoghornLeghorn_60:

(6, 41770), (Start: 7 @41872 has 7 MA's), (8, 41875), (9, 42130), (Start: 10 @42241 has 120 MA's), (12, 42349), (16, 42481), (17, 42523),

Gene: Gage_68 Start: 44018, Stop: 44347, Start Num: 10

Candidate Starts for Gage_68:

(1, 43418), (2, 43436), (3, 43496), (5, 43544), (9, 43907), (Start: 10 @44018 has 120 MA's), (11, 44072), (13, 44198), (14, 44222), (16, 44261), (17, 44303),

Gene: Gemini_71 Start: 44535, Stop: 44864, Start Num: 10

Candidate Starts for Gemini_71:

(1, 43935), (2, 43953), (3, 44013), (5, 44061), (9, 44424), (Start: 10 @44535 has 120 MA's), (11, 44589), (13, 44715), (14, 44739), (16, 44778), (17, 44820),

Gene: Glexan_65 Start: 44355, Stop: 44684, Start Num: 10

Candidate Starts for Glexan_65:

(1, 43755), (2, 43773), (5, 43881), (9, 44244), (Start: 10 @44355 has 120 MA's), (11, 44409), (13, 44535), (14, 44559), (16, 44598), (17, 44640),

Gene: Goku_64 Start: 43368, Stop: 43769, Start Num: 7

Candidate Starts for Goku_64:

(6, 43266), (Start: 7 @43368 has 7 MA's), (8, 43371), (Start: 10 @43440 has 120 MA's), (12, 43551), (17, 43725),

Gene: GoldenSpark_70 Start: 44018, Stop: 44347, Start Num: 10

Candidate Starts for GoldenSpark_70:

(1, 43418), (2, 43436), (3, 43496), (5, 43544), (9, 43907), (Start: 10 @44018 has 120 MA's), (11, 44072), (13, 44198), (14, 44222), (16, 44261), (17, 44303),

Gene: Goldilocks_69 Start: 43519, Stop: 43848, Start Num: 10

Candidate Starts for Goldilocks_69:

(6, 43048), (Start: 7 @43150 has 7 MA's), (8, 43153), (9, 43408), (Start: 10 @43519 has 120 MA's), (11, 43573), (13, 43699), (14, 43723), (16, 43762), (17, 43804),

Gene: GooberAzure_69 Start: 44018, Stop: 44347, Start Num: 10

Candidate Starts for GooberAzure_69:

(1, 43418), (2, 43436), (3, 43496), (5, 43544), (9, 43907), (Start: 10 @44018 has 120 MA's), (11, 44072), (13, 44198), (14, 44222), (16, 44261), (17, 44303),

Gene: Greep_70 Start: 45026, Stop: 45352, Start Num: 10

Candidate Starts for Greep_70:

(6, 44555), (Start: 7 @44657 has 7 MA's), (8, 44660), (9, 44915), (Start: 10 @45026 has 120 MA's), (12, 45134), (16, 45266), (17, 45308),

Gene: HanKaySha_66 Start: 43328, Stop: 43654, Start Num: 10

Candidate Starts for HanKaySha_66:

(1, 42728), (2, 42746), (5, 42854), (9, 43217), (Start: 10 @43328 has 120 MA's), (12, 43436), (16, 43568), (17, 43610),

Gene: Harella_66 Start: 44871, Stop: 45200, Start Num: 10

Candidate Starts for Harella_66:

(1, 44271), (2, 44289), (5, 44397), (9, 44760), (Start: 10 @44871 has 120 MA's), (11, 44925), (13, 45051), (14, 45075), (16, 45114), (17, 45156),

Gene: Henry_64 Start: 43590, Stop: 43991, Start Num: 7

Candidate Starts for Henry_64:

(6, 43488), (Start: 7 @43590 has 7 MA's), (8, 43593), (Start: 10 @43662 has 120 MA's), (12, 43773), (17, 43947),

Gene: Highbury_65 Start: 43241, Stop: 43642, Start Num: 7

Candidate Starts for Highbury_65:

(6, 43139), (Start: 7 @43241 has 7 MA's), (8, 43244), (Start: 10 @43313 has 120 MA's), (12, 43424), (17, 43598),

Gene: Holt_71 Start: 44432, Stop: 44761, Start Num: 10

Candidate Starts for Holt_71:

(1, 43832), (2, 43850), (3, 43910), (5, 43958), (9, 44321), (Start: 10 @44432 has 120 MA's), (11, 44486), (13, 44612), (14, 44636), (16, 44675), (17, 44717),

Gene: Hoonter_69 Start: 44018, Stop: 44347, Start Num: 10

Candidate Starts for Hoonter_69:

(1, 43418), (2, 43436), (3, 43496), (5, 43544), (9, 43907), (Start: 10 @44018 has 120 MA's), (11, 44072), (13, 44198), (14, 44222), (16, 44261), (17, 44303),

Gene: Hopey_66 Start: 43860, Stop: 44186, Start Num: 10

Candidate Starts for Hopey_66:

(6, 43389), (Start: 7 @43491 has 7 MA's), (8, 43494), (9, 43749), (Start: 10 @43860 has 120 MA's), (12, 43968), (16, 44100), (17, 44142),

Gene: HufflyPuff_69 Start: 44690, Stop: 45019, Start Num: 10

Candidate Starts for HufflyPuff_69:

(6, 44219), (Start: 7 @44321 has 7 MA's), (8, 44324), (9, 44579), (Start: 10 @44690 has 120 MA's), (12, 44801), (17, 44975),

Gene: IHOP_64 Start: 43786, Stop: 44115, Start Num: 10

Candidate Starts for IHOP_64:

(6, 43612), (Start: 7 @43714 has 7 MA's), (8, 43717), (Start: 10 @43786 has 120 MA's), (12, 43897), (17, 44071),

Gene: Icee_67 Start: 43685, Stop: 44014, Start Num: 10

Candidate Starts for Icee_67:

(1, 43085), (2, 43103), (5, 43211), (9, 43574), (Start: 10 @43685 has 120 MA's), (11, 43739), (13, 43865), (14, 43889), (16, 43928), (17, 43970),

Gene: Inca_63 Start: 42311, Stop: 42640, Start Num: 10

Candidate Starts for Inca_63:

(6, 42137), (Start: 7 @42239 has 7 MA's), (8, 42242), (Start: 10 @42311 has 120 MA's), (12, 42422), (17, 42596),

Gene: JeTaime_66 Start: 44512, Stop: 44838, Start Num: 10

Candidate Starts for JeTaime_66:

(1, 43912), (2, 43930), (5, 44038), (9, 44401), (Start: 10 @44512 has 120 MA's), (12, 44620), (16, 44752), (17, 44794),

Gene: Kanye_63 Start: 43367, Stop: 43696, Start Num: 10

Candidate Starts for Kanye_63:

(1, 42767), (2, 42785), (5, 42893), (9, 43256), (Start: 10 @43367 has 120 MA's), (11, 43421), (13, 43547), (14, 43571), (16, 43610), (17, 43652),

Gene: Kimchi_70 Start: 44021, Stop: 44350, Start Num: 10

Candidate Starts for Kimchi_70:

(1, 43421), (2, 43439), (3, 43499), (5, 43547), (9, 43910), (Start: 10 @44021 has 120 MA's), (11, 44075), (13, 44201), (14, 44225), (16, 44264), (17, 44306),

Gene: Kostya_66 Start: 43885, Stop: 44214, Start Num: 10

Candidate Starts for Kostya_66:

(6, 43711), (Start: 7 @43813 has 7 MA's), (8, 43816), (Start: 10 @43885 has 120 MA's), (12, 43996), (17, 44170),

Gene: Lilac_68 Start: 43645, Stop: 43971, Start Num: 10

Candidate Starts for Lilac_68:

(6, 43174), (Start: 7 @43276 has 7 MA's), (8, 43279), (9, 43534), (Start: 10 @43645 has 120 MA's), (12, 43753), (16, 43885), (17, 43927),

Gene: Lilizi_67 Start: 43319, Stop: 43684, Start Num: 10

Candidate Starts for Lilizi_67:

(6, 42848), (Start: 7 @42950 has 7 MA's), (8, 42953), (9, 43208), (Start: 10 @43319 has 120 MA's), (12, 43430), (17, 43640),

Gene: Lilpickle_65 Start: 43240, Stop: 43569, Start Num: 10

Candidate Starts for Lilpickle_65:

(6, 43066), (Start: 7 @43168 has 7 MA's), (8, 43171), (Start: 10 @43240 has 120 MA's), (12, 43351), (17, 43525),

Gene: Liveloughbron_68 Start: 44821, Stop: 45147, Start Num: 10

Candidate Starts for Liveloughbron_68:

(6, 44350), (Start: 7 @44452 has 7 MA's), (8, 44455), (9, 44710), (Start: 10 @44821 has 120 MA's), (12, 44929), (16, 45061), (17, 45103),

Gene: MISSy_67 Start: 43743, Stop: 44072, Start Num: 10

Candidate Starts for MISSy_67:

(6, 43272), (Start: 7 @43374 has 7 MA's), (8, 43377), (9, 43632), (Start: 10 @43743 has 120 MA's), (12, 43854), (17, 44028),

Gene: MPhalcon_67 Start: 43736, Stop: 44065, Start Num: 10

Candidate Starts for MPhalcon_67:

(6, 43265), (Start: 7 @43367 has 7 MA's), (8, 43370), (9, 43625), (Start: 10 @43736 has 120 MA's), (12, 43847), (17, 44021),

Gene: MadamMonkfish_66 Start: 42964, Stop: 43293, Start Num: 10

Candidate Starts for MadamMonkfish_66:

(6, 42790), (Start: 7 @42892 has 7 MA's), (8, 42895), (Start: 10 @42964 has 120 MA's), (12, 43075), (17, 43249),

Gene: Manda_66 Start: 44245, Stop: 44574, Start Num: 10

Candidate Starts for Manda_66:

(6, 44071), (Start: 7 @44173 has 7 MA's), (8, 44176), (Start: 10 @44245 has 120 MA's), (12, 44356), (17, 44530),

Gene: Marshmallow_64 Start: 44513, Stop: 44842, Start Num: 10

Candidate Starts for Marshmallow_64:

(1, 43913), (2, 43931), (5, 44039), (9, 44402), (Start: 10 @44513 has 120 MA's), (11, 44567), (13, 44693), (14, 44717), (16, 44756), (17, 44798),

Gene: Maxxinista_68 Start: 43615, Stop: 43944, Start Num: 10

Candidate Starts for Maxxinista_68:

(6, 43144), (Start: 7 @43246 has 7 MA's), (8, 43249), (9, 43504), (Start: 10 @43615 has 120 MA's), (12, 43726), (17, 43900),

Gene: Mindy_65 Start: 42828, Stop: 43157, Start Num: 10

Candidate Starts for Mindy_65:

(6, 42654), (Start: 7 @42756 has 7 MA's), (8, 42759), (Start: 10 @42828 has 120 MA's), (12, 42939), (17, 43113),

Gene: Miniwave_61 Start: 43281, Stop: 43610, Start Num: 10

Candidate Starts for Miniwave_61:

(6, 43107), (Start: 7 @43209 has 7 MA's), (8, 43212), (Start: 10 @43281 has 120 MA's), (12, 43392), (17, 43566),

Gene: Misfit_67 Start: 44755, Stop: 45084, Start Num: 10

Candidate Starts for Misfit_67:

(6, 44284), (Start: 7 @44386 has 7 MA's), (8, 44389), (9, 44644), (Start: 10 @44755 has 120 MA's), (12, 44866), (17, 45040),

Gene: Moldemort_69 Start: 43837, Stop: 44166, Start Num: 10

Candidate Starts for Moldemort_69:

(6, 43663), (Start: 7 @43765 has 7 MA's), (8, 43768), (Start: 10 @43837 has 120 MA's), (12, 43948), (17, 44122),

Gene: MollyToe_61 Start: 42585, Stop: 42914, Start Num: 10

Candidate Starts for MollyToe_61:

(1, 41985), (2, 42003), (5, 42111), (9, 42474), (Start: 10 @42585 has 120 MA's), (11, 42639), (13, 42765), (14, 42789), (16, 42828), (17, 42870),

Gene: Mosby_62 Start: 43038, Stop: 43367, Start Num: 10

Candidate Starts for Mosby_62:

(6, 42567), (Start: 7 @42669 has 7 MA's), (8, 42672), (9, 42927), (Start: 10 @43038 has 120 MA's), (12, 43149), (17, 43323),

Gene: Murica_69 Start: 44690, Stop: 45019, Start Num: 10

Candidate Starts for Murica_69:

(6, 44219), (Start: 7 @44321 has 7 MA's), (8, 44324), (9, 44579), (Start: 10 @44690 has 120 MA's), (12, 44801), (17, 44975),

Gene: Murphy_66 Start: 44127, Stop: 44456, Start Num: 10

Candidate Starts for Murphy_66:

(6, 43656), (Start: 7 @43758 has 7 MA's), (8, 43761), (9, 44016), (Start: 10 @44127 has 120 MA's), (12, 44238), (17, 44412),

Gene: Myrale_66 Start: 44378, Stop: 44707, Start Num: 10

Candidate Starts for Myrale_66:

(1, 43778), (2, 43796), (5, 43904), (9, 44267), (Start: 10 @44378 has 120 MA's), (11, 44432), (13, 44558), (14, 44582), (16, 44621), (17, 44663),

Gene: Nala_68 Start: 44248, Stop: 44577, Start Num: 10

Candidate Starts for Nala_68:

(6, 43777), (Start: 7 @43879 has 7 MA's), (8, 43882), (9, 44137), (Start: 10 @44248 has 120 MA's), (12, 44359), (17, 44533),

Gene: NelitzaMV_64 Start: 43327, Stop: 43656, Start Num: 10

Candidate Starts for NelitzaMV_64:

(1, 42727), (2, 42745), (5, 42853), (9, 43216), (Start: 10 @43327 has 120 MA's), (11, 43381), (13, 43507), (14, 43531), (16, 43570), (17, 43612),

Gene: Nimrod_67 Start: 44948, Stop: 45274, Start Num: 10

Candidate Starts for Nimrod_67:

(6, 44477), (Start: 7 @44579 has 7 MA's), (8, 44582), (9, 44837), (Start: 10 @44948 has 120 MA's), (12, 45056), (16, 45188), (17, 45230),

Gene: NoSleep_67 Start: 43585, Stop: 43914, Start Num: 10

Candidate Starts for NoSleep_67:

(6, 43411), (Start: 7 @43513 has 7 MA's), (8, 43516), (Start: 10 @43585 has 120 MA's), (12, 43696), (17, 43870),

Gene: NonchalantPear_66 Start: 43435, Stop: 43764, Start Num: 10

Candidate Starts for NonchalantPear_66:

(6, 43261), (Start: 7 @43363 has 7 MA's), (8, 43366), (Start: 10 @43435 has 120 MA's), (12, 43546), (17, 43720),

Gene: OrionPax_65 Start: 43333, Stop: 43662, Start Num: 10

Candidate Starts for OrionPax_65:

(6, 42862), (Start: 7 @42964 has 7 MA's), (8, 42967), (9, 43222), (Start: 10 @43333 has 120 MA's), (12, 43444), (17, 43618),

Gene: PaddyBaddy_66 Start: 43339, Stop: 43668, Start Num: 10

Candidate Starts for PaddyBaddy_66:

(6, 42868), (Start: 7 @42970 has 7 MA's), (8, 42973), (9, 43228), (Start: 10 @43339 has 120 MA's), (12, 43450), (17, 43624),

Gene: Palpatine_68 Start: 44720, Stop: 45046, Start Num: 10

Candidate Starts for Palpatine_68:

(6, 44249), (Start: 7 @44351 has 7 MA's), (8, 44354), (9, 44609), (Start: 10 @44720 has 120 MA's), (12, 44828), (16, 44960), (17, 45002),

Gene: Paperbeatsrock_65 Start: 43959, Stop: 44288, Start Num: 10

Candidate Starts for Paperbeatsrock_65:

(6, 43785), (Start: 7 @43887 has 7 MA's), (8, 43890), (Start: 10 @43959 has 120 MA's), (12, 44070), (17, 44244),

Gene: Pat3_64 Start: 42482, Stop: 42811, Start Num: 10

Candidate Starts for Pat3_64:

(1, 41882), (2, 41900), (5, 42008), (9, 42371), (Start: 10 @42482 has 120 MA's), (11, 42536), (13, 42662), (14, 42686), (16, 42725), (17, 42767),

Gene: Petra64142_70 Start: 45184, Stop: 45510, Start Num: 10

Candidate Starts for Petra64142_70:

(6, 44713), (Start: 7 @44815 has 7 MA's), (8, 44818), (9, 45073), (Start: 10 @45184 has 120 MA's), (12, 45292), (16, 45424), (17, 45466),

Gene: Phaja_64 Start: 43785, Stop: 44114, Start Num: 10

Candidate Starts for Phaja_64:

(6, 43611), (Start: 7 @43713 has 7 MA's), (8, 43716), (Start: 10 @43785 has 120 MA's), (12, 43896), (17, 44070),

Gene: Pharsalus_63 Start: 43687, Stop: 44088, Start Num: 7

Candidate Starts for Pharsalus_63:

(6, 43585), (Start: 7 @43687 has 7 MA's), (8, 43690), (Start: 10 @43759 has 120 MA's), (12, 43870), (17, 44044),

Gene: PhatBacter_70 Start: 44734, Stop: 45063, Start Num: 10

Candidate Starts for PhatBacter_70:

(6, 44263), (Start: 7 @44365 has 7 MA's), (8, 44368), (9, 44623), (Start: 10 @44734 has 120 MA's), (12, 44845), (17, 45019),

Gene: Phaux_68 Start: 44732, Stop: 45058, Start Num: 10

Candidate Starts for Phaux_68:

(6, 44261), (Start: 7 @44363 has 7 MA's), (8, 44366), (9, 44621), (Start: 10 @44732 has 120 MA's), (12, 44840), (16, 44972), (17, 45014),

Gene: Phrux_63 Start: 43325, Stop: 43654, Start Num: 10

Candidate Starts for Phrux_63:

(6, 42854), (Start: 7 @42956 has 7 MA's), (8, 42959), (9, 43214), (Start: 10 @43325 has 120 MA's), (12, 43436), (17, 43610),

Gene: Policronamos_69 Start: 44732, Stop: 45058, Start Num: 10

Candidate Starts for Policronamos_69:

(6, 44261), (Start: 7 @44363 has 7 MA's), (8, 44366), (9, 44621), (Start: 10 @44732 has 120 MA's), (12, 44840), (16, 44972), (17, 45014),

Gene: Ptowny_63 Start: 42621, Stop: 42950, Start Num: 10

Candidate Starts for Ptowny_63:

(6, 42447), (Start: 7 @42549 has 7 MA's), (8, 42552), (Start: 10 @42621 has 120 MA's), (12, 42732), (17, 42906),

Gene: Pumpkin_69 Start: 44383, Stop: 44712, Start Num: 10

Candidate Starts for Pumpkin_69:

(6, 43912), (Start: 7 @44014 has 7 MA's), (8, 44017), (9, 44272), (Start: 10 @44383 has 120 MA's), (12, 44494), (17, 44668),

Gene: Quallification_67 Start: 44367, Stop: 44696, Start Num: 10

Candidate Starts for Quallification_67:

(1, 43767), (2, 43785), (5, 43893), (9, 44256), (Start: 10 @44367 has 120 MA's), (11, 44421), (13, 44547), (14, 44571), (16, 44610), (17, 44652),

Gene: Rakim_67 Start: 43836, Stop: 44165, Start Num: 10

Candidate Starts for Rakim_67:

(6, 43662), (Start: 7 @43764 has 7 MA's), (8, 43767), (Start: 10 @43836 has 120 MA's), (12, 43947), (17, 44121),

Gene: Rimmer_67 Start: 44075, Stop: 44404, Start Num: 10

Candidate Starts for Rimmer_67:

(1, 43475), (2, 43493), (5, 43601), (9, 43964), (Start: 10 @44075 has 120 MA's), (11, 44129), (13, 44255), (14, 44279), (16, 44318), (17, 44360),

Gene: RiverMonster_66 Start: 43903, Stop: 44232, Start Num: 10

Candidate Starts for RiverMonster_66:

(6, 43432), (Start: 7 @43534 has 7 MA's), (8, 43537), (9, 43792), (Start: 10 @43903 has 120 MA's), (12, 44014), (17, 44188),

Gene: Saints25_65 Start: 43241, Stop: 43642, Start Num: 7

Candidate Starts for Saints25_65:

(6, 43139), (Start: 7 @43241 has 7 MA's), (8, 43244), (Start: 10 @43313 has 120 MA's), (12, 43424), (17, 43598),

Gene: Sassay_61 Start: 42000, Stop: 42329, Start Num: 10

Candidate Starts for Sassay_61:

(1, 41400), (2, 41418), (5, 41526), (9, 41889), (Start: 10 @42000 has 120 MA's), (11, 42054), (13, 42180), (14, 42204), (16, 42243), (17, 42285),

Gene: ShamWow_66 Start: 44222, Stop: 44551, Start Num: 10

Candidate Starts for ShamWow_66:

(6, 44048), (Start: 7 @44150 has 7 MA's), (8, 44153), (Start: 10 @44222 has 120 MA's), (12, 44333), (17, 44507),

Gene: ShereKhan_65 Start: 44291, Stop: 44620, Start Num: 10

Candidate Starts for ShereKhan_65:

(1, 43691), (2, 43709), (5, 43817), (9, 44180), (Start: 10 @44291 has 120 MA's), (11, 44345), (13, 44471), (14, 44495), (16, 44534), (17, 44576),

Gene: Simpliphy_65 Start: 43303, Stop: 43632, Start Num: 10

Candidate Starts for Simpliphy_65:

(6, 43129), (Start: 7 @43231 has 7 MA's), (8, 43234), (Start: 10 @43303 has 120 MA's), (12, 43414), (17, 43588),

Gene: SirDuracell_65 Start: 42574, Stop: 42903, Start Num: 10

Candidate Starts for SirDuracell_65:

(1, 41974), (2, 41992), (5, 42100), (9, 42463), (Start: 10 @42574 has 120 MA's), (12, 42685), (17, 42859),

Gene: SophKB_63 Start: 42978, Stop: 43307, Start Num: 10

Candidate Starts for SophKB_63:

(6, 42804), (Start: 7 @42906 has 7 MA's), (8, 42909), (Start: 10 @42978 has 120 MA's), (12, 43089), (17, 43263),

Gene: Sotrice96_67 Start: 43981, Stop: 44310, Start Num: 10

Candidate Starts for Sotrice96_67:

(1, 43381), (2, 43399), (5, 43507), (9, 43870), (Start: 10 @43981 has 120 MA's), (11, 44035), (13, 44161), (14, 44185), (16, 44224), (17, 44266),

Gene: Stank_69 Start: 44236, Stop: 44565, Start Num: 10

Candidate Starts for Stank_69:

(6, 44062), (Start: 7 @44164 has 7 MA's), (8, 44167), (Start: 10 @44236 has 120 MA's), (12, 44347), (17, 44521),

Gene: Stark_67 Start: 43789, Stop: 44115, Start Num: 10

Candidate Starts for Stark_67:

(1, 43189), (2, 43207), (5, 43315), (9, 43678), (Start: 10 @43789 has 120 MA's), (12, 43897), (16, 44029), (17, 44071),

Gene: StellaBean_64 Start: 43546, Stop: 43875, Start Num: 10

Candidate Starts for StellaBean_64:

(6, 43372), (Start: 7 @43474 has 7 MA's), (8, 43477), (Start: 10 @43546 has 120 MA's), (12, 43657), (17, 43831),

Gene: StolenFromERC_69 Start: 44018, Stop: 44347, Start Num: 10

Candidate Starts for StolenFromERC_69:

(1, 43418), (2, 43436), (3, 43496), (5, 43544), (9, 43907), (Start: 10 @44018 has 120 MA's), (11, 44072), (13, 44198), (14, 44222), (16, 44261), (17, 44303),

Gene: StormChicken_68 Start: 44682, Stop: 45011, Start Num: 10

Candidate Starts for StormChicken_68:

(6, 44211), (Start: 7 @44313 has 7 MA's), (8, 44316), (9, 44571), (Start: 10 @44682 has 120 MA's), (12, 44793), (17, 44967),

Gene: TBrady12_69 Start: 43720, Stop: 44049, Start Num: 10

Candidate Starts for TBrady12_69:

(6, 43546), (Start: 7 @43648 has 7 MA's), (8, 43651), (Start: 10 @43720 has 120 MA's), (12, 43831), (17, 44005),

Gene: Tarkin_65 Start: 43968, Stop: 44297, Start Num: 10

Candidate Starts for Tarkin_65:

(6, 43794), (Start: 7 @43896 has 7 MA's), (8, 43899), (Start: 10 @43968 has 120 MA's), (12, 44079), (17, 44253),

Gene: TeamEdward_68 Start: 44679, Stop: 45005, Start Num: 10

Candidate Starts for TeamEdward_68:

(6, 44208), (Start: 7 @44310 has 7 MA's), (8, 44313), (9, 44568), (Start: 10 @44679 has 120 MA's), (12, 44787), (16, 44919), (17, 44961),

Gene: TeardropMSU_62 Start: 42968, Stop: 43297, Start Num: 10

Candidate Starts for TeardropMSU_62:

(6, 42794), (Start: 7 @42896 has 7 MA's), (8, 42899), (Start: 10 @42968 has 120 MA's), (12, 43079), (17, 43253),

Gene: Teaspoon_67 Start: 43862, Stop: 44191, Start Num: 10

Candidate Starts for Teaspoon_67:

(6, 43688), (Start: 7 @43790 has 7 MA's), (8, 43793), (Start: 10 @43862 has 120 MA's), (12, 43973), (17, 44147),

Gene: Terminus_69 Start: 44755, Stop: 45084, Start Num: 10

Candidate Starts for Terminus_69:

(6, 44284), (Start: 7 @44386 has 7 MA's), (8, 44389), (9, 44644), (Start: 10 @44755 has 120 MA's), (12, 44866), (17, 45040),

Gene: Thimble_67 Start: 43200, Stop: 43529, Start Num: 10

Candidate Starts for Thimble_67:

(1, 42600), (2, 42618), (3, 42678), (5, 42726), (9, 43089), (Start: 10 @43200 has 120 MA's), (11, 43254), (13, 43380), (14, 43404), (16, 43443), (17, 43485),

Gene: Thresher_68 Start: 44845, Stop: 45174, Start Num: 10

Candidate Starts for Thresher_68:

(6, 44671), (Start: 7 @44773 has 7 MA's), (8, 44776), (Start: 10 @44845 has 120 MA's), (12, 44956), (17, 45130),

Gene: Tomaszewski_61 Start: 43134, Stop: 43463, Start Num: 10

Candidate Starts for Tomaszewski_61:

(1, 42534), (2, 42552), (5, 42660), (9, 43023), (Start: 10 @43134 has 120 MA's), (11, 43188), (13, 43314), (14, 43338), (16, 43377), (17, 43419),

Gene: Toto_64 Start: 44222, Stop: 44551, Start Num: 10

Candidate Starts for Toto_64:

(6, 44048), (Start: 7 @44150 has 7 MA's), (8, 44153), (Start: 10 @44222 has 120 MA's), (12, 44333), (17, 44507),

Gene: Wiggin_68 Start: 43804, Stop: 44133, Start Num: 10

Candidate Starts for Wiggin_68:

(6, 43630), (Start: 7 @43732 has 7 MA's), (8, 43735), (Start: 10 @43804 has 120 MA's), (12, 43915), (17, 44089),

Gene: Willez_61 Start: 42000, Stop: 42329, Start Num: 10

Candidate Starts for Willez_61:

(1, 41400), (2, 41418), (5, 41526), (9, 41889), (Start: 10 @42000 has 120 MA's), (11, 42054), (13, 42180), (14, 42204), (16, 42243), (17, 42285),

Gene: Xandras_65 Start: 43215, Stop: 43544, Start Num: 10

Candidate Starts for Xandras_65:

(6, 43041), (Start: 7 @43143 has 7 MA's), (8, 43146), (Start: 10 @43215 has 120 MA's), (12, 43326), (17, 43500),

Gene: YassJohnny_63 Start: 43173, Stop: 43502, Start Num: 10

Candidate Starts for YassJohnny_63:

(6, 42702), (Start: 7 @42804 has 7 MA's), (8, 42807), (9, 43062), (Start: 10 @43173 has 120 MA's), (11, 43227), (13, 43353), (14, 43377), (16, 43416), (17, 43458),

Gene: Youngblood_69 Start: 44685, Stop: 45014, Start Num: 10

Candidate Starts for Youngblood_69:

(6, 44214), (Start: 7 @44316 has 7 MA's), (8, 44319), (9, 44574), (Start: 10 @44685 has 120 MA's), (12, 44796), (17, 44970),

Gene: xkcd_69 Start: 44875, Stop: 45204, Start Num: 10

Candidate Starts for xkcd_69:

(6, 44404), (Start: 7 @44506 has 7 MA's), (8, 44509), (9, 44764), (Start: 10 @44875 has 120 MA's), (12, 44986), (17, 45160),