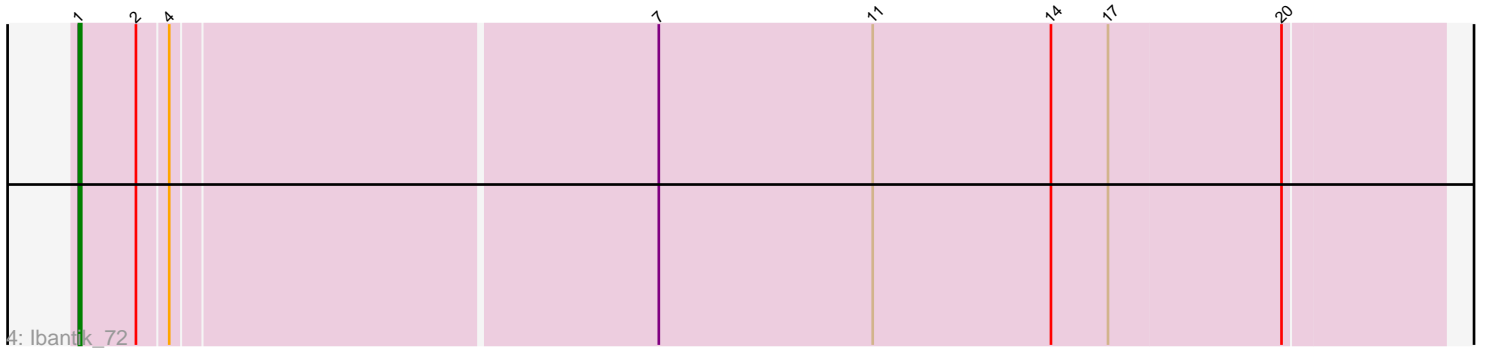
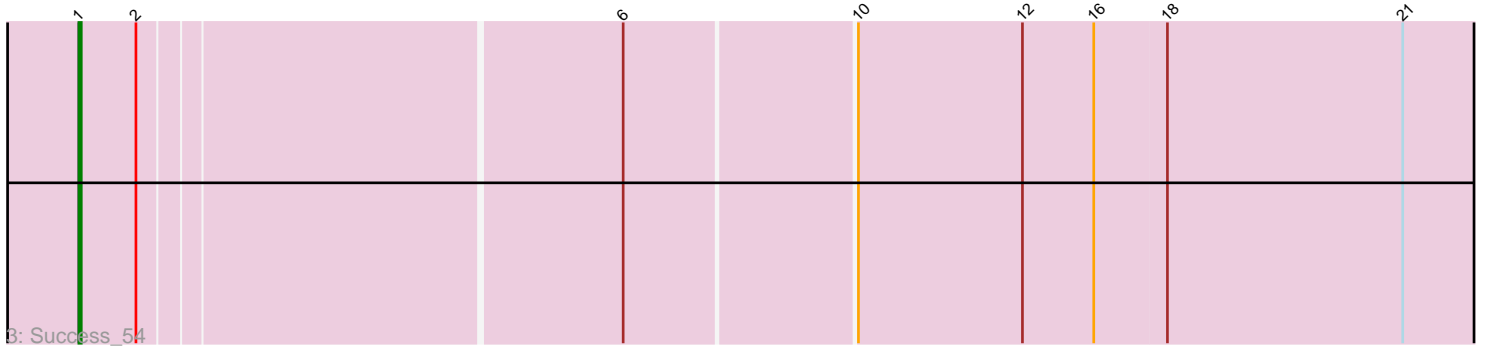
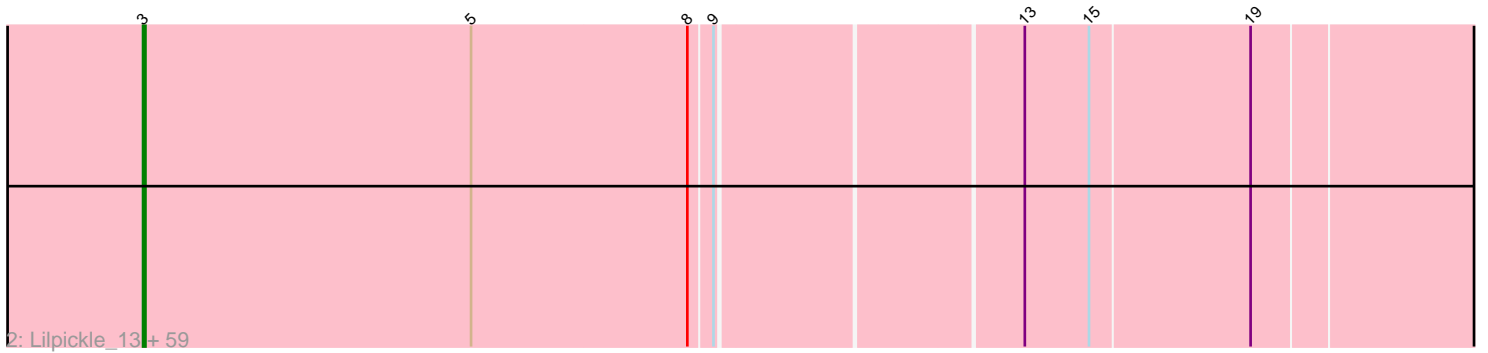
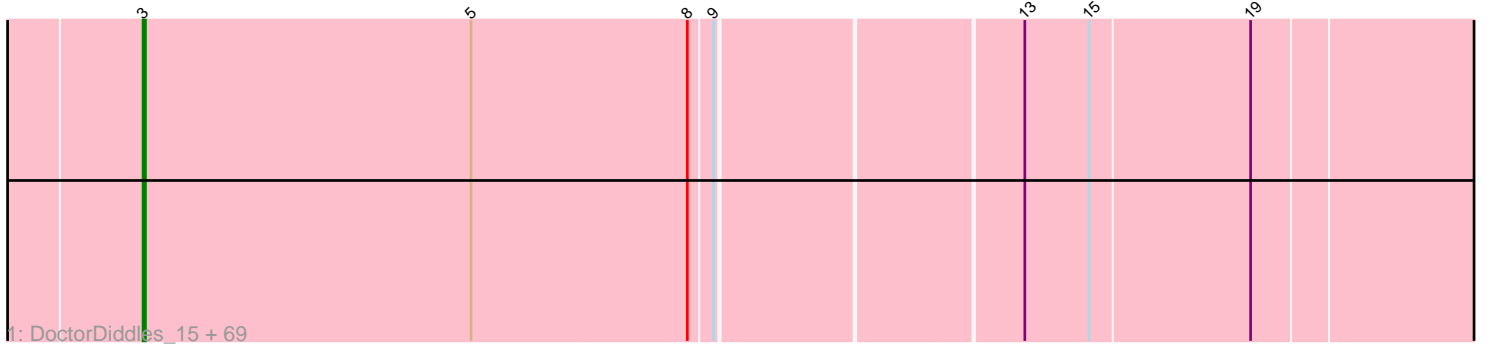


Pham 163434



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 163434 Report

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

Pham number 163434 has 132 members, 11 are drafts.

Phages represented in each track:

- Track 1 : DoctorDiddles_15, Henry_15, Palpatine_14, FireRed_14, IHOP_14, Bruin_14, Contagion_14, MISSy_14, Willez_14, Quallification_16, Bask21_14, Harella_13, Rakim_16, Balomoji_14, Dusk_14, StellaBean_15, Murica_13, Command613_16, Miniwave_15, Gator_13, CrystalP_15, Mindy_15, Tomaszewski_14, BaboJay_14, Manda_15, Myrale_15, BugsBunny_12, Icee_14, Pat3_14, MPhalcon_14, Marshmallow_15, YassJohnny_15, ShamWow_15, Rimmer_14, Sotrice96_15, Teaspoon_14, SophKB_15, Buck_14, Kostya_15, NelitzaMV_15, Eureka_15, Cactus_16, Phaja_14, TeardropMSU_14, ABCat_14, SirDuracell_14, BilboSwaggins_15, Tuco_15, Goldilocks_16, Toto_15, Holt_16, Sassay_14, Policronamos_14, Inca_14, Asriel_14, Barbarian_14, Traaww1_13, Flypotenuse_13, PhatBacter_14, Daikon_13, Mosby_14, Phaux_13, Glexan_13, Goku_15, Amao_15, xkcd_15, BadStone_14, HufflyPuff_13, Nala_14, Cookies_15
- Track 2 : Lilpickle_13, Petra64142_15, Adnama_16, Elite2014_13, BigBubba_14, Thresher_15, GoldenSpark_16, Lilizi_16, OrionPax_15, ShereKhan_16, Hopey_15, Terminus_14, Filch_15, Easy2Say_15, Bench_16, Maxxinista_15, 244_15, Stark_15, Hoonter_16, Cjw1_14, Ukulele_14, Misfit_14, TBrady12_16, ChosenOne_13, Moldemort_15, Pharsalus_15, Simpliphy_15, Pumpkin_15, Czyszczone1_15, Highbury_15, Stank_16, Kanye_16, RiverMonster_14, Xandras_16, GooberAzure_16, Argent26_16, Wiggin_16, Nimrod_14, Youngblood_14, Emmina_14, DrDrey_15, Elph10_15, StolenFromERC_16, Paperbeatsrock_16, ChotaBhai_14, HanKaySha_15, Gage_16, MadamMonkfish_14, Murphy_14, Gemini_16, Phrux_14, Lilac_16, Dumbo_14, JeTaime_16, AmericanBeauty_16, Porky_13, Tarkin_16, NoSleep_15, Kimchi_16, Saints25_15
- Track 3 : Success_54
- Track 4 : Ibantik_72

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

The start number called the most often in the published annotations is 3, it was called in 119 of the 121 non-draft genes in the pham.

Genes that call this "Most Annotated" start:

- 244_15, ABCat_14, Adnama_16, Amao_15, AmericanBeauty_16, Argent26_16, Asriel_14, BaboJay_14, BadStone_14, Balomoji_14, Barbarian_14, Bask21_14,

Bench_16, BigBubba_14, BilboSwaggins_15, Bruin_14, Buck_14, BugsBunny_12, Cactus_16, ChosenOne_13, ChotaBhai_14, Cjw1_14, Command613_16, Contagion_14, Cookies_15, CrystalP_15, Czyszczonek_15, Daikon_13, DoctorDiddles_15, DrDrey_15, Dumbo_14, Dusk_14, Easy2Say_15, Elite2014_13, Elph10_15, Emmina_14, Eureka_15, Filch_15, FireRed_14, Flypotenuse_13, Gage_16, Gator_13, Gemini_16, Glexan_13, Goku_15, GoldenSpark_16, Goldilocks_16, GooberAzure_16, HanKaySha_15, Harella_13, Henry_15, Highbury_15, Holt_16, Hoonter_16, Hopey_15, HufflyPuff_13, IHOP_14, Icee_14, Inca_14, JeTaime_16, Kanye_16, Kimchi_16, Kostya_15, Lilac_16, Lilizi_16, Lilipickle_13, MISSy_14, MPhalcon_14, MadamMonkfish_14, Manda_15, Marshmallow_15, Maxxinista_15, Mindy_15, Miniwave_15, Misfit_14, Moldemort_15, Mosby_14, Murica_13, Murphy_14, Myrale_15, Nala_14, NelitzaMV_15, Nimrod_14, NoSleep_15, OrionPax_15, Palpatine_14, Paperbeatsrock_16, Pat3_14, Petra64142_15, Phaja_14, Pharsalus_15, PhatBacter_14, Phaux_13, Phrux_14, Policronamos_14, Porky_13, Pumpkin_15, Qualification_16, Rakim_16, Rimmer_14, RiverMonster_14, Saints25_15, Sassay_14, ShamWow_15, ShereKhan_16, Simpliphy_15, SirDuracell_14, SophKB_15, Sotrice96_15, Stank_16, Stark_15, StellaBean_15, StolenFromERC_16, TBrady12_16, Tarkin_16, TeardropMSU_14, Teaspoon_14, Terminus_14, Thresher_15, Tomaszewski_14, Toto_15, Traaww1_13, Tuco_15, Ukulele_14, Wiggin_16, Willez_14, Xandras_16, YassJohnny_15, Youngblood_14, xkcd_15,

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

-

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

- lbantik_72, Success_54,

Summary by start number:

Start 1:

- Found in 2 of 132 (1.5%) of genes in pham
- Manual Annotations of this start: 2 of 121
- Called 100.0% of time when present
- Phage (with cluster) where this start called: lbantik_72 (singleton), Success_54 (singleton),

Start 3:

- Found in 130 of 132 (98.5%) of genes in pham
- Manual Annotations of this start: 119 of 121
- Called 100.0% of time when present
- Phage (with cluster) where this start called: 244_15 (E), ABCat_14 (E), Adnama_16 (E), Amao_15 (E), AmericanBeauty_16 (E), Argent26_16 (E), Asriel_14 (E), BaboJay_14 (E), BadStone_14 (E), Balomoji_14 (E), Barbarian_14 (E), Bask21_14 (E), Bench_16 (E), BigBubba_14 (E), BilboSwaggins_15 (E), Bruin_14 (E), Buck_14 (E), BugsBunny_12 (E), Cactus_16 (E), ChosenOne_13 (E), ChotaBhai_14 (E), Cjw1_14 (E), Command613_16 (E), Contagion_14 (E), Cookies_15 (E), CrystalP_15 (E), Czyszczonek_15 (E), Daikon_13 (E), DoctorDiddles_15 (E), DrDrey_15 (E), Dumbo_14 (E), Dusk_14 (E), Easy2Say_15 (E), Elite2014_13 (E), Elph10_15 (E), Emmina_14 (E), Eureka_15 (E), Filch_15 (E), FireRed_14 (E), Flypotenuse_13 (E), Gage_16 (E), Gator_13 (E), Gemini_16 (E), Glexan_13 (E), Goku_15 (E), GoldenSpark_16 (E), Goldilocks_16 (E), GooberAzure_16 (E), HanKaySha_15 (E), Harella_13 (E), Henry_15 (E), Highbury_15 (E), Holt_16 (E), Hoonter_16 (E),

Hopey_15 (E), HufflyPuff_13 (E), IHOP_14 (E), Icee_14 (E), Inca_14 (E), JeTaimé_16 (E), Kanye_16 (E), Kimchi_16 (E), Kostya_15 (E), Lilac_16 (E), Lilizi_16 (E), Lilpickle_13 (E), MISSy_14 (E), MPhalcon_14 (E), MadamMonkfish_14 (E), Manda_15 (E), Marshmallow_15 (E), Maxxinista_15 (E), Mindy_15 (E), Miniwave_15 (E), Misfit_14 (E), Moldemort_15 (E), Mosby_14 (E), Murica_13 (E), Murphy_14 (E), Myrale_15 (E), Nala_14 (E), NelitzaMV_15 (E), Nimrod_14 (E), NoSleep_15 (E), OrionPax_15 (E), Palpatine_14 (E), Paperbeatsrock_16 (E), Pat3_14 (E), Petra64142_15 (E), Phaja_14 (E), Pharsalus_15 (E), PhatBacter_14 (E), Phaux_13 (E), Phrux_14 (E), Policronamos_14 (E), Porky_13 (E), Pumpkin_15 (E), Quallification_16 (E), Rakim_16 (E), Rimmer_14 (E), RiverMonster_14 (E), Saints25_15 (E), Sassay_14 (E), ShamWow_15 (E), ShereKhan_16 (E), Simpliphy_15 (E), SirDuracell_14 (E), SophKB_15 (E), Sotrice96_15 (E), Stank_16 (E), Stark_15 (E), StellaBean_15 (E), StolenFromERC_16 (E), TBrady12_16 (E), Tarkin_16 (E), TeardropMSU_14 (E), Teaspoon_14 (E), Terminus_14 (E), Thresher_15 (E), Tomaszewski_14 (E), Toto_15 (E), Traaww1_13 (E), Tuco_15 (E), Ukulele_14 (E), Wiggin_16 (E), Willez_14 (E), Xandras_16 (E), YassJohnny_15 (E), Youngblood_14 (E), xkcd_15 (E),

Summary by clusters:

There are 2 clusters represented in this pham: singleton, E,

Info for manual annotations of cluster E:

•Start number 3 was manually annotated 119 times for cluster E.

Gene Information:

Gene: 244_15 Start: 8901, Stop: 9467, Start Num: 3

Candidate Starts for 244_15:

(Start: 3 @8901 has 119 MA's), (5, 9039), (8, 9129), (9, 9138), (13, 9258), (15, 9285), (19, 9351),

Gene: ABCat_14 Start: 9678, Stop: 10244, Start Num: 3

Candidate Starts for ABCat_14:

(Start: 3 @9678 has 119 MA's), (5, 9816), (8, 9906), (9, 9915), (13, 10035), (15, 10062), (19, 10128),

Gene: Adnama_16 Start: 9133, Stop: 9699, Start Num: 3

Candidate Starts for Adnama_16:

(Start: 3 @9133 has 119 MA's), (5, 9271), (8, 9361), (9, 9370), (13, 9490), (15, 9517), (19, 9583),

Gene: Amao_15 Start: 8883, Stop: 9449, Start Num: 3

Candidate Starts for Amao_15:

(Start: 3 @8883 has 119 MA's), (5, 9021), (8, 9111), (9, 9120), (13, 9240), (15, 9267), (19, 9333),

Gene: AmericanBeauty_16 Start: 9130, Stop: 9696, Start Num: 3

Candidate Starts for AmericanBeauty_16:

(Start: 3 @9130 has 119 MA's), (5, 9268), (8, 9358), (9, 9367), (13, 9487), (15, 9514), (19, 9580),

Gene: Argent26_16 Start: 9133, Stop: 9699, Start Num: 3

Candidate Starts for Argent26_16:

(Start: 3 @9133 has 119 MA's), (5, 9271), (8, 9361), (9, 9370), (13, 9490), (15, 9517), (19, 9583),

Gene: Asriel_14 Start: 8550, Stop: 9116, Start Num: 3
Candidate Starts for Asriel_14:
(Start: 3 @8550 has 119 MA's), (5, 8688), (8, 8778), (9, 8787), (13, 8907), (15, 8934), (19, 9000),

Gene: BaboJay_14 Start: 9212, Stop: 9778, Start Num: 3
Candidate Starts for BaboJay_14:
(Start: 3 @9212 has 119 MA's), (5, 9350), (8, 9440), (9, 9449), (13, 9569), (15, 9596), (19, 9662),

Gene: BadStone_14 Start: 9678, Stop: 10244, Start Num: 3
Candidate Starts for BadStone_14:
(Start: 3 @9678 has 119 MA's), (5, 9816), (8, 9906), (9, 9915), (13, 10035), (15, 10062), (19, 10128),

Gene: Balomoji_14 Start: 9412, Stop: 9978, Start Num: 3
Candidate Starts for Balomoji_14:
(Start: 3 @9412 has 119 MA's), (5, 9550), (8, 9640), (9, 9649), (13, 9769), (15, 9796), (19, 9862),

Gene: Barbarian_14 Start: 8550, Stop: 9116, Start Num: 3
Candidate Starts for Barbarian_14:
(Start: 3 @8550 has 119 MA's), (5, 8688), (8, 8778), (9, 8787), (13, 8907), (15, 8934), (19, 9000),

Gene: Bask21_14 Start: 8345, Stop: 8911, Start Num: 3
Candidate Starts for Bask21_14:
(Start: 3 @8345 has 119 MA's), (5, 8483), (8, 8573), (9, 8582), (13, 8702), (15, 8729), (19, 8795),

Gene: Bench_16 Start: 9006, Stop: 9572, Start Num: 3
Candidate Starts for Bench_16:
(Start: 3 @9006 has 119 MA's), (5, 9144), (8, 9234), (9, 9243), (13, 9363), (15, 9390), (19, 9456),

Gene: BigBubba_14 Start: 8389, Stop: 8955, Start Num: 3
Candidate Starts for BigBubba_14:
(Start: 3 @8389 has 119 MA's), (5, 8527), (8, 8617), (9, 8626), (13, 8746), (15, 8773), (19, 8839),

Gene: BilboSwaggins_15 Start: 9679, Stop: 10245, Start Num: 3
Candidate Starts for BilboSwaggins_15:
(Start: 3 @9679 has 119 MA's), (5, 9817), (8, 9907), (9, 9916), (13, 10036), (15, 10063), (19, 10129),

Gene: Bruin_14 Start: 9186, Stop: 9752, Start Num: 3
Candidate Starts for Bruin_14:
(Start: 3 @9186 has 119 MA's), (5, 9324), (8, 9414), (9, 9423), (13, 9543), (15, 9570), (19, 9636),

Gene: Buck_14 Start: 9635, Stop: 10201, Start Num: 3
Candidate Starts for Buck_14:
(Start: 3 @9635 has 119 MA's), (5, 9773), (8, 9863), (9, 9872), (13, 9992), (15, 10019), (19, 10085),

Gene: BugsBunny_12 Start: 8752, Stop: 9318, Start Num: 3
Candidate Starts for BugsBunny_12:
(Start: 3 @8752 has 119 MA's), (5, 8890), (8, 8980), (9, 8989), (13, 9109), (15, 9136), (19, 9202),

Gene: Cactus_16 Start: 8891, Stop: 9457, Start Num: 3
Candidate Starts for Cactus_16:
(Start: 3 @8891 has 119 MA's), (5, 9029), (8, 9119), (9, 9128), (13, 9248), (15, 9275), (19, 9341),

Gene: ChosenOne_13 Start: 8353, Stop: 8919, Start Num: 3

Candidate Starts for ChosenOne_13:
(Start: 3 @8353 has 119 MA's), (5, 8491), (8, 8581), (9, 8590), (13, 8710), (15, 8737), (19, 8803),

Gene: ChotaBhai_14 Start: 8389, Stop: 8955, Start Num: 3
Candidate Starts for ChotaBhai_14:
(Start: 3 @8389 has 119 MA's), (5, 8527), (8, 8617), (9, 8626), (13, 8746), (15, 8773), (19, 8839),

Gene: Cjw1_14 Start: 9903, Stop: 10469, Start Num: 3
Candidate Starts for Cjw1_14:
(Start: 3 @9903 has 119 MA's), (5, 10041), (8, 10131), (9, 10140), (13, 10260), (15, 10287), (19, 10353),

Gene: Command613_16 Start: 9947, Stop: 10513, Start Num: 3
Candidate Starts for Command613_16:
(Start: 3 @9947 has 119 MA's), (5, 10085), (8, 10175), (9, 10184), (13, 10304), (15, 10331), (19, 10397),

Gene: Contagion_14 Start: 9186, Stop: 9752, Start Num: 3
Candidate Starts for Contagion_14:
(Start: 3 @9186 has 119 MA's), (5, 9324), (8, 9414), (9, 9423), (13, 9543), (15, 9570), (19, 9636),

Gene: Cookies_15 Start: 9551, Stop: 10117, Start Num: 3
Candidate Starts for Cookies_15:
(Start: 3 @9551 has 119 MA's), (5, 9689), (8, 9779), (9, 9788), (13, 9908), (15, 9935), (19, 10001),

Gene: CrystalP_15 Start: 9679, Stop: 10245, Start Num: 3
Candidate Starts for CrystalP_15:
(Start: 3 @9679 has 119 MA's), (5, 9817), (8, 9907), (9, 9916), (13, 10036), (15, 10063), (19, 10129),

Gene: Czyszczonek1_15 Start: 8888, Stop: 9454, Start Num: 3
Candidate Starts for Czyszczonek1_15:
(Start: 3 @8888 has 119 MA's), (5, 9026), (8, 9116), (9, 9125), (13, 9245), (15, 9272), (19, 9338),

Gene: Daikon_13 Start: 9413, Stop: 9979, Start Num: 3
Candidate Starts for Daikon_13:
(Start: 3 @9413 has 119 MA's), (5, 9551), (8, 9641), (9, 9650), (13, 9770), (15, 9797), (19, 9863),

Gene: DoctorDiddles_15 Start: 8844, Stop: 9410, Start Num: 3
Candidate Starts for DoctorDiddles_15:
(Start: 3 @8844 has 119 MA's), (5, 8982), (8, 9072), (9, 9081), (13, 9201), (15, 9228), (19, 9294),

Gene: DrDrey_15 Start: 9629, Stop: 10195, Start Num: 3
Candidate Starts for DrDrey_15:
(Start: 3 @9629 has 119 MA's), (5, 9767), (8, 9857), (9, 9866), (13, 9986), (15, 10013), (19, 10079),

Gene: Dumbo_14 Start: 8610, Stop: 9176, Start Num: 3
Candidate Starts for Dumbo_14:
(Start: 3 @8610 has 119 MA's), (5, 8748), (8, 8838), (9, 8847), (13, 8967), (15, 8994), (19, 9060),

Gene: Dusk_14 Start: 9338, Stop: 9904, Start Num: 3
Candidate Starts for Dusk_14:
(Start: 3 @9338 has 119 MA's), (5, 9476), (8, 9566), (9, 9575), (13, 9695), (15, 9722), (19, 9788),

Gene: Easy2Say_15 Start: 9876, Stop: 10442, Start Num: 3

Candidate Starts for Easy2Say_15:

(Start: 3 @9876 has 119 MA's), (5, 10014), (8, 10104), (9, 10113), (13, 10233), (15, 10260), (19, 10326),

Gene: Elite2014_13 Start: 8353, Stop: 8919, Start Num: 3

Candidate Starts for Elite2014_13:

(Start: 3 @8353 has 119 MA's), (5, 8491), (8, 8581), (9, 8590), (13, 8710), (15, 8737), (19, 8803),

Gene: Elph10_15 Start: 8613, Stop: 9179, Start Num: 3

Candidate Starts for Elph10_15:

(Start: 3 @8613 has 119 MA's), (5, 8751), (8, 8841), (9, 8850), (13, 8970), (15, 8997), (19, 9063),

Gene: Emmina_14 Start: 8458, Stop: 9024, Start Num: 3

Candidate Starts for Emmina_14:

(Start: 3 @8458 has 119 MA's), (5, 8596), (8, 8686), (9, 8695), (13, 8815), (15, 8842), (19, 8908),

Gene: Eureka_15 Start: 9658, Stop: 10224, Start Num: 3

Candidate Starts for Eureka_15:

(Start: 3 @9658 has 119 MA's), (5, 9796), (8, 9886), (9, 9895), (13, 10015), (15, 10042), (19, 10108),

Gene: Filch_15 Start: 8898, Stop: 9464, Start Num: 3

Candidate Starts for Filch_15:

(Start: 3 @8898 has 119 MA's), (5, 9036), (8, 9126), (9, 9135), (13, 9255), (15, 9282), (19, 9348),

Gene: FireRed_14 Start: 9186, Stop: 9752, Start Num: 3

Candidate Starts for FireRed_14:

(Start: 3 @9186 has 119 MA's), (5, 9324), (8, 9414), (9, 9423), (13, 9543), (15, 9570), (19, 9636),

Gene: Flypotenuse_13 Start: 9295, Stop: 9861, Start Num: 3

Candidate Starts for Flypotenuse_13:

(Start: 3 @9295 has 119 MA's), (5, 9433), (8, 9523), (9, 9532), (13, 9652), (15, 9679), (19, 9745),

Gene: Gage_16 Start: 9133, Stop: 9699, Start Num: 3

Candidate Starts for Gage_16:

(Start: 3 @9133 has 119 MA's), (5, 9271), (8, 9361), (9, 9370), (13, 9490), (15, 9517), (19, 9583),

Gene: Gator_13 Start: 9294, Stop: 9860, Start Num: 3

Candidate Starts for Gator_13:

(Start: 3 @9294 has 119 MA's), (5, 9432), (8, 9522), (9, 9531), (13, 9651), (15, 9678), (19, 9744),

Gene: Gemini_16 Start: 9133, Stop: 9699, Start Num: 3

Candidate Starts for Gemini_16:

(Start: 3 @9133 has 119 MA's), (5, 9271), (8, 9361), (9, 9370), (13, 9490), (15, 9517), (19, 9583),

Gene: Glexan_13 Start: 9295, Stop: 9861, Start Num: 3

Candidate Starts for Glexan_13:

(Start: 3 @9295 has 119 MA's), (5, 9433), (8, 9523), (9, 9532), (13, 9652), (15, 9679), (19, 9745),

Gene: Goku_15 Start: 9385, Stop: 9951, Start Num: 3

Candidate Starts for Goku_15:

(Start: 3 @9385 has 119 MA's), (5, 9523), (8, 9613), (9, 9622), (13, 9742), (15, 9769), (19, 9835),

Gene: GoldenSpark_16 Start: 9133, Stop: 9699, Start Num: 3
Candidate Starts for GoldenSpark_16:
(Start: 3 @9133 has 119 MA's), (5, 9271), (8, 9361), (9, 9370), (13, 9490), (15, 9517), (19, 9583),

Gene: Goldilocks_16 Start: 9089, Stop: 9655, Start Num: 3
Candidate Starts for Goldilocks_16:
(Start: 3 @9089 has 119 MA's), (5, 9227), (8, 9317), (9, 9326), (13, 9446), (15, 9473), (19, 9539),

Gene: GooberAzure_16 Start: 9133, Stop: 9699, Start Num: 3
Candidate Starts for GooberAzure_16:
(Start: 3 @9133 has 119 MA's), (5, 9271), (8, 9361), (9, 9370), (13, 9490), (15, 9517), (19, 9583),

Gene: HanKaySha_15 Start: 8888, Stop: 9454, Start Num: 3
Candidate Starts for HanKaySha_15:
(Start: 3 @8888 has 119 MA's), (5, 9026), (8, 9116), (9, 9125), (13, 9245), (15, 9272), (19, 9338),

Gene: Harella_13 Start: 9295, Stop: 9861, Start Num: 3
Candidate Starts for Harella_13:
(Start: 3 @9295 has 119 MA's), (5, 9433), (8, 9523), (9, 9532), (13, 9652), (15, 9679), (19, 9745),

Gene: Henry_15 Start: 9678, Stop: 10244, Start Num: 3
Candidate Starts for Henry_15:
(Start: 3 @9678 has 119 MA's), (5, 9816), (8, 9906), (9, 9915), (13, 10035), (15, 10062), (19, 10128),

Gene: Highbury_15 Start: 8807, Stop: 9373, Start Num: 3
Candidate Starts for Highbury_15:
(Start: 3 @8807 has 119 MA's), (5, 8945), (8, 9035), (9, 9044), (13, 9164), (15, 9191), (19, 9257),

Gene: Holt_16 Start: 8962, Stop: 9528, Start Num: 3
Candidate Starts for Holt_16:
(Start: 3 @8962 has 119 MA's), (5, 9100), (8, 9190), (9, 9199), (13, 9319), (15, 9346), (19, 9412),

Gene: Hoonter_16 Start: 9133, Stop: 9699, Start Num: 3
Candidate Starts for Hoonter_16:
(Start: 3 @9133 has 119 MA's), (5, 9271), (8, 9361), (9, 9370), (13, 9490), (15, 9517), (19, 9583),

Gene: Hokey_15 Start: 8898, Stop: 9464, Start Num: 3
Candidate Starts for Hokey_15:
(Start: 3 @8898 has 119 MA's), (5, 9036), (8, 9126), (9, 9135), (13, 9255), (15, 9282), (19, 9348),

Gene: HufflyPuff_13 Start: 9142, Stop: 9708, Start Num: 3
Candidate Starts for HufflyPuff_13:
(Start: 3 @9142 has 119 MA's), (5, 9280), (8, 9370), (9, 9379), (13, 9499), (15, 9526), (19, 9592),

Gene: IHOP_14 Start: 9338, Stop: 9904, Start Num: 3
Candidate Starts for IHOP_14:
(Start: 3 @9338 has 119 MA's), (5, 9476), (8, 9566), (9, 9575), (13, 9695), (15, 9722), (19, 9788),

Gene: Ibantik_72 Start: 34097, Stop: 34657, Start Num: 1
Candidate Starts for Ibantik_72:
(Start: 1 @34097 has 2 MA's), (2, 34121), (4, 34133), (7, 34331), (11, 34421), (14, 34496), (17, 34520), (20, 34592),

Gene: Icee_14 Start: 9338, Stop: 9904, Start Num: 3
Candidate Starts for Icee_14:
(Start: 3 @9338 has 119 MA's), (5, 9476), (8, 9566), (9, 9575), (13, 9695), (15, 9722), (19, 9788),

Gene: Inca_14 Start: 8358, Stop: 8924, Start Num: 3
Candidate Starts for Inca_14:
(Start: 3 @8358 has 119 MA's), (5, 8496), (8, 8586), (9, 8595), (13, 8715), (15, 8742), (19, 8808),

Gene: JeTaime_16 Start: 9938, Stop: 10504, Start Num: 3
Candidate Starts for JeTaime_16:
(Start: 3 @9938 has 119 MA's), (5, 10076), (8, 10166), (9, 10175), (13, 10295), (15, 10322), (19, 10388),

Gene: Kanye_16 Start: 10126, Stop: 10692, Start Num: 3
Candidate Starts for Kanye_16:
(Start: 3 @10126 has 119 MA's), (5, 10264), (8, 10354), (9, 10363), (13, 10483), (15, 10510), (19, 10576),

Gene: Kimchi_16 Start: 9133, Stop: 9699, Start Num: 3
Candidate Starts for Kimchi_16:
(Start: 3 @9133 has 119 MA's), (5, 9271), (8, 9361), (9, 9370), (13, 9490), (15, 9517), (19, 9583),

Gene: Kostya_15 Start: 9678, Stop: 10244, Start Num: 3
Candidate Starts for Kostya_15:
(Start: 3 @9678 has 119 MA's), (5, 9816), (8, 9906), (9, 9915), (13, 10035), (15, 10062), (19, 10128),

Gene: Lilac_16 Start: 8634, Stop: 9200, Start Num: 3
Candidate Starts for Lilac_16:
(Start: 3 @8634 has 119 MA's), (5, 8772), (8, 8862), (9, 8871), (13, 8991), (15, 9018), (19, 9084),

Gene: Lilizi_16 Start: 8845, Stop: 9411, Start Num: 3
Candidate Starts for Lilizi_16:
(Start: 3 @8845 has 119 MA's), (5, 8983), (8, 9073), (9, 9082), (13, 9202), (15, 9229), (19, 9295),

Gene: Lilpickle_13 Start: 8353, Stop: 8919, Start Num: 3
Candidate Starts for Lilpickle_13:
(Start: 3 @8353 has 119 MA's), (5, 8491), (8, 8581), (9, 8590), (13, 8710), (15, 8737), (19, 8803),

Gene: MISSy_14 Start: 9186, Stop: 9752, Start Num: 3
Candidate Starts for MISSy_14:
(Start: 3 @9186 has 119 MA's), (5, 9324), (8, 9414), (9, 9423), (13, 9543), (15, 9570), (19, 9636),

Gene: MPhalcon_14 Start: 9186, Stop: 9752, Start Num: 3
Candidate Starts for MPhalcon_14:
(Start: 3 @9186 has 119 MA's), (5, 9324), (8, 9414), (9, 9423), (13, 9543), (15, 9570), (19, 9636),

Gene: MadamMonkfish_14 Start: 8564, Stop: 9130, Start Num: 3
Candidate Starts for MadamMonkfish_14:
(Start: 3 @8564 has 119 MA's), (5, 8702), (8, 8792), (9, 8801), (13, 8921), (15, 8948), (19, 9014),

Gene: Manda_15 Start: 9648, Stop: 10214, Start Num: 3
Candidate Starts for Manda_15:
(Start: 3 @9648 has 119 MA's), (5, 9786), (8, 9876), (9, 9885), (13, 10005), (15, 10032), (19, 10098),

Gene: Marshmallow_15 Start: 9678, Stop: 10244, Start Num: 3
Candidate Starts for Marshmallow_15:
(Start: 3 @9678 has 119 MA's), (5, 9816), (8, 9906), (9, 9915), (13, 10035), (15, 10062), (19, 10128),

Gene: Maxxinista_15 Start: 8613, Stop: 9179, Start Num: 3
Candidate Starts for Maxxinista_15:
(Start: 3 @8613 has 119 MA's), (5, 8751), (8, 8841), (9, 8850), (13, 8970), (15, 8997), (19, 9063),

Gene: Mindy_15 Start: 9457, Stop: 10023, Start Num: 3
Candidate Starts for Mindy_15:
(Start: 3 @9457 has 119 MA's), (5, 9595), (8, 9685), (9, 9694), (13, 9814), (15, 9841), (19, 9907),

Gene: Miniwave_15 Start: 9876, Stop: 10442, Start Num: 3
Candidate Starts for Miniwave_15:
(Start: 3 @9876 has 119 MA's), (5, 10014), (8, 10104), (9, 10113), (13, 10233), (15, 10260), (19, 10326),

Gene: Misfit_14 Start: 9230, Stop: 9796, Start Num: 3
Candidate Starts for Misfit_14:
(Start: 3 @9230 has 119 MA's), (5, 9368), (8, 9458), (9, 9467), (13, 9587), (15, 9614), (19, 9680),

Gene: Moldemort_15 Start: 8888, Stop: 9454, Start Num: 3
Candidate Starts for Moldemort_15:
(Start: 3 @8888 has 119 MA's), (5, 9026), (8, 9116), (9, 9125), (13, 9245), (15, 9272), (19, 9338),

Gene: Mosby_14 Start: 9186, Stop: 9752, Start Num: 3
Candidate Starts for Mosby_14:
(Start: 3 @9186 has 119 MA's), (5, 9324), (8, 9414), (9, 9423), (13, 9543), (15, 9570), (19, 9636),

Gene: Murica_13 Start: 9142, Stop: 9708, Start Num: 3
Candidate Starts for Murica_13:
(Start: 3 @9142 has 119 MA's), (5, 9280), (8, 9370), (9, 9379), (13, 9499), (15, 9526), (19, 9592),

Gene: Murphy_14 Start: 8605, Stop: 9171, Start Num: 3
Candidate Starts for Murphy_14:
(Start: 3 @8605 has 119 MA's), (5, 8743), (8, 8833), (9, 8842), (13, 8962), (15, 8989), (19, 9055),

Gene: Myrale_15 Start: 9549, Stop: 10115, Start Num: 3
Candidate Starts for Myrale_15:
(Start: 3 @9549 has 119 MA's), (5, 9687), (8, 9777), (9, 9786), (13, 9906), (15, 9933), (19, 9999),

Gene: Nala_14 Start: 9186, Stop: 9752, Start Num: 3
Candidate Starts for Nala_14:
(Start: 3 @9186 has 119 MA's), (5, 9324), (8, 9414), (9, 9423), (13, 9543), (15, 9570), (19, 9636),

Gene: NelitzaMV_15 Start: 9748, Stop: 10314, Start Num: 3
Candidate Starts for NelitzaMV_15:
(Start: 3 @9748 has 119 MA's), (5, 9886), (8, 9976), (9, 9985), (13, 10105), (15, 10132), (19, 10198),

Gene: Nimrod_14 Start: 9385, Stop: 9951, Start Num: 3
Candidate Starts for Nimrod_14:
(Start: 3 @9385 has 119 MA's), (5, 9523), (8, 9613), (9, 9622), (13, 9742), (15, 9769), (19, 9835),

Gene: NoSleep_15 Start: 8885, Stop: 9451, Start Num: 3
Candidate Starts for NoSleep_15:
(Start: 3 @8885 has 119 MA's), (5, 9023), (8, 9113), (9, 9122), (13, 9242), (15, 9269), (19, 9335),

Gene: OrionPax_15 Start: 8888, Stop: 9454, Start Num: 3
Candidate Starts for OrionPax_15:
(Start: 3 @8888 has 119 MA's), (5, 9026), (8, 9116), (9, 9125), (13, 9245), (15, 9272), (19, 9338),

Gene: Palpatine_14 Start: 9183, Stop: 9749, Start Num: 3
Candidate Starts for Palpatine_14:
(Start: 3 @9183 has 119 MA's), (5, 9321), (8, 9411), (9, 9420), (13, 9540), (15, 9567), (19, 9633),

Gene: Paperbeatsrock_16 Start: 10120, Stop: 10686, Start Num: 3
Candidate Starts for Paperbeatsrock_16:
(Start: 3 @10120 has 119 MA's), (5, 10258), (8, 10348), (9, 10357), (13, 10477), (15, 10504), (19, 10570),

Gene: Pat3_14 Start: 8388, Stop: 8954, Start Num: 3
Candidate Starts for Pat3_14:
(Start: 3 @8388 has 119 MA's), (5, 8526), (8, 8616), (9, 8625), (13, 8745), (15, 8772), (19, 8838),

Gene: Petra64142_15 Start: 9601, Stop: 10167, Start Num: 3
Candidate Starts for Petra64142_15:
(Start: 3 @9601 has 119 MA's), (5, 9739), (8, 9829), (9, 9838), (13, 9958), (15, 9985), (19, 10051),

Gene: Phaja_14 Start: 9338, Stop: 9904, Start Num: 3
Candidate Starts for Phaja_14:
(Start: 3 @9338 has 119 MA's), (5, 9476), (8, 9566), (9, 9575), (13, 9695), (15, 9722), (19, 9788),

Gene: Pharsalus_15 Start: 9920, Stop: 10486, Start Num: 3
Candidate Starts for Pharsalus_15:
(Start: 3 @9920 has 119 MA's), (5, 10058), (8, 10148), (9, 10157), (13, 10277), (15, 10304), (19, 10370),

Gene: PhatBacter_14 Start: 9186, Stop: 9752, Start Num: 3
Candidate Starts for PhatBacter_14:
(Start: 3 @9186 has 119 MA's), (5, 9324), (8, 9414), (9, 9423), (13, 9543), (15, 9570), (19, 9636),

Gene: Phaux_13 Start: 9186, Stop: 9752, Start Num: 3
Candidate Starts for Phaux_13:
(Start: 3 @9186 has 119 MA's), (5, 9324), (8, 9414), (9, 9423), (13, 9543), (15, 9570), (19, 9636),

Gene: Phrux_14 Start: 8884, Stop: 9450, Start Num: 3
Candidate Starts for Phrux_14:
(Start: 3 @8884 has 119 MA's), (5, 9022), (8, 9112), (9, 9121), (13, 9241), (15, 9268), (19, 9334),

Gene: Policronamos_14 Start: 9186, Stop: 9752, Start Num: 3
Candidate Starts for Policronamos_14:
(Start: 3 @9186 has 119 MA's), (5, 9324), (8, 9414), (9, 9423), (13, 9543), (15, 9570), (19, 9636),

Gene: Porky_13 Start: 8458, Stop: 9024, Start Num: 3
Candidate Starts for Porky_13:

(Start: 3 @8458 has 119 MA's), (5, 8596), (8, 8686), (9, 8695), (13, 8815), (15, 8842), (19, 8908),

Gene: Pumpkin_15 Start: 8701, Stop: 9267, Start Num: 3

Candidate Starts for Pumpkin_15:

(Start: 3 @8701 has 119 MA's), (5, 8839), (8, 8929), (9, 8938), (13, 9058), (15, 9085), (19, 9151),

Gene: Quallification_16 Start: 9885, Stop: 10451, Start Num: 3

Candidate Starts for Quallification_16:

(Start: 3 @9885 has 119 MA's), (5, 10023), (8, 10113), (9, 10122), (13, 10242), (15, 10269), (19, 10335),

Gene: Rakim_16 Start: 9792, Stop: 10358, Start Num: 3

Candidate Starts for Rakim_16:

(Start: 3 @9792 has 119 MA's), (5, 9930), (8, 10020), (9, 10029), (13, 10149), (15, 10176), (19, 10242),

Gene: Rimmer_14 Start: 9245, Stop: 9811, Start Num: 3

Candidate Starts for Rimmer_14:

(Start: 3 @9245 has 119 MA's), (5, 9383), (8, 9473), (9, 9482), (13, 9602), (15, 9629), (19, 9695),

Gene: RiverMonster_14 Start: 8898, Stop: 9464, Start Num: 3

Candidate Starts for RiverMonster_14:

(Start: 3 @8898 has 119 MA's), (5, 9036), (8, 9126), (9, 9135), (13, 9255), (15, 9282), (19, 9348),

Gene: Saints25_15 Start: 8807, Stop: 9373, Start Num: 3

Candidate Starts for Saints25_15:

(Start: 3 @8807 has 119 MA's), (5, 8945), (8, 9035), (9, 9044), (13, 9164), (15, 9191), (19, 9257),

Gene: Sassay_14 Start: 9186, Stop: 9752, Start Num: 3

Candidate Starts for Sassay_14:

(Start: 3 @9186 has 119 MA's), (5, 9324), (8, 9414), (9, 9423), (13, 9543), (15, 9570), (19, 9636),

Gene: ShamWow_15 Start: 9679, Stop: 10245, Start Num: 3

Candidate Starts for ShamWow_15:

(Start: 3 @9679 has 119 MA's), (5, 9817), (8, 9907), (9, 9916), (13, 10036), (15, 10063), (19, 10129),

Gene: ShereKhan_16 Start: 10126, Stop: 10692, Start Num: 3

Candidate Starts for ShereKhan_16:

(Start: 3 @10126 has 119 MA's), (5, 10264), (8, 10354), (9, 10363), (13, 10483), (15, 10510), (19, 10576),

Gene: Simpliphy_15 Start: 8888, Stop: 9454, Start Num: 3

Candidate Starts for Simpliphy_15:

(Start: 3 @8888 has 119 MA's), (5, 9026), (8, 9116), (9, 9125), (13, 9245), (15, 9272), (19, 9338),

Gene: SirDuracell_14 Start: 8345, Stop: 8911, Start Num: 3

Candidate Starts for SirDuracell_14:

(Start: 3 @8345 has 119 MA's), (5, 8483), (8, 8573), (9, 8582), (13, 8702), (15, 8729), (19, 8795),

Gene: SophKB_15 Start: 9678, Stop: 10244, Start Num: 3

Candidate Starts for SophKB_15:

(Start: 3 @9678 has 119 MA's), (5, 9816), (8, 9906), (9, 9915), (13, 10035), (15, 10062), (19, 10128),

Gene: Sotrice96_15 Start: 9634, Stop: 10200, Start Num: 3
Candidate Starts for Sotrice96_15:
(Start: 3 @9634 has 119 MA's), (5, 9772), (8, 9862), (9, 9871), (13, 9991), (15, 10018), (19, 10084),

Gene: Stank_16 Start: 9133, Stop: 9699, Start Num: 3
Candidate Starts for Stank_16:
(Start: 3 @9133 has 119 MA's), (5, 9271), (8, 9361), (9, 9370), (13, 9490), (15, 9517), (19, 9583),

Gene: Stark_15 Start: 8901, Stop: 9467, Start Num: 3
Candidate Starts for Stark_15:
(Start: 3 @8901 has 119 MA's), (5, 9039), (8, 9129), (9, 9138), (13, 9258), (15, 9285), (19, 9351),

Gene: StellaBean_15 Start: 9678, Stop: 10244, Start Num: 3
Candidate Starts for StellaBean_15:
(Start: 3 @9678 has 119 MA's), (5, 9816), (8, 9906), (9, 9915), (13, 10035), (15, 10062), (19, 10128),

Gene: StolenFromERC_16 Start: 9133, Stop: 9699, Start Num: 3
Candidate Starts for StolenFromERC_16:
(Start: 3 @9133 has 119 MA's), (5, 9271), (8, 9361), (9, 9370), (13, 9490), (15, 9517), (19, 9583),

Gene: Success_54 Start: 30512, Stop: 31111, Start Num: 1
Candidate Starts for Success_54:
(Start: 1 @30512 has 2 MA's), (2, 30536), (6, 30731), (10, 30824), (12, 30893), (16, 30923), (18, 30953), (21, 31052),

Gene: TBrady12_16 Start: 9130, Stop: 9696, Start Num: 3
Candidate Starts for TBrady12_16:
(Start: 3 @9130 has 119 MA's), (5, 9268), (8, 9358), (9, 9367), (13, 9487), (15, 9514), (19, 9580),

Gene: Tarkin_16 Start: 10129, Stop: 10695, Start Num: 3
Candidate Starts for Tarkin_16:
(Start: 3 @10129 has 119 MA's), (5, 10267), (8, 10357), (9, 10366), (13, 10486), (15, 10513), (19, 10579),

Gene: TeardropMSU_14 Start: 9586, Stop: 10152, Start Num: 3
Candidate Starts for TeardropMSU_14:
(Start: 3 @9586 has 119 MA's), (5, 9724), (8, 9814), (9, 9823), (13, 9943), (15, 9970), (19, 10036),

Gene: Teaspoon_14 Start: 8583, Stop: 9149, Start Num: 3
Candidate Starts for Teaspoon_14:
(Start: 3 @8583 has 119 MA's), (5, 8721), (8, 8811), (9, 8820), (13, 8940), (15, 8967), (19, 9033),

Gene: Terminus_14 Start: 9230, Stop: 9796, Start Num: 3
Candidate Starts for Terminus_14:
(Start: 3 @9230 has 119 MA's), (5, 9368), (8, 9458), (9, 9467), (13, 9587), (15, 9614), (19, 9680),

Gene: Thresher_15 Start: 9891, Stop: 10457, Start Num: 3
Candidate Starts for Thresher_15:
(Start: 3 @9891 has 119 MA's), (5, 10029), (8, 10119), (9, 10128), (13, 10248), (15, 10275), (19, 10341),

Gene: Tomaszewski_14 Start: 9279, Stop: 9845, Start Num: 3
Candidate Starts for Tomaszewski_14:

(Start: 3 @9279 has 119 MA's), (5, 9417), (8, 9507), (9, 9516), (13, 9636), (15, 9663), (19, 9729),

Gene: Toto_15 Start: 9679, Stop: 10245, Start Num: 3

Candidate Starts for Toto_15:

(Start: 3 @9679 has 119 MA's), (5, 9817), (8, 9907), (9, 9916), (13, 10036), (15, 10063), (19, 10129),

Gene: Traaww1_13 Start: 9324, Stop: 9890, Start Num: 3

Candidate Starts for Traaww1_13:

(Start: 3 @9324 has 119 MA's), (5, 9462), (8, 9552), (9, 9561), (13, 9681), (15, 9708), (19, 9774),

Gene: Tuco_15 Start: 9678, Stop: 10244, Start Num: 3

Candidate Starts for Tuco_15:

(Start: 3 @9678 has 119 MA's), (5, 9816), (8, 9906), (9, 9915), (13, 10035), (15, 10062), (19, 10128),

Gene: Ukulele_14 Start: 8901, Stop: 9467, Start Num: 3

Candidate Starts for Ukulele_14:

(Start: 3 @8901 has 119 MA's), (5, 9039), (8, 9129), (9, 9138), (13, 9258), (15, 9285), (19, 9351),

Gene: Wiggin_16 Start: 9133, Stop: 9699, Start Num: 3

Candidate Starts for Wiggin_16:

(Start: 3 @9133 has 119 MA's), (5, 9271), (8, 9361), (9, 9370), (13, 9490), (15, 9517), (19, 9583),

Gene: Willez_14 Start: 9186, Stop: 9752, Start Num: 3

Candidate Starts for Willez_14:

(Start: 3 @9186 has 119 MA's), (5, 9324), (8, 9414), (9, 9423), (13, 9543), (15, 9570), (19, 9636),

Gene: Xandras_16 Start: 9133, Stop: 9699, Start Num: 3

Candidate Starts for Xandras_16:

(Start: 3 @9133 has 119 MA's), (5, 9271), (8, 9361), (9, 9370), (13, 9490), (15, 9517), (19, 9583),

Gene: YassJohnny_15 Start: 9678, Stop: 10244, Start Num: 3

Candidate Starts for YassJohnny_15:

(Start: 3 @9678 has 119 MA's), (5, 9816), (8, 9906), (9, 9915), (13, 10035), (15, 10062), (19, 10128),

Gene: Youngblood_14 Start: 9311, Stop: 9877, Start Num: 3

Candidate Starts for Youngblood_14:

(Start: 3 @9311 has 119 MA's), (5, 9449), (8, 9539), (9, 9548), (13, 9668), (15, 9695), (19, 9761),

Gene: xkcd_15 Start: 9338, Stop: 9904, Start Num: 3

Candidate Starts for xkcd_15:

(Start: 3 @9338 has 119 MA's), (5, 9476), (8, 9566), (9, 9575), (13, 9695), (15, 9722), (19, 9788),